

THE

NEW DISPENSATORY:

CONTAINING

I.

The THEORY and PRACTICE of PHARMACY.

II.

A Distribution of Medicinal Simples, according to their Virtues and sensible Qualities; the Description, Use, and Dose of each Article.

III.

A full Translation of the LONDON and EDINBURGH PHARMACOPOEIAS; with the U.C., Dose, &c. of the feveral Medicines.

IV.

Directions for Extemporaneous Prescription; with a felect Number of elegant Forms.

V.

A Collection of CHEAP REMEDIES for the Use of the POOR.

The Whole interspersed

With Practical Cautions and Observations.

Intended as a Correction, and Improvement of

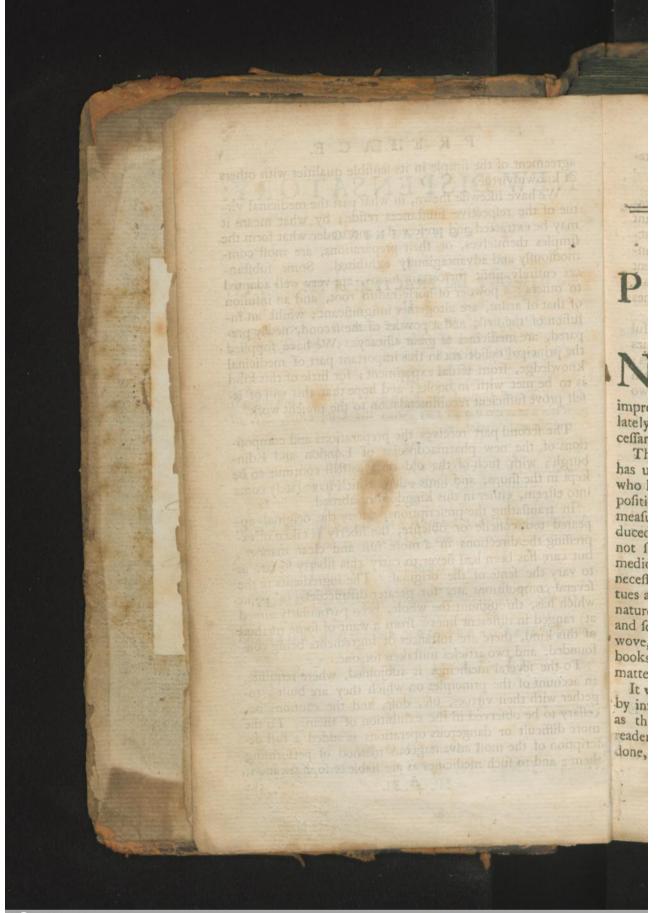
QUINCY.

LONDON,

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MDCCLIII.

1753



PREFACE.

To the whole are fubioned three copious and ufeful

neous prefeription; together with a collection of elegant and efficacious medicines made use of in the present prattice; a collection, and indeed very numerous, but con-

Otwithstanding pharmacy is of that importance to the health of mankind, as to engage the favourable reception of the public for books written to improve the art; yet the great number which have lately appeared makes a preface to this undertaking ne-

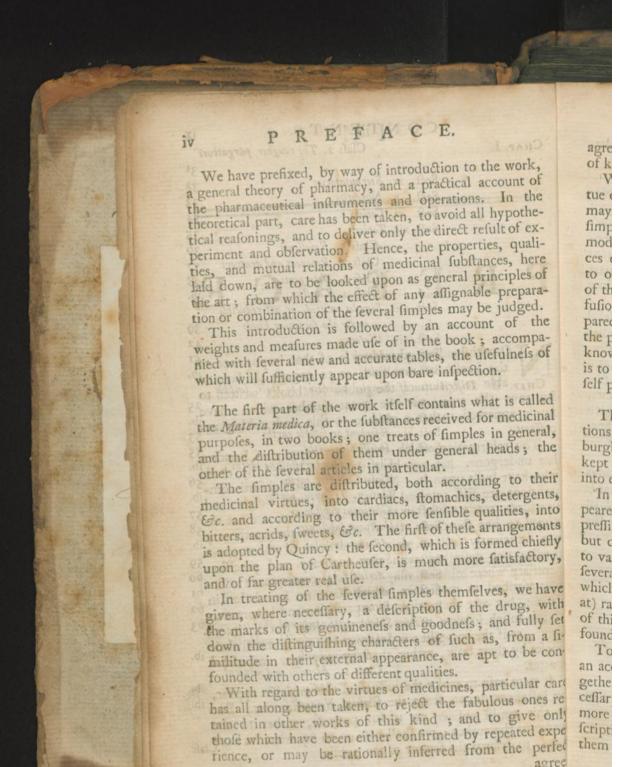
ceffary.

The reformation which the pharmacopæia of London has undergone, has not been equation followed by those who have built upon it. Many observe and absurd compositions are still retained by them all: the weights and measures, made use of in the several formulæ, are not reduced to one standard: the directions to the apothecary not sufficiently sull or plain: the articles of the materia medica not described with that accuracy and precision necessary where mistakes may be of satal consequence: virtues ascribed to medicines, which have no foundation in nature, but owe their origin to superstition and ignorance: and so much foreign matter, and ridiculous stories, interwove, as if the compilers endeavoured to recommend their books by their bulk, rather than by any new and useful matter.

It were easy to make the justness of this criticism appear, by instances drawn from the several dispensatories. But as this could answer no useful purpose, either to the reader or the author; we shall pass on to say what we have done, to deserve the favour of the public.

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We



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PREFACE.

agreement of the simple in its sensible qualities with others of known virtue.

We have likewise shewn, in what part the medicinal virtue of the respective substances reside; by what means it may be extracted and preserved; and under what form the simples themselves, or their preparations, are most commodiously and advantagiously whibited. Some substances entirely unsit for certain forms, are very well adapted to others: a powder of horse-radish root, and an insusion of that of arum, are altogether insignificant; whilst an insusion of the first, and a powder of the second, newly prepared, are medicines of great efficacy. We have supplied the principal desiderata in this important part of medicinal knowledge, from actual experiment; for little of this kind is to be met with in books: and hope that this will of inselless prove sufficient recommendation to the present work.

The fecond part receives the preparations and compositions of the new pharmacopæias of London and Edinburgh; with such of the old ones as still continue to be kept in the shops, and some others which have lately come

into efteem, either in this kingdom or abroad.

In translating the prescriptions, where the original appeared too concise or obscure, the liberty is taken of expressing the directions in a more full and clear manner; but care has been had never to carry this liberty so far, as to vary the sense of the original. The ingredients in the several compositions are, for greater distinctness (a point which has, throughout the whole, been particularly aimed at) ranged in different lines: from a want of some method of this kind, there are instances of ingredients being confounded, and two articles mistaken for one.

To the feveral medicines is subjoined, where requisite, an account of the principles on which they are built; together with their virtues, use, dose, and the cautions necessary to be observed in the exhibition of them. To the more difficult or dangerous operations is added a full description of the most advantageous method of performing them: and to such medicines as are liable to sophistication,

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PREFACE.

the means of diftinguishing the genuine from the adulterated.

In the third part, directions are given for extemporaneous prescription; together with a collection of elegant and efficacious medicines made use of in the present practice; a collection, not indeed very numerous, but containing a sufficient variety of compositions, in differentforms, for answering most intentions of cure. This part is followed by a number of efficacious and cheap medicines designed for the use of the poor.

To the whole are subjoined three copious and useful indexes; the first of diseases, with the principal remedies adapted to each in their different stages and circumstances; the second of the English, and the third of the Latin names of the simple and compound medicines. In the two latter, the synonymous names, made use of by authors, are inserted, in a different character; an addition, which was not made without considerable trouble to the author, and which he hopes will be of equal utility to the reader.

The author is fufficiently sensible of many imperfections in this performance; nevertheless presumes to hope that it will appear he has every where consulted the dignity of the art, the ease and advantage of the operator, and the safety of the patient.

necessary where militakes may be of satal consequence; virtues alcribed to medicines, which have no foundation in nature, but owe their origin to superstition and ignorance; and so much foreign matter, and ridiculous stories, interwove, as if the compilers endeavoured to recommend their books by their bulk, rather than by any, new and useful matter.

It were easy to make the justness of this criticism appear, by an Arrest drawn from the several dispersatories. But as this could answer no useful purpose, either to the reader or the author; we shall pass on to say what we have done, to deserve the tayour of the public.

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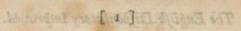


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THEORY of PHARMACY.

PHARMACY is the art of preparing and compounding natural substances for medicinal purposes; in a manner suitable to their

respective properties, and the intentions of cure

This art consists of two branches: one which teaches the knowledge of medicinal substances themselves, their distinguishing characteristics, the marks of their goodness, genuineness and purity, their several properties and qualities, their relations to one another with regard to miscibility, their sitness or unsitness for different treatments, and their general effects upon the human body: the other, the skilful performance of the several processes, or operations, by which they are sitted for particular purposes.

A periect acquaintance with pharmacy, confidered in this light, is effentially necessary to the due exercise of the art of physic: for if this is neglected, bodies that nearly resemble one another in appearance will not only be confounded; but likewise substances of known efficacy will be subjected to operations which destroy their virtue, insufed in improper menstrua, added to bodies with which they refuse a due degree of union, or which alter and impair their

virtues.

Pharmacy has been usually distinguished into GALENICAL and CHEMICAL. By the first, medicinal substances are barely reduced into a convenient form for being exhibited, whether singly or in composition: by the other, their efficacious parts are extracted from the use-less and inactive; mixt bodies are resolved into more simple ones of different qualities from the original subject; and new artificial compounds produced, possessing properties which neither of the ingredients had before. The reduction of bodies into powder in the common manner, the forming of pills, troches, lozenges, electaries, conferves, plasters, belong to the galenical; effential oils, spirits, extracts, refins, volatile and fixt salts, the artificial neutral salts, the preparations of metallic and other mineral substances, to the chemical pharmacy.

Cura

CHAPTER I.

A general view of the properties and relations of medicinal substances.

SECT. I.

VEGETABLES.

7 EGETABLES are organized bodies, containing, in certain veffels, OILY, RESINOUS, GUMMY, and SALINE juices. Thefe are found to differ greatly, not only in quantity, but likewife in their quality, according to the age of the plant, the feafon of the year, and the foil in which it is produced. Thus fome herbs in their infancy are found to abound most with oil; whilst others yield little or none, till they have attained to a more advanced age. The common grain, and fundry other feeds, when beginning to vegetate, are in tafte remarkably fweet; yet the kernels of certain fruits prove, at the same period, extremely acrid. The roots of some of our indigenous plants, whose juice is, during the summer, thin and watery; if wounded early in the spring, yield rich, balfamic juices, which, exposed to a gentle warmth, foon concrete into folid gummy-refins, superior to many of those brought from abroad. In open exposures, dry foils, and fair warm seasons, aromatic plants prove ftronger and more fragrant, and fetid ones weaker in fmell, than in the opposite circumstances. To these particulars, therefore, due regard ought to be had in the collecting of plants for medicinal

Vegetable oils are of two kinds: one, groß, infipid, and inodorous; called, from the manner in which it is usually extracted, expressed oil: the other more subtile and volatile, possessing the whole of the smell, and not unfrequently the taste of the subject, and hence named assential.

Expressed oils, in their pure state, do not unite with either aqueous or spirituous liquors: a skillful addition of sugar renders them miscible with the former, into lohochs and oily draughts: alcaline salts change them into a soap, miscible with both, and perfectly dissoluble in the latter into an uniform transparent liquor. In the cold, they lose greatly of their sluidity: some, in a small degree of cold, congeal. Exposed to a warm air, they soon become thin, and highly rancid; their soft, subricating and relaxing quality

quality is changed into a fharp acrimonious one: in this flate, inflead of allaying, they occasion irritation; instead of obtunding corrosive humors, they corrode and instance. These oils are liable to the same noxious alteration while contained in the original subject: hence the oily seeds and kernels, as almonds and the cold seeds so called, are frequently met with rancid. Nevertheless, on triturating these kinds of substances with water, the oil, by the interposition of the other matter, unites with that shuid into an emulsion or milky liquor, which tends rather to grow sour than rancid.

ESSENTIAL OILS unite with rectified spirit of wine, but not with water; though this last may be made to take up some portion of them, fo as to become confiderably impregnated with their flayour: the admixture of fugar, the yolk of an egg, or alcaline falts, renders them totally diffoluble in water. Digefted with volatile alcaline spirits, they undergo various changes of colour, and some of the less odorous acquire confiderable degrees of fragrancy: whilft fixt alcalies universally impair their odour, and hence prove injurious additions in the extraction of tinctures from aromatic vegetables. These oils, exposed for a length of time, to a warm air, fuffer an alteration very different from the foregoing, gradually becoming thick, and at length hardening into a folid brittle concrete, with a remarkable diminution of their volatility, fragrancy, pungency, and warm stimulating quality; though they are still found to yield, upon proper treatment, a portion of fluid oil, little different from what it was at first. The admixture of an acid instantly produces a change fimilar to that which time effects. The expreffed oils likewife are coagulated by acids.

Oils thus thickned, or indurated, from BALSAMS and RESINS, fome of which, like the oils in their fluid state, prove insipid and inodorous; whilst others possess a greater or less degree of smell, pungency and warmth. The latter and most of the former, are dissolved by rectified spirit, and by watery solutions of fixt alcaline salts. They all dissolve in the sluid oils; and, when liquested by

heat, mingle with one another.

Gums and Mucilages are glutinous substances, of no particular smell or taste, readily dissoluble in water, but not in spirits, or in oils; they are nevertheless easily miscible, when softened with a little water, both with the sluid oils and the thicker balsams; which, by this means, become in good measure soluble in aqueous liquors, and are thus excellently fitted for medicinal purposes.

This elegant method of uniting oils with aqueous liquors, which has been kept a fecret in a few hands, feems to have been known to Dr. Grew. 'I took, fays he, oil of anifeeds, and pouring it upon another body, I fo ordered it, that it was thereby turned into a perfect milk white balfam or butter; by which

22

ee means

means the oil became mingleable with any vinous or watery liquor; easily and inftantaneously dissolving therein, in the form of a milk. And note, this is done without the least alteration of the smell, taste, nature, or operation of the said oil. By somewhat the like means, any other stillatitious oil may be transformed into a milk-white butter, and in like manner be mingled with water, or any other liquor; which is of various use in medicine, and what I find oftentimes very convenient and

The native salts of vegetables are not only foluble in water, like other falts, but many of them in rectified sprit also: they likewise render a part of the gross oil miscible with each of these menstrua, the largest quantity with aqueous ones. Hence essential falts, obtained from the aqueous and oily juices of vegetables, are found to partake largely of oil; whilst those extracted by spirit of wine prove far more pure. By means of this menstruum, certain productions of this kind may be excellently purified, acidulous salts prepared from some vegetables of that class, and perfect saccharine concretions from many of our indigenous sweets.

The infipid oils and gums, and the fweet and acid falts, in all the fubflances which contain them, agree among themselves in quality: vegetables abounding with the three first are emollient or nutritious; with the latter, cooling. Effential oils and refins, on the other hand, differ greatly in different subjects: in these the virtues of aromatic, fetid, and most of the acrid plants reside : the purgative, emetic, bitter and aftringent qualities of vegetables, are likewise generally contained in particular species's of refinous matter either pure, or blended with the other principles; the aftringent, the fimple bitter, and the purgative bitter parts, disfolve almost equally in water and in rectified spirit; tasteless purgative and emetic fubstances are foluble in spirit only. The aromatic and odorous refins contain an effential oil which exhales by the heat of boiling water: the other refinous matters, the infipid oils, the gums, mucilages and fweets, contain nothing that is capable of exhaling without fuch a degree of fire, as changes or destroys their original qualities.

Vegetable substances, exposed, in close vessels, to the action of a strong fire, are resolved into acrimonious oils, of an empyreumatic, or burnt setid smell; acid spirits; and a black coal, void of taste or smell, and not dissoluble in any kind of liquors. Burnt, in the open air, they are changed partly into a nauseous bitter soot; whose active parts are dissoluble both in water and in spirit of wine; and partly into asses: these are composed of an

* Grew of mixture, chap. v. inft. i. § 7.

EARTH

EARTH foluble only in acids, and of a FIXT ALCALINE SALT feparable from it by water. Some vegetable fubstances, as muftard feed, yield no fixt alcaline falt, but a confiderable quantity of a VOLATILE one. Soot, and all vegetable matters when putrified, yield likewife a volatile alcali.

Some have endeavoured to investigate the virtues of plants from the principles into which they are, by this treatment, refoluble: and in this view, the chemits of the French academy analysed almost all those made use of in medicine. The result of their experiments shewed, that the labour was fruitless; that the substances thus obtained have no resemblance, in quality, to the original vegetable; and that plants, the most remote in virtue, purgative and astringent, poisonous and falutary, are changed by fire into similar principles.

Sweet vegetable juices, or folutions made in water, exposed to a gentle warmth, ferment, lose their sweetness; and are converted into a vinous liquor, which yields in distillation an inflammable spirit; productions extremely different in quality from the liquor employed at first. The native juices of fruits, high-boiled worts, &c. attenuate the animal fluids, and relax the folids; and hence have sometimes proved serviceable as aperient medicines, and when imprudently taken, occasioned dangerous fluxes: whilst the vinous and spirituous liquors, produced from them by sermentation, tend in proportion to their degree of spirituosity, to thicken the sluids, to strengthen and constringe the solids, and thus prevent or restrain immoderate evacuations.

Wines are changed, by a continuation of the process which produced them, into an uninflammable, cooling, acid liquor, VINEGAR: the more spirituous the wine, the more acid is the vinegar. This, if the operation is farther continued, becomes almost insipid, and is at length converted into a PUTRID matter.

SECT. II. ANIMALS.

THE general principles of animals are, a GELATINOUS substance, soluble in water; and a gross oil or FAT, not miscible, of itself, with either aqueous or spirituous liquors, but reducible by fixt alcaline salts, like the vegetable oils, into soap. Some infects, the ant in particular, are found to contain an ACID juice; and the strong-scented animal matters, as caster and musk, an ESSENTIAL OIL, containing the whole smell and slavour of the subject, and, like the effential oils of vegetables, volatile in the heat of boiling water, and dissoluble in spirit of wine.

The

The foft and fluid parts of animals are strongly disposed to run into PUTREFACTION *: they putrefy much sooner than vegetable matters; and when corrupted prove more offensive.

The putrefaction of animal substances is prevented or retarded by all saline matters; even by the fixed and volatile alcaline salts, which have been generally supposed to produce a contrary effect: of all the salts that have been made trial of, sea salt results putrefaction the least; and in small quantities, is sound to hasten it.

* This process takes place, in some degree, even in the bodies of living animals, as often as the juices stagnate long, or are prevented, by an obstruction of the natural emunctories, from throwing off their more volante and corruptible parts.

Dr. Fringle has lately communicated fome excellent observations and experiments on this subject; and given great light into the nature of animal putteraction, and putted diseases. He observes, that if the corruption is great and sudden, a sever or a flux ensue; but that if the accumulation of acrimonious putted matter is so slow, that the body becomes habituated to the putteraction, a scurvy prevails. Hence the frequency of this last distemper in long voyages, on board unventilated ships, from corrupted air and provisions; in marshy countries, from similar causes; and in a lesser degree, in all northern climates, in most fituations, from a want of due peripiration.

During putrefaction, a quantity of air is generated; all the humors become gradually thinner, and the fibrous parts more lax and tender. Hence the tympany which fucceeds the corruption of any of the viscera, or the imprudent suppression of dysenteries by astringents; and the weakness and laxity of the vessels observable in scurvies, &c.

The crassamentum of human blood changes by putrefaction into a dark livid coloured liquor: a few drops of which tinge the serum of a tawny hue; like that of the ichor of sores and dysenteric sluxes; of the white of the eye, the saliva, the serum of the blood drawn from a vein, and that which oozes from a blister, in deep scurves, and in the advanced state of malignant severs.

The putrid crassamentum changes a large quantity of recent urine into a flame coloured water, so common in severs and in the scurvy. This mixture, after slanding an hour or two, gathers a cloud resembling what is seen in the crude water of acute distempers; with some oily matter on the surface, like the scum which sloats on corbutic urine.

The ferum of blood deposites, in putrefaction, a sediment resembling well digested pus, and changes to a faint olive green. A serum so far putrised as to become green, is perhaps never to be seen in the vessels of living animals: but in dead bodies, this serum is to be distinguished by the green colour which the sless acquires in corrupting. In salted meats, this is commonly ascribed to the brine, but erroncously; for that has no power of giving this colour, but only of qualifying the taste, and in some degree the sill effects of corrupted aliments. In soul ulcers, and other fores, where the serum is left to stagnate long, the matter is likewise found of this colour, and it is then always acrimonious.

The

The vegetable bitters are much stronger antiseptics; not only preferving slesh uncorrupted for a great length of time; but likewise in some degree recovering it, when putrid, to its original firmness and sweetness. Vinous spirits, aromatic and warm substances, most of the diaphoretic drugs, and the acrid plants falsely called alcalescent, are also found to resist putrefaction; and the absorbent earths, to promote it.

All animal substances, excluded from the air, and exposed to a strong fire, are resolved into setid oils, volatile alcaline salits, and a black coal, which on the admission of air, burns into white ashes, perfectly void of saline matter. The gelatinous parts yield a large quantity of volatile salt; the oily, only a small one. The salts produced, by this treatment, from different animal matters, are, when perfectly purified, in all their sensible qualities the same; and agree in many respects with the fixt salts of vegetables; their principal difference from which is their volatility.

SECT. III.

MINERALS.

THE products of the mineral kingdom may be divided into earths, metals, oils and bitumen, falts and fulphur.

There are five kinds of mineral EARTHS, distinct from one another; alcaline, argillaceous, crystalline, gypseous, and talky.

The ALCALINE, ABSORBENT, or CALCAREOUS earths are eafily diffinguishable by their solubility in acid liquors: they distolve even in the weakest acids, and, in a proper quantity, destroy the acidity of the strongest; the other earths are not acted on by any kind of humid menstruum. Fire makes a remarkable alteration in the quality of these earths; not only reducing them, however hard and compact in their natural state, into a calx, or friable substance; but at the same time rendering them extremely acrimonious and caustic. Water, poured on this calx, greatly abates its acrimony, dissolves a part of it, and becomes impregnated with astringent and lithontriptic virtues, erroneously ascribed to some of these earths in their natural state.

The most obvious character of the ARGILLACEOUS earths is, that when moistened with water, they prove viscid and ductile. They are affected by fire in a very different manner from every other kind of earth; acquiring from a moderate one a degree of

hardness, which becomes greater and greater, in proportion to the vehemence and continuance of the heat.

The CRYSTALLINE earths are the hardest of all: they readily strike fire with steel, and by this mark specks or veins of them may be discovered in masses of any of the others. In a strong fire, they become friable; but do not, like the alcaline earths, acquire any degree of acrimony.

The GYPSEOUS earths are reduced by a moderate fire into a foft powder, which readily mingles with water into an uniform mass, somewhat ductile while most, but quickly drying, and becoming brittle. A stronger fire deprives the powder of this property, without occasioning any other alteration.

The TALKY earths are generally of a fibrous or leafy texture; more or less pellucid, bright or glittering; smooth and unchuous to the touch: too flexible and elastic to be pulverised; so fost as to be easily cut with a knife. The most intense degree of fire makes no farther alteration in them, than somewhat diminishing their flexibility, brightness, and unctuosity.

The particular bodies belonging to each of these classes differ among themselves in external appearance, degree of hardness, &c. but not, as has been generally supposed, in their intrinsic qualities. However different the laminated or crystalliform felenita, the fibrous earths improperly called English tale, and the granulated gypla, or common plaster of Paris stones, appear to the eye; proper experiments evince their fimilarity. The fine foft chalk, the coarser lime-stones, the hard marbles, the transparent spars, the petrified Jea Shells of various figures, the earthy matter contained in waters, which separating from them incrustrates the sides of caverns, or hangs in icicles from the top, receiving from its different appearances different appellations; however strongly some of them have been recommended for particular medicinal purposes; are only different forms of the alcaline earth, fimple pulverdation depriving them of the superficial characters by which they were distinguished in the mass. All the alcaline earths absorb acidities in the first pasfages; the argillaceous foften acrimonious humors; whilft the others discover none of the virtues which many have ascribed to them, and prove injurious to the body rather than beneficial.

METALLIC substances melt in the fire, without suffering any alteration in their qualities if the air is perfectly excluded. It the air is admitted, they are all, except gold and filver, gradually converted into a powdery or friable calx; which urged with a stronger heat, proves either volatile, unsufible, or runs into a vitreous mass. This change of their obvious properties is generally accompanied with a notable alteration in their medicinal virtues: thus quick-

filver, which taken into the body in its crude state, and undivided, seems inactive; when calcined by sie proves a strong emetic and cathartic, though taken even in small doses, and in smaller ones a powerful alterative in chronical disorders; whilst the regulus of antimony, on the other hand, is changed, by the same treatment, from a high degree of virulence to a state of inactivity.

The calces and glaffes of metals recover their metallic form and qualities again, from the addition of any inflammable substance

that does not contain mineral acid.

All metallic bodies dissolve in acids; some only in particular acids, or compositions of them, others in all. Some likewise dissolve in alcaline liquors, as copper; and others, as lead, in expressed oils. Fused with a composition of sulphur and fixt alcaline salt, they all (except zinc, a substance little made use of) become soluble in water: Hence the preparation of the sulphur so called, of antimony, and the kermes mineral, to be described in their place.

All metallic substances, dissolved in faline liquors, have powerful effects on the human body; though many of them are in their natural state inactive: their activity is generally in proportion to the quantity of saline matter combined with them. Thus lead, which in its crude form has no sensible effect; when united with a small portion of vegetable acid into cerusse, discover a low degree of the styptic and malignant quality, which it so strongly exerts when bended with a larger quantity of the same acid, into what is called saccharum saturni.

The mineral oils, as petroleum, are not miscible of themselves either with aqueous or spirituous liquors; nor are they so easily united therewith, by the mediation of other bodies, as the vegetable and animal oils. The coagulated mineral oils, or BITUMENS, prove either totally dissoluble in pure spirit, or give out to it their more subtile parts. The sluid oils are coagulated into the consistence and appearance of bitumen by the admixture of acid liquors.

There are three kinds of ACIDS peculiar to the mineral kingdom: the viriolic, nitrous, and marine. All these are highly corrosive; infomuch as not to be safely touched, unless largely diluted, or mixed with such substances as abate their corrosiveness. Mixed hastly with vinous spirits, they raise a violent ebullition, attended with a copious discharge of noxious sumes: by this addition, the acid is dulcissed or obtunded. They effervesce strongly with alcaline salts, and form with them NEUTRAL ones, that is, such as discover no marks either of an acid, or alcaline quality.

The VITRIOLIC is the strongest of all the acids, the most ponderous of all known liquors. The skillful addition of a mi-

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nute portion of inflammable matter, destroys its acidity, and changes it into a solid, insipid concrete, the common sulphur of the shops. Combined with the mineral alcaline earths, it forms an insipid and scarce dissoluble crystalline mass; with fixt alcaline salts, a neutral salt likewise very difficultly soluble. With alcaline salts and earths duly prepared, it composes salts of easy solution; the cathartic salt of Glauber, the bitter purging salt of mineral waters, the austere astringent salt alum.

The NITROUS acid is next in strength to the vitriolic. Inflammable matters mixed with this acid, on being heated red, deflagrate. With fixt alcaline salts, it composes nitre; with volatile alcalies, a volatile nitre, soluble in spirit of wine; with alcaline earths, a bitterish or acrid concrete, which deliquiates in the air.

The MARINE is the weakest of the mineral acids, but stronger than any of the vegetable. It unites with vinous spirits more difficultly than any other acid. With fixt alcaline salts, it forms a neutral one, similar to sea salt; with alcaline earths, an highly pungent saline liquor, which either does not crystallize, or whose crystals deliquiate in the air.

It is remarkable of this acid, that though so much weaker than the two foregoing as to be easily expelled by either from alcaline salts and earths, it nevertheless dislodges them from metallic subflances; with which it has a much greater AFFINITY than any other acid. Hence corrosive sublimate, though supposed to participate of all the three acids employed in its preparation, is found upon experiment to contain only the marine; which not only precludes the action of the other two upon the mercury, but likewise expells them after they have been combined with it.

The doctrine of the affinity of bodies is of very extensive use in the chemical pharmacy: many of the officinal processes are founded on it; and several of the preparations turn out very different from what one unacquainted with this property of bodies would expect from the ingredients. We shall here therefore subjoin a table of the principal affinities observed in the pharmaceutical operations formed chiefly upon that of Geosfroy.

A TABLE

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A TABLE of the relations or affinities observed between different Substances.

123							
r	INFLAM-		Oils				
1	MARLE	Water	and	And St.			
1	SPIRITS		refins				
1	WATER {	Inflammable fpirits fixt alca- line falts	Neutral falts, and metall inflamma- ble fpirits		of mine	ral acids	and fixt alcalies;
-	Acids in general	fixt alcaline falts	volatile alcaline falt and alcaline earths	metallic ubstances	won a		The paracular
-	The VITRIOLIC acid	the inflam- mable prin- ciple of bodies	alcalies	zinc	iron	of alum	copper mercury
-	The NITROUS acid	zinc	iron	copper	tin, lead,	mercury	filver camphor
1	The MARINE acid	iron	regulus of antimony	copper	filver	mercury	102 at 251 10 11 11 11 11 11 11 11 11 11 11 11 11 1
1	FIXED ALCALINE SALTS	the vitriolic acid	the nitrous acid	the marine acid	vegetable acids	oils, fulphur	MAR OFF
-	VOLATILE ALCALINE SALTS	the vitriolic acid	the nitrous acid	the marine acid		orthan a	0 10 mode
-	ALCALINE	the vitriolic acid	the nitrous acid	marine acid			
-	METALIC SUBSTANCES	the marine acid	the vitriolic acid	the nitrous acid	vegetabl acids	oils	a data and
The state of the s	Sulphur	fixt falts, quicklime	iron	copper	lead	filver	of mercury
	REGULUS of ANTIMONY	iron	copper	1			no te dido

If the first substance in any of the foregoing series's be combined with another in the same series, the addition of any of the intermediate bodies will disunite them. Thus, if any acid is combined with a metallic substance, it will let go the metal to take up an alcaline earth, or volatile salt; and these again it will forsake, to unite with fixed alcalies. The uses of this table, in many of the capital operations of the present pharmacy, will sufficiently appear hereafter.

CHAP-

CHAPTER II.

Of the pharmaceutical instruments.

FURNACES, or instruments, for containing and applying fire, and regulating its power, are of different forts, according to the particular purposes which they are intended to answer. The parts common to them all are, a cavity for receiving the ashes; and another above this, for the suel, furnished with a grate.

The most simple furnace is that for DECOCTION and INFUSION, otherwise called the furnace for OPEN FIRE. This is usually made of an iron hoop five or fix inches deep, with a grate at the bottom like the common stoves, and either supported on feet, so as to be easily moveable, or fixed in brickwork.

The sand furnace is deeper than the foregoing, and has an iron pot let into it at top: this is filled with fand, in which the veffel containing the subject is placed. A door is made in the forepart, above the grate, for admitting the suel; and an aperture in the back part, near the top, by which the smoke is discharged into a flew or chimney.

The ordinary MELTING FURNACE is likewise a hollow cylinder, with a slew in the back part, like the preceding: but without a door: the suel and vessels are put in at the top, which is occasionally covered with a tile or iron plate. There is also another fort of melting surnace, with a door in the front, and a slew, or chimney on the top.

The furnace for a copper STILL differs confiderably from the foregoing. In this, the smoke, with the slame, goes off at the farther end of a long narrow grate, in a spiral slew round the sides of the still; at the uppermost part of which, it is discharged into a common chimney. The narrowness of the bottom of the still renders this conveyance of heat round its sides necessary.

The ATHANOR furnace, besides a door for inspecting the fire, ac. has another, in the opposite side, opening into a large slew, the heat

heat conveyed through which is applied to warm a fand bath, &c. The body of the furnace is made of confiderable height, for receiving a large quantity of fuel at once: the top being closely covered, the fuel burns only in proportion as it falls down to the level of the flew. By this means, a nearly equal heat may be kept up for a length of time without attendance.

All the foregoing furnaces have a fufficient supply of air, so necessary to the support of fire, through the door of the ash-pit, without artificial impulse. They are built upon this principle; that the air which has served to animate the suel, being greatly heated and rarised by it, ascends through the chimney, with a velocity proportionable to its perpendicular height, and is replaced by a constant succession of fresh air from without. As the vehemence with which the suel burns, and the degree of heat which it produces, are in proportion to the quantity and velocity of this current of air, it is evident, that the heat may be increased or diminished at pleasure, by increasing or diminishing the height of the chimney, or its width by means of REGISTERS made in it for that purpose, or the apertures by which the air is admitted beneath the grate. Those furnaces, in which the stream of air, and consequently the degree of heat, is very considerable, are called WIND surnaces.

Where a strong degree of heat is requisite, as in the fusion of metals, &c. the vessel containing the subject is placed in immediate contact with the burning suel: this is called operating in a NAKED FIRE. Where a lesser heat is sufficient, and the vessel employed is either glass, or the more tender kinds of earthen ware, certain media are interposed, to prevent the fire from acting with too great violence, and to render the heat less sluctuating: these are called BALNEA OF BATHS.

Baths of dry substances, as sand, are in general far less convenient than those of water, or other liquids: for the heat is equal in every part of the latter; whilst in the former it is very unequal, being considerably greatest at the bottom, and diminishing from thence to the top. Nevertheless, as water is impatient of any great degree of heat, the use of the sand surface becomes in many cases necessary: the sand made choice of, should be a large coarse-grained sand, separated from the siner parts by washing, and from little stones by the sieve.

Some processes require to be performed with glass vessels in a naked fire. For these purposes, vessels made of the thinnest glass should be chosen; these bearing the fire, without cracking, much better than such as are thicker and in appearance stronger. All glasses, or other vessels that are apt to crack, must be cautiously NEALED,

NEALED, that is, flowly heated; and when the process is finished, as flowly cooled *.

As a defence from the violence of fire, and to prevent the fudden contact of cold air on supplying fresh fuel, &c. the glass is to be COATED over to the thickness of about half a crown, with Windfor loam foftened with water into a proper confiftence, and beat up with a little cut tow, hair, horse-dung, or the like. Where Windfor loam is not procurable, white clay, mixed with as much well washed fand as will prevent its sticking to the fingers, will

fupply its place.

The same LUTE serves for lining the inside of iron or copper furnaces; which, without a defence of this kind, would foon he preyed upon, and scorified by the heat; as also, for securing the junctures of the veffels in the distillation of the volatile salts and spirits of animals: in the diffillation of acid spirits, the matter may be moistened with a solution of fixt alcaline salt, instead of water. For most other purposes, a piece of wet bladder, or a paste of slower and water, or of linfeed meal (that is, the cake, left after the expression of oil of linfeed, ground into powder) are sufficient lutes. The few fimple lutes, here described, will be found to answer all the purposes of the various compositions recommended by authors.

It would be needless to enter, here, into a particular detail of the pharmaceutical apparatus; as we shall have occasion to mention the principal inffruments, in speaking of the several operations to which they are fubservient. In this place, we shall only give the operator a few general cautions, with regard to the matter of

the veffels defigned for containing the fubject.

The common EARTHEN veffels are of a porous texture; and hence are apt to imbibe a confiderable quantity of certain liquors, particularly those of the saline kind; some of which soon discover their penetrating the vessel, by faline efflorescences on the outside. Such as are GLAZED, are liable to have their glazing corroded, efpecially by the stronger acids. Those made of pure clay, without any admixture of fand, &c. and called from their hardness and compacinels stone ware, are, in good measure, free from both these inconveniencies.

IRON and COPPER veffels are corroded by all acids; the latter, by volatile alcalies also: hence burnt sponge, whose virtues depend

upon

^{*} Unless where the vessel is to be broken to get out the preparation, as in some sublimations: in this case, it is more convenient to expose the hot glass suddenly to the cold air, which will soon occasion it to crack; than to endanger throwing down the fublimed part among the feces by a

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upon a fmall portion of volatile alcaline falt, contracts a naufeous tafte, and fometimes an emetic quality, by being barely pulverized in a copper or brafs mortar.

GLASS veffels give no taint, and are not corroded or acted upon by any known substance; these therefore, in such operations, as will admit their use, are always to be preferred.

CHAPTER III.

Of the pharmaceutical operations.

SECT. I.

SOLUTION.

SOLUTION is an intimate commixture of folid bodies with fluids into one feemingly homogene liquor. The diffolving fluid is called a MENSTRUUM or SOLVENT.

The principal menstrua made use of in pharmacy, are, water, vinous spirits, oils, acid, and alcaline liquors.

WATER is the menstruum of all salts, of vegetable gums, and of animal gellies. Of the first, it dissolves only a determinate quantity, though of one kind of salt more than of another*; and being thus saturated, leaves any additional quantity of the same salt + untouched. It is never saturated with the two latter, but unites readily with any proportions of them, forming with different quan-

* Two ounces of water, affisted by agitation, in moderately warm weather, dissolve, of loaf sugar, three ounces; falt of tartar, above two ounces; of green vitriol, one ounce and one dram; of common falt, six drams and a scruple; of nitre, sive drams, two scruples, and a half; of sal ammoniac, sive drams and two scruples; of alum, two drams and a scruple; of borax, one dram and half a scruple. Grew's experiments on the solution of salts in water, chap. i.

† Water fully impregnated with one falt, so as to be able to bear no more of that kind, will still take up a considerable portion of another. Thus two ounces of water, fully saturated with nitre, will still dissolve five drams of sal ammoniac, without depositing any of the nitre. The same quantity of water saturated with common salt, will take up sive drams of nitre; and when it can bear no more of either of these, will still dissolve a dram of sal ammoniac. See Grew's experiments on the solution of salts.

tities,

tities, liquors of different confiftencies. It takes up likewise, when affished by trituration, the vegetable gummy-refins, as ammoniacum and myrrh; the solutions of which, though IMPERFECT, that is, not transparent, but turbid, and of a milky hue, are nevertheless applicable to valuable purposes in medicine.

Rectified SPIRIT OF WINE is the menstruum of the essential oils and resins of vegetables; of the pure distilled oils of animals; and of soaps, though it does not act upon the expressed oil and fixt alcaline salt, of which soap is composed. Hence, if soap contains any superfluous quantity of either the oil or salt, it may, by means of this menstruum, be excellently purified therefrom. It dissolves, by the assistance of heat, volatile alcaline salts; and, more readily, the neutral ones, composed either of fixed alcali and the acetous acid, as the sal diureticus, or of volatile alcali and the nitrous acid.

Otts dissolve vegetable refins and balfams, wax, animal fats, mineral bitumens, sulphur, and certain metallic substances, particularly lead. The expressed oils are, for most of these bodies, more powerful menstrua, than those obtained by distillation; as the former are more capable of sustaining without injury, a strong heat, which is, in most cases, necessary to enable them to act.

All ACIDS dissolve alcaline falts, alcaline earths, and metallic substances. The different acids differ greatly in their action upon these last; one dissolving only some particular metals; and another, others.

The wegetable acids dissolve a considerable quantity of zinc, iron copper, and tin; and extract so much from the metallic part of antimony, as to become powerfully emetic: they likewise dissolve lead, if previously calcined by fire; but more copiously, if corroded by their steam.

The marine acid diffolves zinc, iron, and copper; and, though it fcarce acts on any other metallic substance in the common way of making solutions, may nevertheless be artfully combined with them all except gold: the corrosive sublimate and antimonial cauffic of the shops, are combinations of it with mercury and the metallic part of antimony, effected by applying the acid in the form of sume, to the subjects at the same time also strongly heated.

The nitrous acid is the common menstruum of all metallic subflances, except gold and the antimonial semimetal; which are soluble only in a mixture of the nitrous and marine.

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The vitriolic acid eafily diffolves zinc, iron, and copper; and may be made to corrode, or imperfectly diffolve, most of the other metals.

ALCALINE lixivia diffolve oils, refinous substances, and sulphur. Their power is greatly promoted by the addition of quicklime; instances of which occur in the preparation of soap, and in the common caustic. Thus acuated, they reduce the slesh; bones, and other solid parts of animals, into a gelatinous matter.

Solutions made in water, and in spirit of wine, possess the virtues of the body dissolved; whilst oils generally sheathe its activity; and acids and alcalies vary its quality. Hence watery and spirituous liquors are the proper menstrua of the native virtues of vegetable and animal matters.

Most of the foregoing solutions are easily effected, by pouring the menstruum on the body to be dissolved, and suffering them to stand together, for some time, exposed to a suitable warmth. A strong heat is generally requisite to enable oils and alcaline liquors to perform their office: nor will acids act on some metallic bodies without its assistance. The action of watery and spirituous menstrua is likewise expedited by a moderate heat; though the quantity, which they afterwards keep dissolved, is not, as some suppose, by this means increased: all that heat occasions these to take up, more than they would do in a longer time in the cold, will, when the heat ceases, subside again.

The action of acids on the bodies which they diffolve, is generally accompanied with heat, effervescence, and a copious discharge of sumes. The sumes which arise during the dissolution of some metals in the vitriolic acid, prove inflammable: hence in the preparation of the artificial vitriols of iron and zinc, the operator ought to be careful, especially where the solution is made in a narrow-mouthed vessel, less by the imprudent approach of a candle, the exhaling vapour be set on sire.

There is another species of solution, in which the moissure of the air is the menstruum. Fixt alcaline salts, and those of the neutral kind, composed of alcaline salts and the vegetable acids, of of alcaline earths and any acid except the vitriolic, and some metallic salts; on being exposed, for some time, to a must air; gradually attract its humidity, and, at length, become liquid. Some substances, not dissoluble by the application of water in its grosser form, as the butter of antimony, are easily liquested by this slow action of the aereal moissure. This process is termed DELIQUATION.

SECT.

SECT. II.

EXTRACTION.

HE liquors which dissolve certain substances in their pure state, ferve likewife to extract them from admixtures of other matter. Thus rectified spirit of wine, the menstruum of essential oils and refins takes up the virtues of the refinous and oily vegetables; as water does those of the mucilaginous and faline; the inactive earthy parts remaining untouched by both. Water extracts likewife from many plants, fubstances which by themselves it has little effect upon; even effential oils being, as we have formerly observed, rendered foluble in that fluid, by the admixture of gummy and faline matter, of which all vegetables participate in a greater or lefs degree. Thus many of the aromatic plants, and all the bitters and astringents, yield their virtues to this menstruum.

Extraction is performed, by MACERATING the subject in its appropriated menstruum, in the cold; or DIGESTING or CIRCULA-TING them, in a moderate warmth; or INFUSING the plant in the boiling liquor, and fuffering them to stand till grown cold; or

actually BOILING them together for fome time.

The term digestion is fometimes used for maceration, and in this case the process is directed to be performed without heat; where this circumstance is not expressed, it always implies the use of heat. Circulation differs from digestion only in this; that the steam, into which a part of the liquor is resolved by the heat, is by means of a proper disposition of the vessels, condensed and conveyed back again upon the subject. Digestion is usually performed in a mairus (or bolthead) Florence flask, or the like; either of which may be converted into a circulatory veffel, by inverting another into the mouth, and fecuring the juncture with a piece of wet bladder. A fingle matras, if its neck is very long and narrow, will answer the purpose as effectually; the vapour cooling and condensing before it can arise to the top: In a vessel of this kind, even spirit of wine, the most volatile liquor we know of, may be boiled without any confiderable loss: the use of this instrument is likewise free from an inconvenience, which may, in fome cases, attend the other, of the uppermost vessel being burst or thrown off. As the long necked matralles,, here recommended, are difficultly filled or emptied, and likewise very dear; a long glass pipe may be occasionally luted to shorter ones, monthere. This possess a transferred expression

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Heat greatly expedites extraction; but by this means proves as injurious to fome substances, by occasioning the menstruum to take up their grosser and more ungrateful parts; as it is necessary for enabling it to extract the virtues of others. Thus Peruvian bark, for instance, imparts little to aqueous liquors, without a boiling heat; whilst even a small degree of warmth proves greatly prejudicial to the fine bitter of carduus benedictus: this plant, which infused in boiling, or digested in sensibly hot water, gives out a naufeous taste, so offensive to the stomach as to promote vomiting; yields to the cold element a grateful balfamic bitter, the most ele-

As heat promotes the diffolving power of liquids; fo cold, on the other hand, diminishes it. Hence tinctures or extractions made by a considerable heat, deposite in cold weather a part of their contents, and thus become proportionably weaker; a circumstance which deserves particular regard.

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SECT. III.

DEPURATION.

THERE are different methods of depurating or purifying liquors from their feculencies, according as the liquor itself is more or less tenacious, or the feculent matter of greater or less gravity.

Thin fluids readily deposite their more ponderous impurities, upon standing at rest for some time, in a cool place; and may then he DECANTED, or poured off clear, by inclining the vessel.

Glutinous, unctuous, or thick substances, are to be liquested by a suitable heat; when the grosser seculencies will fall to the bottom; the lighter arising to the surface, to be DESPUMATED or scummed off

Where the impurities are neither fo ponderous as to fubfide freely to the bottom, nor so light as to arise readily to the surface; they may be separated in great measure by COLATURE through strainers of linen, woollen, or other cloth; and more persectly by FILTRA-TION through a soft bibulous kind of paper made for this use.

The grey paper which covers pill boxes as they come from abroad, is one of the best for this purpose: it does not easily break when wetted, or tinge the liquor which passes through it, which the reddish fort, called blossom paper, frequently does. The paper is supported by a funnel, or piece of canvas fixed in a frame. When the sunnel is used, it is convenient to put some straws or small

flicks between the paper and its fides, to prevent the weight of the liquor from pressing the paper so close to it, as not to allow room for the fluid to transude. In some cases a funnel made of wire is put betwixt the paper and the glass funnel.

Glutinous and unctuous liquors, which do not eafily pass through the pores of a filtre or a strainer, are CLARIFIED by beating them up with the whites of eggs, which entangling the impure matter, arises with it to the surface: the mixture is to be gently boiled, till the fcum begins to break, when the veffel is to be removed from the fire, the crust taken off, and the liquor passed through a stannel bag.

Decantation, colature, and filtration, are applicable to most of the medicated liquors that fland in need of purification. Defpumaition and clarification very rarely have place; fince thefe, along with the impurities of the liquor, frequently separate its medicinal parts. Thus, if the decoction of poppy heads, for making diacodium, be folicitously scummed or clarified (as some have been accustomed to do) the medicine will lose almost all that the poppies communicated, and instead of a mild opiate, turn out little other than a plain fyrup of fugar.

It may be proper to observe, that the common forts of filtering paper are apt to communicate a difagreeable flavour: and hence in filtering fine bitters, or other liquors, whose gratefulness is of primary consequence, the part which passes through first ought to be kept apart for inferior purpofes.

SECT. IV.

CRYSTALLIZATION.

WATER, affished by heat, disfolves a larger proportion of faline substances, than it can retain when grown cold: hence, on the abatement of the heat, a part of the falt separates from the menstruum, and concretes at the sides and bottom of the vessel. These concretions, unless too hastily formed by the sudden cooling of the liquor or disturbed in their coalescence by agitation, or other like causes, prove transparent and of regular figures, resembling in appearance the natural fprig-CRYSTALS.

Salts, diffolved in a large quantity of water, may in like manner be recovered from it in their crystalline form, by boiling down the folution, till fo much of the fluid has exhaled as that the remainder will be too little to keep the falt dissolved when grown

perfectly cold. It is customary to continue the evaporation, till the salt shews a disposition to concrete even from the hot water, by forming a pellicle on that part which is least hot, viz. on the surface. If large, beautiful and perfectly figured crystals are required, this point is somewhat too late: for if the salt thus begins to coalesce whilst considerably hot, on being removed into a cold place, its particles will run too hastily and irregularly together; the pellicle at the same time salling down through the liquor, and thus proving a farther disturbance to the regularity of the crystallization.

In order to perform this process in perfection, the evaporation must be gentle, and continued no longer than some drops of the liquor, let fall on a cold glass plate, discover crystalline filaments. When this mark of sufficient exhalation appears, the vessel is to be immediately removed from the fire into a less warm, but not cold place, and covered with a cloth, to prevent the access of cold air,

and consequently the formation of a pellicle.

All the alcaline falts are excluded from this operation; fixt alcalies never affuming a crystalline form; and the volatile ones escaping before the menstruum exhales. Some even of the neutral kind, particularly those of which certain metallic bodies are the basis, are so strongly retained by the aqueous sluid, as not to exhibit any appearance of crystallization, unless some other substance be added with which the water has a greater affinity. The table of affinity shews, that such a substance is spirit of wine; by the prudent addition of which, these kinds of salts separate freely from the menstruum, and form large and beautiful crystals, scarce obtainable by any other means.

The operator must be careful not to add too much of the spirit; lest, instead of a gradual and regular crysfallization, the basis of the salt be hastily precipitated in a powdery form. One twentieth part of the weight of the liquor will in most cases be a sufficient

cient, and in some too large a quantity.

Different falts require different quantities of water to keep them diffolved: and hence, if a mixture of two or more be diffolved in this fluid, they will begin to feparate and crystallize at different periods of the evaporation. Upon this foundation, falts are freed, not only from such impurities, as water is not capable of dissolving and carrying through the pores of a filter, but likewise from admixtures of one another.

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SECT.

SECT. V.

PRECIPITATION.

BY this operation, bodies are recovered from their folutions, not in a crystalline, but in a powdery form. The separation is effected by the addition of some other substance, with which either the menstruum, or the body dissolved, have a greater affinity than they have with one another.

Precipitation, therefore, is of two kinds; one, where the fubflance superadded unites with the menstruum, and occasions that before dissolved to be thrown down; the other, in which it unites with the dissolved body, and falls along with it to the bottom. Of the first we have an example in the precipitation of sulphur from alcaline lixivia by the means of acids; of the second, in the precipitation of mercury from aqua fortis by sea falt, or its acid.

The subjects of this operation, as well those which are capable of being precipitated as those which precipitate them, will readily appear from inspection of the table of affinity. The manner of performing it is so simple, as not to stand in need of any particular directions; no more being required, than to add the precipitate by degrees, as long as it continues to occasion any precipitation. When the whole of the powder has fallen, it is to be well EDUL-CORATED, that is, washed in several fresh parcels of water, and afterwards dried for use.

Where metals are employed as precipitants, as in the purification of martial vitriol from copper by the addition of fresh iron, they ought to be perfectly clean, and free from any rusty or greafy matter; otherwise they will not readily, if at all, dissolve, and consequently the precipitation will not succeed; for the substance to be precipitated separates only by the additional one dissolving and taking its place. The separated powder, oftentimes, instead of falling to the bottom, lodges upon the precipitant; from which it must be occasionally shaken off, for reasons sufficiently obvious.

SECT.

SECT. VI. EVAPORATION.

THIS is a third method of recovering folid bodies from their folutions, effected by the means of heat; which evaporating the fluid part, that is, forcing it off in fleam, the matter which was diffolved therein is left behind in its folid form.

This process is applicable to the solutions of all those substances which are less volatile than the menstruum, or which will not exhale by the heat requisite for the evaporation of the sluid; as the solutions of fixt alcaline salts; of the gummy, gelatinous, and other inodorous parts of vegetables and animals in water; and of many resinous and odorous substances in spirit of wine.

Water extracts the virtues of fundry fragrant aromatic herbs, almost as perfectly as rectified spirit of wine; but the aqueous infufions are far from being equally suited to this process, with those
made in spirit; water carrying off the whole odour and flavour of
the subject, which that ighter liquor leaves entire behind it. Thus
a watery insusion of mint, for instance, loses in evaporation the
smell, taste, and virtues of the herb; whilst a tincture drawn with
pure spirit, yields, on the same treatment, a thick balsamic liquid,
or solid gummy-resin, extremely rich in the peculiar qualities of
the mint.

In evaporating these kinds of liquors, particular care must be had, towards the end of the process, that the heat be very gentle; otherwise the matter, as it grows thick, will burn to the vessel, and contract a disagreeable smell and taste: this burnt flavour is called an empyreuma. The liquor ought to be kept stirring during the evaporation; otherwise a part of the matter concretes on the surface exposed to the air, and forms a pellicle which impedes the farther evaporation*.

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^{*} Farther directions for performing this operation to the greatest advantage, will be given hereafter in the second part.

folved, may, in some cally pres a Rong of the subject

The apparatus NOITALLITESIO Waters and oils,

N the foregoing operation, fluids are rarified by heat into steam or vapour which is suffered to exhale in the air, but which the business of this is to collect and preserve. For this purpose, the steam is received in proper vessels, luted to that in which the subject is contained, and being there cooled, condenses into a stuid form again.

There are two kinds of distillation: by the one, the more subtile and volatile parts of liquors are elevated from the grosser; by the other, liquids, incorporated with solid bodies are forced out from them by vehemence of fire.

To the first belong, the distillation of the pure inflammable spirit from vinous liquors; and of such of the active parts of vegetables as are capable of being extracted by boiling water or spirit, and at the same time of arising along with their steam.

As boiling water extracts or diffolves the effential oils of vegetables, whilft blended with the other principles of the fubject, without faturation; but imbibes only a determinate, and that a fmall proportion of them in their pure ftate; as these oils are the only fubstances, naturally contained in vegetables, that prove totally volatile in that degree of heat; and as it is in them, that the virtues of aromatics, and the peculiar odour and flavour of all plants refide; it is evident, that water may be impregnated, by distillation, with the more valuable parts of many vegetables: that this impregnation is limited, the oil arising in this process pure from those parts of the plant which before rendered it foluble in water without limitation; hence greatest part of the oil separates from the distilled aqueous liquor, and according to its greater or less gravity, either finks to the bottom, or fwims on the furface: that confequently infusions and distilled waters are greatly different from one another; that the first may be rendered of any affignable degree of strength by pouring the liquor on fresh parcels of the subject; but that the latter cannot be in like manner improved by cohobating, or rediffilling them from fresh ingredients.

As the oils of many vegetables do not freely distil with a less heat, than that in which water boils; as rectified spirit of wine is not susceptible of this degree of heat; and as this menstruum totally dissolves these oils in their pure state: it follows, that spirit elevates far less from vegetables than water; but that nevertheless

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the distilled spirit, by keeping all that it does elevate, perfectly disfolved, may, in some cases, prove almost as strong of the subject as the distilled water.

The apparatus made use of for distilling spirits, waters and oils, consists of a still, or copper vessel, for containing the subject, on which is luted a large head with a swan neck. The vapour, arising into the head, is thence conveyed through a worm, or long spiral pipe, placed in a vessel of cold water, called a refrigeratory; and being there condensed, runs down into a receiver. In the second part of this work, we shall give some improvements in this apparatus for particular purposes; with directions for performing the several processes to the greatest advantage.

The subjects of the second kind of distillation are, the gross oils of vegetables and animals, the mineral acid spirits, and the metallic sluid quicksilver, which as they require a much strong degree of heat to elevate them than the foregoing liquors can sustain; so they likewise condense without arising so far from the action of the fire. The distillation of these is performed in low glass vessels, called from their neck being bent to one side, retorts: to the farther end of the neck a receiver is luted, which standing without the surnace, the vapours soon condense in it, without the use of a re-frigeratory: nevertheless to promote this effect, some are accustomed, especially in warm weather, to cool the receiver by occasionally applying wet cloths to it, or keeping it partly immersed in a vessel of cold water.

The vapours of some substances are so sluggish, or strongly retained by a fixt matter, as scarce to arise even over the low neck of the retort. These are most commodiously distilled in streight-necked earthen vessels called long-necks, laid on their sides, so that the vapour passes off laterally with little or no ascent: a receiver is luted to the end of the neck without the surnace: in this manner, the acid spirit of vitriol is distilled. The matter which remains in the retort or long neck, after the distillation, is vulgarly called caput mortuum.

In these distillations, a quantity of elastic air is frequently generated; which, unless an exit is allowed it, blows off, or bursts the receiver. The danger of this may in good measure be prevented by slowly raising the fire; but more effectually by leaving a small hole in the luting, to be occasionally opened or stopt with a wooden plug; or inserting at the juncture an upright pipe of such a height, that none of the vapours of the distilling liquor may escape.

SECT.

SECT. VIII.

SUBLIMATION.

S all fluids are volatile by heat, and confequently capable of A Sall fluids are volatile by heat, from fixed matters, by the foregoing process; so various solid bodies are subjected to a similar treatment. Fluids are faid to diffil, and folids to fublime; tho' formetimes both are obtained in one and the fame operation. If the fubliming matter concretes into a mass, it is commonly called a

fublimate : if into a powdery form, flowers.

The fumes of folid bodies generally arife but a little way, and adhere to that part of the vessel where they concrete. Hence a receiver or condenfer is less necessary here than in the preceding operation; a fingle veffel, as a matras, or tall vial, or the like, being frequently fufficient. The most commodious apparatus for the fublimation of particular fubiliances, and the most advantageous method of conducting the leveral processes, will be delivered in the fecond part, the way is no flowed as a state of the state

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HE press is chiefly made use of for forcing out the juices of fucculent herbs and fruits; and the infipid oils of the unctuous feeds and kernels.

The harder fruits, as quinces, require to be previously well beat or ground; but herbs are to be only moderately bruifed. The fubject is then included in a hair bag, and pressed betwixt wooden plates, in the common screw-press, as long as any juice runs from

The juicy fruits in general, and most of the acrid plants, give out their virtues in tolerable perfection to this process: but aromatic herbs yield little, and fometimes nothing, of their peculiar fmell or tafte; and the more tender flowers have their fragrance totally destroyed by the violence of this operation.

The juices, thus forcibly pressed out from plants, differ from those which flow spontaneously, or from incisions. Thus the poppy heads, on being flightly wounded, yield a thick milky liquor, which dries, by a moderate warmth, into opium; whilst the juice

obtained by pressure is of a dark green colour, and far weaker virtues.

The expression of oils is performed nearly in the same manner as that of juices; only here, iron plates are substituted to the wooden ones there made use of. The subject is well pounded, and included in a strong canvas bag, betwixt which and the plates of the press a

hair cloth is interposed.

The infipid oils of all the unctuous feeds are obtained, uninjured, by this operation, if performed without the use of heat; which though it greatly promotes the extraction of the oil, at the same time impresses an ungrateful flavour, and increases its disposition to grow rancid. Hence, though the preparers of these oils, for mechanical purposes, are accustomed to facilitate the process, by warming the plates of the press; yet this expedient must never be had recourse to, where the product is intended for medicinal use.

The oils expressed from aromatic substances generally carry with them a portion of their essential oil: hence the smell and slavour of the expressed oils of nutmegs and mace. They are never found impregnated with any of the other qualities of the subject: oil of mustard seed, for instance, is as soft and void of acrimony, as that of almonds, the pungency of the mustard remaining entire in the cake

left after the expression.

SECT. X.

EXSICCATION.

THERE are two general methods of exficcating or drying moist bodies: in the one, their humid parts are exhaled by heat; in the other, they are imbibed or absorbed by substances, whose fost and spongy texture adapts them to that use. Bodies intimately combined with, or dislosted in a suid, as recent vegetables and their juices, require the first: such as are only superficially mixed, as when earthy or indissoluble powders are ground with water, are commodiously separated from it by the second.

Vegetables and their parts are usually exsiccated by the natural warmth of the air: the assistance of a gentle artificial heat may, nevertheless, in general, be not only safely, but advantage-ously had recourse to. By a moderate fire, even the more tender slowers may be dried, in a little time, without any considerable loss, either of their odour or lively colour; which would, both, be greatly injured or destroyed, by a more flow exsiccation

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in the air. Some plants indeed, particularly those of the acrid kind, as horse-radish, scurvy-grass, and arum, lose their virtues by this process, however carefully performed: but far the greater number

retain them unimpaired, and oftentimes improved.

The thicker vegetable juices may be exsiccated by the heat of the sun; or, where this is not sufficient, by that of a water-bath, or an oven moderately warm. The thinner juices may be gently boiled till they begin to thicken, and then treated as the foregoing; this process, termed inspissation of evaporation, has been spoken of already. The juices of some plants, as arum root, bryony root, orris root, wild cucumbers, &c. separate, upon standing for some time, into a thick part which falls to the bottom: and a thin aqueous one, which swims above it: this last is to be poured off, and the first exsiccated by a gentle warmth: preparations of this kind have been usually called facular; that of the wild cucumber, to be spoken of in its place, is the only one which practice now retains.

Indifioluble bodies, mixed with water into a thick confishence, may be easily freed from the greatest part of it, by dropping them on a chalk stone, or some powdered chalk pressed into a smooth mass, which readily imbibes their humidity. Where the quantity of sluid is large, as in the edulcoration of precipitates, it may be

separated by decantation or filtration.

TING or rubbing them, IX a. T.3 T & time, in a mortar. Such

comminution.

COMMINUTION is the bare reduction of folid coherent bodies into small particles or powder. The methods of effecting this are various, according to the texture of the subject.

Dry friable bodies, or fuch as are brittle and not very hard, and mixtures of these with somewhat moist ones, are easily PULVERI-

ZED in a mortar.

Very light, dry substances, refins, and the roots of a tenacious texture, as gentian, require the mortar to be previously rubbed with a little sweet oil, or a few drops of oil to be occasionally added: this prevents the finer powder of the first from slying off, and the others from cohering under the pestle. Camphor is most commodiously powdered by rubbing it with a little rectified spirit of wine.

Tough substance, as woods, the peels of oranges and lemons, &c. are most conveniently rasped; and very oily bodies, as nutmegs, grated.

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The comminution of the harder minerals, as calamine, crystal, slint, &c. is greatly facilitated by EXTINCTION; that is, by heating them red hot, and quenching them in water; by repeating this process a few times, most of the hard stones become easily pulverable. This process, however, is not to be applied to any of the alcaline or calcareous stones; lest, instead of an insipid powder, we produce an acrimonious calx or lime.

Metallic bodies, which resist the strokes of the pessele, may be reduced into powders of a great degree of fineness, by ATTRITION upon a whetstone: the stony matter is readily washed off by water,

from the more ponderous metallic powder.

Some metals, as tin, though strongly cohering in their natural state, prove extremely brittle when heated, insomuch as to be easily divided into small particles by dextrous agitation. Hence the officinal method of pulverizing tin, by melting it, and, at the instant of its beginning to return into a state of solidity, briskly shaking it in a wooden box. The comminution of metals, in this manner, is termed by the metallurgists GRANULATION.

On a fimilar principle, certain falts, as nitre, may be reduced into powder in large quantity, by diffolving them in boiling water, fetting the folution over a moderate fire, and keeping the falt conftantly flirring during its exficcation, fo as to prevent its particles disjoined by the fluid, from reuniting together into larger maffes.

Powders are reduced to a great degree of fineness by TRITURA-TING or rubbing them, for a length of time, in a mortar. Such as are not dissoluble in water, or injured by the admixture of that fluid, are moistened with it into the consistence of a paste, and LEVIGATED, or ground, on a flat, smooth marble or iron plate; or where a large quantity is to be prepared at a time, in mills made for that use.

Comminution, though one of the most simple operations of pharmacy, has, in many cases, very considerable effects. The resinous purgatives, when finely triturated, are more easily soluble in the animal sluids, and consequently prove more cathartic and less irritating, than in their grosser state. Crude antimony, which when reduced to a tolerably sine powder, discovers little medicinal virtue, if levigated to a great degree of subtilty, proves a powerful alterative in many chronical disorders.

By comminution, the heaviest bodies may be made to float in the lightest fluids *, for a longer or shorter time, according to

^{*} Some attribute this effect to a diminution of the specific gravity of the body; and, at the same time, suppose the peculiar virtues of certain their

their greater or less degree of tenuity. Hence we are furnished with an excellent criterion of the fineness of certain powders, and a method of separating the more subtile parts from the grosser, distinguished by the name of ELUTRIATION, or washing over. See Part II. Chap. I.

SECT. XII.

FUSION.

FUSION is the reduction of folid bodies into a flate of fluidity by fire. Almost all natural substances, the pure earths, and the solid parts of animals and vegetables excepted, melt in proper degrees of fire; some in a very gentle heat, whilst others require its utmost violence.

Turpentine, and other foft refinous substances, LIQUEFY in a gentle warmth; wax, pitch, sulphur, and the mineral bitumens, require a heat too great for the hand to support; fixt alcaline salts, common salt, nitre, require a red, or almost white heat to MELT them; and glass, a full white heat.

Among metallic substances, tin, bissouth, and lead, flow long before ignition: antimony likewise melts before it is visibly red hot, but not before the vessel is considerably so: the regulus of antimony demands a much stronger fire. Zinc begins to melt in a red heat; gold and filver require a low white heat; copper, a bright white heat; and iron, an extreme white heat.

One body, rendered fluid by heat, becomes formetimes a menfluum for another, not fufible of itself in the same degree of fire. Thus red hot silver melts, on being thrown into melted lead less hot than itself: and thus, if seel heated to whiteness, be taken out of the surnace, and applied to a roll of sulphur; the sulphur,

medicines, particularly mercury, to be in great measure owing to their gravity. If these hypotheses were just, it should follow, that the mercurial preparations, by being finely comminuted, would lose proportionably of their efficacy; and so indeed mercurius dulcis, for instance, has been supposed to do. But experience shews, that this is far from being the case; and that comminution by no means lessens, but rather increases its power: when reduced to a great degree of subtility, it passes readily into the habit, and operates, according to its quantity, as an alterative or a scalagogue; whilst in a grosser form, it is apt to irritate the slomach and bowels, and run off by the intessines, without being conveyed into the blood.

instantly

instantly liquefying, occasions the steel to melt with it; hence the chalybs cum sulphure of the shops. This concrete, nevertheless, remarkably impedes the sulphur, is scarce to be perfectly melted by the most intense degree of culinary fire: hence the method, described in its place, of purifying zinc, a semimetal which sulphur has no

effect upon, from the lead fo frequently mixed with it.

Sulphur is the only unmetallic fubstance which mingles in fusion with any metal. Earthy, faline, and other like matters, even the ealees and glasses prepared from metals themselves, float diffirst upon the surface, and form what is called SCORIA or drofs. Where the quantity of this is large in proportion to the metal, it is most commodiously separated by pouring the whole into a conical mould: the pure metal, or REGULUS, though small in quantity, occupies a considerable weight in the lower narrow part of the cone, and when congealed, may be easily freed from the scorize by a hammer. The mould should be previously greased, or rather smoked, to make the metal come freely out; and throughly dried and heated, to prevent the explosion which sometimes happens from the sudden contact of melted metals with moist bodies.

SECT. XIII.

CALCINATION.

BY calcination is understood, the reduction of solid bodies, by the means of fire, from a coherent to a powdery state, accompanied with a change of their quality: in which last respect, this process differs from comminution.

To this head belong, the burning of vegetable and animal matters, otherwife called USTION, INCINERATION, OF CONCREMATION; and the change of metals into a powder, which in the fire either does not melt, or VITRIFIES, that is, runs into

glass.

The metals which melt before ignition, are calcined by keeping them in fusion for some time. The free admission of air is essentially necessary to the success of this operation; and hence, when the surface of the metal appears covered with calx, this must be taken off, or raked to one side; otherwise, the remainder, excluded from the air, will not undergo the change intended. If any coal, or other instammable matter that does not contain a mineral acid, be suffered to fall into the vessel, the effect

expected from this operation will not be produced, and fuch part of the metal as is already calcined, will be REVIVED OF REDUCED, that is, it will return into its metallic form again.

Those metals which require a strong fire to melt in, calcine with a much less heat, than is sufficient to make them flow. Hence the burning or scorification of such iron or copper vessels, as are long exposed to a considerable fire without defence from the air. Gold and silver are not calcinable by any degree of sire.

In calcination, the metals visibly emit fumes; nevertheless, the weight of the calx proves greater than that of the metal employed. The antimonial regulus gains about one eleventh part of its weight; zinc, fometimes one tenth; tin, above one fixth; and lead, in its conversion into minium, oftentimes one fourth.

The calcination of metallic bodies (gold, filver, and mercury excepted) is greatly promoted by nitre. This falt, exposed to the fire in conjunction with any inflammable substances, extricates their inflammable matter, and bursts with it into slame, accompanied with a hissing noise: this process is usually termed DEFLAGRATION OF DETONATION.



PART

English Dispensatory

IMPROVED.

WEIGHTS.

WO different kinds of weights are made use of in this country; one in the merchandize of gold and filver; the other for almost all goods besides. The first we call Troy, the latter Averdupois weight.

The goldsmiths divide the Troy pound into twelve ounces; the ounce into twenty pennyweights;

and the pennyweight into twentyfour grains. The Averdupois pound is divided into fixteen ounces; and the ounce into fixteen parts, called drams.

The pound of the London and Edinburgh dispensatories (which is the only one made use of in this work) is that of the goldsmiths, divided in the following manner:

The Pound
The Ounce
The Dram
The Scruple
The Grain is equal to the goldsmiths grain.

The medical or Troy pound is less than the Averdupois, but the ounce and the dram greater. The Troy pound contains 5760 grains; the Averdupois 7000 grains: The Troy ounce contains 480 grains; the Averdupois only 437: The Troy dram 60; the Averdupois dram somewhat less than 28.

These differences in our weights

have occasioned great confusion in the practice of pharmacy. As the druggists and grocers sell by the Averdupois weight, the apothecaries have not in general kept any weights adjusted to the Troy pound greater than two drams, using for all above Averdupois. By this means, it is apparent that in all compositions, where the ingredients

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others by ounces, they are taken in a wrong proportion to each other; and the same happens when any are directed in lesser denominations than the ounce, as these subdivisions, used by the apothecaries, are made to a different ounce. The mercurial plaister of the late Pharmacopæia, and the mercurial cerate of

are prescribed some by pounds and the present, if compounded by the averdupois weight, contain about one fixth less quickfilver than if made, as they ought to be, by the Troy. This error prevailed fo far as to be received in some former editions of the London Pharmacopœia itself; but is now happily removed.

MEASURES.

The measures employed with us in pharmacy are the common wine measures.

(eight pints (libra.) A gallon Contains (lib) fixteen ounces. The ounce ¿ eight drams.

fure of half an ounce; in the Edin- waters.

By a spoonful is understood in burgh, half an ounce weight in the London dispensatory the mea- fyrups, and three drams in distilled

Table of the weight of different liquids.

may the pears welght has twen	6 1911 ·		ounce measure weighs	
Of	ounces	grains grains	grains	grains
Oil of Vitriol Spirit of Nitre	28 6	27 = 13727 $1 = 9781$		77+
Aqua fortis Spirit of Salt Diftilled Vinegar Common Vinegar	17 4	23= 9503 36= 846 30= 7530 11= 7391	527+	74+ 66— 59— 58—
Fixt Salts deliquiated in the air Soap Leys of the London Dispens. Spirit of Sal Ammoniac	160	o=10080 c= 7680 59= 6959	480	85 60 54+
Highly dephlegmated Spirit of Wine Common rectified Spirit of Wine Proof Spirit	13 1	30= 6030 31= 6331 55= 6655	396-	45— 49+ 52—
Honey Linfeed Oil Oil Olive	14.1	19= 7639 33= 6813 13= 6673		60- 53+ 52+
Rain Water	15 1	50= 7310	456+	57+

A Table of the specific gravity of different folids.

Aloes wood	1,177	Mercury fublimate corrolive	
Alum	1,738	Yellow emetic	8,235
Amber, pellucid	1,065	Merc.dulcis, fublimed twice	
Ambergris	1,400	thrice	9,882
Antimony	4,000	four times	8,234
Crocus of	4,500	Mother of Pearl	2,480
Glafs	5,280	Myrrh	1,250
Regulus	6,622	Nephritic Stone	2,894
Balfam of Tolu	,896	Wood	1,200
Bezoar, Occidental	1,500	Nitre	1,900
Oriental	1,530	alcalized	2,745
Bilmuth	9,700	Opium	1,363
Borax	1,720	Peruvian bark	7,784
Box wood	1,031	Potafh	3,112
Calamine	5,000	Rhodium wood	1,125
Campeachy wood	,913	Sal Ammoniac	1,453
Camphor	,996	Enixum	2,148
Ceruffe	3,156	Gemmæ	2,143
China root	1,071	Mirabilis Glauberi	2,246
Cinnabar of Antimony	6,044	Polychreftus	2,148
Factitious	8,100	Prunellæ	2,148
Copper	9,000	Salt of Steel	1,830
calcined	5,453	Common	2,125
Coral, red	2,689	Volatile of hartshorn	1,496
white	2,500	Saffafras	,482
Crabs eyes	1,890	Saunders, Red	1,128
Fir	1,550	White	1,041
Frankincenfe	1,071	Yellow	,800
Gold	19,640	Scammony, refin of	1,200
Guaiacum Wood	1,333	Silver	10,500
Bark	1,250	Sugar thrice refined	1,606
Refin	1,224	Sulphur	1,800
Gum Arabic	1,375	Tartar crude	1,849
Tragacanth	1,333	crystallized	1,900
Hæmatites	4,360	emetic	2,246
Icthyocolla	1,111	vitriolated	2,298
Iron	7,632	Tin	7,156
Lapis Lazuli	3,054	Tutty	4,615
Lead	11,310	Vitriol, Green	1,764
Litharge of Gold	6,000	White	1,900
Silver	6,044	English	1,880
Maftich wood	,849	Dantzick	1,715
Mercury	14,000	Calcined red	1,900
	*43000		-39-4

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Table

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Table of the specific gravity of liquids.

Antimonial caustic	2,470	Oil expressed of Olives	
Aqua fortis	1,300	Oil of Vitriol	,913
Aqua regis	THE RESERVE ASSESSMENT OF THE PARTY OF THE P		1,877
Honey	1,234	Spirit, acid, of Nitre	1,338
Milk Cows	1,450	dulcified	1,000
Goats	1,039	of common Salt	1,154
	1,009	dulcified	,951
Oil, distilled of Caraw	ray Seeds, 940	of Vitriol	1,203
Cinnamo	on 1,035	Spirit of Hartshorn	1,073
Cloves	1,034	Honey	,895
Cummin	Seed ,975	Sal Ammoniac	8 MARTINGS 12 13
Dill See	d ,994	Silk	,952
Fennel S	Seed ,997	Tartar	1,145
Hyffop	,986	Urine	1,073
Juniper l	berries ,911		1,120
Mint	975	Wine, proof	,927
Nutmegs		common rectified	,866
Ounne		very highly rectifie	ed ,825
Oriente		Vinegar, of Beer	1,034
D		of Wine	1,011
Pennyro		diftilled	1,030
Rofemar		Water, distilled	,993
Saffafras	7-77	Rain	1,000
Savin	,986	River	1,009
Spike	,936	Sea	1,030
Tanfy	,946	Wine, Burgundy	,953
Turpenti		Canary	1,033
Oil, expressed of Linse	eed ,932	Red Pontack	
party.	100		,993

Table of the quantity of fixt alcaline falt necessary to Saturate different acids.

Table

Table of the quantity of acid destroyed by different absorbents.

Coral, red and white Crabs eyes Eggfhells Mother of Pearl Crabs claws Jawbone of the Pike fish Cool Spirit of Salt.
--

Table of the quantity of absorbent earths soluble in acids.

576 grains of Spirit of Salt diffolyed of	Crabs eyes Mother of Pearl Pearls Oyflershells Hartshorn Coral Oriental Bezoar Occidental Bezoar Quick Lime Slaked Lime	grains 216 144 128 156 165 180 118 r 123 199 193
576 grains of Spir. of Nitre diffolved of	Crabs eyes Mother of Pearl Pearls Oyftershells Hartshorn Coral Oriental Bezoar Occidental Bezoar Quick Lime Slaked Lime	297 202 219 236 234 233 108 144 180 216

B 5

Table

(6)

Table of the quantity of essential oil obtainable from different aromatics.

1. Exotic Spices.			
The state of the s	on I blinking		from to
	(Agallochum		2.
	Canella alba		1
	Cardamom feeds		25 30
	Cafcarilla		4.
Age	Cafia lignea		4
to it Sain	Cinnamon		8 10
515C 10 7	Cloves		90 100
	Dictamnus Creticus Galangal		7 5
640 parts of	Ginger Syield of oil		4 5
	Mace		5 6
	Nutmegs	ő E	25 40
	Pepper		6 10
	Pimento		4
*	Rhodium		3 20
	Saffafras		12 15
in with.	Saunders, yellow		10
	Zedoary		19 319572
	2. Aromatics of our own growth.		
	2. Thomatics of our own growth.		from to
	Angelica root	-	
	Calamus aromaticus		2 5
	Caraway feeds		30
	Chervil feeds		3 2
	Elecampane root	8-1	3
Fennel feed			14
Juniper berries			16
	Lavender, flowers of the broad leaved		25 30
	flowers of the narrow leaved	lio	10
	Lovage root		5 6
640 parts of	Marjoram leaves	70 5	10
	Maiterwort roots	yield of	3
	Mint leaves	~	16
	Parfley feed		4
	Rofemary leaves tops in flower		3 5
· contra	Damask roses	3 1	40
	Saffron	100	2 2 4
	Sage leaves	270	4 -2
	Smallage feeds	Ti no	10.0 5
. (Thyme:	i	5
			DADE
			PART

PART I.

THE

MATERIA MEDICA.

BOOK I.

Of the Materia Medica in general.

CHAPTER I.

Distribution of Simples according to their medical virtues.

HE whole materia medica is reducible under the three distinctions of alteratives, evacuants, and restoratives. The first comprehends all that has any power to alter the constitution, without fenfibly increasing or diminishing any of the natural evacuations. The fecond, whatever visibly promotes those discharges. And the last, all that contributes to lessen them, and make the increase greater than the waste. But as these denominations are somewhat too general, we have broke them into fubdivisions; although, for the

greater convenience upon other accounts, best suiting our own scheme, such subdivisions fall not exactly under those respective heads. The first, third, fourth, and eleventh sections, include what belongs to alteratives: The fifth, fixth, seventh, eighth, and ninth, what comes under evacuants: And to the last belong the second and tenth. And as even these divisions are some of them too general, we have found it convenient to distinguish them farther into different classes, under more restrained denominations.

In this part, fome authors feem

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to have taken a great deal of pains though not to any great purpole. The method here made use of, is the nearest to that of Ludovici of any that have gone before; as to the general denominations the fimples are ranged under: Although in his division of alteratives into primary and fecondary, wherein he imitates Schroder, and is afterwards copied by Etmuller, we have not followed his example; because the grounds of fuch a distinction are too trifling to deserve the trouble. Too contracted a distribution occafions the fame fimple, in fome respects, to be placed under every head; and too large a one multiplies hard terms, and occasions fo many breaks, as are both tedious

and troublesome: for there is almost no end in the subdivisions fome make; and were all the appellations, continued in medicine, to have some share in the distribution of the materia medica, therewould hardly be a fimple for each. In this matter therefore a mean is here endeavoured, between the obfcurity of too great a conciseness, and the perplexity of too many fubdivisions: fo that though a simple in many places might, upon fome account or other, be reckoned in another fection or class; yet it is expected it will be commonly found, that where it stands it has the most right, by reason of its most predominant quality.

Method of simples.

I. Vegetables.
II. Animals.

	1. Minerals.
SECT.	Class
I. Nervous fimples.	1. Cardiacs and Cephalics. 2. Carminatives. 3. Hysterics.
II. Strengtheners.	1. Agglutinants. 2. Advingents. 3. Abforbents.
III. Stomachies.	17949. Paris legislation of April Septem
IV. Balfamics. V. Diuretics.	1. Emollients. 2. Restoratives. 3. Vulneraries. 4. Detergents.
VI. Diaphoretics. VII. Emetics.	
VIII. Cathartics. IX. Sternutatories. X. Narcotics.	{1. Laxatives, or milder. 2. Draftics, or stronger.
XII. Topics.	5 t. Repellents. 2. Suppuratives. 3. Detergents. 4. Cauftics.
he aprigultunctions, as in many	XIII Sim

Sect. 1: Of Nervous Simples.

S E C T.

XIII. Simples omitted, or not reducible under the foregoing heads.

XIV. Of Waters.

XV. Of Metals.

XVI. Of Salts.

SECT. I.

Of Nervous Simples.

HIS term is very comprehensive, and may take in all those parts of the materia medica by which the nerves are affected; but here it is used in a more restrained sense, and is to be understood only of those things which have an immediate effect upon the spirits, or which contribute to accelerate and enliven the motion of the solids; so that the sensations

at the head, stomach, or heart, become forthwith much more lightsome and agreeable than before. Whatsoever answers this end, passes commonly under the appellations of cephalic and cardiac; and therefore we shall join those together, in explaining the manner by which such simples operate, as come under these general terms.

Class 1. Of Cardiacs and Cephalics.

The reason why these are placed together, is both from the difficulty of making any material distinction, and from the affinity of those fimples which are generally ranged under these two denominations. What in a proper fense is a cordial, must be also a cephalic, as the head hath the principal share in agreeable fensations. And indeed in some respects, whatsoever is grateful and ferviceable to the nerves in any part, may be termed cephalic, fince in the head is their origin; whereby, as it partakes of their uneafinesses at a distance, so it also very agreeably sympathizes in their releafement therefrom.

There are medicines indeed, both fimple and compound, prescribed properly for distempers of the head, from the operation of which nothing arises strictly to denominate them cordial, but they rather have the contrary effect; since, for the pre-

fent especially, they depress the spirits: such are cathartics and other evacuants. As the head is the better from them only secondarily, or by accident; they cannot come under the denomination of cephalics, as we here use the word. And as the same difference may occur in other things, the whole class of detergent balfamics being accidentally diuretics; so it is most proper to keep to those general terms, according to their first and chief intention.

Whatfoever raifes the spirits, and gives sudden strength and chearfulness, is termed cardiac or cordial, as comforting the heart. To understand the operation of which upon an human body, it is necessary first to consider, that a languor or faintness must either be the consequence of too much exercise, too long watching, or too great a hurry of the animal functions, as in many

would do when the ufual weight

remained.

In both these cases, the manner by which a cordial acts, is the same; fince it must produce its effects by adding to the springiness and force of the fibres. This change is most remarkably occasioned by spirits or spirituous liquors; the more spirituous any thing is, which enters into the flomach, the fooner a perfon feels its cordial effects. For that increase of vigour which a man obtains from common food, although it is the most natural and durable, is not fudden enough to procure the instruments thereof the appellation of cordials; fince they must pass through several comminutions or digestions, and be a long time ere they arrive to fuch a finenefs, as renders them dispensible to the nerves: whereas a spirituous substance is so fine and subtile in all its parts before it is taken, that it feems to enter or foak into the nerves as foon as it touches them; whereupon their vibrations are invigorated, and all sense of faintness is removed. And upon the same account it is, that volatiles affect the nose; being so extremely subtile, as to penetrate the olfactory nerves as foon as they come at them. And thus it is, that the effluvia or fleams of flowers, fruits, and all things deemed cordial, operate upon the organs of imelling.

By the fame means we may eafily

or diffipate the nervous fluid, or the body, which are ranged in the animal spirits, that the solids can-not repeat, with wonted vigour, gency of such substances, both uptheir necessary motions. Or such on the taste and smell, it is manidepression must arise from an ob- fest they are stocked with many struction of some natural evacua- subtile parts, which by their finetion; and this is generally that of ness, when dissolved by digestion, perspiration, from external cold; and mixed with the animal fluids, which lays a load upon the consti- are most fit to enter into the slentution, and produces the fame fen- derest fibres, and recruit that waste fation, as a diminution of strength their continual motions make of their necessary moisture. Thus all aromatics and fweet-flavoured ingredients have a title to this rank; and more or lefs conduce to this end, in proportion to the fubtilty and volatility of their component parts. And thus when we fay, fuch a thing comforts the heart, strengthens the brain, or is a cephalic; we understand, that it is fuitable to make a part of the nervous fluid, and maintain the due vigour and motion of the folids. As a constitution becomes weak by age, artificial helps (by which we understand all that is used as medicine) are more and more needful: for when the digeflive faculties grow languid, and are not able to furnish a due fupply from ufual diet, for the wastes that are daily made in the animal occonomy, then thefe auxiliaries are the more wanted. And whatfoever means, at any time, occasion a distemperature in this fluid, fuch affiftances as come under this denomination are neceffary; they being fitted by degrees to wear out fuch undue mixtures, and invigorate the whole nervous fystem, by a new supply of spirits.

Upon another account likewise it is, that feveral fubflances come into this class, befides those that supply the deficiency of the animal fpirits; and these are such as have a deterfive quality, joined with fuch a stimulus, that although they are too fine to be perceptible any where

Sect. T.

may prove a vulnerary, diaretic, or the like; according to the dif-

ferent texture of the substances

Of Nervous Simples.

elfe, yet when they enter into the wherein it refides. There are likefmall fibres, by their little vellica-tions, they excite their vibrations, abforbents; by reason they pre-and prevent any useless matter from vent those superfluous moistures, lodging in their interffices, and clog-ging their motions. This quality, which the nerves are frequently overcharged with, and occasion rheums, with many other inconve-under other denominations; and ticularly about the head, where they are large and numerous, and very apt to be affected.

Folia Asclepiadis Betonica Campborata

Cheiri Euphragiæ Majoranæ Malabathri Mari Syriaci Origani Roris Solis Salvia Scananthi Serpylli Thymi

Flores Anthos Aurantiorum Caryophyllorum Fasmini Lawendulæ Lilii convallium

Pæoniæ Rosarum Damas- Damask Roses cenarum Stachados Tilia

Semina Sinapios Thlaspios

Frudus Anacardia Banilia Cerefa nigra Coffee

Herbsor Leaves of Cubebæ Swallow-wort Betony Stinking Ground- Pimento pine Wall-flower Evebright Morioram Indian Leaf Marum Syriacum Origanum Sun-dew Sage

Camels Hay Mother thyme Thyme. Flowers of

Rofemary Oranges Cloves Jeffamy Lavender Lilies of the Valley Piony

French Lavender Lime.

Seeds of Muftard Treacle-mustard.

Fruits Anacardium Vanelloes Black Cherries Coffee

Nuces Moschatæ Piper nigrum

Ballama Peruvianum Labdanum

Ligna Aloes Rhadii

Cortices Macis Winteranus

Radices Acori Galanga Ginfeng Paonia Satyrii Zedoariæ Zinziberis

Animalia Cranium bumanum Kermes Moschus Stercus anseris

Stercus pavonis

Ungula aleis

Mineralia Ambragrifea Succinum

Cubebs Nutmegs Black Pepper Jamaica Pepper.

Balfams Peruvian Labdanum.

Wood Aloes Rhodium.

Barks Mace Winter's.

Roots of Acorus Galangal Ginfeng Piony Satyrion Zedoary Ginger.

Animals Human Skull

Kermes Musk Goofe dung Peacocks dung Elks hoof.

Minerals Ambergris Cinnabar. nativ. Native Cinnabar.

Thefe

These have a place among the nervous fimples, by reason the nervous parts are frequently under great diforders from flatus's, or wind pent up: and therefore what distipates and expels fuch vapours must be reckoned of great service

to those parts.

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This term does not appear to carry in it any thing expressive of the medicinal efficacies of those simples which pass under its denomination. It probably had its rife, as thus applied, when medicine was too much in the hands of those jugglers, who, for want of a true knowledge in their profession, brought religion into their party; and what through their ignorance they were not able to do by rational prescription, and the use of proper medicines, they pretended to effect by invocation and their interest with heaven. Which cant being generally, for the furprize fake, couch'd in some short verses; the word carmen, which fignifies a verse, was made also to mean an inchantment: which as it was a very good cover for their ignorance, as well as their knavery, was frequently made use of to fatisfy the people of the operation of a medicine they could not account for. And as those medicines, now under this name, are of quick efficacy; and the confequences thereof, in many inflances, very great and furprifing; and the most violent pains, fometimes arifing from pent-up wind, immediately ceafing upon its dispersion : for these reafons, I fay, fuch medicines as give relief in this cafe, are more particularly termed carminatives, as if they cured by inchantment; the complaint removed by them being

fo fudden, that the ordinary means of the operation of a natural cause. were not eafily imagined to take

place fo foon.

But howfoever this term came into the profession, common use has fufficiently determined its meaning; fo that every one understands by it fuch things as conduce to expel wind. How they do fo, may be conceived, when we confider that all the parts of the body are perspirable. Sanctorius, in his Medicina Statica, determines all we call wind in the bowels, to be fuch perspirable matter as makes its escape through the coats of the flomach and intestines. Between the feveral membranes, likewife, of the muscular parts may such matter break out, and lodge for some time. Now whatfoever will rarify and render fuch collections of vapours thinner, must conduce to their utter discharge out of the body; and confequently remove those uneafinesses, which arise from their detention. And as all those things in medicine which pass under this denomination, are warm, and confift of very light fubtile parts, it is eafy to conceive how a mixture of fuch particles may agitate and rarify those flatulencies, so as to facilitate their expulsion : and especially when we confider what a help to promote this end those grateful fensations may be, which fach medicines give to the fibres; which cannot but invigorate their tonic undulations fo much, that, by degrees, the ob-flructed wind is diflodged, and at last quite expelled. But if the obstruction is not great, as it feldom is in the bowels, by reason of the large vent both upwards and downwards, the rarefaction and discharge

of the wind upon taking fuch a medicine is often extremely quick and fudden.

All the things under this class, being warm and discussive, are much used in the compositions of cathartics, of the rougher fort ef-pecially. For the irritation occafioned by those, would be fcarce tolerable without the mitigation of fuch grateful ingredients. Many likewife of this fortment are in the compositions of discussive topics, as they warm, rarify, and attenuate the obstructed humours.

Folia Angelica Chamameli Fæniculi Levillici

Leaves of Angelica Camomile Fennel Lovage.

Dauci Sylvestris Faniculi Grana Paradifi Cardamomum Lauri baccæ

Wild Carrot Fennel Grains of Paradife Cardamoms Bay-berries.

Root of

Semina Anethi Anifi Carui Coriandri Cymini

Seeds of Dill Anise Caraway Coriander Cummin

Radix Angelicae

Angelica. Animalia Caftoreum

Animals Caftor.

Class 3. Of Hyfterics.

What we reduce under this head, may perhaps be more properly flyled Uterines; for we shall here include, not only all that are called Hysterics by the writers in physic; but also fuch fimples as are accounted ferviceable in menstrual obstructious: for fuch disorders bring on a great many fymptoms which are always reckoned hysterical; and confequently, the means of removing them justly come into this class.

All of this kind are very remarkable for their ftrong fcent; and have been by some diffinguished into odoriferous and fetid medicines. But of the former, fuch as musk, ambergrease, and the like, there are so extremely few constitutions with which they will agree, that we have refused most of them a place here; and ranked them in the first class of this fection.

Diforders of the womb, all which come under the name of hysterical affections, arife from too titillating

or from too uneafy fenfations. The former proceed from that irritation of the nerves, which the make and fecretion of those parts have naturally subjected them to: this in fome fort of constitutions arises to that degree, as to draw the whole fystem into disorder, and occasion a furprizing variety of fymptoms, as feveral forts of convulsions, and fpecies of madness; which therefore are by fome termed furores uterini. Now these disorders feem to be most effectually allayed by fuch things as are, in a manner, the reverie of cordials; and both in fmell and tafte very offenfive and disagreeable. And they seem to answer this end, by suffocating, as it were, the spirits, and damping their inordinate fallies; fo that fuch stimulation ceases, and the fibres return to their natural tone and motions. For, as what is grateful to the fenfes gives an inexpressible emotion to the fine ner-

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vous filaments; fo does what is fetid and disagreeable quite destroy that emotion, and deaden it. And as the former kind confists chiefly of fine, subtile, volatile parts, by which, as was before explained, they are fitter to penetrate the nerves; so these are generally of a clammy viscous contexture; and therefore fitter to envelope and entangle that subtile juice; whereby its motion is much retarded, and consequently the sibres rendered less formers.

In the latter case, the uneasiness of the burden in gestation, and often the disorders of the setus it-felf, brings the womb, and by degrees the whole nervous system, into convulsive disorders; which admit of little or nothing to be done by way of medicine; but are best remedied by contributing to the ease, and gratifications of all the desires and cravings of the mother. But the worst mischief to these parts, is from a lodgment of

fome difagreeable matter upon their glands, whereby they are frequently apt to grow cancerous; or from an obstruction of the discharges, which at certain times nature (that is, the conflitution) requires to be made from those parts. In the first of thefe, all fuch things come to be deemed hysterics, which by their deterfive qualities open those glands, and by degrees wear away the obflructed humours. In the latter are employed fuch as either give a greater force to the circulating blood, whereby it is enabled to break through the capillaries; or which fo attenuate it, as to fit it, upon that account, the easier to flow through, and make the discharge required. And thus whatfoever in medicine, either fimple or compound, contributes to any of these ends, though very different in their operations (as the original cause of the diforder may differ) they all come under this general appellation of hysterics or uterines.

Folia
Artemisiae
Atriplicis olidae
Basilici
Baphthalmi
Cardiacae
Cyperi
Distamni Cretici
Lupini
Matricariae
Nepetae
Puligii
Sabinae
Rutae

Semina Pæoniæ Herbs or Leaves of Mugwort Stinking Orache Bafil Ox eye Motherwort Cyprus Dittany of Crete Lupines Feverfew Cats-mint Pennyroyal Savine Rue.

Seeds of Piony. Gummi Afafætida Galbanum Myrrha

Radices
Ariflolochiæ

longæ
rotundæ
Round Birthwort
Bryoniæ
Briony

Bryoniæ Briony
Bellidis Daify
Cafumunar Cafumunar.

Animalia Animals
Castoreum Castor.

SECT.

Gums

Afafœtida

Galbanum

Myrrh.

(15)

SECT. II.

Of Strengthners.

PY Strengthners, we would be understood to mean such things as add to the bulk and firmness of the folids; and these differ from what has been ranged under the preceding section, as a bandage does from a sless-brush. The former are such as facilitate and drive on the vital actions; but these such as consirm the stamina, and maintain the folids in a condition to exert themselves into action on all proper occasions, with the greatest force and vigour

The continual waste which conflant motion makes in the constitution, were it not for frequent and proper fupplies, would foon wear the body quite out. The attritions and abrasions of the circulating fluids would quickly carry away the canals in which they circulate, were not fomewhat furnished and conveyed to them, which is fuited to fall into and adhere with them, and fo recruit what is washed off. And those particles must be much more disposed to do fo, whose adhesions are greatest when once they come into contact; fuch are those of the bodies we call glutinous; and which eafily form themselves into jellies, and fuch like confiftences': for the parts of fuch bodies are very light, by reason of the over-proportion of their furfaces to their folidities: whereby their motions are both more languid when in circulation; and when once they stop, their cohesions will be so much the stronger with whatfoever they happen to fall into contact. Medicines of this tribe are, therefore, of great fer-vice in hectics; where the fwift motion of a thin sharp blood wears

Y Strengthners, we would be understood to mean such things instead of nourishing it; for they not only retard the inordinate motion, but give such a weight and consistence to the juices, as fits eding section, as a bandage them also for nourishment.

There are likewise other causes, which may weaken the folids, by admitting or occasioning them to relax too much. Whatfoever therefore acts as a stimulus, and crifps and corrugates the fibres into a more compacted tone (which most auftere bodies do) will remove fuch weakness and increase strength: and as too much moisture may also contribute to fuch relaxation, what has no other quality but abforbing and drying up fuch fuperfluous humidity, may deferve, though accidentally, to come under this denomination.

And thus we have a clear notion of the three fubdivisions made under this head, and the manner by which they feverally operate in bringing about the main intention. This therefore, it is hoped, may ferve for an explication of the three fubsequent classes; observing that under the last do very naturally fall all those things which usually pass for sweetners; for that term can have no other meaning, than that the animal fluids are by them rendered less sharp; and this cannot be done but either by breaking off the points or asperities of their particles, or by fo abforbing them, by foft and porous bodies, that they cannot be perceived. Increase of motion conduces to the former; and what comes under the third class of this division, will do the latter.

Class

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Class I. Of Agglutinants.

Folia Herbs or Leaves of Pifi Amaranthi Flower-gentle Aparines Clivers Silver-weed Argentina Moufe-ear Auriculæ muris Shepherd's Purfe Burfa paftoris Horfe-tail Cauda equina Knot-grafs Centinodii Artichoke Cinari Cornelian-tree Corni Coronopi Buckshorn Plantane Navel-wort Cotyledonis Cynoglossi Gallii Hound's-tongue Ladies Bed-ftraw Galeopfis Archangel Herb Robert Geranni Clary Hormini Musci pixidati Cup-moss Plantain Plantaginis

Flores Flowers Confolida majoris Comfrey.

Scolopendrii

Spleenwort.

Semina Avence Oats Faba Peans DITTE Rice

Tritici Vermicelli Saga

Peafe Wheat Vermicelli

Cortex Cafia

Cafia Bark.

Radix Root of Confolida majoris Comfrey.

Gums Gummi Arabic Arabicum Olibanum Olibanum Sanguis Draconis Dragons Blood Tragacantha Tragacanth.

Animalia Rafura cornu cervi

Animals Shavings of Hartf-

Eboris of Ivory Sanguis. Goats Blood Ifing-glafs. Ichthyocolla

Mineralia Minerals Lapis Hamatites Bloodstone Alumen

Class 2. Of Agglutinants.

Herbs or Leaves of Folia Glaffi Wood Gnaphalii Cutweed Rupture-wort Herniaria Menthe Mint Millefalii Yarrow Napi dulcis Sweet Navew Pimpinella Burnet Quercus Oak Sanicula Sanicle Urtica Nettle.

Flores Flowers Ralautiorum Balauftines Rojarum rubra- Red Roses. THM

FruElus Berberes Barberries Caftanea Cydonia Cypress nuces Gal'æ Glandes Granata Mespila Mori Myrti Bacca Myrtilli Prunel. Slv.

Sorbi fruct.

Pint nuces

Chefnuts Quinces Cypress Nuts Galls Acorns Pomegranates Medlars Mulberries Myrtle-berries Hurtle-berries Sloes Rubi Idesi fruct. Rasberries Services Pine-apples

Fruits

Succi

Sect. 3.

Of Stomachics.

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Succi inspissati Acacia Hypocifis Terra Japonica

Juices Acacia Hypocistis Japan earth.

Margaritæ

Pearls cum omnib, testa- with all the testacea.

Minerals

Cortices Cinnamomi Granatorum Duercus. Suberis

Barks Cinnamon Pomegranate-peel Oak-bark Cork.

Roots of

Tormentil

Ofmund royal.

Biftort

Mineralia Creta Bolus Armen. Terra Lemnia Samia Sigillat. Granatus

Chalk Bole armenic Earth of Lenmos of Samos Sealed earth Garnet flone Ruby Emerald Hyacinth Sapphire Coral Lapis Lazuli Calamine

Radices Bifforte Tormentilla Osmundæ reg.

Animalia Animals Oculi cancr. Crabs eyes Chelæ cancr. Crabs claws.

Corallium Lapis Lazuli Calaminaris Tutia

Rubinus

Sapphirus

Smaragdus

Hyacinthus

Class 3. Of Absorbents.

Ligna Santala omnia Brafiliense lign. Ebenius Lentiscus Guaiacum Sallafras

Woods Saunders Brafil Ebony Maftich Guaiacum Saffafras.

Cortices Guaiaci Saffafras

Radices Chine Sarfaparillæ

Barks of Guaiacum Saffafras.

Tutty.

Roots China Sarfaparilla.

SECT. III. Of Stomachics.

T is not at all difficult to apprehend the operations of those things which come under this denomination. All nervous medicines indeed have fome claim to this division; as whatsoever is good for the nerves, cannot but be ferviceable to the flomach; both upon account of its being fuch a nervous part, and as it has generally the first effects of such medicines. But as for superior reasons, they are distributed under other denominations; we shall rank under this only

fuch fimples as are either feldom used in other intentions, or hardly ever omitted in this. These are fuch as, by a peculiar warmth, give both a grateful fensation, and a suitable tensity to the sibrous coats of the stomach; whereby the sense of hunger is not only excited, but also the stomach rendered more able to break and digeft what is taken in to nourish the body. And as most bitters are of this tribe, and also as by that quality they contribute frequently to the destroying ·C

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of worms, we have likewise given for any other purposes, a place fome fimples, prescribed scarce

Folia

Semen

Absinthii Rom.

Acanthi

Cardui ben.

Corallina

Santonicum

Leaves of Roman wormwood Bears breech Carduns Centaurii minoris Lesier centory Coralline.

> Seed Worm-feed.

here.

Cortices Aurantiorum Citreorum Limonum

Barks or peels of Oranges Citrons Lemons.

Radir Gentian

Root of Gentian.

SECT. IV.

Of Balfamics.

7 HAT passes under this denomination, has a great fhare in the materia medica. But the term is fo general and lax, that we have brought this tribe into four fubdivisions.

Under balfamics feem to be comprehended all that is meant by foftning, restoring, healing, and cleanfing: to all which intentions there feems this necessary requisite, in the parts of all bodies which are used therein, viz. That they be foft, yielding, adhesive; and by their smallness have a ready disposition to motion. It is not difficult to foresee how many ends are to be answered by a medicine with all these properties; as likewise what a vast progress they must take in many instances, before they can arrive at the intended scene of action.

For in these intentions, the seat of the complaint is most commonly in the viscera. Now it is certain, a medicine cannot come at any of thefe, but by the common conveyance of the blood: and how long from its being taken into the stomach, it must be before it can be prepared for, and goes its circuit that way, every one knows, who is but indifferently acquainted with the animal economy. And therefore tho' the lungs are by their fituation fo near the flomach, yet it must be

many hours before a medicine can arrive at them, after it is taken in by the stomach; because it must pass the usual course into the lacteals, through all the meanders of the mesentery, and go up with the chyle into the fubclavian vein, and there fall into the blood, before it can come near the place it is intended for: and even then it has but the chance of coming thither, in fuch a quantity as bears a proportion to the whole which comes into the blood, equal to that which the pulmonary artery bears to all the other arteries, into which the heart throws the blood in every pulfation.

But as to any particular fubdivifion of this general term; a medicine given inwardly must pass thro' confiderable alterations before it can answer its end, even in the stomach and bowels; and therefore nothing of this kind can be de-pended upon in a fingle or few doses; but must be followed and repeated until the animal juices are fufficiently charged therewith to afford a continual supply, whether to any particular part, or to the whole. We shall the better understand the operations of these medicines from proper explanations under the feveral branches we have divided them

Class

Class 1. Of Emollients.

Emollients are fuch things as sheathe and fosten the asperity of the humours, and relax and fupple the folids at the fame time: It is very easy to conceive how both these are brought about by the same medicine.

By what means foever, whether in the stomach or any other parts, the juices have obtained a sharpness and afperity, fo as to vellicate and render uneasy the fibres and nervous parts; which often happens; those things which are smooth, fost, and yielding, cannot but wrap up

their points; and render them imperceptible: whence they may gradually, by the proper course of circulation, be brought to fome convenient emunctory, without doing any injury by the way. Such parts likewise draw the fibres into spasms, keep them too tense, and frequently thereby occasion obstructions of the worst kind. In all such cases, emollients lubricate and moisten the fibres: fo as to relax them into their proper dimensions, whereupon such diforders ceafe.

Folia	HerbsorLeavesof	
Althaæ	Marshmallows	
Betæ	Beets	
Betulæ	Birch	
Malvæ	Mallows	
Mercurialis	Mercury	
Parietariæ	Pellitory of the	
	wall	
Tapsi barbati	Mullein.	
Flores	Flowers of	

Lamii Archangel Liliorum alborum White lilies.

Semina Seeds of Fanugracia Fenugreek

Lini	
Citrulli	
Cucumeris	
Cucurbitee	
Melonum	
Peponum	
Sejami	

Fructus Amygd. dulces Avellana Ben nuces Caftanea que nuces ejufmodi

Flax Citruls Cucumber Cucurbits Melons Pumkin The oily grain. Fruits Sweet almonds

Hazel nuts Ben nut Chefnuts Juglandes, alie- Walnuts, with others of like nature.

Class 2. Of Restoratives.

These are not greatly different stered to repair the wastes of the class are rather nutrimental than recruit. medicinal; and are more admini-

from those of the first class in the constitution, than to alter and recfecond fection. And therefore their tify its diforders. Whatfoever can manner of operation may be ac- answer this end, must be both encounted for much in the fame way; dued with a disposition to enter only these are of a more subtile and into and mix with the most subtile adhefive nature, whereby they pass of the animal fluids, and to fall into the finest strainers, or fecretories, and adhere with such interstices of and enter into the nourithment of the folids, as have been wore away the remotest parts. All under this by action, and stand in need of

Folia

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Herbs or Leaves of Folia White maidenhair Adjanthi albi Black maidenhair Adianthi nigri Rocket Erucæ Panic Panici Scabious Scaling English maidenhair Trichomanis Colt's foot Tuffilaginis Golden rod Virga aurea Bohea tea. There Bober Seeds Semina Chiches Cicerum

Hordei, cum om- Barley, and other nibus frumentis Lupuli Orobi

FruElus Cacaonuces Cynosbati fruet. Piflachiæ nuces

Rdellium Styrax

Bread-corn Hops Bitter vetch.

Fruits Chocolate Hips Pistachio nuts.

Ballama Tolutanum ball. Rengoinum

Radices Ervneii Iridis Pastinacæ Satyrii

Animalia Vipera Limaces Lac Vaccinum Alinium Ovinum Caprinum Pulmon vulp.

Ralfams Balfam of Tolu Bdellium Benjamin Storox.

Roots of Ervngo Orris Parfnips Orchis.

Animals Vipers Snails Milk of Cows Affes Sheep Goats Fox lungs.

Vulneraries. Class 3.

What is collected under this denomination, is of that fort of balfamics, which are not only foftning and adhefive, but also, by a peculiar activity or disposition to motion, joined with a fuitable configuration of parts, are apt to abrade and carry along with them fuch particles as they lay hold on in their passage: fo that they differ from the next class, of detergents, only in degree.

All medicines of this intention are supposed both to cleanse and heal; that is, incarnate, or fill up with new flesh, all ulcerations, and foulnesses occasioned thereby, both internally and externally. Now to do this, in all internal cases especially, the medicine must preserve its primary properties, until it arrive at the place of action; as was before observed under the general term of balfamics; and there it does what entitles it to this appellation;

first by its adhesive quality, which confiffs in the comparative largeness of furface, and flexibility of its component parts. For by this it very readily falls into contact with, and adheres to, the flough of ulcerous exudations; which by reason of their fituation are eafily carried along with the medicine. And when fuch matter is fo carried away, which is the cleanfing or deterging part, what was inflrumental in this office, will afterwards flick to, and adhere with the carneous filaments, until, by their addition, and the protrusion of proper nourishment ab interno to the fame place, the waste is made up; that is, the ulcer is healed.

After the fame manner the operation of fuch fubftances is to be accounted for in external application. By the warmth of their parts they rarify; and by their adhefive quality they join with, and take off

along with them, in every dreffing, what is thrown upon the place to which they are applied, until a more convenient matter is supplied; which it forwards, in adhering to, and incarning the eroded cavities. Only this may be taken notice of, that internally, whatfoever of this kind is mixed with the animal fluids, by the known laws of circulation, they will be first separated and left behind. For all those parts

which are specifically heaviest, will move nearest the axis of the canals; because the momenta are the greatest: and will therefore carry them as near as can be in ftraight lines; but the lighter parts will always be jostled to the fides, where they foonest meet with outlets to give them vent, or are ftruck into fuch cavities as we are here speaking of; in which they adhere, and make part of the substance.

Folia Abrotani Acetofella Agrimonia Alchimilla Braffice Chamapityos Chelidonii Delphinii Dentaria Digitalis Dipfaci Epithymi Hed. terrestris Hypereci Marubii Melilotii Ophiogloffi Perfoliatæ. Pini Polii montani Pulmonariæ Pyrolæ Visci quercini

Leaves or Herbs of Southernwood Wood-forrel Agrimony Ladies mantle Colewort Ground-pine Celandine Lark.fpur Toothwort Fox-glove Teafel Dodder of thyme Ground ivy St. John's-wort Horehound Melilot Adder's tongue Thorow-wax Pine Mountain poley Lung-wort Winter-green Mifletoe

Ulmi Animalia Spermaceti Mumia Mineralia Lapis Hibernicus Sulphur caballi-

Gummi et nativa Gums and natural Balfama Balfams Caranna Caranna Juniperi gum. Gum juniper Opopanax Opopanax Sagapenum Sagapenum Sarcocolla Sarchocol Terebintbina è Chio turpentine Chio 2 Cypro Cyprus turpentine Veneta Venice turpentine. Cortex Bark of Elm-tree. Fungus Fungus Sambucinus Jews-ear.

> Mummy. Minerals Irish flate Common brimstone.

Spermaceti

Animals

Class 4. Of Detergents.

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These differ only in degree of efficacy from the former class; they are of more fubtile parts, and therefore fitter to mix with, attenuate, and wear away the contents of

abscesses and ulcerations, and those mucous and vifcid collections of humours, which are apt to adhere to and obstruct the vessels.

Abietis Absinthii vulg.

Herbs or Leaves of Fir Common wormwood

Allii Ammi veri Anagal. aqu. Anonis

Garlick Bishops-weed Brook-lime Rest-harrow Apis

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Aquilegia Artanita Asperula Al lenii Botryos Capparis Caprifolii Chamædryos Cardamines Cochlear, bor. Cochl. mar. Crithmi Eryfimi Eupatorii Fumariæ Geniftae Gratiole Hebatice Hyffopi Hipposelini Iberidis Ligustri Mentrafti Nasturtii Panacis Porri Rusci Sambuci Satureiæ Scropbulariæ Secalis Tanaceti Trifol. palud. Verbena Veronica

Sambuci Elder.

Semina Ammeos Eruca Fraxini Nasturtii

Fruetus Amygd. am. Ficus com. Jujuba Sambuci bac.

Smallage Columbine Sow-bread Wood-roof Spleen-wort Jerufalem oak Caper-bufh Woodbine Germander Cuckow-flower Gar. Scurvy-grafs Sea Scurvy grafs Sampire Hedge mustard Maudlin Fumitory Broom Hedge-hyflop Liver-wort Hyflop Alexanders Sciatica-cress Privet Horfe-mint

Water-creffes All-heal Leeks Butchers broom Elder Savory Figwort Rye Tanfy Buck-bean Vervain Paul's beton.

Flowers of

Seeds of Bishops-weed Rocket Afh Cresses.

Fruits Bitter almonds Figs Jujebs Elder-berries

Pallula Pini nuces Sebesten. Dattyli Juniperi bacca

Gummi et Bal-Sama Ammoniac. gum. Capiwi ball. Mastiche Tacamachacca Opobalfamum Sapo Venetus Terebinth. omnes

Cortices Berberis Capparis Ebuli Sambuci Tamarisci

Radices Ari Ceparum Curcumæ Filicis Glycyrrhiza Enulæ camp. Lapathi acuti

Pentaphylii Polypodii Porri Rhapontici Rubiæ Tinet. Saponaria

Animalia Lumbrici terr. Stercus canis equinum

Mineralia Piffelaum Indic. Sal commune mar. Salgemmæ Hydrargyrus

Raifins Pine-apples Sebestens Dates Juniper-berries.

Gums and Balfams Gum Ammoniac Balfam of Capiva Maftich Tacamachac Opobalfam Venice foap All the turpentines.

Barks of Barberry-tree Caperbufh Dwarf elder Elder Tamarifk.

Roots of Cuckow-pint Onions Turmeric Fern Liquorice Elecampane Sharp-pointed dock Cinquefoil Polypody Leek Rhapontic Madder

Animals Earth-worms White dogs dung Horfe-dung.

Soap wort.

Minerals Barbadoes tar Sea falt Salgem. Quickfilver.

SECT.

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SECT. V.

Of Diuretics.

most remarkable properties appear fages; which those of the fourth in their increasing the discharge by urine; or which are supposed to shewn to do, and upon that achave any power in removing ob-Aructions in the urinary passages, from what cause soever, whether

humours or gravel.

The best way to understand how a medicine operates to answer this intention, will be first to confider by what means it comes to be wanted. This must happen either from a fault of the passages, or of the liquid which ought to make its way through them. The passages may be in fault from any cause which contracts them; and draws them up too firait; which of course lessens their diameters, and will not let particles through of the same bulk as they would before: and they may also, in their natural capacities, be obstructed by the casual intrusion of particles too big to go forward; or by the concretion of particles attracting one another in their progrefs. The fluid also which ought to go off this way, may be prevented by the groffness; and by being united with other particles too bulky for those outlets.

In this view, diuretics come under these following kinds. They are either fuch as foften and lubricate the fibres that compose the urinary glands and canals; by which means they yield and relax into their due dimensions and capacities; and of these kinds are many of the emollients, fect. 4. class 1. already explained . or they are fuch as, by their attenuating and deterfive properties, rarify and thin vifcous hu-

NDER this head are in- mours, and adhere to and carry cluded those simples, whose them along with them in their pasclass of the same section have been count prove diuretic: or again. they must be such as have a power of altering the crass of the humours; fo as to fit those to pass, which could not get through before; and this remains yet to be explained, and has particular regard to most of the simples collected under this fection.

Without venturing out too far. for the compass here allotted, into the nature of fecretion; it may be proper to take notice, that the thinner feparations increase in proportion to the blood's velocity: for the fwiftness of its motion not only keeps the parts more divided. but also brings them oftner to the fecretory orifice; which every where takes off the thinnest of the blood at that part; fome of the viscid and thicker fecretions requiring, for the fame reason, a vast check of the blood's motion, before they can be performed; that is, before the blood has obtained such a confistence, by the flowness of its motion, that what is to be separated is the thinnest at that part; for no other will go off any where. If therefore from any cause the blood does not move with its due velocity, its parts will attract one another, and make the whole too thick to part with any thing by the kidneys, or fo much as it ought. Nature indeed feems particularly to have provided against this inconvenience, by fo near a fituation of the kidneys to the heart, that the blood's motion cannot be

retarded

retarded when it comes to them, unless it moves flower through the heart itself. In this case such things prove diuretic, which not only forward the blood's motion by their irritation of the folids, and quickening their vibrations; but are fo fubtile as to keep the blood in as fluid a state as possible. Many things therefore under the first class of the first fection come into this rank; because their volatility gives them fuch properties. But besides the fmallness and aptitude to motion of fome parts which keep the blood fluid, there are others which do it by their roughness and rigidity; for thereby they hinder fuch particles of blood from coming into contact, which would make them cohere; and fuch are of the nature of alkaline and lixivious falts; which for this very reason, in all sluggish and viscid habits of blood, prove diuretic; and procure fometimes very large discharges by urine.

Another way of forcing urine, is to encrease the quantity of such falts in the blood, as feem fitted. by their specific gravities, to pass more eafily by the kidneys than any where elfe; for the largeness and fwiftness of the stream in which the blood comes to them, cannot admit of the separation of any particles but such as are small and heavy; of which kind are all nitrous and acid falts. For these joining with the ferum, cause it more plentifully to attract and unite the falts difperfed in the blood, and help the fooner upon that account, viz. by adding to their gravities; to determine them through the kidneys into the

But fuch feem to be the most natural and safest medicines for this intention, which have in their compositions salts near of this kind, and somewhat at the same time so emollient, as to guard them against

vellicating the membranes, and to Inbricate and facilitate their paffages with what they take with them into their proper emunctories. Thus all of the mallow kind, and most of the ingredients in the Syrupus de Althæa, have a great deal of a penetrating falt wrapt up in a foft mucilaginous juice. Dr. Grew, an able physician, and a most faithful recorder of experiments of this nature, observes more falts to be in plants of this kind, than many others which feem to discover more of them to the tafte. If then nature be allowed to be the best compounder, those of her productions which have these two properties so well blended together, must be the best that can be contrived for the purpofes under confideration. fuch plants or fimples feem fitted to answer both these important intentions at once, of lubricating and relaxing the passages, and of precipitating at the same time the proper fluids through those passages. And this may ferve as a good hint, to conduct us in the use of those means which art contrives to answer the fame end, not to be too bufy with fuch things as flimulate much, and are forcing that way, left, instead of making a passage, those irritations should contract and straiten what was too firait before; and therefore that we always join them with fuch things, as are at the fame time foftening and emollient; that the veffels may be enlarged, when a greater quantity of fluid is intended to be protruded through them.

It has been a long dispute how fome things, which manifestly pass off by urine, can do it in so short a time as they are often observed; especially those of the turpentine kind; which will very soon discover themselves by their smell, (wherein no body can be deceived) in the urine; but this would take

up too much room in this place; liquors drank fuddenly, will foon and it does not feem greatly to our purpose to determine such difficulties. Some hints this way, and especially how large quantities of

make their way through these parts, may be met with in the explications of Sanctorius's Medicina Statica.

Folia Charefolii Fragaria Kali Oxyacanthæ Perficariæ Petrofelini Thea viridis Saxifragiæ

Herbsor Leaves of Chervil Straw-berries Glafs-wort Barberry-tree Arlmart Parfley Green-tea Saxifrage.

Radices Althace Asparagi Famiculi Filipendulæ Graminis Petroselini Raparum Raphani bort. Raphani ruft.

Roots of Marshmallows Asparagus Fennel Drop-wort Grafs Parfley Turneps Radishes Horse radish.

Semina Ebuli Lithospermi Bardana

Seeds of Dwarf elder Gromwell Burdock.

Animalia Millepedes Cantharides Stercus porcinum

Animals Hog-lice Spanish flies Hogs dung.

FruElus Alkekengi Spinæ albæ

Fruits of Winter cherry White thorn.

Minerale Nitrum

Mineral Salt Petre.

Lignum Nephriticum

Wood Nephritic.

SECT. VI.

Of Diaphoretics.

NDER this name of diaphoretics are included what also are understood by Alexipharmacs and febrifuges, because all under those denominations, whose operations we have any notice of, exert themselves that way, by more or less increasing a diaphoresis; which is a fenfible discharge by the skin, and shews itself like a dew upon it.

All those medicines which answer this intention, must do it either by their fubtility, whereby they divide and attenuate the humours to fuch a degree, that they become fine enough to escape through such small passages, as those of the cutaneous

glands; or elfe by their contracting and fqueezing the folids, which force out of the extremities what lay before in readiness for expulfion. Of the former fort are many fimples, which for their other more manifest qualities, we have placed under other heads, and chiefly amongst the cephalics: for all aromatic, warm and fubtile bodies, have a natural tendency this way, because they cannot but divide and attenuate the fluids, which make them fitter to go off by the fmaller passages. What we have collected under this fection, are mostly determined to the fame intention, by a like texture and disposition of

parts;

parts; but then they are generally fuch as are feldom met with in composition or prescription for any other purpose. And, without transgreffing the rules laid down for determining things of this kind, it may be conjectured, that there is a difference between these and the common aromatics; that the latter act as foon as ever they come into the flomach, and by the volatility of their parts divide and thin the juices in the primæ viæ, but go off larger discharges; whereas the for-mer seem not to have any thing in their composition so active as to render them fenfible, until they have passed the last comminution or digestion in the circulating blood: and there to obtain fuch a refolution, as fuits them not only for the cutaneous secretion themselves; but also to break, and as it were fuse the blood itself, thereby causing its thinner and ferous parts to flow through the pores in great plenty. And this will not perhaps appear fo strange, when we consider a manifest difference in our food, not unlike what we here assign to medicine. For fome parts of our aliments are fooner than others broke and digested in the stomach and first offices; and fuch always furnish the greatest supply to the larger emunctories, and go off mostly by subtility enough not only to pass the lacteals, and get into the blood, but are too folid to undergo the last comminution, except by a long circulation, bestow more matter both for nourishment and the finer

fecretions. Those substances, or bodies, therefore, which obtain this appellation of diaphoretic, are fuch as are capable of being divided into very fmall and fine parts; which do not fenfibly operate until they are brought into the minutest vessels, where their smallness and activity fit them both to pass themselves; and besides make way for many other particles to go off with them.

But the other case of a diaphoin a great measure by some of the resis, or raising a sweat, is most extensive and efficacious; and that is by fqueezing and contracting the fibres, and fo forcing thro' what is in readiness to pass; of which matter there often is a great deal in the capillaries, or just at the furface, that fometimes almost stagnates for want of fuch shocks. All acids do this, and whatfoever vellicates and contracts the fibres powerfully. Thus you shall see people prefently fweat upon eating vinegar or lemon juice. Upon the fame account does fear, or any fudden passion, produce the like effect; as likewise all kinds of exercife. But these are not so directly our business to account for: nor likewise how sweating most commonly terminates fevers, and throws off poisons or contagious infections; by which they come to be termed alexipharmacs and febriurine; whereas others, which have fuges; because this would take up more room than we have here to fpare; as requiring the whole theory of fevers to be treated of. in order to arrive at a perfect knowledge of it.

Folia Anthora Calamintha Carlina Doronici Dracunculi

Herbsor Leaves of Dracontii Helmet flower Calamint Carline thiftle Wolf's bane Taragon

Galega Melifice Scordii Ulmariæ

Dragons Goats rue Baum Water germander Meadow-fweet.

Flores

Of Emetics. Sect. 7. Butter-bur Petafitidis Flores Flowers of Pellitory of Spain Calendulæ Pyrethri Marygold Viper-grafs Croci Saffron. Scorzoneræ Snake-weed Serpentariæ Devils-bits Seed of Semen Succifæ Valerian. Selelens Hart-wort. Valeriance Animals Animalia Gummi Gums Cochineal Campbora Camphire Coccinella Skines Guaiacum. Scinci Guaiacum Unicorns horn Corn. Unicorn. Bone of the ftag's Cortex Bark of Os de corde cervi Peruvianus heart Peru. Oriental Bezoar Bezoar orient. Radices Occidental Bozoar. Roots of Bezoar occid. Contraverva Counter poison Imperatoriæ Mafter-wort Minerale Mineral Mei Spignel Eagle stone, Latis actites Nardi Spikenard

SECT. VII.

Of Emetics.

five as some of the precedent divi-sions; yet it is of that efficacy, as to require the utmost skill and caution in the management. For a vomit cannot be given without dotherefore to be indifferently regarded as the operation of some alteraed only to keep the patient eafy under some expectation, until a physician more clearly fees what nature indicates to be done.

Vomits and purges are fo much alike in their operations, that one cannot be well apprehended without the other. Thus much therefore is common to them both, that any medicine which fo far vellicates the membranes and coats of the flomach and bowels, as to draw them into convulfive twitches, or much accelerate their natural mo-

HAT part of the materia tions, will be emetic or cathartic, medica which comes under and fometimes both. But the acthis head, altho' it is not fo exten- tion of vomiting is more properly a convulfive motion in the stomach, than any which can happen in the bowels; unless their peristaltic undulations are inverted, as it hap-pens in the passio iliaca. Whatfoing either good or harm : it is not ever therefore comes into the stomach, which fo irritates its fibres. as to make them contract or draw tives, which are frequently prefcrib- up with force, will throw its contents upwards; the vent being much larger that way than through the pylorus; which would fend them by stool. The difference therefore between an emetic and a cathartic, lies only in this, that the latter confifts of fuch particles as pass the stomach without any violent vellications of the fibres; and the former of fuch as have that effect almost as soon as they come there; fo that a vomit feems ftronger than a cathartic: and this is the reason why a cathartic in an in-

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creased

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Some are of opinion, that the fubstance itself, which procured a vomit, is thrown up again in the first or second ejection; and that the following folicitations are caused by the acrimony of the juices; which the first motions pumped as it were, and occasioned to drain into the stomach. It is of no great importance whether it be thus or not; but 'tis certain, that the action of vomiting gives the strongest shake to all the muscles and solids of the body, that any motion is capable of; and therefore in all medicinal intentions it may be considered as an exercife. And the last reachings do generally discover a drain of humours derived into the flomach from fome confiderable diflance; their colour shewing them to come from the liver, or parts more remote. But service is not so much to be expected from what these medicines discharge upwards, as from what their violent emotions and concussions fit for separation, and force thro' other outlets; and even that by the skin is prodigiously increased by these means, as is manifest from the profuse safer medicines.

dose, will prove eme- fweats which a person naturally falls into afterwards, upon the leaft encouragement thereto.

> Tinctures and refins, are always observed to operate rougher this way than more simple preparations; and the reason seems to be, that fuch management of an ingredient makes its active parts too intimately come into contact with the fibres; whence they are not fo foon shook off by their convultive twitches or throws, as more grofs parts might be. Upon this account therefore, most of the simples which come under this head, are best ordered in their natural forms; and the elaborate preparations, of the chemical pharmacy especially, produce no vomit fo good as we find among nature's own productions. And this opinion the prefent practice fully supports; for all the antimonial and mercurial emetics, are almost quite laid aside, unless in very obstinate cases; and some fimple generally is new prescribed, only in power, as the ipecacoanha. The emetic tartar likewife, which used to be so much in vogue, is at present to be found only in such hands as are ftrangers to milder and

Folia Erigeri	Leaves of Groundfel.	Radices	Roots of
Linger		Scuilla	Squills
Flores	Flowers of	Ipecacoanhæ	Ipecacoanha.
Perficæ	Peach tree.	Minerale	Mineral
0	Seeds of	Borax	Borax.

Seeds of

Baftard faffron.

SECT. VIII.

Of Cathartics.

Somewhat may be understood ready said about emetics; the vel-concerning the operation of callication or irritation of the sibres

Semina

Carthami

thartics, from what has been al- and membranes being the fame in

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oi be both. But as the difference of the parts, in which their scenes of action are, makes a great deal of difference in the consequences of their operations on many accounts; therefore it may be farther necessary to know what a stimulus will do, in the intestines particularly.

The periftaltic or vermicular motion of the guts, is fuch as continually propels forwards their contents, from the pylorus down to the rectum. Now every irritation either quickens the motion in its natural order, or occasions some little inversions of it. In both, what but flightly adhered to the coats, or inner membranes, will be loofened and shook off, and carried forward with their contents; and they will also be more agitated, and thus rendered more fluid. By this only it is manifest, how a cathartic haftens and increases the discharges by flool; but the fame manner of operation also carries its effects much farther, in proportion to the force of the stimulus. For where it is great, all the appendices of the bowels, and even all the viscera in the abdomen, will by a consent of parts, that is, a communication of nerves, be pulled or twitched, fo as to affect their respective juices in the same manner as the intestines themselves affect their contents. The confequences of which must be, that a great deal will be drained back into the intestines, and made a part of what they discharge. And when we confider the vaft number of glands in the intestines, with the outlets of those vifera opening thereinto, and particularly of the pancreas and liver; it will be no wonder what vast quantities, especially in full constitutions, may be carried off by one smart purge.

It has been a prevailing notion, that there is some specific, or elective quality in cathartics, by which

fome are fuited to draw off, and expel fuch particular humours, and will not meddle with, or affect any other; and upon this notion it is, that they have been conslantly diflinguished in physical writers, by peculiar names expressive of their respective properties. Hence such an one is called a cholagogue, or purger of choler; this an hydragogue, or purger of water; and another a phlegmagogue, or purger of phlegm. But we cannot admit of any fuch conclusion; because no medicine under this denomination, how efficacious and furprizing foever in its operation, can act but mechanically; according to those laws of motion, which all other bodies are subject to: And therefore when the discharges by stool discover an over-proportion of any particular humours; the purge, to whose efficacy it is ascribed, is not to be supposed to have done it by any fuch election: but that there was either a redundancy of fuch a humour, whose discharge any common irritation would occasion; or that there was fome peculiar aptitude from the fibres and bulks of the medicine, to deterge those parts where they were lodged, and fet them in fusion. Thus in proportion to the proximity of some humours to the intestinal tube, and the disposition of the passages to convey them that way, they require greater or lesser vibrations, or shakes of the fibres, from a cathartic, to fetch them out. For this reason, the brisker cathartics, which vellicate the membranes most of all, pump out, as it were, from all the mesenteriac glands, and neighbouring parts, their contents; which parts, because they abound so much with lymphatics, and viscid watry humours, make the discharges thin and watry. Those which actina somewhat lower degree, yet irritate enough 30 The English Dispensatory improved. Part I.

enough to deterge and draw out a great deal of mucous and viscid matter; which fometimes by lodgment, and want of due motion, changing into various colours, occasions the different names of phlegm, or choler. As the former therefore pass for hydragogues; so do the latter for purgers of phlegm and choler.

Dr. Keil, in his account of animal fecretion, feems to favour this opinion of the ancients about elective purges, because it appeared to him folvable by his theory of attraction: but it is to be feared he transgressed his own laws when he makes the particles of jalap attract the aqueous particles out of the blood as it washes thro' the intestinal glands, by any other power than the particles of any other medicine would do it, in the like circumstances, that is endued with the fame mechanical properties. Whatfoever therefore has the fame properties, as by the effects it appears feveral medicines have, as jalap, it will purge water as much as jalap; and confequently deferve as much the name of a specific. But if it can be explained, as here it is hoped to be done, how fuch medicines are fitted by their manifest and mechanical properties to produce fuch an effect; then it must be much more instructive to rely upon fuch procedure, than to have recourfe to an imaginary agency, which puts the understanding in confusion.

Upon another account also, befides that of a stimulus, a cathartic answers its intention; and that is by suffing the humours, or rendring them more sluid than they were before; whereby they are better sitted to pass off at their proper emunctories. And how this is done, may be understood from many hints already interspersed in

this work. Those which consist of very fubtile and active parts, are not fo fenfible in the larger paffages; because of the great quantities of matter which lay too great a load upon them, and make them unheeded; but when they are got into the blood in any confiderable number, they divide and fuse those cohesions which obstruct, or move heavily in the capillaries, and fcour the glands; infomuch, that every pulfation throws fomething thro' the intestinal glands; which goes off by ftool, and which the refluent blood washed away, and brought back from all parts of the body. Of this kind are all those cathartics which are prescribed in rheumatisms and are faid to purge the joints, and arthritic pains; as the radix turpethi, and all the aloetics. It may not be amiss here to observe, that the reason why cathartics of this fort are so easily changed into the most efficacious alteratives, is because an alterative is a cathartic. in this fenfe, in a lower degree, or of a more remifs operation. Whatfoever brings fuch particles to a fecretory office, as are fitted for passing it, oftner than usual, either by accelerating the blood's motion, or breaking it into more particles of that particular fize and inclination, will increase that secretion. According therefore to the difference of the parts, where fuch fecretions are enlarged, as in the glands of the intestines, kidneys, or skin, are the medicines which are instrumental therein, termed either cathartics, diuretics, or diaphoretics.

Farther, another way of promoting the discharges by stool from fusion, or rendering the humours more fluid, is to mix such particles with them, as prevent their running into viscid cohesions; and by degrees divide and break them when

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Universitäts- und Landesbibliothek Düsseld in contact; whence they are rendered fitter to run off by the most convenient outlets. This is done by fubstances which have parts rigid, grofs, and full of afperities; and these are many kinds of falts, and tartarous medicines. For by experiments easy to be tried, those bodies being mixed with any thing tenacious and adhesive, will destroy fuch properties. Thus, let any one mix a few grains of falt of tartar with the extractum rudii, which of itself is fo tenacious as to draw out into any figure; and it will immediately run into almost a dry powder; and crumble fo as not to be capable of being made into pills. To the quantity of this falt also in Matthews's pill, as it is commonly called, is owing, that the

mass is so difficultly made up into pills. Likewife all tenacious and mucilaginous bodies of much thinner confiftence, will by the like means be rendered much less adhefive, and more disposed to fluidity. Cathartics of this fort are generally too gross to pass the lacteals; and therefore their influence extends no farther than the primæ viæ; that is, the flomach and bowels. After this manner cream of tartar, with its crystals, which differ not much from the former, manna and all the milder purgers, operate; that is, by feparating and keeping from contact and cohesion, the several contents of those parts, which ren-der them so sluid, as to run off fooner, and in larger quantities by stool, than otherwise they would do.

Class I. The Milder Purgers.

	Clais 1. 100	iviliaer Purg	ers.
Folia Senæ	Leaves of Sena.	Pruna Tamarindi	Prunes Tamarinds.
Fungus Agarici Flores Rofar, Dam, Violarum	Excrescence Agaric. Flowers of Damask roses Violets.	Aloes Manna Radices	Juices Aloes Manna. Roots
Fructus Cafia fift. Myrobalani	Fruits Cafia Myrobalans,	Hermodaciyli Mechoacanne Rhabarbari Turpethi	Hermodactyls White Jalap Rhubarb Turbith.
E.I.	Class 2. R	ougher Purge	ers.

		Such T migh	
Folia Chamædaphnes Lini cathartici	Herbs of Spurge laurel Mountain flax.	Elaterium Scammonium	Elacterium Scammony.
Semina Cataputiæ	Seeds of Spurge.	Cortex Alni nigræ	Black alder.
Fructus Colocynthis Rhamni Bac. Gummi Gambogia	Fruits Bitter Apple Buckthorn berry. Gums	Radices Ellebori nigri Jalapii Ibapfiæ	Roots of Black hellebor Jalap Deadly carrot.
aumoogia	Gamboge		SEC

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SECT. IX.

Of Sternutatories.

THIS is a way of application in medicine feldom made use of, but to loosen and drain away such humours by the nose, as are not well to be come at by other means. A very little part therefore of the materia medica falls under this division; altho' many volatiles and aromatics are used for this intention; which, by reason of other more important properties, are ranked under other heads: what we have subjoined here, being hardly made use of in medicine for any other purpose.

How a medicine occasions sneezing, is not at all difficult to understand, to one who has considered well the manner by which emetics draw the flomach, and its appendices, into that motion which is obferved in vomiting. The fibres and membranes withinfide the noftrils are extremely fenfible; whatfoever therefore stimulates them, makes them centract, and thereby twitches those parts they have any communication with; which by degrees brings on that general convultive shake, that throws off the irritating matter. Every one's own experience demonstrates, and best explains to himfelf how this is produced; and likewife manifests the great influences which may be communicated over the whole body, by the communication of fibres from an almost unheeded fensation upon the least part.

The falurary effects of this forcible concussion of the whole body, are very considerable. There are many glands about the head, destined for the separation of very viscid and mucous substances; by

which means many finus's or cavities, of fervice in the economy, are frequently stuffed fo with such matter, as not to give that room to fome of the vessels, which it is their office to do: whereby the circulating fluid in some parts makes them too turgid: which upon many accounts will occasion uneasy fensations, pain, giddiness, and other distempers, frequently experienced in the head. By a particular conformation, the nofe receives and discharges many such superfluous viscidities. Therefore a stimulus, from what we call sternutatories, or common fnuff, will provoke those parts to increase those difcharges; whereby a troublesome load is drawn off, and the head rendered brifk and lightfome.

But, besides the benefit which the head immediately receives from fuch a difcharge, the whole conftitution is likewise so sensibly affected, that in many cases it is of use as an exercise. There is no motion whatfoever, not even that of vomiting, which fo fuddenly and forcibly shakes the whole nervous fystem; so that in all obstructions of the finer passages, and particularly of the nervous fluid, whatfoever produces fneezing must be of great advantage. And common experience in practice confirms this in many inflances of paralytic, apoplectic, and lethargic cases; where this motion rouses and enlivens, as it were, the spirits; and by shaking the most remote fibres, assists their proper juices in circulation, which before feemed to flagnate, or not to irritate the fibres enough to maintain their natural

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Of Narcotics,

elasticity. And of fuch great efficacy is this convulsion, that it is fometimes procured on purpose to affift the expulsion of the fœtus; and with good success.

How far the custom of taking fnuff, as it now prevails, is ferviceable or detrimental, is not directly to our purpose to determine; but thus far it may not be amis to inform those who comply so much with it as a fashion, that they put it out of their power to receive any benefit from it as a medicine; whenfoever there may be occasion for fuch helps: for continually stimulating those parts with hot pungent fuuffs, makes them by degrees grow as it were callous, and much less sensible; which all fnuff-takers experience, being not provoked to fneezing, if they take ever fo much; when one pinch of the same would immediately ope-

rate upon a stranger to it. There is another inconvenience also from this practice; and that is spoiling their appetite: for most of the common fnuffs are tobacco, of one kind or other; wherefore fome will pass down the throat into the flomach; especially in those who take much; which destroys the natural appetite, as many confess they find by experience, altho' they cannot be prevailed with to leave it off. For fuch who imagine the continual taking of fnuff to be neceffary, or beneficial, to them, many things in liquid forms would much more properly answer their intention; such as fal volatile oleofum, diluted with fomething proper, where it is too ftrong by it-felf. But 'tis to be feared no falutary regard can obtain fuch a reformation, unless that idol, fashion, would vouchfafe its fanction.

Primulæ veris Afari Ellebori albi

Leaves of Prim rofe Afarabacca White hellebore

Nicotiana

Tobacco.

Euphorbium

Gum Euphorbium.

SECT. X.

Of Narcotics.

clude all that part of the materia medica which any way produces fleep, whether called by this name, hypnotics, or opiates. These substances produce their effects by relaxing the veffels, allaying spasms and irritations, and rightly rarifying the juices of the stomach. Hence they give ease in pains occasioned by irritation, and restrain immoderate evacuations proceeding from the same cause.

By not understanding the manner in which these medicines act when they check immoderate fecretions,

NDER this head we'in- physicians have been led into wrong methods, and given opiates to flop those discharges, in which there are no fpafins or painful irritations; as particularly in the colliquative diarrhea's, attending hectic fevers: whereas it is manifest. opiates must in such cases (without the defired effect) do real mischief, by relaxing the fibres, and heating and rarifying the fluids, already too thin and broken in their texture.

On the other hand, thefe medicines by this fame property (whereby they take off cramps in the nerves, and thus cure excretions depending

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depending upon them) will very the fœtus, and the lochia. From the rarefaction which opium occasions of the juices, proceeds they are unfeafonably interrupted that difficulty of breathing, which by violent contractions. Thus opithey for a time experience who ates in nephritic pains, move the take this kind of medicine; this urine stopped by gravel and symptom being inseparable from stones; and, in uterine cases, assist the rarefaction of the blood in the nature in propelling the menfes, lungs.

Folia Cicuta Mandragoræ Nicotiana Solani Strammonei

Herbs of Hemlock Mandrake Tobacco Nightshade Thorn-apple.

Fructus Nux vomica Cap Pap. alb.

Fruits Fruits Vomit nut White | poppys ngr. Black Sheads.

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Flowers of Wild poppies Cowflips

Succi Meconium Opium

Tuices Meconium Opium.

SECT. XI.

Of Coolers.

in medicine as any class of fimples; being of flight efficacy, and used for no important intention; and feldom prescribed any otherwife than as palliatives, or to mitigate the uneafy fensation of fome particular fymptoms, more than to cure the difease whence they arise.

All of this rank may be confidered under the two following divifions: the first are fuch as immediately produce a present sense of cold. These are chiesly fruits and acid juices; and are most commonly ordered to cool the mouth and stomach, and allay that extreme thirst, which an inflammatory fever is apt to occasion. What comes any farther effect, than giving a grareful fensation to those parts, (which were before uneasy with

HESE are as little regarded heat and drought) unless they are taken down in large quantities; and then they may, from a fudden chilnefs, make fuch an alteration in the pulfation of the fibres, as will shock the whole constitution. And this is in effect fo much in the experience of every body from fuch things one time or another, that it needs no larger explications; only these two consequences are most likely to happen; viz. such convulfive contractions of the veffels may either obstruct their contents, and thence cause stitches and inflammations; or may fo fuddenly retard the circulating juices, as will dispose them to undue cohe-

fions and confiftencies. The other kind of coolers are n under this intention, feldom has fuch, as by their viscidity are difposed to communicate the same quality to the animal fluids, with which they are mixed. Thefecan be

prescribed in no falutary intention, unless to check the inordinate celerity of the blood, which arises from a debauch with spirituous liquors; or to give a thicker con-fifence to that of hectic conflitutions; whereby it may be reftrained from flowing too fast. But in both cases there is a great deal of hazard from the fame means; because the diminution of the blood's velocity cannot fo exactly be restrained, but it may be carried too far, and prove

too great: whereupon fuch fubstances, for want of due motion from circulation, will fall into one which is fermentative; and fo by allaying one heat, raife another of much worfe confequence. Thro'this error. coolers in the hands of injudicious persons, frequently change simple inflammatory fevers, which would perhaps foon go off by a critical diaphorefis, into putrid and malignant ones, which often terminate in death.

the state of the land
Folia
Acetofae
Agni casti
Alfines
Anchuse
Cichorei
Cuscutæ
Endiviæ
Lujule
Lentis palustris
Date !
Populi
Portulacæ
Lactucæ
Salicis
Sedi
Sonchi lavis
Spinachiæ
Taravaci

Umbilici mur.

a too iai, and prov
and one with the
Leaves of
Sorrel
Agnus castus
Chickweed
Alkanet
Succory
Dodder
Endive
Wood-forrel
Ducks-meat
Poplar
Purflain
Lettice
Willow
House-leek
Sow-thiftle
Spinach
Dandelion
Wall navel-wort
THE RESERVE THE PERSON NAMED IN

Sem. Cannabis	Hemp-feed.
Fruetus	Fruits
Agresta	Wild grapes
Aurantia	Oranges
Limones	Lemons
Citrea	Citrons
Cucumeres	Cucumbers
Cucurbitæ	Gourds
Groffulariæ frutt.	Goofberries
Mala Armeniaca	Apricots
Perfica	Peaches
Hort. omn.	All orchard apples
Sylv.	Crabs
Melones	Melons
Mori fruct.	Mulberries
Olive	Olives
Ribefice	Currants

SECT. XII.

Of Topics.

. N this division the reader will into this rank, are fo few, without meet with feveral of the fimples, foregoing heads for fome internal intentions; but the great share they have in external applications, materials which necessarily come sible. possile was communicate the fame

fuch as for more important efficawhich have been placed under the cies have been already taken notice of in some other, that we have made the number of fubdivisions expressive of the intentions of may justify such repetition. The what they contain, as small as pos-

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Class I. Of Repellents.

To understand rightly the operation of fuch fimples as will occur under this head, it may be neceffary to observe, that by repelling is meant those means which prevent fuch an afflux of a fluid to any particular part, as would raife it into a tumour: But to know how this may be effected, it will be convevenient to attend to the feveral causes which can produce a swelling, or force out of the veffels any of their fluid contents by fome un-

natural discharge.

All tumours have necessarily one of these in their cause; either an increase in the velocity or quantity of the fluids; or a weakness in fome particular part; and fome-times both concur. An increase in the velocity of the sluids makes them more forcibly push against, and distend all the parts in their circuit: if therefore any part be unequally preffed, or relaxed, by external injuries, that will be more elevated than any other; and for ceive fuch a quantity of fluid, as will raise it into a tumour; especially if any of its veffels be obstructmatter à tergo will continue to add thereto, until the part is upon the utmost stretch, and can hold no more. In this cafe all those means are faid to be repellent, which

But it concerns us most here to know, how external application to the part itself, helps in this affair.

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Now a medicine comes to be a repellent in this case, by consisting of fuch fubtile parts, as may transmit some of them thro' the pores, and help to render the obstructed matter more fluid; fo that it becomes the more easy to be loosened and fall again into the circulating current. But in this case there is a hazard of such things, likewise putting the obstructed humour into a ferment; whereby it fooner turns into pus, and then they come under the denomination of suppuratives or ripeners. What therefore, in the most strict sense, is to be reputed a repeller, is that which astringes and strengthens the part, fo as to make it refift fuch lodg-ments. These are such, whose virtues refide in their coldness, and drying properties. But there are fo very few inflances wherein bandage is not better than fuch applicawant of equal refishance with the tion, that very little comes to be rest of the body, will at length rerhages and ouzings out of ferum. fo as to deform the skin, simples of this nature mostly take place; ed : Because the protrusion of fresh which answer their ends by aftringing the fibres; whence those apertures are fo closed, as not afterwards to admit thro' them any fuch

Some things also answer this check the growth of the tumour; end, only by stimulating the fibres and affift the refluent blood in tak- of the tumefied parts; fo as to ing up the obstructed matter, and give them sudden and forcible washing it again into the common twitches, whereby the obstruction ftream. This intention is chiefly is fometimes loofened and shook, favoured by evacuation and revul- as it were, away into the refluent fion; for whatfoever lessens the current. Such a fort of motion quantity of the fluid, will diminish will be occasioned by the fudden the force upon the tumefied part: application of any thing extremely

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practice is feldom fafe; because, if the first efforts, which the fibres are put upon by those means, do not fucceed in breaking away the inclosed matter, they will be ftrained, and not able afterwards to repeat their natural vibrations; the confequence of which is

cold, as common water: But the weakening the part, which will render the tumour more obstinate. There are many other means and accidental circumstances, which contribute to favour or retard this intention: But these hints may be fufficient; especially for a part which cannot be allowed any great length in this work.

Albumen Ovi Lapis Calam. Ceruffa Litharg. aur. Manus hominis mortui Manus regalis

White of an egg Calamine White lead Litharge of gold A dead man's hand The royal touch

Minium Tutia Pompholyx Sedum Spodium Tela Aranear.

Red lead Tutty Pompholyx House-leek Putty Cobweb.

Class 2. Of Ripeners and Drawers.

mighty importance in chirurgery, but there are very few who well weigh the confequences of the operation in those medicines which are prescribed to answer it, nor the accidents to which they are liable. For a ripener or drawer is what, by the activity and warmth of its parts, is able to penetrate the pores, and mix with and rarify any obstructed matter, fo that it may be rendered fit for discharge upon laying open the part by a caustic or incision. Now in many instances, as the matter by this means rarifies blood is apt to wash it back into the common mass; which some-

This intention is frequently of times is of that nature, as to do a great deal of mischief; or by making it take up more room upon its rarefaction, occasions it more to diffend the parts in which it is contained, whereon a fense of pain is excited, and thereby a greater concourse of fluid, and consequently a needless increase of the tumor. So that medicines, under this denomination, require to be in the hands only of fuch, who are fo well acquainted with the mechanism of the animal economy as to be able to apply them to the best advantage, and know how to and grows more fluid, the refluent avoid the hazards which may arise from their abuse.

Adeps Anseris Fat of a goose Canis a dog Hominis a man Viperæ de a viper Finus Columbæ Pigeon's dung Refina Vaccae Cow's dung Sevum Cerv. Deer's fuet
Furfur Bran Bovinum Ox's fuet
Flos Cerevifiae Yeaft Ovin. Sheep's fuet Halec An herring Thus A leech Hirudo D 3

Melilotus Nicotiana Oleum Ovin. Sheep's fuet

Melilot Tobacco Oil Pix Burgund. Burgundy pitch Navalis Common pitch Frankincense.

Class

Class 3. Of Detergents.

The operation of all topics of ries, page 20, and the following of fourth fection, concerning vulne-

this denomination, may be under- detergents, page 21. The reader is flood by what has been faid in ex- therefore defired to turn back plication of the third class of the thither, for what concerns this

Ærugo Æris Album Græcum Gum. Elemi Os Sepiæ

Verdegreafe White dog's dung Elemi Cuttle fish bone

Vitellum Owi Terebintbina Balf. omnia

Yolk of an egg All turpentines and balfams.

Class 4. Of Caustics.

fire itself, tear asunder all obsta- place here. cles, deltroy the texture of the

These are such things as by their violent activity, and heat thence occasioned, destroy the texture of the part itself to which they are applied; and eat it away, as we commonly express it, or burn it into an eschar. And they differ from the former pretty much, as the violetian very solids themselves, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what they are applied to, into a substance like burnt sless, and change what are applied to, into a substance like burnt sless, and change what are applied to a substance like burnt sless, and change what are applied to the piperine volatiles do from those to eat thro' to the suppurated matof the garlick or onion kind; as ter, and give it vent; and also to was before observ'd. Ripeners and make iffues in parts where cutting detergers have fomething foft and is difficult or inconvenient. We fmooth in their composition, which have ranked some things under this guards them against wounding the head, which do not come up to fo fibres themselves, tho' it does not great a degree of efficacy as to hinder their volatility; but in those make an eichar; but because they we call caustics, the volatile parts are able to raise the slesh into bliare altogether unguarded by any sters, and make considerable changes thing of that kind; and by their by the fame manner of operation. extreme minuteness, asperity, and in a more remiss degree, we thought quantity of motion, like those of it most proper to give them a

Calx viva Cantharides Gataputia Lepidium ! Euphurbium

Quick-lime Spanish flies Spurge Geffyp. uft. Cotton, burnt on Spongia the part

Moxa, burnt on the part Siliqua birfuta Cow-itch Dittander Tithymalus Spurge Soap Soap Sponge.

TO E they receive from the extreme For that manifelly to

SECT. XIII.

Simples omitted, or not reducible under the foregoing Heads.

Amonum
Amoris pomum
Amylum
Arbor vitæ
Alca
Arca
Arfenicum
Arundo
Afphaltus
Afphodelus albus

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White afphodel

Balfamita mas Bamia mofebata Beben radix Butyrum Cafeus Conyza Copal

Cyamus

Coffmary
Mufk mallow
Behen root
Butter
Cheefe
Flea-bane
Gum copal fo
called
Blue bottle.

Cerevifia, Ale. Under this article is intended all that belongs to potable malt liquors: And these may be considered under the following divisions; 1. Hopped and unhopped drinks. 2. Small or strong. 3. Pale or brown. And, 4. New and old.

1. The difference made by hops is best discovered from the nature of the hops themselves. These are known to be a fubtile grateful bitter. In their composition therefore, with this liquor, they add fomewhat of an alkaline nature, that is, particles which are fubtile, active and rigid. By this means the ramous viscid parts of the malt are more divided and spiritualized, if we may use that term; and therefore not only more easy of digestion and secretion in the body, but also, while in the liquor, prevent it from running into fuch cohefions, as would make it ropy, vapid, and four. But for want of this in unhopped drinks, that clammy fweetness which they retain after working, foon turns them acid and unfit for use; which is sooner or later, in proportion to the firength they receive from the malt, and the comminution it has undergone by fermentation. It is much in the opinion of some that ale is more diuretic than beer: that is, unhopped liquor more than that which has hops in it. In some particular conflitutions it may fo happen, because ale is more smooth, foftening, and relaxing; and therefore where urine is to be promoted by enlarging the passage, that is most likely to do it: And this is mostly the case of thin dry constitutions. But where the promotion of urine is to be made, by attenuating and breaking the juices. and rendering them more fluid, it is certainly best answered by those drinks which are well hopped. As to the controversy whether hops tend to breed the stone, it is too long here to enter into, and feems to have little foundation on the affirmative fide: But thus far we may venture to fay, where one instance can be produced, of any probability for such an effect from this cause, there may many more be brought, which can admit of no doubt, where conflitutions have been spoiled by ale on the contrary extreme. For that manifestly fouls the glands, ftuffs the vessels with flime and viscidity, makes the body unweildy and corpulent, and paves the way for cachexies, the jaundice, assume as and at last incurable dropsies. The urinary passages, which likewise it is imagined to clear, it will by degrees fill with slough, and matter of as bad con-

fequence as gravel

2. The strength of these liquors, makes them of different efficacies, as to any medicinal regards. The stronger they are, the more viscid parts they carry into the blood; and although the spirituous parts make these imperceptible at first, yet when they are evaporated or gone off, which will be in a few hours, the other will be fenfibly enough felt by pains in the head, pauleoufnels at the stomach, and laffitude, or liftlefness to motion. This those are much the best judges of, who have experienced the extremes of drinking of thefe liquors, and of wines: for a debauch of wine they find much fooner wear off: And they are more lively and brifk afterwards, than upon overtipling malt liquors, whose viscid remains will be long before they can be shook away. These liquors therefore are much the more wholefome for being fmall, that is, of fuch a strength as to carry some fmall degree of warmth into the flomach; but not fo as to prevent their being proper diluters of our necessary food. People of robuft conflitutions, who labour very hard, may dispense with reasonable quantities of the strongest, efpecially as their food is frequently poor and flender enough, the deficiencies of which this supplies; and their continual exercise and strength of body, digests and breaks the viscidities of the drink into convenient nourishment : Altho' in persons of another habit, and way of living, they would only produce obstructions and ill humours.

2. Malt drinks are diffinguished into pale or brown, from the malt they are brewed with. That which is flenderest dried, makes it less tinge the liquor in brewing, and therefore is called pale; whereas that which is higher dry'd, or roafted as it were in comparison of the other, makes it of an higher colour: and a mixture of both, of an amber, which name likewife feveral of those liquors bear, The pale malt has certainly most of the grain in it, and is therefore most nourishing; but also for that very reason requires a strong conflitution, fufficiently to direct it. Those who drink much of it are generally fleek and fat in the bloom of their age: But if they are not fuddenly cut off by fevers, as they generally are, they fall very early into a distempered old age, and hardly support the burden of life, with a retinue of difeases. The brown makes a drink much lefs viscid, and fitter to pass the several strainers of the body; but what is very ftrong of it may be used in excefs enough to bring on the inconveniences of the former, tho' a fingle debauch with it much more cafily wears off. How far it may be an useful hint to those who find their accounts only in the profits of brewing, I cannot be a judge; but for the health of the confumer, I can venture to affore him, that the pale malt brewed with hard waters, fuch as those of springs and wells, is the best: Because the mineral particles, with which they are impregnated, will help to prevent the cohefions of those drawn from the grain, and enable them to pals the proper fecretions the better; as the vifcid particles of the grain will likewise defend them from doing the mischief, which* which otherwise they might occafion. But softer waters, as river and rain waters, seem most suited to draw out the substance of high dry'd malts, which retain many igneous particles in their contexture, and are therefore best in a smooth vehicle.

4. The age of these liquors is the last thing we are to consider, by which they become more or less wholefome. And this feems to do fomewhat the fame as hops: For those liquors which are longest kept, are certainly least viscid; age by degrees breaking the vifcid parts, and rendering them smaller, makes them fitter for fecretion. But this is always to be determined by their firength; because in proportion to that, they will fooner or later come to their full perfection, and likewise to their decay But when ale or beer is kept until its particles are broke and comminuted, as far as they are capable, then it is always the best; but beyond that it will continually be upon the decay, unless the finer fpirits quite make their efcape, and the remainder becomes vapid and four. By what therefore has been already faid, it will appear that the older drinks are the most wholsome, so they be kept up to this standard, but not beyond

There is so much of use might be said upon this head, because these liquors have the greatest share in our way of living, that it would

Mel Honcy Ova Eggs Palma olcofa Palm-oil tree Panis Bread Petroleum, et Rock oil oleum terræ Saccharum Sugar Salep Salep Spiritus vini Spirit of wine Serum Whey

exceed the bounds we have fet ourselves. We shall therefore only make this fairther observation, that those whose fortunes permit them to intermix wine with their common drink are not so subject to coughs, with other distempers of the breast, and dropsies; yet they are more afflicted with gravel and arthritic pains.

We have not here given wine a diffinct article, because it is a foreign liquor; and this work is professedly calculated for our own country: However, as it is fo much in our common drink, amongst the higher order of people especially; it may not be amifs to observe, that the stronger wines feem much the more agreeable to English constitutions; but where they are too frong when neat, they may be diluted with water. These by their spirituousness conduce to the digestion of the gross food of our country, especially the great quantities of fiesh we cat; and are the more necessary by reason we eat but little herbs. But the thinner wines, tho' they are most grateful to the stomach; and less disorder the head, yet they carry a tartar with them into the blood, which they leave behind in the mucilaginous glands of the joints; where it occasions those racking pains of the gout, and fometimes, by degrees, takes away the use of the limbs, fo far as to reduce persons to the state of cripples.

Sperma ranarum
Succinum
Tartarum
Vinum
Urina hominis
waccæ
Tribulus aquaticus
Zibethum

Frogs spawn
Amber
Tartar
Wine
Urine of a man
of a cow
Water caltrops

Civet.

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SECT. XIV.

Of Waters.

WATER is fo useful and neceffary an article, with regard to diet and medicine, that we cannot be too inquisitive into its nature and difference; or too follicitous in our choice of it. It is the main diluter of our food, and is the better for that purpose, the freer it is from the mixture of any foreign particles. But as it is not to be met with unmixed with fome heterogeneous particles, we shall be better instructed how to use and chuse it for the purposes of life, by inquiring how it is altered and affected by the mixtures it receives of fuch foreign matter, in the feveral conditions, we meet with it.

In this fearch we find the best helps from fome short hints (and such only we have room for) of Dr. Mead's, in his last Essay on Poisons.

Water is of fo conflant a fervice, not only for our drinks, but also in preparing our flesh and bread, that it may justly be said to be the vehicle of all our nourishment: So that whenever this happens to put on other properties than are necessary to fit it for that purpose, it is no wonder if in its passage thro' the body these do make suitable impressions there.

Whatever nature, the gross particles with which the water is saturated, are of, metallic, earthy, faline, &c. these according to their various gravity, the capacity of the canals, and such like circumstances, will, when they come to circulate in the animal body, be by the laws of motion deposited in one part or other.

These foreign matters, mixed with the fluid, very sensible increase its specific gravity: And for this reason, the choice of water for drink amongst the ancients was made by weight; the lightest being preferred, as most free from

all heterogeneous bodies.

A late author, Dr. J. H. in a book called, Scelera Aquarum, or a supplement to Mr. Graunt on the bills of mortality, by fearthing into the first accounts of the distemper we call the fcurvy, defcribed by Pliny and Strabo under the promiscuous names of stomacace and fceloturbe : and examining the authentic histories of it in later years, made by the most observing physicians in those countries where it was unhappily revived, as Olaus Magnus, Balduinus, Ronfeus, J. Wierius, Solomon Albertus, &c. finds that the origin of it was in all times and places charged upon the use of unwholsome stagnating waters. Then by comparing together the clayey firata of the earth about the cities of London, Paris, and Amsterdam, he shews, that where the water is worst, there this malady is most rife. So that he has made it probable, that most of the perplexed and complicated fymptoms which are ranged under this one general name, if they do not entirely owe their birth to the malignity of this element, do however acknowledge it to be their main and principal cause.

And indeed Hippocrates himself, as he has very plainly described this disease by the title of σπλκης μιγάλη, or great milts; so he does

take notice, that drinking of stagnating well-waters must necessarily induce an ill disposition both of the milt and belly.

If we enquire into the reason of fuch ill effects, we must consider that clay is a mineral glebe, and that the grofs particles and metallic falts with which waters paffing thro' fuch a bottom do abound, are not to be maftered; that is, they are indigestible in the human body. Not only therefore will these cause, as he very well argues, calculous concretions in the kidneys, bladder, and joints; and, as Hippocrates experienced, hard fwellings in the fpleen; but they must neceffarily oftentimes by their corrofive quality twitch and irritate the fensible membranes of the stomach and bowels. Nay, befides all this, when they come into the blood, it is no wonder if the fmall canals of infensible transpiration are frequently flopt up and obstructed by them: For it is upon this score that Sanctorius teaches us, in his Medicina Statica, Sect. ii. Aphor. 2. that heavy water converts the matter of transpiration into an ichor, which being retained, induces a cachexy.

What mischiefs will ensue hereupon, every one fees; not only pains in the limbs, livid fpots in the furface of the body, ulcers, &c. from the acrimony of the undif-charged moisture; but many also of those perplexing symptoms, which go by the name of hysteri-cal and hypocondriacal, may take their rife from the same source: For the before cited Sanctorius has remarked, in Sect. iii. Aphor. 13. that the flatus or wind, fo infeparable from those cases, is no other than the fluid of perspiration, rude and unfinished. If the inconveniencies are oftentimes not felt, at

very particularly in another treatife least not till towards a declining age, in strong and active habits of body; yet they deserve consideration in weaker constitutions and a fedentary life, especially of the more tender fex.

For these reasons Pliny tells us, that those waters are condemned in the first place, which when boiled do incrust the fides of the vessels: And that our well waters do this. nobody can be ignorant. The ancients were remarkably curious in their choice of waters, holding it an article of the greatest moment; this we may easily be convinced of from Hippocrates, who not only endeavours to account for the difeafes, but even for the temper and disposition of the people of feveral countries, from the difference in the waters with which nature hath supplied them.

AQUA FONTANA, fpring-water. By the course of this, we are liable to a mixture, in one fort or other. of all the metalline or mineral particles which lie concealed in the earth. For the water of all fprings, that is, all waters which are circulated or strained, thro' the earth, (and which we call fprings when they break out upon the furface) wash off and carry along with them some particles of the soil they travel through; fo that they become falubrious or mischievous. according to the nature of the mineral matter which they have taken up and joined with in their course. So far as this answers any medicinal purposes, and makes the water in any respect purgative, will come under inquiry in the article of acidulæ. Here therefore we have only occasion to be fatisfied what are best, as they must necessarily make a part of our diet; and thefe are the lightest, as the precedent reasonings demonstrate, and such as are freelt from mineral mix-

That fpring-waters are thus loaded in their current, cannot be doubted by those who have ever experienced the tafte and efficacy of our ordinary medicinal springs: And tho' our own country furnishes us not with any fuch inflances, unquellionable authority informs us of fome fprings which bring along with them poisonous and deadly companions; which must be corrofive corpufcles mixed with the water, that cannot fail (when forfaken, in the canals of the body, by their vehicle) to do the fame mischief as they would if taken by themselves undiluted; Only with this difference, that they may in this form be carried fometimes farther into the animal frame, and fo discover their malignity in some of the inmost recesses. Thus the fons Pliny, about which abundance of native minium or cinnabar was found, shewed its ill effects chiefly on the brain: Which gave occafion for Ovid to fay of it,

Si quis faucibus haufit,
Aut furit, aut patitur mirum
gravitate soporem.

But there is no need of enlarging farther on this head, fince any mineral poison may impart its deadly quality to perfluent streams. And accordingly there are instances of arienical, mercurial, and other fountains, of which the histories may be seen in the collection of Baccius de Thermis, lib. vi. and a very remarkable one in the Philosophical Transactions, No. 8.

We are taught many curious ways of trying what are the principal mixtures in these waters, which must be of great use to such as travel in unfrequented countries, and

where necessity often forces them to unexperienced fprings: But that would be too long for us here; We shall therefore only drop this general rule, that those waters are best for use which are lightest; and this may be determined with the utmost exactness, by weighing other convenient bodies in them, which we are taught by the common hydroflatical fcales, now any where to be had in the shops. The common experiment of trying them with foap is also useful; for the more remote they are from lathering with that, the more unfit they are for use. Those springs which arise from a chalky earth, are generally accounted best, which may be either for its not giving to the waters any thing unwholfome, or its absorbing many mineral particles from them in their percolation.

There may circumftances happen, where fpring-waters shall be found of good fervice drank alone. In some stomachs, relaxed from intemperance, these drank in a morning, not only help to wash off a great deal of flimy filth, the remains of a debauch, but also to aftringe the fibres, and draw up the membranes to a due tenfity. And the more loaded fuch waters are with fome mineral particles, especially of the aluminous or nitrous kind; the more abstersive and more restringing will they be, and the better answer those intentions.

AQUA FLUVIALIS, river-water, this likewife has its various qualities from the different foils it travels through, tho' not fo much as that of fprings. The river-waters may be reckoned a composition of fpring and rain waters together: Near the head therefore of any considerable fpring, they may partake much of the mineral, which that spring washes along with it; but at a greater distance may be suffered.

affected and charged with its proper foil. For in its progress the mineral particles will fall, or be entangled and loft in the ouzy and clayey mixtures they pais through. As the fpring-waters take up in their meanders many heavy mineral particles, fo thefe either wash up from ouzy bottoms, or have fo much filth drained into them, especially near large towns, that they abound with a foreign matter of a very different nature, and which fometimes will ferment: As is manifest in that of the Thames, tho' fome travellers affirm no other waters do the fame. Of this kind therefore, those which come into use with such mixtures may be more or lefs convenient in particular cases and constitutions, according to the nature of what they have got fo mixed. But in the general, thefe waters are much fofter than fuch as run underground; and therefore are fitter for use, where hard waters are con-

Aqua Pluvialis, rain-water. This is reckon'd the most simple of all, and to come nearest to a homogeneous fluid : and therefore, as a diluter, is to be preferred. Quercetan, and many others, lay stress upon the circumstances of these falling, whether fuddenly or more flow, and from what quarter of the heavens the clouds bring them: But this feems to be as little to the purpose, as under the former articles, what parts, fprings or rivers run from, as to the divisions of the globe, and their position to the sun. Some are of opinion, that rain-water brings fomewhat of a nitrous volatile falt along with it, and think, by that means, it gives fertility to the earth; if it does fo, these particles must be too fine to injure any of the fecretory strainers, by obstructing them, and too active or susceptible of motion to draw

into contact, and form hurtful concretions; and indeed in many inflances such a mixture might be of fervice: Therefore whatsoever rain-water brings along with it, it is notwithslanding certainly the most simple and elementary of any, and the properest diluter or vehicle that we can be supplied with.

AQUA PUTEALIS, well-water. This is subject to all the inconveniencies of fpring-water, with this additional mischief, that stagnating fo long in the well, it may there take up from the bed it lies upon, fuch particles, farther than what it brought along with it thither, as to render it still more unwholfome: Whereas that which breaks out in fprings, is preferved higher than fuch heavy matter is usually lodged. Of all waters therefore whatfoever the well-waters are most to be diftrusted; and of those, such as come out of the deepest wells.

AQUAPALUSTRIS, pond-water. This may include all flagnant waters, which are generally from rain only, for here we do not suppose any fprings concerned. To this therefore no more can be faid than, that where it is upon a clean bottom, it comes fo near to the rainwater, as not to be distinguished from it: But generally even the motions of wind, or fome other causes, as the treading of cattle, fo disturb these, as to force up with them fuch filth, as there corrupts and ferments, which makes fuch waters the most uncleanly and difagreeable of any.

AQUA NEVEALIS, snow-water. This is supposed to bring a considerable portion of nitre along with it, so as to make it detersive and diuretic. But it comes so little, either into our diet or medicine, that we need not be very sollicitous about it. As for what washes into the rivers, and accidentally

comes

comes to us that way, after the fall of great fnows, it is loft fo much, that it can hardly be imagined to communicate any efficacy to the share we have of it.

AQUA MARINA, fea-water. The faltness of this is sufficiently known, and how upon that account it is both disagreeable and unwholesome in our food; and therefore never experienced but in extremities.

- Ros Maialis, May-dew. This is what falls in the night, and hangs upon the grafs next morning in fmall drops. It is extremely fubtile and penetrating, from a volatile nitre of the air, with which it abounds. Etmuller fays, in digestion it will, as it were, ferment; and in distillation afford a spirit of a fulphureous empyreumatical smell, and that the refidue will fwell and ferment of itself. Several people have strange notions of the subtility of this, and have flattered themfelves with obtaining from it an universal dissolvent. Johannes Faber feems to take great pleafure in contriving an inflammable fpirit to be drawn from rain-water; and as this is yet of a more volatile nature, expectations have been raifed of doing strange feats with it. But all that these great promisers have hitherto done, is not worth our notice; fince they have not been able to preferve to us one medicine out of all their pretenfions. Some country people have learnt a way of mixing it with powder of brimstone, for the itch, to be used outwardly; and many instances they give of its fuccefs in fuch cases. has the repute too, amongst the women, of being a cosmetic.

ACIDULE, medicinal waters.
These have been taken notice of
in all ages and countries, and have
gone thro' various opinions, in accounting for their virtues and ef-

ficacies, according as the humour of philosophizing has happened to run. Helmont, and his disciples, have strangely spiritualized upon this head, as on most others; and talk much of a gas and aporrea of the earth in their composition. But we must content ourselves to keep within the compass of fenfible qualities, and pretend to know no farther than they will conduct us: And these we are pretty well informed of, from the visible mixture of mineral matter, which medicinal waters discover. Some are very needlesly elaborate in the distinctions of such; we shall therefore consider them under these two divisions only, of purging and chalybeate.

There is fcarce one county in England, but discovers the purging fprings. Those about London are chiefly Epfom, Dulwich, Acton, and North-hall, and a very famous one at Kilburn. This last is almost as pleasant as fpring-water, yet fufficiently efficacious, and peculiarly adapted, by means of the fine alcaline earth it holds, to remove fuch diforders as proceed from acidities in the first paffages: This intention it more effectually answers, than the common absorbents of the shops. There are many others of inferior note. They all agree in this, that they abound with a falt of a neutral nature, which they take up, and wash along with them in their paffages. This is not only manifest to the tafte, but upon evaporation they leave it in confiderable quantities behind. It is not of moment enough to diffinguish the feveral kinds of these falts, which fome persons of great leisure have done. By this faline mixture, these waters greatly deterge the flomach and bowels, and carry along with them by flool a great deal which it may

be beneficial to have well gotten rid of. They do often therefore good fervice where the primæ viæ want cleanfing; but this is to be done with a few repetitions: If persons go on longer, (as it is too customary, some thinking the more they purge, the farther they are from being fick) the falts will too much get into the blood; which by their groffness will gradually be collected in quantity enough in the capillaries and glands, to obstruct them, and occation fevers peffimi moris. For all those fevers which come after long purging, especially after the waters, are of the worst kind, and often fatal. Some soften these waters by boiling up enough of milk with them to make a kind of whey, which is agreeable to fome tender persons, who might be too much chilled with the water raw. These do great service fometimes in fuch colics as invert the periftaltic motion of the inteftines, and, as people commonly express it, twift the guts; where the patient can walk about, or be kept conveniently in an erect pofture: For their weight preffing downwards, and their moisture foftening and relaxing the fibres, concur to promote their paffage quite through, wherein confists the cure in fuch cases. But it is supposed here, that they are boiled with fome milk; a quart of water with half a pint, is the usual quantity: For that much contributes to its relaxing quality.

The falt obtained from these

The falt obtained from these is of service in cathartic infusions; a dram in an infusion of sena, rhubarb, and such-like things, helps to extract the purgative vurtues the better, and assist their operation; but this, tartar, does as well

Of those waters above-named, the strength is much the same; if there be any difference, those of Dulwich seem to be the quickest in operation. They are all of them best at the well-head, tho they are used in town some days after they are taken up. For by standing they let fall some mineral particles, which seem necessary in their operation.

AQUE FERRUGINEE, Steelwaters. These are likewise in many parts of England. Those of most note are of Tunbridge, Scarborough, Hampstead, and Isling-The fmall differences of mineral mixture, are here also not worth our while to take up room about: It sufficeth, that it is out of all doubt that that quality, to which they owe their use in medicicine, is received from iron; for of this their taste, and what they let fall upon standing, as well as the rust they fur the borders of their fprings with, befides the known experiment of the galls, put out of all difpute. In confidering therefore the medicinal efficacy of these waters, we are to regard them as iron dissolved in an aqueous menstruum; and because that mineral, with the many preparations

lybeate medicine in this form.

There is perhaps not any one alterative of greater efficacy, than those from this mineral; and yet with how little care, or due consideration, do many run into a course of the waters impregnated with them? for they are not of the number of such things which may be used in wantenness or diversion; for it may be depended on, whosever meddles with these, is much the better or worse for them afterwards. Whosever takes iron in medicine, if it passes the

made of it, will prefently come in

our way to examine in this light.

we shall fay the less here, only ob-

ferving what is necessary of a cha-

first digestions, and mixes with the blood, will find it to warm them, and make their veins full and turgid. In plethoric habits therefore, these waters are to be forbid; and how many fevers are observed after drinking them, which are manifest from that extreme, as also vertigoes, epilepfies, and apoplexies? For raifing the blood too high, crouds the veffels, and makes those in the brain press upon the conveyances of the nervous fluid; whereby they put the whole fystem into diforder and occasion the foregoing mischiefs. In most young perfons proper evacuations ought to be made while they are drinking, and especially, if, as with many, they render them more costive.

To fuch as by long illness, or any other cause have their blood rendered thin, poor, cold and watry, thefe waters will give wonderful affiftance. In a chlorofis, which is commonly called the greenfickness, and in all obstructions of the vifcera, especially of the kidneys and uterus, they do great fervice. In a relaxed tone of the flomach likewife, from crapula's, or any other cause, they greatly aftringe the fibres, and bring them to a due tenfity, altho' at first their roughness occasions them to be

thrown up again by vomit.

BALNEA, baths.

Of these we have two kinds, the hot and cold.

BALNEA CALIDA, OF THER-MÆ, hot-baths. The chief we have of this kind in our country, is that famous one near Wells in Somerfetshire; another there is of inferior note at Buxton. We fhall leave it to naturalifts and philofophers to account for the production of these waters, and content ourselves with observing, that they greatly abound with a mineral fulphur; which appears beyond

all doubt, from its turning filver or copper blackish. The Bath mud, rubbed upon filver, is what the gilders use to gild it with of a gold colour. And fome, who have been fo curious as to boil it in oil, affirm it to have made a good

balfam of fulphur.

From the principal mineral ingredients then, with which this water is impregnated, we may pronounce it a foft healing subaffringent balfamic. We add fubaffringent, because we never meet with fulphur, even in the fublimed flowers, which had not fome portion of falt in its composition; which when boiled in oil, as in making the balfamum fulphuris, shoots like needles, or the branches of fal ammoniac: So that it is very improbable these waters should take up any fulphur in their fubterraneous current, without bringing also some of that saline part along with them, which it is never found without above ground; and especially when we consider, how much more it is in the nature of water to attract and join with fuch particles, than those which are purely fulphurous.

From these premises, we are very naturally directed to the cases wherein these waters, and bathing in them, must be of service. And first of all in languors, debility, and any waste of the constitution, that is not out of possibility of repair, they are like a fomentation, which both fupplies and strengthens the parts all over the body at once, and by gently fhaking and undulating the fibres, helps forward those animal motions, which are ready to be at a stand. In old pains and aches, which have been the remains of nervous diftempers: And where fome particular part continues contracted, or has any humours fixed upon it, which it

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cannot dislodge; these waters pumped upon fuch parts hot from the fpring, do more towards a cure, than all the compositions of pharmacy. General bathing in thefe fprings cannot but wonderfully open that most infinite number of fecretory orifices upon the furface of the fkin, and clear the cutaneous dues of matter which is apt to flick in them: By the aperture of which spiracula, the fluids of the whole body have more room to flow, and proper vents given them to reek out a great deal, which it is of fervice to the economy to get rid of. Thus are rheumatifms of many kinds, arthritic pains, contracted and paralytic limbs, with all the deplorable attendance of aches and lameness. cured by what is more a pleafure and enjoyment than a medicine.

These sulphur fountains, likewife inwardly used, to amazement warm and strengthen a decayed flomach, especially if relaxed, and almost worn out with luxury and debauch. The most grievous naufeas and vomiting, from these causes, have been removed by them. For they both foften again with proper moisture the fibres which have been rendered incapable to vibrate by the use of hot burning spirituous liquors, and at the fame time draw them into a greater tenfity; as a cord which relaxes with over-drying, fills up and firaitens upon the contact and attraction of a convenient moisture. The fmall fhare of a fine falt, which likewife attends, and is as it were wrapped up in the particles of fulphur, cannot but contribute fomewhat in refloring the tone of fach decayed parts. But befides the benefit thefe particularly do to the flomach, they also carry along with them into the most remote recesses, a balfamic of nature's own prepa-

ration; whereby fuch decays, as we have been fpeaking of, in the flomach, or in any of the vifcera, from abfceffes, ulcerations, or any the like causes, are with great success relieved. And particularly, if they be of the kidneys or urinary passages; because they wash thro' them in greater plenty, than where they come only by the ordinary course of circulation. Indeed the excellencies of these springs deserve a volume to do them justice, but we have room here only for short hints. Such as defire more, may confult Guidott, Pierce's Eath-memoirs, and Oliver on bath-waters.

BALNEA FRIGIDA, cold-baths. These have been long banished out of medicine, and hardly heard of during the usurpation of monkish philosophy and enthusiastic chemiflry. The ancients had them in the greatest esteem; and by good luck fome improvements of reasoning in physic, from geometry and me-chanics, have brought them into tolerable good countenance again: And the prefent age can furnish us with abundance of noble cures performed by cold-bathing, which were long, in vain, attempted by the most efficacious medicines. What a delightful fight is it to a person of humanity and tenderness towards his fellow-creatures, to fee the number of crutches, and other artificial aids of a cripple, hang up, as certificates of the benefit to many poor wretches have had from the bathing only in cold-water, in the apartments, where these springs are maintained?

This branch of the means of cure comes under demonstration. both as to the manner and quantity of its efficacy, as much as any thing in the whole compais of physic. The gravitation of fluids, the preffure of its atmosphere, and its differences; and that of water, with

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its different weights upon any given furface; come into calculation with as much ease and plainness, as any thing that can be stated in common arithmetic. And the alterations the animal sluids are subjected to, under such different weights, is as easy to apprehend. For the theory of this affair, the reader may sludy Dr. Mead de imperio solis ac lunze, Wainwright of the non naturals, and a late edition of Sanctorius's medicina statica, with explanations.

There are hardly any chronic difeases but the cold bath may be made use of to advantage, if the conflitution has not fomewhat par-ticular that forbids its use; which are chiefly corpulency, and unfound vifcera. In very fat perfons, the fibres are fo stuffed round, and as it were bolftered up, that they have not room to vibrate or contract with the fudden squeeze of the bath; Instead therefore of enforcing their fprings, and fhaking off any unnecessary incumbrances, they will only be firained to no purpose, and consequently weakened; for wherefoever an effort is made to remove any thing by an elastic body, if the first exertion fails, every impetus afterwards languishes, and the spring is spoiled. And in unfound vifcera, or where any part is much weaker than the reit, fuch an additional force, as the fudden contraction the bath gives to the folids, will press the fluids on that part, very much to its damage; hich may occasion either the

U... ling of the veffels, or promoting the discharge of some ill humours upon that part, which otherwise might drain off elsewhere. But where nothing of this na-ture forbids the use of the cold bath, whatfoever is to be effected by bracing the folids, invigorating their vibrations, and accelerating the blood's motion, is with certainty to be had from hence. All difeafes therefore from a fizy blood, and a lentor in the animal juices, if the elasticity of the vessels is not worn out with age or debauches, will find relief from the cold bath. As rheumatisms of the most obstinate kind, hypochrondriacal affections, and debility, from too tender, indulgent, and inactive ways of life. Whatfoever inconveniences likewise proceed from a bad transpiration, or when humours are thrown upon the furface, which cannot get through, but ulcerate, blotch and deform the fkin, this remedy will be of fervice in. For upon immersion, the whole nervous fystem is so shook, that the very capillaries feel the influence, and the minutest passages are forced open by an increased velocity of the circulating fluids; whereby the fkin will be cleared, and inflead of entertaining gross acrimonious humours, transmit only the imperceptible matter of perspiration. But in a work defigned to improve and recommend medicine, it may not be well perhaps to launch out too far in commendation of cold water; we shall therefore refer for more information upon this head to the learned lette.s of fir John Floyer upon the cold bath; and what in late editions is annexed thereunto by Dr. Bay-

SECT.

Sect. 15.

Of Salts.

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SECT. XV.

Metals.

Aurum
Argentum
Ferrum
Cuprum
Plumbum

Gold Silver Iron Copper Lead Stannum
Mercurius
Cinnabaris natiwa
Antimonium
Bifmuthum

Tin Quickfilver Native cinnabar Antimony Bifmuth.

SECT. XVI.

Salts.

Sal commune Sal gemmæ Nitrum

Common falt Sal gem Salt petre

lt Alumen
Sal ammoniacus
Vitriolum

Alum Sal ammoniac Vitriol.



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CHAPTER II.

Distribution of medicinal simples, according to their sensible qualities.

SECT.

I. ACIDS.

II. INSIPID EARTHY Substances, capable of ABSORBING ACIDS.

III. INDISSOLUBLE EARTHS.

IV. GLUTINOUS, vegetable, and animal substances.

V. UNCTUOUS, vegetable, and animal substances.

VI. ASTRINGENTS.

VII. SWEETS.

VIII. ACRIDS.

IX: AROMATICS.

X. BITTERS.

XI. Substances of COMPOUND QUALITIES.

XII. Simples not reducible under the foregoing heads.

SECT. I.

ACIDS.

(native; as forrel, juice of lemons, barberries, and other fruits. Class 1. Vegetable < produced by fermentation; as vinegar and tartar.

Class 2. Mineral: the acids of vitriol, nitre, and common falt.

HE medical effects of acids, duly diluted and exhibited in proper doses, are, to cool, quench of the blood. By these qualities, inflammatory diforders, they frequently reftrain immoderate har-

morrhagies, and promote the natural fecretions; in fome kinds of fevers, they excite a copious diathirst, and allay inordinate motions phoresis, where the warm medicines called alexipharmac, tend in hot bilious-temperaments and rather to prevent this falutary difcharge.

Vegetable

Sect. 2. Insipid earthy Substances, &c.

native juices of certain plants and it. Hence in fome fevers, where fruits, have some degree of a faponaceous quality; by means of which they attenuate or disfolve viscid phlegm, and deterge the veffels; and thus prove ferviceable in fundry chronical diforders. Inveterate fcurvies have fometimes yielded to their continued use, efpecially when given in conjunction with medicines of the acrid or pungent kind: Experience has shewn that the acrid antiscorbutics have much better effects when thus managed, than when exhibited by themselves; hence in the succi scorbutici of our dispensatory, seville orange juice is ufefully joined to that of the cochlearia and nasturtium.

The mineral acids instantly coagulate blood: The vegetable dilute it, even when inspissated or thickened by heat; in which state, wa-

Vegetable acids, particularly the tery liquors will not mingle with water runs off by the kidneys almost as pale and insipid as it was drunk, vegetable acids foon render the urine of the due colour and quality. The mineral acids (the fpirit of nitre in particular) combined with vinous spirits, have the same effect.

Acids of every kind are prejudicial in cold, pale, phlegmatic habits, where the veffels are lax, the circulation languid, bile deficient, and the power of digeftion weak. In these cases, an acid is often generated in the stomach, from milk and most vegetable foods, which, whilst it continues in the first paffages, occasions uneafiness about the flomach, flatulencies, fometimes griping pains of the bowels, vomiting, or the cholera morbus.

SECT. II.

Insipid EARTHS capable of ABSORBING ACIDS.

Oystershells. Crabs claws, and eyes fo called, Coral, red and white, Pearls, Bezoar, &c.

HE virtues of these substances are, to absorb or deftroy acidities in the first passages, and confequently to remove fuch diforders as proceed from that cause. The cordial alexipharmac, antifebrile, and other like virtues attributed to these medicines, appear to have little foundation; or at best, are only fecondary ones. When united with the acid, they form a neutral faline compound, possessing some degree of an apetient and detergent quality, tho'

Chalk, All the marles, Lime-stones, Marbles, Spars.

too inconfiderable to be in general regarded.

The absorbent earths were strangers to medicine till the time of Helmont; and their use does not feem to have been established before the last century; when some practitioners, from an opinion that most kinds of diseases proceeded from a preternatural acid, introduced a great variety of antacid bodies, both of the earthy and faline kind; and very liberally exhibited them on almost every occasion.

is indicated. If there are really no acid juices in the ventricle, these earths are apt to concrete with the mucous matter usually lodged there, into hard indiffoluble maffes; which have fometimes been thrown up by vomit (V. Zwelf. Animado, in Ph. Aug. p. 66. Miscell. N. C. dec. 2. Ann. 6. Obf. 24. Att. N. C. vol. ii. Obf. 139.) or found in the stomach upon dissection (V. Hoffm. de benign. remed. abusu.) Hence indigestion, loss of appetite, naufeæ, vomiting, obstructions of the bowels, and other diforders. Sometimes the stomach and intestines have been found lined with a cruft. as it were, of these earthy bodies, (V. Albert. Diff. de Atrophia, feat. 10.) which must not only have prevented the separation of the gastric liquor, but likewise closed the orifices of the lacteal veffels, fo as to obstruct the passage of the chyle into the mass of blood.

Some suppose the earthy powders capable (without the concurrence of any acid) of passing the lacteals along with the chyle; and alledge, in support of this opinion, that when triturated with water, they are in part taken up, and carper; the filtrated liquor leaving,

quences drawn from it to be just) is itself erroneous: The residuum proceeds from the earth naturally contained in the water, not from that employed in the experiment ; for if pure distilled water be made use of, it will leave no residuum though long triturated, or digested with the earth.

All thefe bodies, particularly those of the animal kind, contain, befides their purely alcaline earth, a portion of glutinous matter. An instance of this we have in crabs eyes, which if macerated in the weaker acids, or the stronger, fufficiently diluted with water; the earthy part will be dissolved, and the animal glue remain in form of a foft transparent mucilage. The glutinous substance increases their tendency to concrete in the flomach; and hence those which contain least thereof should be preferred to the others. The mineral earths contain the least of this kind of matter, and fome of them are very eafy of folution; chalk for instance; which may therefore be given more liberally, and with greater fafety than the animal abforbents. These substances divested of their conglutinating matter by means of fire, are reduced into acrimonious calces or limes, and thus become medicines of a different class.

The teeth, bones, hoofs and horns of animals, confift of the fame principles with the animal absorbents above-mentioned, but combined in different proportions: The quantity of gelatinous matter is fo large as to defend the earthy part from the action of weak acids; whilst the earth, in its turn, proried with it through a filter of pa- techs the gluten from being dissolved by watery liquors. Hence thefe upon evaporation, a portion of bodies in their crude state, though whitish earthy matter. This ex- recommended as possessing singular

virtues.

virtue at all.

Experiments have been made for determining the degree of folubility, or comparative strength of these earths; the principal of which may be feen in page 5, reduced into the form of tables. These experiments do not sufficiently ascertain the point intended by them : In the first fett, the quantity of acid is too vague and undetermined : In the fecond, we are not told whether the acid was perfectly faturated: And in both, the acids made use

virtues, are not found to have any of were fo very different from any that can be supposed ever to exist in the human body, that little can be concluded from them with regard to the medical effects of thefe absorbents. Trial should have been made with the mild vegetable acids, as the juices of certain fruits, four fermented liquors; or rather with four milk. Nevertheless these tables, though not so perfect as could be wished, have their real use in the hands of fuch as can make proper

SECT. III.

EARTHS NOT DISSOLUBLE in acids, or other liquors.

The earths of this kind may be ranged in three classes:

Class I. Hard crystalline earths: As the ruby, granate, emerald, fapphire, hyacinth, and other precious stones; crystal, flint, &c.

were introduced into medicine, and many fabulous virtues attributed to them, by the superstition of the earlier ages. Some of them are still preserved in foreign pharmacopæias, but at length very justly expunged from ours, notwithstanding what some late writers of repute speak of their medical virtue. These indissoluble hard bodies are not capable of producing any other effect, than by their rigid angular particles, (which tho' levigated with the utmost care, the microscope still discovers in them) to offend or wound the intestines. In levigation, they wear off fo much from the hardest marble instruments, as will equal or exceed their own weight: From this circumflance we may account for their having fometimes appeared to act

HESE kinds of fubiliances as absorbents. Some of these stones, exposed to a vehement fire, become in some measure friable; but nevertheless remain indissoluble. Most of the coloured ones by this treatment lofe their colour; and in this state, prove nearly of the fame quality with common crystal; such are the fapphire, emerald, amethyst, and cornelian. Others melt into a blackish vitreous matter, from which a portion of iron is obtainable by proper fluxes; as the hyacinth and granate. Geoffroy concludes from hence, that these stones really possess fome medical virtues, depending upon their metallic part; but the quantity of metallic matter, fufficient to give them a confiderable tinet, is almost in-finitely fmall, and so inclosed in a flony matter not at all foluble 56 The English Dispensatory improved. Part I.

by any of the known menftrua, fibility of its acting in the human as fcarce to admit of any pof- body.

Class 2. Softer earths.

Of these there are two kinds :

1. Tough and flexible: not alterable in quality by fire: As the tales and amianthus.

2. Brittle; reducible by fire into a flate of ductility with water: as gyplum, and the stones from which plaster of Paris is made.

These earths have rarely been as astringents. But they have long of the talky ones, from their unclurecommended externally as cofmelittle better foundation, internally out any of their good ones.

made use of as medicines. Some been deservedly rejected by the judicious practitioners. They feem ous foftness and filver hue, fland to possess the ill qualities of the alcaline earths, (concreting with the tics; and fome of the gypfeous, on mucus of the stomach, &c.) with-

Class 3. Tenacious adhasive earths.

Clays, boles, and the terræ figillatæ.

Substances of this class were as aftringents and alexipharmacs, and some of them still continue in bent: The acid appears to be esteem; though it is certain they have no great claim to the virtues that have been attributed to them. Their real effects are, to give a greater degree of confidency to the fluids in the first passages, and in some measure defend the folids from their acrimony.

Most of these bodies contain, befides the tenacious indiffoluble earth, which is their principal characleriflic, (1) a portion of an earth foluble in acids, fimilar to these of the first section; (2) of acid, feparable by diffillation in a firong fire: This acid is always of the same nature with that obtained from vitriol, fulphur, and alum ; (3) The coloured ones contain like-wife fmall quantities of iron, reducinie, by inflammable fluxes, into its metallic form. In confe-

quence of the first of these ingrehighly celebrated by the ancients dients, these earths may be looked upon in fome measure as absorunited with a part of the abforbent earth, into a faline compound approaching to an aluminous nature; whence they have fome degree of astringency: Whether they receive any peculiar virtue from the iron, is greatly to be doubted; fince it is in a very crude state, and in quantity extremely small.

These earths unite with water into a turbid liquor, flippery and fmooth to the touch, and remain for fome time fuspended; the fand, grit, or other groffer matters which are often found naturally mingled with them, fubfiding. They may be freed by means of acids from their alcaline earth; by coction in water, from their faline matter; and the coloured ones from their iron by digestion in aqua regis, the only menstruum

Glutinous vegetable, &c. Sect. 4.

extract the ferrugineous matter of their foft glutinous quality, and argillaceous and bolar earths. Thus are reduced into hard masses indifpurified, they have all nearly the fame appearance and qualities.

we are acquainted with that will Exposed to a strong fire, they lose foluble as at first.

SECT. IV.

GLUTINOUS, vegetable, and animal substances.

Class I. Vegetable.

Pure gums: Tragacanth, Senica. The gums of cherry, plum, and other European trees.

Vegetables abounding with mucilage: Orchis roots, Althæa root, Quince feeds, &c.

UMS and mucilages are glu-I tinous vegetable productions, of no particular tafte or fmell, foluble in water, but not in vinous fpirits, acids, or in oils. They differ from one another, only in degree of tenacity: The more tewhich are less so, mucilages. The first naturally exude from certain table fubflances contain fome por- testines is abraded.

tion of thefe, which after the refinous part has been extracted by fpirit, may be separated from the remaining matter by means of

The general virtues of thefe kinds of fubstances are, to thicken nacious are called gums; those the fluids, and defend the folids from them, when grown sharp or corrofive. Hence their usein a thin trees and fhrubs; the latter are ex- acrimonious state of the juices, and tracted by art. Almost all vege- where the natural mucus of the in-

Class 2. Animal.

Most animal substances (the fat excepted) contain a viscous matter in many respects similar to the foregoing, and capable of being extracted by flrong coction in water.

Animal glues and gellies have the general qualities of the vegetable gums and mucilages; with this difference, that the former are more nutrimental, and apt to run into a

putrid state. Considered as the fubjects of chemistry, the difference betwixt them is very great: Those of the animal kind are changed by fire into a volatile alcaline falt, and a fœtid oil; the vegetable into an acid liquor, and a very minute portion of oily matter, confiderably lefs fœtid than the former.

SECT.

SECT. V.

Soft uncruous substances.

Class 1. Insipid vegetable oils; and substances abounding with them, as almonds, and the kernels of most fruits; linseed, and the medullary part of fundry other seeds.

Class 2. Animal fats; as spermaceti.

Netuous vegetables unite with water by trituration, into a milky liquor: and give out their oil upon expression.—These kinds of oils, and animal fats, dissolve not in any menstruum except alcaline ones; which change their quality, and reduce them into a soap, dissoluble in water, but more perfectly in vinous spirits: Irom this compound, the oil may, by a skilful addition of acids, be recovered in a purer state than before, and rendered soluble, like essential oils, in spirit of wine.

The medical virtues of these subflances are, to obtund acrimonious humours, and to soften and relax the folids: Hence their use internally, in tickling coughs, heat of urine, pains and inflammations; and externally in tension and rigidity of particular parts. The milky solutions, commonly called emulsions, though much less emollient than the oils themselves, or animal stats, have this advantage, that they may be given in acute or inflammatory dislempers, without danger of the ill consequences which the others might sometimes produce: Fats and oils, kept in a degree of heat no greater than that of the human body, soon become rancid and acrimonious; whilst emulsions tend rather to grow sour.

SECT. VI.

ASTRINGENTS.

Galls,
Tormentil root,
Biffort root,

A Stringent substances are diflinguished by a rough austere taste; and changing solutions of iron, especially those made in the vitriolic acid, of a dark purple or black colour.

Aftringents yield their virtues by infusion both to water and vinous spirits, generally in greatest perfection to the former. Oils extract

Balaustines, Terra japonica, Acacia, &c.

nothing from them. Nor do they give over any of their virtue in difillation: Nevertheless their astringency is considerably abated by evaporating decoctions of them to the consistence of an extract; and totally destroyed by long keeping.

The medical effects of these kinds of substances are, to constringe the fibres, and incrassate, or

lightly

Sect. 7.

Sweets.

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lightly thicken the juices. more experienced use is in diforders proceeding from a debility, or flaccid state, of the folids; in hæmorrhagies, from a thinnels of the blood, laxity or rupture of the veffels; in preternatural discharges of other kinds, after the offending matter has been duly corrected or evacuated; and externally, in folutions of continuity. In some cases, they produce the effects of aperients; the veffels, conftringed and ftrengthened by them, being enabled to protrude the circulating juices with greater force.

A good deal of caution is requi-

Their fite in the exhibition of these medicines, especially those of the more powerful kind. In plethoric habits, inveterate obstructions, critical evacuations, and in all kinds of fluxes in general before the morbific matter has been expelled, or where there is any firicture or spafmodic contraction of the veffels: astringents prove eminently hurtful. Where critical dyfenteries or diarrhoeas are restrained by styptics, the acrimonious matter, now confined in the intestines, corrodes or inflames them; and fometimes occasions a gangrene of the parts.

SECT. VII.

SWEETS.

Sugar, Honey,

Raifins, Liquorice, &c.

HE vegetable sweets are a very numerous tribe; almost every plant that has been examined, discovering in some of its parts, a faccharine juice. The bottoms of flowers, and most kinds of seeds and grain when they begin to vegetate, are remarkably sweet.

Vegetable sweets are extracted both by water and vinous spirits, most readily by the first, but in greatest perfection by the latter. Nothing of their taste arises in distillation with either of these liquors: Nevertheless, by long boiling with water they become somewhat less agreeable; but are not much injured by being treated in the same manner with rectified spirit.

The purer fweets, as fugar, promote the union of diffilled oils with watery liquors, and prevent the feparation of the butyraceous part from milk: From this quality,

they are supposed to unite the unctuous part of the food with the animal juices. Hence fome have concluded, that they increase fat: Others, that they have a contrary effect, by preventing the feparation of the unctuous matter which forms the fat, from the blood: And others, that they render the juices thicker and more fluggish, retard the circula. tion and cuticular excretion, and thus bring on a variety of diforders. But fweets have not been found to produce any of these effects, in any remarkable degree: Common experience shews, that their moderate, and even liberal, use is at least innocent; that they reconcile, not only to the palate, but the stomach also, substances of themselves disgustful to both; and thus render falutary what would otherwise be injurious to the body.

The uncluous and mucilaginous fweets,

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fweets, as the impure fugars, li- juices of most fweet fruits, are rewith a manifest acid, as in the have proved fatal.

quorice, &c. have a confiderable markably relaxing; and if taken degree of emollient and lubricat- immoderately, occasion diarrhee ing virtue. - Those accompanied and dysenteries, which sometimes

SECT. VIII.

ACRIDS.

A Crids are substances of a penetrating pungency, without any peculiar slavour. Applied to fussely up the nose, provoke sneezthe fkin, they inflame or exulcerate ing.

These substances, confidered as the subjects of pharmacy, may be divided into three classes,

vielding their acrimony

(1. In distillation with water: As horse radish. mustard, scurvy grafs, &c.

2. By infusion only : As the greater celandine. 3. Neither to infusion, or distillation: As arum and dracunculus.

The general effects of acrid me- of the fquill in particular, for the nations of the fluids, and where the weak; they prove powerful exand emmenagogues; and if the patient is kept warm, fudorifics. In hot bilious constitutions, plethoric habits, inflammatory diflempers, where there is already a degree of irritation, where the juices are too thin and acrimonious, or the viscera unfound; these stimulating medicines prove highly prejudicial, and never fail to aggravate the difeafe.

Certain acrid fubstances have convulfive afthmas: Of the efficacy cause of its aggravation.

dicines are, to stimulate the vessels, cure of this diforder, several in-and dissolve tenacious juices. In stances are related in the commercold leucophlegmatic habits, stag- cium literarium of Norimberg for the years 1737 and 1739. It contractile power of the folids is feems probable, that not the afthma itself, but a particular effect of pectorants, deobstruents, diuretics it was removed by this medicine. In all asthmas, the free circulation of the blood through the pulmonary veffels, is impeded; and hence, during every paroxyfm, the lungs are in a kind of ædematous flate. If this cedema, becoming habitual, remains after the fit is over, it is either perpetually occafioning fresh ones, or gives rife to a dropfy of the breaft. Acrid medicines, by removing the ædema, remove what was originally an efbeen lately recommended in dry feet of the ashma, and in time a

trid stom the second of the wall to dot stock inner drew inter and the belief and the stock in the second of the s

SECT. IX.

AROMATICS.

warm pungent tafte, accompanied with a strong odour; as cloves, cardamom feeds, cinnamon, nutmegs, &c. Their peculiar qualities refide in a volatile oil, ufually called effential, and a groffer refinous fubstance capable of being extracted by spirit of wine. The oil possesses the odour of the subject, and often its pungency and tafte: The refin contains the whole of this latter, but has the former in a lefs degree.

The effential oils and refins of vegetables, at first intimately mingled with the aqueous and mucilaginous juices, feparate by degrees, and are collected in little membranous vehicles. These are readily discovered by the microfcope, in the rind of oranges and lemons, in juniper berries, nutmegs, the roots of elecampane, masterwort, fpignel, angelica, fennel, florence orris, and others; and by the naked eye, in the flowers of St. John's-wort, and the leaves of the orange-tree. In the bark of the pine, fir, larch, and fome other tree, these vesicles are extremely numerous and turgid with oil, infomuch as (in the warmer climates) frequently to burft, and discharge their contents in notable quantity.

These oils consist of a subtile and of a groffer part. The unctuous liquors which fpontaneously exude from different trees and shrubs, and the purer oils extracted from aromatic plants by art, indurate in a warm air into a folid refin, with remarkable lofs of their fragrance. Distilled with pure spirit, the more subtile part arises,

Romatics are substances of a impregnating the liquid with the pungency and odour of the oil; the groffer matter, whose quantity is much the largest, remaining behind: This refiduum, by repeat-ing the operation with fresh spirit becomes at length infipid and inodorous. The separation may alfo be effected, though more difficultly, by a like procedure with water. Water, even by agitation, imbibes some of the more fragrant matter, leaving the oil weaker and

less fragrant than before.

The quantity of this fubtile matter varies in different oils: as does likewise that of the compound contained in different subjects. In general, the lefs oil any aromatic vegetable affords, the oil proves proportionably the ftronger: and the more, the weaker. From cinnamon, for inflance, we obtain an oil very finall in quantity, but extremely pungent: Whilft cloves, a spice much more pungent than the other, yields a much larger quantity of oil, which proves in tafte remarkably milder. - The greater pungency, as Neuman obferves, of the oil of cloves usually met with, is adventitious: The oil genuinely distilled from this fpice, is very mild: A tincture made in rectified spirit is extremely acrid, and probably is the fubflance employed for giving this quality to the oil.

The virtues of all aromatic vegetables are extracted by vinous fpirits; very imperfectly by watery liquors. In diffillation, they arile with water more perfectly than with fpirit : Some give over exceeding little to pure spirit:

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their tafte and flavour in an eminent degree: whilft the watery ones have nothing of either.

Aromatics, confidered as medicines, warm the flomach, and by

hence the spirituous extract possesses degrees the whole habit, raise the pulse and quicken the circulation : Hence in cold languid cases, they increase strength, and promote the natural fecretions.

SECT. X.

BITTERS.

Gentian root, Hops,

Leffercentaury, Carduus, &c.

B Itters yield their virtue both to watery and spirituous menftrua; fome more perfectly to one, and others to the other. None of the fubitances of this class give over any thing confiderable of their taffe in distillation, either to water or to fpirit; their bitterness remaining entire, and frequently improved, in the extracts. Such as are accompanied with flavour, as wormwood, may by this process be reduced into simple flavourless bit-

These substances participate of the virtues of aftringents and aromatics. Their general effects are, to constringe the fibres of the stomach and intestines, to warm the habit, attenuate the sluids, supply the deficiency of bile, and promote the natural evacuations, particularly of sweat and urine. In weaknefs of the stomach, loss of appe-

tite, indigestion, and the like diforders, proceeding from a laxity of the folids, or cold fluggish indifposition of the juices, these kinds of medicines do good fervice. Where the fibres are already too tense and rigid, where there is any immoderate heat or inflammation, bitters very fenfibly increase the diftemper; and if their use is continued, communicate it to the kidneys: Hence the urine becomes high coloured, fmall in quantity, and at length suppressed; a dropiy foon fucceeding: If the kidneys were before fo lax as to remain now uninjured, yet the other vifcera become gradually more and more rigid, and a tabes is at length brought

Bitter fubstances destroy infects. and prevent putrefaction. Hence they are recommended as anthelmintic: and externally as antifeptics.

SECT.

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SECT. XI.

Substances in which two, three, or more of the foregoing qualities are conjoined:

As Aromatic and bitter
As Aromatic and aftringent in Cinnamon Aromatic, bitter and affringent peruvian bark.

cal virtues depending thereon) of the bodies which come under this head, are extracted by the fame means as from those in which they are less compounded. Thus the aromatic part of lemon peel arifes in distillation with water,

HE feveral taftes (and medi- whilft the bitter remains behind in the extract: The aromatic part of bark is diffipated by long coction in water, the bitter remaining in the extract entire, and the aftringency (as a fimple aftringent would be by the fame treatment) confiderably impaired.

SECT. XII.

Substances not reducible under the foregoing heads.

Class 1. Metallic and mineral bodies.

Class 2. Neutral salts, as nitre, common salt, &c.

Class 3. Opium, bemlock, &c.

For an account of the bodies of these three classes, we refer to the feveral articles themselves in the second book.

Class 4. Acrid and bitter substances, which generally act as emetic or cathartic.

Hellebore, Jalap, Ipecacoanha, &c.

Colocynth. Scammony, Gamboge, &c.

These substances consist of a refinous part, in which the purgative or emetic quality refide; and a gummy-faline one, which acts chiefly as a diuretic. The first is extracted or dissolved by vinous fpirits; the latter by water. No-thing arifes in distillation from

The acrid refins, exhibited by

the coats of the intestines, by their stimulating power irritate and inflame them, and thus produce fundry violent disorders. Hoffman relates, that he has fometimes obferved convulsions, and a paralysis of both fides, from their use.

These inconveniencies may be prevented, by previously triturating them with substances capable themselves, tenaciously adhere to of dividing their tenacious texture,

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and preventing their adhesion: By this means, they become mild and fafe, operate without disturbance, and at the same time more effectually answer the purposes intended

by them. Some have endeavoured to correct the ill quality of the refinous purgatives, by the addition of acids and aromatic oils. Acids weaken their power, but have no other effect than what a diminution of the dose would equally answer. The pungent effential oils may ferve to warm the flomach, make the medince fit eafier, and thus prevent the naufea, which fometimes happens; but as foon as the refin begins to exert itself in the intestines, these oils, instead of correcting, increase its virulence; being themfelves apt to occasion the inconveniencies which they are here intended to prevent, an irritation and inflammation of the bowels. Alcaline falts or foaps have a better effect; as they dispose the refin to folution, and promote its operation.

The medicines of this class feem to act by liquefying the juices, and stimulating the coats of the stomach and intestines. If the irritation is

firong and fudden, their action is quick and upwards: If flower, downwards: Cathartics given in a liquid form, or in very fenfible habits, often prove emetic; and emetics, where mucus abounds, cathartic. They operate more violently in robust constitutions, than in those of a contrary temperament; the vessels being in the former more tense and rigid, and consequently less capable of bearing an equal degree of irritation.

The action of these medicines is extended beyond the primæ viæ: This appears evident from the increase of the pulse which always accompanies their operation; and from the common observation of children being purged by the milk, if the nurse has taken a cathartic: Some of them, particularly hellebore, are faid to purge, if only applied externally in iffues.-Purgatives, even of the more powerful kind, exhibited in fuitable fmall dofes, in conjunction with the milder aperients, may be introduced into the habit, fo as to prove notable deobstruents, diuretics, and diaphoretics, without acting fenfibly by flool.



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BOOK II.

Of the several articles of the materia medica.

BIES [E] abies conis furfum spectantibus sive mas, C. B. The filver fir - Abies tenuiore folio fructu deorsum spectante, Tourn.
The red sir: Their wood, tops, and resin. These are large evergreen trees, frequent in the northern climates: The sirst is said to be found wild in some parts of Eng-land, and the second on the hills of Scotland. From these trees, in different parts of Germany, the Strasburgh turpentine is extracted, of which hereafter. The wood, and the fruit or cones gathered about the end of autumn, abound with refinous matter; and yield, in distillation with water, an effential oil not different from that obtained by the fame means from turpentine. - The wood and tops of the fir trees, on account of their refinous juice, are fometimes employed in decoctions for promoting urine and fweat, purifying the blood and juices, cleanfing and healing internal ulcerations, particularly those of the urinary passages. See the article TEREBINTHINA.

ABROTANUM MAS - [E.] abrotanum mas angustifolium majus, C. B. Southernwood; the leaves. - This is a shrubby plant, clothed with very finely divided leaves, of a greyish green colour: The flowers, which are very small and yellowish, hang downwards, several together, from the middle of

the branches to the top. It is a native of the warmer countries; in this it is cultivated in gardens: The leaves fall off every winter; the roots and stalks abide many years.

Southernwood has a strong, not very difagrecable fmell; and a naufeous, pungent, bitter tafte; which is totally extracted by rectified fpirit, less perfectly by watery liquors. It is recommended as an anthelmintic; and, in cold leucophlegmatic habits, as a stimulating, detergent, aperient, and fudorific. The prefent practice has almost entirely confined its use to external applications: The leaves are frequently employed in discutient and antifeptic fomentations: and fometimes in lotions and unquents for cutaneous eruptions and the falling off of the hair.

ABROTANUM FOEMINA—
[E.] abrotanum fæmina foliis teretibus, G. B. Lavender cotton; the leaves. This plant is all over white and hoary: The leaves are composed of small knobs set in rows along a middle rib; the slowers stand upright on the tops of the stalks. It is raised in gardens, slowers in June and July, and holds its leaves all the winter.

The abrotanum famina is supposed to possess the same virtues with the mas; but in a less degree. For external purposes, the medical difference betwixt them is not very

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great: Hence in fomentations (which is the principal intention they are usually applied to) the college allow either to be taken instead of the other.—The abrotanum famina is recommended by some in hysteric and other female complaints: it has been customary among the common people to use a decoction of it in milk against worms.

ABSINTHIUM VULGARE

[L. E.]—absinthium vulgare majus,

J. B. Common wormwood; the leaves.—The leaves of this fort of wormwood are divided into roundish fegments, of a dull green colour above, and whitish underneath. It grows wild in several parts of England; about London, large quantities are cultivated for medicinal use: It showers in June and July; and after having ripened its feed, dies down to the ground, excepting a tust of the lower leaves, which generally abides the winter.

Wormwood is a strong bitter; and was formerly much used as such, against weakness of the stomach, and the like, in medicated wines and ales. At present it is rarely employed in these intentions, on account of the ill relish and offensive fmell which it is accompanied with. These it may be in part freed from by keeping, and totally by long coction, the bitter remaining entire: An extract made by boiling the leaves in a large quantity of water, and evaporating the liquor with a strong fire, proves a bitter fufficiently grateful, without any difguftful flavour .- An oil distilled from this plant is kept in the shops.

ABSINTHIUM MARITIMUM
[L.] abfinibium marinum album,
Gerard. Sea wormwood, commonly, but falfely, called Roman
wormwood: the leaves and tops.

The leaves of fea wormwood are much smaller than those of the common, and hoary on the upper side, as well as the lower; the stalks also are hoary all over. It grows wild about our falt marshes, and in several parts about the sea coasts.—In taste and smell, it is weaker and less unpleasant than the common wormwood: The virtues of both are supposed to be of the same kind, and to differ only in degree.—The tops enter three of our distilled waters, and give name to a conserve.

ABSINTHIUM ROMANUM
[E.] absinthium ponticum, tenuifolium, incanum C.B. Roman wormwood; the leaves and tops.

This species is very different in appearance from the two foregoing: It is in all its parts smaller than either ; the leaves are divided into fine filaments, and hoary all over; the stalks, either entirely or in part, of a purplish hue. It is a native of the warmer countries, and at present difficultly procurable in this, though as hardy and easily raifed as any of the other forts. Sea wormwood has long fupplied its place in the markets, and been in general mistaken for it .- Roman wormwood is less ungrateful than either of the others: Its fmell is tolerably pleafant; the taste, tho' manifestly bitter, scarce disagree-able. It appears to be the most eligible of the three as a stomachic; and is likewife recommended by some in dropsies.

The roots of all the wormwoods have a durable warm aromatic tafte, without any thing of the naufeous bitterness of the other parts; and hence might probably be employed for answering some useful purposes.

ACACIA [L. E.] the inspissated juice of the unripe fruit of a large prickly tree, called by Caspar Bauhine,

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This juice is brought to us from Egypt, in roundish masses, wrapt up in thin bladders. It is outwardly of a deep brown colour, inclining to black: inwardly of a reddish or yellowish brown; of a firm confiftence, but not very dry. It foon foftens in the mouth, and discovers a rough, not disagreeable taste, which is followed by a sweet-ish relish. This inspissated juice entirely diffolves in watery liquors; but is scarce fensibly acted on by

rectified fpirit.

Acacia is a mild affringent medicine. The Egyptians exhibit it in spitting of blood, in the quantity of a dram, dissolved in any convenient liquor; and repeat this dofe occasionally: They likewise employ it in collyria for strengthening the eyes, and in gargarifms for quinfeys. Among us, it is of little other use than as an ingredient in mithridate and theriaca, and is rarely met with in the shops. What is usually fold for the Egyptian acacia is the inspissated juice of unripe floes: This is harder, heavier, of a darker colour, and fomewhat sharper taste, than the true fort.

ACANTHUS - acanthus fativus vel mollis Virgilii, C. B. Brankurfine; the leaves. - This is a beautiful plant, growing naturally in Italy, and other warm cli-mates: From its leaves, the incients took the patterns of their foliage works. All the parts of it have a foft sweetish taste, and abound with a mucilaginous juice: Its virtues do not feem to differ from those of mucilaginous substances in general.

ACETOSA [E.] acetofa arvenfis, C. B. Oxalis vulgaris folio longo, J. B. Common forrel; the

roots, leaves, and feeds. Sorrel grows wild in fields and meadows throughout England. The leaves have a restringent acid taste, without any fmell or particular flavour: Their medical effects are, to cool, quench thirst, and promote the urinary discharge: A decoction of them in whey affords an useful and agreeable drink in febrile or inflammatory diforders; strongly recommended by Boerhaave to be used in the spring as one of the most efficacious aperients and detergents. Some kinds of scurvies have yielded to the continued use of this medicine: The Greenlanders, who are very fubject to this distemper, are said to employ, with good fuccefs, a mixture of the juices of forrel and of fcurvy grafs .- The roots of this plant have a bitter aftringent tafte. without any acidity: They are faid to be deobstruent and diuretic; and have fometimes had a place in aperient apozems, to which they impart a reddish colour. - The feeds are fomewhat affringent, without acidity or bitterness: They are recommended in diarrhoasand dyfenteries, but have long been strangers to the shops.

ACETOSELLA, vide LUJULA.

ACETUM [L. E.] Vinegar is an acid produced from fermented vinous liquors by a fecond fermentation. Wine vinegar is confiderably purer than that prepared from malt liquors; the latter, however acid and fine, contains a large portion of a vifcous mucilaginous fubftance; as is evident from the ropyness and slimyness which this kind of vinegar is very much fubject to: the stronger and more spirituous the wine, the better and ftronger vinegar it yields. The French vinegars faturate above and some of them one twelfth; the best of the German vinegars little more than one fortieth.

Vinegar is a medicine of excellent use in all kinds of inflammatory and putrid diforders, either internal or external: In ardent, bilious fevers, pestilential, and other malignant distempers, it is recommended by Boerhaave as one of the most certain sudorifics: (see the section of acids, page 52.) Weakness, fainting, vomiting, hysterical, and hy-pochondriacal complaints, have been frequently relieved by vinegar applied to the mouth and nose, or received into the flomach.

ACORUS, vide CALAMUS A-ROMATICUS.

ADIANTHUM VERUM -[E.] adianthum folio coriandri, C. B. True maidenhair; the leaves. This is a low evergreen herb, and one of those which, from the flenderness of their flalks, are called capillary. It is a native of Italy, and the fouthern parts of France; from whence the leaves are brought to us. These have an agreeable, but very weak, fmell; and a mucilaginous fomewhat roughish taste, which they readily diforders of the breaft, proceeding lity, generally supplying its place.

thirty-fifth their weight of fixt falt; made by firatifying copper plates with the marc or pressings of grapes: In a few days, the plates are found covered with a pale green downy matter, which is scraped off from the copper, and the process again repeated. Verdegris, as it comes to us, is generally mingled with stalks and feeds of the grape: These may be separated, in pulverization, by discontinuing the operation as foon as what remains feems to be almost entirely composed of them. Verdegris is rarely or never used internally. Some writers greatly extol it as an emetic and fay, that a grain or two being taken, acts as foon as received into the flomach: But its use has been too often followed by dangerous confequences. (See the article CUPRUM)-Verdegris applied externally, proves a gentle escharotic, and ferves to take down fungous flesh arising in wounds.

AGALLOCHUM [E.] fen lignum aloes. Aloes wood. have been different conjectures concerning this plant, but no fatisfactory account of it has hitherto appeared. Authors diftinguish feveral forts of agallochum, most of which are strangers to Europe. That which comes to us is in impart to boiling water. Maiden- little hard ponderous pieces, of a hair has been greatly celebrated in yellowish brown colour, with several black or purplish veins. It from a thinness and acrimony of has a bitterish aromatic taste; and the juices; and likewise for open- a fragrant smell, especially if reing obstructions of the viscera, and duced to powder, or set on fire. promoting the expectoration of Distilled with water, it affords a tough phlegm. But modern prac- very fragrant effential oil, but in tice pays little regard to it; nor is fmail quantity: Digefted in rectiit often to be met with in the shops; fied spirit, it yields an elegant the TRICHOMANES, or English- tincture, which lofes nothing valumaiden-bair, which is of the same qua- able in being evaporated to the confistence of an extract. Agallochum is at present of very little AERUGO [L. E.] Verdegris. use in medicine, and rarely to be This is a preparation of copper, met with in the shops: If it could

could be easily procured, it bids fair to be a very useful cordial; Hoffman greatly recommends in this intention the distilled oil and spirituous tincture; and esteems a mixture of this last with tincture of steel an excellent corroborant.

AGARICUS [L. E.] agaricus five fungus laricis, C. B. Agaric; a fungus growing on old larch trees. This fungus is an irregular fpongy substance, extremely light, and of an uniform fnowy whiteness (except the cortical part, which is usually taken off before the agaric is brought into the shops.) It cuts freely, without discovering any hardness or grittiness, and readily crumbles betwixt the fingers into a powder. Agaric has no remarkable fmell: Its tafte is at first fweetish, but on chewing for a little while, proves acrid, bitter and naufeous. It was formerly in great esteem as a cathartic, but the present practice has almost entirely rejected its use. It operates exceeding flowly, infomuch that fome have denied it to have any purgative virtue at all: Given in fubstance, it almost always occafions a nausea, not unfrequently vomiting, and sometimes excessive tormina of the bowels; these effects are attributed to its light farinaceous matter adhering to the coats of the intestines, and producing a constant irritation. The best preparation of agaric seems to be an extract made with water acuated with fixt alcaline falt; or with vinegar or wine: The first is faid by Bolduc, and the two latter by Neuman, to prove effectual and fafe purgatives. Nevertheless this is at best a precarious medicine, which we stand in no manner of need of; hence the college have justly rejected it from all the compositions which it formerly had a place in, except the mithridate and theriaca.

AGARICUS pedis equini facie, Tourn Female agaric, called, from its being very eafily inflammable, touchwood, or fpunk. This fungus is frequently met with, on different kinds of trees in England; and has been fometimes brought into the fhops mixt with the true agaric of the larch: From this it is eafily diftinguishable by its greater weight, dusky colour, and mucilaginous taste, void of bitterness. The medullary part of this sungus, beat soft, and applied externally, has been of late greatly celebrated as a styptic, and faid to restrain not only venal but arterial hæmorrhages, without the use of ligature.

AGERATUM — [E.] ageratum foliis serratis, C. B. ptarmica lutea suaveolens, Tourn. Maud-lin; the leaves. This is a slender plant, clothed all over with narrow ferrated leaves. It is a native of Italy, and other warm countries: with us, it is raifed in gardens, and flowers in July and August -Maudlin has a light agreeable finell; and a roughish, somewhat warm and bitter tafte. These qualities point out its use in cold pituitous diforders, and for strengthening the tone of the intestines: Boerhaave recommends it as a fudorific, and in cold fcurvies. It has long been a ftranger to prac-

AGNUS CASTUS [E.] agms folio non ferrato, J. B. The chafte tree; its feeds.—This is a fmall tree, or rather fhrub, growing frontaneously in Italy, &c. and raised with us in gardens. Its fruit, which is about the fize of a pepper corn, contains four longish feeds, of an aromatic smell, and F 3

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an acrid, bitterish taste. These seeds have been celebrated as antaphrodisiacs; but experience does not warrant their having any such virtues. The opinion of their possessing this quality seems to have no other foundation than the ceremony observed by the Grecian matrons of old, of strewing the leaves in the temples at the celebration of the featls of Ceres, during which a strict continency was enjoined.

AGRIMONIA [E.] cupatorium veterum seu agrimonia, C. B. Agrimony; the leaves - This is a common plant in hedges, and the borders of fields. The leaves have an herbaceous, fomewhat acrid, roughish taste, accompanied with an aromatic flavour. Agrimony is aperient, detergent, and strengthens the tone of the vifcera: Hence it proves ferviceable in fcorbutic diforders, in debility and laxity of the intestines, &c. Digested in whey, it affords an ufeful dietdrink for the fpring feafon, not ungrateful to the palate or flomach,

ALCANNA, vide Anchusa.

ALCEA; aleea vulgaris major, C. B. malva verbenaca Gerardii. Vervain mallow. This is eafily diffinguishable from the common and marsh mallow, by its leaves being jagged or cut in about the edges: It grows in hedges, and flowers greatest part of the summer. Alcea agrees in quality with the ALTHEA and MALVA VULGARIS; but appears to be less mucilaginous than either.

ALCHIMILLA — [E.] alchimilla vulgaris, G. B. Ladies mantle; the leaves. This grows wild in many parts of England, but is rarely met with about London: The leaves feem as if plaited or

folded together, so as to have given occasion to the English name of the plant. All the parts of alchimilla discover to the taste a rough glutinous quality; and hence may be of service in disorders proceeding from a laxity of the folids, and a thin acrimonious state of the sluids. This herb was formerly much esteemed in some semale weaknesses, and in sluxes of the belly; as also for conglutinating wounds and ulcers; at present it is very rarely made use of.

ALCIS UNGULA [E.] Elks hoof. The elk is a large animal of the flag kind, met with in Mufcovy, and other cold countries. The hoof of one of the hinder feet has been celebrated against epilepfies, from a ridiculous opinion that the elk is himself subject to difforders of this kind, and prevents or removes them by feratching his ear with his hoof.

ALSIMA, vide Doronicum.

ALKEKENGI [E.] folanum wesicarium, C. B. Winter cherry; the fruit. This is a low, branched shrub, bearing leaves like those of nightshade; with white flowers, which fland fingle at the joints. The flower cup changes into a membranous cover, which atlength bursts and discovers a fruit of a fine red colour, about the fize of a common cherry: The fruit ripens in October, and continues frequently to the middle of December. This plant grows wild in some parts of France, Germany, &c. the elegance and lateness of its fruit has gained it a place in our gardens.— Winter cherries are faid by most writers to be extremely bitter; but, as Haller juftly observes, the cherry itself, if carefully freed from the

cover (which is intenfely bitter, has merely a fubacid tafle. They fland highly recommended as detergent, aperient, diuretic, and for expelling gravel: Four, five, or more of the cherries are directed for a dofe, or an ounce of the expressed juice. Mr. Ray tells us of a gouty person who was cured and kept free from returns of his disorder, by taking eight of these cherries at each change of the moon; these occasioned a copious discharge of extremely feetid urine.

ALLIARIA [E.] besperis allium redolens, Tourn. Sauce alone, or jack by the hedge; the leaves. This is frequent in hedges and shady waste places, slowering in May and June. The leaves have a bitter acrid tafte, and, when rubbed betwixt the fingers, a strong smell, approaching to that of garlic. They are esteemed aperient and diuretic. Borhaave directs the use of this plant in diseases where acidities abound, in cold fcurvies where there is no tendency to putrefaction, and in pleurifies where there is danger of a gangrene. Externally, it is recommended by Hildanus in mortifications; by Chomel, in cancerous ulcers; and by Boerhaave, in both: The latter reports, that in these cases he has frequently experienced its good effects. Hildanus used to gather the herb for these purposes in the fpring, and expose it for a day to the action of a dry air in a shady place: Being then committed to the press, it yielded a juice posfeffing the fmell and tafte of the alliana: this, he informs us, with a little oil on the furface, keeps in perfection for years.

ALLIUM; [L. E.] allium fativum, C. B. Garlic; the roots. These roots are of the bulbous kind, of an irregularly roundish shape. with feveral fibres at the bottom: Each root is composed of a number of leffer bulbs called cloves of garlic, inclosed in one common membranous coat, and eafily feparable from one another. All the parts of this plant, but more especially the roots, have a ffrong offensive smell, and an acrimonious almost caustic taste. The root applied to the fkin inflames and often exulcerates the part: The fmell is extremely penetrating and diffufive; when applied to the feet, the fcent is foon discoverable in the breath; taken internally, its smell is communicated to the urine, or the matter of an iffue, and perfpires thro' the pores of the fkin.

Garlic has been celebrated by many practical writers in a great variety of diforders; whilst others condemn it not only as on offenfive, but likewife as a noxious plant. It is certain there are many cases in which garlic proves highly prejudicial; but there are also fee veral in which it is of great utility. Its real effects are, to warm and stimulate the folids, and to disfolve tenacious juices. Hence in cold leucophlegmatic habits, it proves a powerful expectorant, deobstruent, diuretic and emmenagogue; and, if the patient is kept warm, a notable sudorific. In humoral afthmas, and catarrhous diforders of the breaft, in cold feurvies, statulent colics, hysterical and other diseases proceeding from a laxity of the folids, and cold fluggish indisposition of the fluids, this medicine has generally good effects: It has likewife been found ferviceable in fundry hydropic cafes: Sydenham relates, that he has known the dropfy cured by the ufe of garlic alone; he recommends it chiefly as a warm firengthening medicine in the beginning of the disease.

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The liberal use of garlic, is apt to occasion headachs, statulencies, thirst, febrile heats, instammatory distempers, and sometimes discharges of blood from the hamorrhoidal vessels. In hot bilious constitutions, where there is already a degree of irritation, where the juices are too thin and acrimonious, or the viscera unfound; this stimulating medicine is manifestly improper, and never fails to aggravate the difference.

The most commodious form for the exhibition of garlic, a medicine to most fusficiently unpleafant, is that of a bolus or pill. Infusions in spirit, wine, vinegar, and water, although containing the whole of its virtues, are fo acrimonious as to be unfit for general ufe. An extract made from the tincture in pure spirit, loses nothing of the virtues of the garlic by the treatment necessary to reduce it into this form ; whilst the watery infutions, treated in the fame manner, are almost entirely deprived of imeli and tafte.

In diffillation with water, an effential oil arifes of an extremely ftrong fmell and pungent tafte.—A fyrup and oxymel of garlic are

kept in the shops.

Garlic made into an unquent with oils, &c. and applied externally, refolves and discusses cold tumors, and has been by fome greatly effeemed in cutaneous difeafes. It has likewife fometimes been employed as a repellent: Sydenham affores us, that among all the fubstances which occasion a derivation or revulsion from the head, none operate more powerfully than garlie applied to the foles of the feet : Hence he was led to make use of it in the conductt small pox; about the eighth day after the face began to swell, the root cut in pieces, and tied in a linen cloth, was applied to the foles, and re-

The liberal use of garlic, is apt newed once a day till all danger occasion headachs, flatulencies, was over.

ALNUS VULGARIS; almus rotundifolia glutinofa wiridis, C. B. The leaves and bark of the alder tree. These have a bitter styptic disagreeable taste. The bark is recommended by some in intermittent severs; and a decoction of it, in gargarisms for inflammations of the tonsils.

ALNUS NIGRA; [E.] almos nigra baccifera, J. B. The black or berry-bearing alder, is common in most woods in divers parts of England. The internal bark of the trunc or root of the tree, given to the quantity of a dram, purges violently, occasioning gripes, nause, and vomiting. These may be in good measure prevented by the addition of aromatics; but as we have plenty of safer and less precarious purgatives, practitioners have deservedly rejected this.

ALOE [L. E.] Aloes is the inspissated juice of certain plants of the same name. The ancients distinguished two forts of aloes; the one was pure and of a yellowish colour, inclining to red, refembling the colour of a liver, and thence named hepatic; the other was full of impurities, and hence supposed to be only the drofs of the better kind. At prefent, various forts are met with in the shops; which are distinguished either from the places, from the species of the plants, or from fome differences in the juices themselves. These may be all ranged in three classes:

(1) ALOE SOCOTORINA. Socotorine aloes, brought from the island Socotora in the Indian ocean, wrapt in skins; it is obtained from the aloe succetorina angustifolia spinosa, fiore purpureo, Breyn. & Commelin. — This fort is the

pureft

furface, clear, and in some degree of water; the impurities only bepellucid; in the lump, of a yel- ing left. They diffolve also by lowish red colour, with a purple cast; when reduced to powder, of a bright golden colour. It is hard and friable in the winter, fomewhat pliable in fummer, and grows foft betwixt the fingers. Its tafte is bitter, accompanied with an aromatic flavour, but infufficient to prevent its being disagreeable: The smell is not very unpleasant, and fomewhat refembles that of myrrh.

(2) ALOE HEPATICA. Hepatic, Barbadoes, China, or common aloes; the juice of the aloe C. B. aloe vera vulgaris, Munting. -Hepatic aloes is not fo clear and bright as the foregoing fort: It is alfo of a darker colour, more compact texture, and for the most part dryer. Its fmell is much ftronger and more difagreeable: The tafte intenfely bitter and naufeous, with little or nothing of the fine aromatic flavour of the Socotorine. - The best hepatic aloes comes from Barbadoes in large gourd shells; an inferior fort of it (which is generally foft and clammy) is brought over in casks.

(3) ALOE CABALLINA. Guinea, fetid, caballine, or horse aloes; bitter: If given in so large a dose the produce of the aloe Guinensis caballina vulgari similis, sed tota maculata, Commelin. - This fort is eafily diftinguished from both the foregoing, by its strong rank smell; aloes is prepared fo pure and bright, as not to be diffinguishable by the its offensive smell, which it cannot be divested of, readily betrays it.

All the forts of aloes diffolve in

purest of the three: it is of a glossy spirit diluted with half its weight the affiftance of heat in water alone; but as the liquor grows cold, the refinous part fubfides, the gummy remaining united with the water. The hapatic aloes is found to contain more refin, and less gum than the focotorine, and this than the caballine. The refins of all the forts, purified by spirit of wine, have little smell: That obtained from the focotorine has fcarce any perceptible tafte; that of the hepatic, a flight bitterish relish, and the refin of the caballine, a little more of the aloetic flavour. The gummy extracts of all the forts are less disagreeable than the crude aloes: The extract of focotorine aloes has very little fmell, and is in taffe not unpleafant; that of the heoatic has a fomewhat stronger fmell, but is rather more agreeable in tafte than the extract of the focotorine: The gum of the caballine retains a confiderable share of the peculiar rank fmell of this fort of aloes, but its tafte is not much more unpleasant than that of the extracts made from the two other

Aloes is a flimulating cathartic as to purge effectually, it often occasions an irritation about the anus, and fometimes a discharge of blood. Small doses of it frequently repeated, not only cleanse the although, in other respects, it primæ viæ, but likewise attenuate agrees pretty much with the hepa- and dissolve viscid juices in the tic, and is not unfrequently fold in remoter parts, warm the habit, its flead. Sometimes the caballine quicken the circulation, and promote the uterine and hæmorrhoidal fluxes. This medicine is particueye even from the Socotorine; but larly ferviceable in persons of a phlegmatic temperament and fedentary life, and where the stomach is oppressed and weakened: pure spirit, proof spirit, and proof In dry bilious habits, aloes proves

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injurious, immoderately heating the blood, and inflaming the bowels.—This juice is likewife, on account of its bitternefs, fupposed to kill worms, either taken internally, or applied in plaisters to the umbilical region. It is also celebrated for restraining external hæmorrhagies, cleansing and heal-

ing wounds and ulcers.

The ancients exhibited aloes in much larger doses than is customary at present. Dioscorides orders half a dram or a dram for gently loosening the belly; and three drams when intended to have the full effect of a cathartic. But modern practice rarely exceeds a scruple, and limits the greatest dose to two scruples: For the common purposes of this medicine, ten or twelve grains are sufficient; taken in these quantities, itacks as a gentle stimulating eccoprotic, capable of removing, if duly continued, very obstinate obstructions.

Some are of opinion, that the purgative virtue of aloes refides entirely in its refin; but experience has shewn, that the pure refin has little or no purgative quality; and that the gummy part separated from the refinous, acts more powerfully than crude aloes. If the aloes indeed be made to undergo long coction in the preparation of the gummy extract, its cathartic power will be confiderably leffened, not from the separation of the refin, but from an alteration made in the juice itself by the heat. The frongest vegetable cathartics become mild by a like treatment, without any remarkable separation of their parts .- Socotorine aloes, as formerly observed, contains more gummy matter than the hepatic; and hence it is likewife found to purge more, and with greater irritation. The first fort therefore is most proper where a fimulus is required, as for promoting or exciting the menstrual flux; whilst the latter is better calculated to act as a common purge. The vulnerary and balfamic virtues of this juice reside chiesly in the resin; and hence the hepatic aloes, which is most resinous, is found most serviceable in external applications.

ALSINE [E.] alfine vulgaris five morfus galline, J. B. Chick-weed. This plant was employed by the ancients externally against eryfipelatous, and other inflammatory diforders. Later times have given it internally in hæmoptoes, as a restorative in atrophies and confumptions, and likewife as an Some recommend antepileptic. for these purposes the expressed juice to be taken to the quantity of an ounce; others the dryed leaves. in the dose of a dram; and others a water diffilled from them. But if any real benefit is expected from alfine, it ought to be used liberally as food; though even then, its effects would not be fuperior to those of more approved culinary herbs.

ALTHÆA [L. E.] althæa Dioscoridis et Plinii, C. B. Marshmallows grows wild in marshes and other moist places, in several parts of England; though frequently cultivated for medicinal use in gardens .- All the parts have a mucilaginous tafte, and abound with a foft glutinous fubstance, which is readily extracted by water: The mucilage of the roots is strongest, and has the greatest body: and hence this part is generally made use of in preference to the others. This plant has the general virtues of an emollient medicine; and proves ferviceable in a thin acrimonious state of the juices, and where the natural

mucus of the intestines is abraded. It is chiefly recommended in fharp defluxions upon the lungs, hoarfeness, dysenteries, and likewise in nephritic and calculous complaints: not, as fome have supposed, that this medicine has any peculiar power of diffolving or expelling the calculus: but as, by lubricating and relaxing the veffels, it procures a more free and eafy paffage. Althæa root is fometimes employed externally for foftening and maturating hard tumours: chewed, it is faid to give eafe in difficult dentition of children.

ALUMEN. [L. E.] Alum is a falt artificially produced from cer-tain minerals, by calcining and exposing them to the air; after which the alum is elixated by means of water. The largest quantities are prepared in England, Germany, and Italy .- This falt is of a white or pale red colour, of an auftere flyptic taste, accompanied with a nauseous sweetishness. It dissolves in about fourteen times its weight of water; and concretes again, upon duly evaporating the folution, into femitransparent crystals, of an octogonal figure. Exposed to the fire, it eafily melts, bubbles up in blifters, emits a copious phlegm, and then turns into a light spongy white mass, considerably more acrid than the alum was at first: This urged with a stronger fire, yields a small quantity of acid spirit, fimilar to that obtained by the fame means from vitriol; the part which remains, if the heat has been fufficiently intense and long continued, is an infipid white earth, readily foluble in every kind of Solutions of alum coagulate milk, change the blue colour of vegetable juices into a red or purple, and turn an infusion of galls turbid and whitish. Upon

adding fixt alcaline falts to thefe folutions, the earth of the alum is precipitated, its acid uniting with the alcali into a neutral faline concrete fimilar to vitriolated tartar .-Alum confidered as a medicine is a very powerful aftringent; and as fuch is common in external applications, and likewise not unfrequently exhibited internally from one grain to fifteen or twenty, and fometimes more. It may be commodioufly exhibited in conjunction with refinous fubilances, which it readily unites with, if the powdered falt be ffirred into the refin liquefied: The refine usually made choice of for this purpose is dra-gons blood. Dr. Thompson, in the Edinburgh effays, vouches for the good effects of a powder composed of equal parts of these; and affures us, that he had never found any medicine, though he had tried feveral, fo much to be depended on in uterine hæmorrhagies, whether to correct the too frequent return of the menses, or their too great abundance, to flop the floodings which women with child are fubject to, or moderate the flow of the lochia. In violent bleeding, he gave half a dram every half hour, and feldom failed to flop the discharge before three or four drams had been taken. The fuccess of this medicine in these diforders induced him to prescribe it in the fluor albus; and in this likewife it had excellent effects -Allum is best exhibited in small dofes frequently repeated : In large ones it naufeates the flomach; proves on first taking it, purgative; and leaves afterwards violent constipations of the bowels.

AMARACUS, vide MAJORANA.

AMBRAGRISEA. [L. E.] Ambergris is a bituminous fubstance of a greyish

a greyish or ash colour, intermingled with yellowish and blackish specks or veins: it is usually met with in little opake rugged maffes, very light, of a loofe texture, friable in a certain degree like wax ; they break rough and uneven, and not unfrequently contain pieces of shells, bones of fishes, and other like matters. This concrete is found floating on the furface of the fea, or thrown out upon the thores: the greatest quantities are met with in the Indian ocean; pieces have likewise been now and then discovered in our own and other northern feas. Pure ambergris foftens betwixt the fingers; melts in a fmall degree of heat into the appearance of oil, and in a stronger provesalmost totally volatile. Warmed a little, it emits a peculiar fragrant fmell; fet on fire, it fmells like burning amber. It totally diffolves in spirit of wine, and essential oils; but not in expressed oils or in water. Ambergris is in general the most agreeable of the perfumes, and rarely accompanied with the inconveniences which other fubstances of this class frequently occasion. It is looked upon as an high cordial, and esteemed of great fervice in all diforders of the head, and in nervous complaints : a folution of it in a spirit distilled from roses, stands recommended by Hoffman as one of the most efficacious corroborants of the nervous system. The orientals entertain an high opinion of the aphrodifiac virtues of this concrete; and likewife furpofe that the frequent use of it conduces to long life.

AMMEOS VERI [E] femen; animeos odore origani, J. B. The feeds of the true ammi or bishops weed, brought from Egypt. Thele are imall firiated feeds, of a reddish taffe, and a pleafant fmell approaching to that of origanum. They are recommended as stomachic, carminative, and diuretic, but have long been strangers to the shops: their place has been generally fupplied by the feeds of a plant common in our own country, though not a native of it, viz.

AMMI VULGARE, [L. E.] ammi vulgare majus, latioribus foliis femine minus odorato, J. B. Com-mon bishops weed. The feeds of this plant are fomewhat larger and paler coloured than the foregoing their smell and tafte is weaker, and without any thing of the origanum flavour of the true ammi. are ranked among the four leffer hot feeds, but are scarce otherwise made use of than as an ingredient

AMMONIACUM GUMMI. [L. E.] Ammoniacum is a concrete gummy refinous juice, brought from the East Indies, usually in large maffes, composed of little lumps or tears, of a milky colour, but foon changing, upon being expofed to the air, of a yellowish hue. We have no certain account of the plant which affords this juice : the feeds usually found among the tears, refemble those of the umbelliferous class. Such tears as are large, dry, free from little flones, feeds, or other impurities, should be picked out and preferred for internal use: the coarfer kind is purified by folution and colature, and then carefully inspissating it; unless this be artfully managed, the gum will lofe a considerable deal of its essential oil: the strained gum of the shops is a grievous abuse, being a composition of ingredients much inferior in virtue. Ammoniacum has a naufeous fweet talte, followed by a bitter one; and a peculiar finell brown colour, a warm pungent fomewhat like that of galbanom,

but more grateful; it foftens in the mouth, and grows of a whiter colour upon being chewed. Thrown upon live coals, it burns away in flame: it is in some measure soluble in water and in vinegar, with which it assumes the appearance of milk; but the refinous part, amounting to about one half, subsides on standing. Ammoniacum is an ufeful deobstruent; and frequently prescribed for opening obstructions of the abdominal vifcera, and in hysterical diforders occasioned by a deficiency of the menstrual evacuations. It likewisedeterges the pulmonary veffels, and proves of confiderable fervice in fome kinds of afthmas, where the lungs are oppressed by viscid phlegm: in this intention, a folution of gum ammoniac in vinegar of fquills proves a medicine of great efficacy. In long and obstinate colics proceeding from viscid matter lodged in the intestines, this gummy refin has often produced happy effects, after purges and the common carminatives had been used Ammoniacum is most in vain. commodiously exhibited in the form of pills: about a scruple may be given every night or oftner. Externally it foftens and ripens hard tumours: a folution of it in vinegar stands recommended by some for refolving even schirrhous swellings.

AMOMI VERI femen [L. E.] amomi racemofi, C. B. The feeds of the true amomum brought from the East Indies. The true amomum is a round fruit, about the fize of a middling grape; containing under a membranous cover, a number of small rough angular feeds, of a blackish brown colour on the outside, and whitish within: the feeds are lodged in three distinct cells; those in each cell are joined closely together, so as that the fruit upon being opened, appears to contain

only three feeds. Ten or twelve of these fruits grow together in a cluster, and adhere, without any pedicle, to a woody stalk about an inch long: each fingle fruit is fur-rounded by fix leaves, in form of a cup; and the part of the flalk void of fruit is clothed with leafy fcales. The hufks, leaves, and stems have a light grateful smell, and a moderately warm aromatic taste: the seeds freed from the husks, are in both respects much ftronger; their fmell is quick and penetrating, their tafte pungent, approaching to that of camphor. Notwithstanding amomum is an elegant aromatic, it has long been a firanger to the shops: it is directed as an ingredient in the theriaca the college of Edinburgh, fubilitute to it cloves; that of London, the feeds of a plant of our own growth, called

AMOMUM VULGARE [L.E.] fison quod amonum officinis nostris, C. B. Sium aromaticum, Tourn. The feeds of the common amomum (or bastard stone parsley) are very different in their appearance and manner of growth from the foregoing: they stand in form of umbels, and are joined two together without any common covering; they are small, striated, of an oval figure, and brown colour. Their tafte is warm and aromatic, but confiderably different from that of the amomum verum, and much weaker. Water extracts little of their flavour by infusion, but elevates the whole in distillation; rectified spirit extracts the whole, but elevates very little: hence the watery extract has no taste or fmell of the feeds; whilft the spirituous posfesies their flavour in great perfection. It is observable that the tincture drawn from them with pure fpirit is of a beautiful green colour. These feeds have been re-

com-

commended as carminative, aperient, diuretic and emmenagogue: but they are at prefent little regarded in practice.

AMYGDALÆ AMARÆ et DULCES; [L. E.] Sweet and bitter almonds. The almond is a flattish kernel, of a white colour, covered with a thin brownish skin: of a foft sweet tafte; or a disagreeable bitter one. The fkins of both forts are unpleafant, and covered with an acrid powdery substance: they are very apt to become rancid on keeping, and to be preyed on by a kind of infect, which eats out the internal part, leaving the almond to appearance entire. The fruit which affords these kernels, is the produce of a tree greatly refembling the peach, called by C. B. amygdalus fativa. The eye distinguishes no difference betwixt the trees which produce the fweet and bitter almonds, or betwixt the kernels themselves: one and the same tree has by a difference in the culture afforded fometimes one fort and fometimes the other.

Both forts of almonds yield on expression, a large quantity of oil, which has no fmell or any particular tafte: this oil separates likewise upon boiling the almonds in water, and is gradually collected on the furface: on trituration with water, it unites therewith, by the mediation of the other matter of the almond, and forms an unctuous milky liquor. Sweet almonds are of greater use in food than as medicines; but they do not feem to af. ford much nourishment, and when eaten in substance are not easy of digestion, unless throughly com-minuted. They are supposed, on account of their foft uncluous quality, to obtund acrimonious juices in the primæ viæ: peeled sweet almonds, eaten fix or eight at a time,

fometimes give prefent relief in the foda. Bitter almonds have been found poisonous to dogs, and fundry other animals; and a water diffilled from them, when made of a certain degree of strength, has had like effects. Nevertheless, eaten, they appear innocent to men, and have been not unfrequently exhibited as medicines: Boerhaave recommends them in substance as diuretics which heat moderately, and which may therefore be ventured upon in acute diseases. oils obtained by expression from both forts of almonds are in their fenfible qualities the fame. The general virtues of these oils are, to blunt acrimonious humours, and to foften and relax the folids: hence their use internally, in tickling coughs, heat of urine, pains and inflammations; and externally in tension and rigidity of particular parts. The milky folutions of almonds in watery liquors, commonly called emulfions, contain the oil of the subject, and participate in some degree of the emollient virtue thereof; but have this advantage above the pure oil, that they may be given in acute or inflammatory diforders, without danger of the ill effects which the oil might fometimes produce; fince emulfions do not turn rancid or acrimonious by heat, as all the oils of this kind in a little time do. Several unctuous and refinous fubflances, of themfelves not miscible with water, may by trituration with almonds be eafily mixed with it into the form of an emulsion; and are thus excellently fitted for exhibition. In this form, camphor and the refinous purgatives may be commodioufly exhibited.

ANACARDIA. [E.] Anacardium or malaca bean. This is the fruit of a tree growing in Malabar, and

and other parts of the East Indies. It is of a shining black colour, of the shape of a heart flattened, about an inch long, terminating at one end in an obtuse point, and adhering by the other to a wrinkled stalk. It contains, within two shells, a kernel of a sweetish taste: betwixt the shells is lodged a thick acrid juice. The medical virtues of anacardia have been greatly disputed : many have attributed to them the faculty of comforting the brain and nerves, fortifying the memory, quickening the intellect; and hence a confection made from them has been dignified with the title of confectio fapientum: others think it better deserves the name of confection stultorum, and mention instances of its continued use having rendered people maniacal. But the kernel of anacardium is not different in quality from that of almonds. The ill effects attributed to this fruit belong only to the juice contained betwixt the kernels, whose acrimony is fo great, that it is employed by the Indians as a caustic. This juice is recommended externally for tettars, freckles, and other cutaneous deformities; which it effectually removes by exulcerating the part, fo that a new skin comes underneath. Geoffroy cautions women to abilain from this cosmetic during menstruation; and affures us, that he has feen erysipelas's break out over the whole face, from making use of it at that pe-

ANAGALLIS; [E.] anagallis phaniceo fiore, C. B. et anagallis fiore cærulco, C. B. Common, male, and female pimpernel. Pimpernel is a low plant, in appearance refembling chickweed; but eafily diftinguishable by its leaves being spotted underneath, and joined immediately to the stalk. The male and female

pimpernels differ no otherwise than in the colour of their flowers: they are both found wild in the fields, but the male or red flowered fort is most common. Both the pimpernels have an harbaceous, roughish taste, with little or no smell. Many extraordinary virtues have been attributed to them. Geoffroy effeems them cephalic, fudorific, vulnerary, antimaniacal, antepileptic, and alexeterial. Tragus, Cafpar Hoffman, Michaeli, and others, are also very liberal in their praises: one of these gentlemen declares, that he has known a thousand instances of the fingular efficacy of a decoction and tincture of pimpernel, in maniacal and melancholic deliria. But later practitioners have not been so happy as to meet with the like success. Pimpernel is not unfrequently taken as food: it makes no unpleasant salad; and in fome parts of this kingdom, is a common pot-herb. A spirituous tincture of it contains nothing valuable; the only preparation that promifes any utility is an extract made with water.

ANAGALLIS AQUATICA, vide Becabunga.

ANCHUSÆ RADIX; [E.] bugloffi radice rubra, Tourn. Alkanet root. Alkanet is a rough hairy plant, much resembling the vipers buglofs: its chief difference from the common bugloffes confifts in the colour of its roots; the cortical part of which is of a dusky red, and imparts an elegant deep red to oils, wax, and all uncluous fubstances, but not to watery liquors. This plant is a native of the warmer parts of Europe: it is fometimes cultivated in our gardens; but the greatest quantities are raised in Germany and France, particularly about Montpelier, from whence, the dried

roots are usually imported to us. The alkanet root produced in England is much inferior in colour to that brought from abroad; the English being only lightly reddish, the others of a deep purplish red: this has induced some to suspect that the foreign roots owe part of their colour to art, but we think without foundation. Alkanet root has little or no fmell: when recent, it has a bitterish astringent taste, but dried fcarce any. As to its virtues, the present practice expects not any from it. Its chief use is for colouring oils, unquents and plasters. As the colour is confined to the cortical part, the smallest roots should be made choice of, these containing proportionably more bark than the larger.

ANETHI SEMEN; [L. E.] anethi hortenfis, C. B. Dill feed. Dill is an umbelliferous plant, cultivated in gardens, as well for culinary as medical use. The feeds are of a pale yellowish colour, in shape nearly oval, convex on one fide, flat on the other. Their tafte is moderately warm and pungent; their fmell aromatic, but not of the most agreeable kind. These seeds are recommended as a carminative. in flatulent colics proceeding from a cold cause or a viscidity of the juices. The most efficacious preparations of them are, the distilled oil, and a tincture or extract made with reclified spirit.

ANGELICA [L. E.] angelica Sativa, C. B. imperatoria sativa, Tourn. Garden angelica; the roots, leaves and feeds. This is a large umbelliferous plant, growing spontaneously in the northern climates: for the use of the shops, it is cultivated in gardens, in the different parts of Europe: Bohemia and Spain are faid to produce the best; the

college direct the roots brought from Spain to be alone made use of. Angelica roots are apt to grow mouldy, and be preyed upon by infects, unless throughly dried, kept in a dry place, and frequently aired: we apprehend that the roots which are subject to this inconvenience might be preserved by dipping them in boiling spirit, or expofing them to its fleam, after they are dried.

All the parts of angelica, especially the root, have a fragrant fweet fmell; and a pleafant bitterish warm taste, glowing upon the lips and palate for a long time after they have been chewed. The slavour of the feeds and leaves is very perishable, particularly that of the latter, which on being barely dried, lose the greatest part of their taste and fmell: the roots are more tenacious of their flavour, though even thefe lose part of it upon keeping. The fresh root, wounded early in the fpring, weeps an unctuous, odorous, yellow juice, which flowly exficcated, proves an elegant aromatic gummy refin, very rich in the virtues of the angelica. On drying the root, this juice concretes into distinct moleculæ, which on cutting it longitudinally, appear distributed in little veins: in this state, they are readily extracted by pure spirit, but not by watery liquors. Angelica is one of the most elegant aromatics of European growth, though little regarded in the present practice. The root. which is the most efficacious part, is rarely met with in prescription, and does not enter any officinal composition. Some of the distilled waters owe their pleafantness to the leaves and feeds. The stalks make an agreeable fweet meat.

ANGUILLÆ HEPAR. The liver of the eel. The liver and gall gall of the eel are extremely acrid. They have been held a specific in difficult births; and enter the principal compositions for that intention in foreign pharmacopæias; though it is certain, that in most cases of this kind, acrid irritating medicines are really injurious.

ANIME; [E.] a refin exuding from the trunk of a large American tree, called by Pifo jetaiba, by the Indians courbaril. This refin is of a transparent amber colour, a light agreeable fmell, and little or no taste. It dissolves intirely, but not very readily, in rectified spirit; the impurities, which are often in large quantity, remaining behind. The Brazilians are said to employ anime in sumigations for pains and aches poceeding from a cold cause: with us, it is rarely, if ever, made use of for medicinal purposes.

ANISUM; [L. E.] apium anifum dictum semine suaveolente, Tourn. Anise; the seed. Anise is an annual umbelliferous plant, growing naturally in Crete, Syria, and other places of the East. It is cultivated in some parts of France, Germany, and Spain: the feeds brought from Spain, which are fmaller than the others, are preferred. Anifeeds have an aromatic fmell, and a pleafant warm tafte, accompanied with a degree of sweetness. Water extracts very little of their flavour; rectified fpirit the whole. feeds are in the number of the four greater hot feeds: their principal use is in cold flatulent diforders, where tenacious phlegm abounds, and in the gripes to which young children are subject. Frederic Hoffman strongly recommends them in weakness of the stomac, diarrheeas, and for strengthening the tone of the vifcera in general; and thinks they well deserve the appellation

given them by Helmont, intestinorum solamen.

ANONIS, vide Ononis.
ANSERINA, vide ARGENTINA;

ANTIMONIUM, [L. E.] fibium. Antimony is a ponderous brittle mineral, composed of long thining streaks like needles, intermingled with a dark lead coloured fubstance; of no manifest taste or fmell. There are feveral mines of it in Germany, Hungary, and France; and fome likewife in England. The English seems to be of all the others the least proper for medicinal use, as frequently containing a portion of lead, which is not separable by any of the common methods of purification. The fubflances found mixed with the foreign forts are generally of the unfufible flony kind, from which the antimony is melted out in veffels, whose bottom is perforated with fmall holes, and received in conical moulds: in thefe, the lighter and more drofly matter arifes to the furface; whilst the more pure and ponderous fubfides to the bottom: hence the upper broad part of the loaves is confiderably less pure than the lower. The goodness of antimony is judged of from its weight: from the loaves not being spongy or blebby; from the largeness of the striæ; and from the antimony totally evaporating in a strong fire.

Antimony was employed by the ancients in collyria against instammations of the eyes; and for slaining the eye-brows black. Its internal use does not seem to have been established till towards the end of the fisteenth century; and even at this time it was by many looked upon as poisonous. But experience has now fully evinced, that pure antimony, in its crude state, has no obnoxious quality; that some of the

prepa-

This mineral appears from chemical experiments to confift of a femi-metal united with common fulphur, and reducible into its metallic form by the fame means whereby other metallic bodies are extracted from their ores. The pure femi-metal operates in a very minute dose with extreme vehemence, as a purgative and emetic: when combined with fulphur, as in the crude mineral, its power is re-ftrained: divested of the inflammable principle which it has in common with all perfectly metallic bodies, it becomes an indolent calx. See part ii. chap. x. fect. 8.

ANTITHORA, [E] five anthora: aconitum falutiferum, C. B. Aconitum foliorum laciniis linearibus, ubique ejusdem latitudinis, Linnæi. Wholesome wolfsbane, the roots. This plant may be diftinguished from the poisonous aconites by its leaves being more finely divided, and not all bright or shining: it grows wild on the Alps. root has been supposed useful against poisons, particularly that of the thora, (whence its name.) Some nevertheless look upon this pretended antidote itself as unsafe: Fred. Hoffman fays it is violently cathartic, and has produced dangerous disorders of the stomach, accompanied with heat, thirst, and anxiety. On the other hand Geoffroy relates, that he has never observed any purgative quality in this root, or any ill confequence from its use; that he has frequently exhibited it, and always with good fuccefs, against worms, and in mawere occasioned by viscidities in the flomach and intestines: the dose from a scruple to a dram. A competency of experiments to fully determine this point, is as yet wanting, the root never having come into general practice: its tafte is acrid and bitter.

ANTITHORA, vide ANTHO-

APARINE [E.] vulgaris C. B. Goofegrass or clivers; the leaves. This is a flender, rough plant, common in hedges, &c. It is recommended as an aperient, but practice has no regard to it.

APES, [E.] Bees; their bodies, honey, wax, and the gluey fub-ftance called bee-bread. This laft, applied externally, is faid to draw and heal; the body of the bee, dried and pulverized, to cure the alopecia, and, given internally, to promote urine; but they have both been for a long time strangers to the shops. The honey and wax we shall speak of under the respective heads.

APIUM HORTENSE, vide PETROSELINUM.

APIUM [E] palustre Cam. apium foliis caulinis cuneiformibus, Linnæi. Smallage, the roots and feeds. This plant is larger than the garden apium (parsley,) of a darker green colour, and of a stronger and more unpleasant flavour. The roots are in the number of the five called opening roots; and the feeds, of the four leffer hot feeds: the latter have been fometimes prescribed as a carminative and the former in aperient apozems and diet drinks; but both are at present difregarded.

AQUI-

AQUILEGIA [E] flore simplici, Raii Syn. Columbines; the leaves and feed. This grows wild in woods, but is not very common. It has been looked upon as aperient; and was formerly in great effeem among the common people for throwing out the small-pox and measles. A distilled water, medicated vinegar, and conserve were prepared from the slowers; but they have long given place to medicines of greater efficacy.

ARANEARUM TELÆ [E.] Cobwebs. These are never met with in prescription; but sometimes applied by the common people to stop the bleeding of slight wounds: this they seem to affect by adhering to the part, so as to close the orifices of the vessels, and prevent the essuing of their contents.

ARESTA BOVIS, vide ONO-

ARGENTINA: pentaphylloides minus supinum, seu procumbens, so-his alatis argenteis & serratis, store luteo, Mor. hist. Ox. Silverweed or wild tanfey, the leaves. This plant grows wild about the fides of rivulets and other moift places : it has no stalk; the leaves lie stat on the ground. The writers on the materia medica in general look upon argentina as a very strong astringent; Boerhaave relates, that it equals in virtue the Peruvian bark; Hoffman, that it powerfully re-ftrains alvine and other fluxes; Geoffroy, that it effectually flops hæmorrhagies of every kind. These virtues feem to have been attributed to this plant from its agreement in botanic characters with tormentil, which is known to be a powerful flyptic. The fenfible qualities of argentina do not promife any fuch virtues: the leaves have a merely

herbaceous tafte; the roots, a pleafant fweetish one, like that of parships, but not so strong.

ARGENTUM. [L. E.] Silver. Abundance of virtues have been attributed to crude filver by the Arabians, and by fome also of later times, but on very little foundation. This metal, exhibited in its crude flate, has no effect in the body; combined with a fmall quantity of the nitrous acid, it proves a powerful, though not always a fafe, hydragogue; with a larger, a ftrong caustic. The nitrous acid is the only one that perfectly diffolves this metal: on adding to this folution a minute portion of marine acid. or fubflances containing it, the liquor turns milky, and the filver falls to the bottom in form of a white calx : hence we are furnished with a method of discovering marine falt in waters, &c.

ARGENTUM VIVUM; [L.E.] Hydrarg yrus; Mercurius. Mercury or quickfilver. Mercury is an opake filver-coloured mineral fluid : appearing to the eye like tin or lead when melted: it is heavier than any other fluid, and than most of the metallic bodies; it does not congeal by any degree of cold hitherto known; in the fire it proves totally volatile. This mineral is either met with in its fluid form, in the earth; or extracted by art from certain ores. There are confiderable mines of it in Hungary and Spain; but the greatest quantities come from the East Indies.

The use of mercury in medicine seems to have been little known before the fifteenth century. The ancients looked upon it as a corrosive poison; though of itself perfectly void of acrimony, taste, and smell; there are numerous examples of its having been lodged for many years

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in cavities both of bones and fleshy parts, without its having injured or affected them. Taken into the body in its crude state, and undivided, it passes through the intestines unchanged, and has not been found to produce any considerable effect. It has indeed been exhibited in assume and disorders of the lungs; but the virtues attributed to it in these cases have not been warranted by experience.

Notwithstanding the mildness and inactivity of crude quicksilver undivided; when resolved by fire into the form of sume, or otherwise divided into very minute particles and prevented from re-uniting by the interposition of proper substances; or combined with mineral acids; it has very powerful effects; affording the most violent poisons, and the most excellent remedies that we are acquainted with.

The mercurial preparations, either exhibited internally or applied externally, feem to liquefy all the juices of the body, even those in the minutest and most remote veffels; and may be fo managed as to promote excretion through all the emunctories. Hence their common use in inveterate chronic disorders proceeding from a thickness and fluggishness of the humours, and obstinate obstructions of the excretory glands; in scrophulous and cutaneous diseases; and in the venereal lues. If their power is not reftrained by proper additions to certain emunctories, they tend chiefly to affect the mouth; and after having fused the juices in the remoter parts, occasion a plentiful evacuation of them from the falival glands.

The falutary effects of mercurials have no dependance on the quantity of fenfible evacuation. This medicine may be gradually introduced into the habit, fo as, without occasioning any remarkable dif-

charge, to be productive of very happy effects. To answer this purpofe, it should be exhibited in very fmall doses, in conjunction with fudorifics, or fuch substances as determine its action to the pores of the fkin. By this method inveterate cutaneous and venereal diftempers have been cured, without any other fenfible excretion than a gentle increase of perspiration. Where there are ulcers in any part of the body, they discharge for fome time an extremely fetid matter, the quantity of which becomes gradually less, and at length the ulcer kindly heals. If the mercury should at any time, from cold or the like, affect the mouth (which we have very rarely found to happen) it may be restrained by omitting a dofe, and by warmth or fuitable medicines promoting the perfpiration.

ARISTOLOCHIA. Birthwort. Three roots of this name are directed for medicinal use:

(1) ARISTOLOCHIA LONGA [L. E.] This is a tuberous root, fometimes about the fize of the finger, fometimes as thick as a man's arm, and a foot in length: it is nearly of an equal thickness all over, or a little thicker in the middle than at the ends: the outfide is of a brownish colour; the inside yellowish.

(2) ARISTOLOCHIA ROTUNDA [E.] has scarce any other visible difference from the foregoing than its roundish shape.

(3) ARISTOLOCHIA TENU-IS [L.] is a long and flender root, rarely exceeding the thickness of a goose quill.

These roots are the produce of Spain, Italy, and the southern parts of France. Their smell is somewhat aromatic; their taste warm and bitterish. Authors in general represent

represent them as extremely hot and pungent: fome fay they are the bottest of all the aromatic plants; but as ufually met with in the fhops. they have no great pungency. The long and round forts, on being first chewed, scarce discover any taste, but in a little time prove naufeoufly bitterifh; the long fomewhat the least fo. The other fort instantly fills the mouth with an aromatic bitterness which is not ungrateful. Their medical virtues are, to heat, stimulate, attenuate viscid phlegm, and promote the fluid fecretions in general: they are principally celebrated in suppressions of female evacuations. The dofe in substance is from a scruple to two drams. The long fort is recommended externally for cleanfing and drying wounds and ulcers, and in cutaneous difeafes.

ARMORACIA, vide RAPHA-NUS RUSTICANUS.

ARSENICUM [E.] Arfenic is contained, in greater or less quantity, in most kinds of ores, particularly in those of tin and bismuth, in the white pyrites, and the mineral called cobalt; from which last greatest part of the arsenic brought to us is extracted by a kind of sublimation; the arsenic arises at first in form of greyish meal, which more carefully re-sublimed, concretes into transparent masses, the white aresenic of the shops.

Arfenic sublimed with one tenth its-weight of sulphur, unites therewith into a bright yellow mass, in some degree transparent; the common yellow arsenic. On doubling the quantity of sulphur, the compound proves more opake and compact, of a deep red colour, refembling that of cinnabar, but with this difference, that it loses of its beauty upon being reduced into powder;

whilft that of cinnabar is improved by this means: this is the common red arfenic. By varying the proportions of arfenic and fulphur, fublimates may be obtained of a great variety of shades of yellow and red.

Natural mixtures of arfenic and fulphur refembling the foregoing preparations, are not unfrequently met with in the earth. The fosfil red arfenic is the fandaracha of the Greeks, the realgar and rifigal of the Arabians Both the red and vellow, when of a fmooth uniform texture, are named zarnichs; and when composed of small scales or leaves, auripigmenta, or orpiments: these last are the only substances to which the Greeks gave the name dipresunor. That the zarnichs and orpiments really contain arfenic (contrary to the opinion of the latest writers) is evident from fundry experiments whereby a perfect arfenic, and in notable quantity, is obtainable from them. The compilers of the Edinburgh dispensatory therefore have very juftly given sandaracha Græcorum as a synonymon to red arfenic; and auripigmentum to the yellow.

The pure or white arfenic has a penetrating corrofive tafte; and taken into the body proves a most violent poison. Besides the effects which it has in common with other corrofives, it remarkably attenuates the coats of the flomach, occasions a fwelling and fphacelation of the whole body, and a fudden putrefaction after death, particularly, as Geoffrey observes, of the the genitals in men. Where the quantity is fo very fmall as not to prove fatal, tremors, palfies, and lingering hectics succeed. The remedies recommended against this poison are milk and oily liquors immediately and liberally drank.

The red and yellow arsenies,
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both native and factitious, have little taste, and are much less virulent in their effects than the foregoing. Sulphur, which restrains the power of mercury and the antimonial semimetal, remarkably abates the virulence of this positionous mineral also. Such of these substances as participate more largely of sulphur, seem to be almost innocent: the factitious red arsenic, and the native orpiments, have been given to dogs in considerable quantity, without their being productive of any ill consequences.

ARTEMISIA [L. E.] artemifia vulgaris major, C. B. Mugwort; the leaves. This plant grows plentifully in fields, hedges, and wafte places, throughout England; and flowers in June. In appearance it fomewhat refembles the common wormwood: the difference most obvious to the eye is in the flowers, those of wormwood hanging downwards, whilft the flowers of mugwort stand erect. The leaves of this plant have a light aromatic fmell, and an herbaceous bitterish taste. They are principally celebrated as uterine and antihysteric: an infusion of them is sometimes drank, either alone or in conjunction with other fubflances, in fuppressions of the menstrual evacuations. This medicine is certainly a very mild one, and confiderably less hot than most others to which these virtues are attributed: in fome parts of this kingdom, mugwort is of common use as a potherb.

ARTHANITA [E.] cyclamen orbiculato folio inferne purpurafeente, C. B. Sow-bread; the root. This plant is met with only in the gardens of the curious. The root has, when fresh, an extremely acrimonious burning take, which it almost entirely loses on being dried. It is recommended as an errhine; in cataplasms for schirrhous and scrophulous tamours; and internally as a cathartic, detergent, and aperient: it operates very slowly, but with great virulence, inflaming the sauces and intestines; and hence is deservedly rejected from our dispensatory.

ARUM [L. E.] arum maculatum maculis nigris, C. B. Wake robin; the root. This grows wild under hedges, and by the fides of banks, in most parts of England. It fends forth in March, three or four triangular leaves, which are followed by a naked stalk, bearing a purplish pistil inclosed in a long sheath: this is succeeded, in July, by a bunch of reddish berries. In some plants, the leaves are fpotted with black, in others with white fpots, and in others not spotted at all: the black fpotted fort is supposed to be the most efficacious, and hence is expressly directed by the college. All the parts of arum, particularly the root, have an extremely pungent, acrimonious tafte : if the root be but lightly chewed in the foring (at which time it is ftrongest) it continues to burn and vellicate the tongue for a confiderable while, occasioning at the fame time an intense thirst: these symptoms are removed by butter, milk, or oily liquors, Dried and kept for fome time, it loses its acrimony, and becomes an almost insipid farinaceous substance. This root is an irritating, attenuating medicine. It does good fervice in cold fluggish habits: and in diforders proceeding from thick tenacious phlegm; which it powerfully diffolves, and at the fame time, by flimulating the folids, promotes its expulsion either through the cuticular pores, or the groffer emunctories. The most convenient

method of preparing it for exhibition, feems to be by beating the fresh root with gummy-refins, and making the mixture into pills; in this form it will retain its virtue longer than in that of powder. Juncker particularly observes of this root, that if given to the quantity of a dram along with a fpirituous vehicle, it occasions a plentiful fweat, even in perfons otherwife little disposed to this evacuation; but that if exhibited barely in the form of powder, it has not this effect. Some recommend a tincture of it drawn with wine; but neither vinous, spirituous, nor aqueous liquors extract its virtues; nor do they arife in distillation.

ASAFOETIDA: [L. E.] the concrete juice of a large unbelliferous plant growing in Perfia .- This juice exfudes (from wounds made in the root of the plant) liquid and white like milk; on being exposed to the air, it turns of a brownish colour, and gradually acquires different degrees of confiftency. It is brought to us in large irregular masses, composed of various little fhining lumps or grains, which are partly of a whitish colour, partly reddish, and partly of a violet hue. Those masses are accounted the best which are clear, of a palish red, and variegated with a great number of elegant white tears. This juice has a strong fetid smell, fomewhat like that of garlic; and a bitter, acrid, biting tafte. loses with age of its fmell and strength, a circumstance to be particularly regarded in its exhibition .- This juice confifts of about one third pure refin, and two thirds of gummy matter; the former is foluble in rectified spirit, the other in water: Proof spirit diffolves almost the whole into a turbid liquor: the tincture in rectified

fpirit is transparent.—Asascetida is the strongest of the fetid gums, and of frequent use in hysteric complaints. It is likewise of considerable efficacy in statulent colics; and for promoting all the sluid secretions in either fex. The ancients attributed to this medicine many other virtues, which are at present not expected from it.

ASARUM [L. E.] Afarabacca: the roots and leaves .- This is a very low ever-green plant, growing naturally in France, Italy, and other warm countries: The dried roots have been generally brought from the Levant; those of our own growth being supposed weaker. The roots and leaves of afarum have a naufeous, bitter, acrimonious, hot tafte; their finell is ftrong and not very difagreeable. Given in substance, from half a dram to a dram, they evacuate powerfully both upwards and downwards. It is faid, that tinctures made in fpirituous menstrua, possess both the emetic and cathartic virtues of the plant: That the extract obtained by inspissating these tinctures, acts only by vomit, and with great mildness: That an infusion in water proves cathartic, rarely emetic: That aqueous decoctions made by long boiling, and the watery extract, have no purgative or emetic quality, but prove notable diaphoretics, diuretics, and em-menagogues. The principal use of this plant among us is, as a fternutatory. The root of afarum is perhaps the strongest of all the vegetable errhines, white hellebore itfelf not excepted. Snuffed up the nose, in the quantity of a grain or two, it occcasions a large evacuation of mucus, and raifes a ptyalism. The leaves, the only part retained in our dispensatory, are considerably milder, and may be given to

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grains. Geoffrey relates, that after giving a dose of this errhine at night, he has frequently observed the discharge from the nose to continue for three days together; and that he has known a paralysis of the mouth and tongue cured by one dose. He recommends this medicine in flubborn diforders of the head, proceeding from viscid tenacious matter, in palfies, and in foporific diffempers. The leaves are an ingredient in the pulvis flernutatorius of the shops.

ASCLEPIAS, vide VINCETOXI-CUM.

ASELLI, vide MILLEPEDÆ.

ASPALATHUS, vide RHO-DIUM.

ASPARAGUS [E.] - fativus, C. B. This plant is cultivated in gardens for culinary use. The roots have a bitterish glutinous tafte inclining to fweetness: The fruit has much the same kind of tafte: The young shoots are more agreeable than either. Afparagus promotes appetite, but affords little nourishment. It gives a strong ill fmell to the urine in a little time after eating it, and for this reason chiefly is supposed to be diuretic: It is likewise esteemed aperient and deobstruent; the root is one of the five called opening roots. Some fuppose the shoots to be most esticacious; others the root; and others the bark of the root. Stahl is of opinion, that none of them have any great share of the virtues usually ascribed to them: Asparagus appears from experience to con-tribute very little either to the diforders. exciting of urine when suppressed, or increasing its discharge; and in

the quantity of three, four, or five nerally do fervice, this has little or no effect.

> ASPERULA: asperula aut aspergula odorata nostras, Lob. Woodroof; the flowers. This is a low umbelliferous plant, growing wild in woods and copies, and flowering in May. It has an exceeding pleafant fmell, which is improved by moderate exficcation; the tafte is fubfaline, and fomewhat austere. It imparts its flavour to vinous liquors. Asperula is supposed to attenuate viscid humours, and strengthen the tone of the bowels: It is recommended in obstructions of the liver and biliary ducts, and by fome in epilepfies and palfies: Modern practice has nevertheless rejected it.

ASPHALTUS, vide BITUMEN JUDAICUM.

ASPLENIUM. vide CETE-RABH.

ATRIPLEX FOETIDA [L.E.] blitum fætidum, vulvaria dictum Raii. Stinking orach or arrach; the leaves. This is a low plant, fprinkled all over with a kind of whitish clammy meal: It grows about dunghills, and other waste places. The leaves have a firong fetid fmell, which the hand, by a light touch, becomes fo impregnated with, as not to be eafily freed from. Its finell has gained it the character of an excellent antihysterie; and this is the only use it is applied to. Tournefort recommends a spirituous tincture: others a decoction in water, and others a conferve of the leaves, as

ATRIPLEX SATIVA [E.] cases where aperient medicines ge- The garden araches (which are either of a pale, greenish, or purplish red colour, and hence named atriplex alba and rubra) are chiefly employed for culinary purposes. They are cooling, and gently laxative: a decoction of the leaves is of good use in costiveness, where the patient is of a hot bilious disposition.

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AVENA [E.] Oats.—This grain is an article rather of food than of medicine. It is sufficiently nutritive, and easy of digestion. The gruels made from it have likewise a kind of soft mucilaginous quality; by which they obtund acrimonious humours, and prove useful in inflammatory disorders, coughs, hoarseness, roughness and exulcerations of the fauces.

AURANTIA MALUS [L. E.] -major, C. B. fruelu acido Ph. Lond. The orange tree bearing acid fruit; its flowers; the fruit, called aurantia Hispalensia, Seville oranges; and the yellow rind of the fruit, - This is a beautiful evergreen tree, or rather shrub, bearing flowers and fruit all the year: It is a native of the warmer climates, and does not well bear the winters of this .- The flowers are highly odoriferous, and have been for some time past of great esteem as a perfume: Their taste is warm, accompanied with a degree of bitterness. They yield their flavour by infusion to rectified spirit, and in distillation both to spirit and water. The diffilled water was formerly kept in the shops, but on account of the scarcity of the flowers is now laid afide; it is called by foreign writers aqua naphæ. An oil diffilled from these flowers is brought from Italy under the name of oleum, or effentia neroli.-The outer yel-

low rind of the fruit is a grateful aromatic bitter, and in cold phlegmatic constitutions, proves an excellent flomachic and carminative, promoting appetite, warming the habit, and frengthening the tone of the vifcera. Orange peel appears to be confiderably warmer than that of lemons, and to abound more with effential oil: To this circumstance therefore due regard ought to be had in the exhibition of thefe The flavour of the medicines. first is likewise supposed to be less perishable than that of the other: Hence the college employ orange peel in the spirituous bitter tincture, which is defigned for keeping, whilst in the bitter waterv infusion, lemon peel is preferred. A fyrup, and two distilled waters are for the same reason prepared from the rind of oranges in preference to that of lemons .- The juice of oranges is a grateful acid liquor, of confiderable use in febrile or inflammatory diftempers, for allaying heat, abating exorbitant commotions of the blood, quenching thirst, and promoting the falutary excretions: It is likewife of fervice in some kinds of fcurvies, especially-when exhibited in conjunction with the cochlearia. nasturtium, or other acrid antiscorbutics, as in the fucci scorbutici of the shops.

AURICULA JUDÆ: [E] fungus auricula Jadæ, coloris ex cineraceo nigricantis, perniciofus, in fambuci caudice nafcens, J. B. Jews ear, a fungus growing on old elder trees. This fungus is faid by fome to be a strong purgative; by others an astringent. The more judicious medical writers have declared its internal use dangerous.

AURICULA MURIS: [E.]
țilofella major repens birfuta, G. B.
Moufe-

Moufe-ear; the leaves. This is a low creeping plant, covered with a kind of blackish hairs : It grows wild in dry passure grounds, and slowers in June and July. The leaves have a rough subacrid taste: They are recommended as aftringents, but practice pays no regard to them.

AURIPIGMENTUM, Orpiment; a mineral, composed of fulphur and arfenic. See ARSENICUM.

AURUM. [E.] Gold was introduced into medicine by the Arabians, who esteemed it one of the greatest cordials and comforters of the nerves. From them Europe received it without any dimiminution of its character: In foreign pharmacopæias it is still retained, and even mixed with the ingredients from which simple waters are to be distilled. But no one, it is prefumed; at this time, expects any fingular virtues from it, fince it certainly is not alterable in the human body. Mr Geoffroy, though unwilling to reject it from the cordial preparations, honeftly acknowledges, that he has no other reason for retaining it, than complaifance to the Arabian schools. The chemists have endeavoured, by many elaborate processes, to extract what they call a fulphur or a-nima of gold: But no method is as yet known of separating the component parts of this metal: All the tinctures of it, and aurum potabile's, which have hitherto appeared, are real folutions of it in aqua or other liquors, and prove injurious to the body rather than beneficial.

AXUNGIA. A great variety of fats were introduced by the Ara-

fing distinct virtues. The college of Wirtemberg, in the last edition of their dispensatory, published in 1741, direct no less than twentyeight different fats to be kept in the shops: Some of these, they inform us, are attenuating and refolvent; fuch are those of the heron, wild cat, flork, partridge, coney, hare, fox, Alpine mouse, the badger, boar, wolf, ferpents and vipers: Others are heating, detergent, and feptic; those of the eel, the pike, and the umber. A third class is emollient; the fat of the ox, the deer, and the goat; and a fourth, emollient, digerent, and lenient; this last comprehends the fats of the duck, goofe, dog, capon, beaver, horse, hen, and human fat. The Edinburgh difpenfatory has made a confiderable reduction of these articles, and retains only the fats of the duck, goose, hen, viper, and human fat, with beef, mutton, and goats fuet, boar and hogs lard, and the marrow of the stag. Our college has expunged them all, except the hogs lard and mutton fuet, and the fat of the viper; which are certainly fufficient to answer all the purposes that substances of this class are ufually employed for. They have all one common emollient quality, relax the part to which they are applied, and prevent perspiration: These effects, with the consequences of them, may be expected in a greater or less degree, from fats of every kind.

BALAUSTIA. [L. E.] Balausfines; the flowers of the balaustia regis, diluted with spirit of wine, flore pleno majore, C. B. double flowered pomegranate tree. This is a low tree, or rather shrub, growing wild in Italy, &c. The flowers are of an elegant red colour, in appearance refembling a dried red rose. Their taste is bitbians, and recommended as possess-terish and affringent. Balaustines

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are recommended in diarrheeas. dyfentries, and other cases where by coction from the bark and aftringent medicines are proper. branches of the tree: Its smell They are rarely directed in extem-poraneous prescription, and enter only one officinal composition, Pure balsam of copaiva dissolves pulvis e fuccino compositus.

BALSAMITA MAS [E.] mentha bortensis corymbisera, C. B. Costmary; the leaves. This was formerly a very common garden plant, and of frequent use both for culinary and medicinal purpofes; but is at prefent very little regarded for either; though it should feem, from its fensible qualities, to be equal or fuperior, as a medicine, to fome aromatic herbs, which practice has retained. The leaves have a bitterish warm aromatic taste; and a very pleasant smell, approaahing to that of mint, or a mixture of mint and maudlin. Water elevates their flavour in distillation; and rectified spirit extracts it by infusion.

BALSAMUM COPAIBA[L.E.] à liquid refinous juice, flowing from incisions made in the trunk of a large tree which grows in the Spanish West Indies.-This juice is clear and transparent, of a whitish or pale yellowish colour, an agreeable fmell, and a bitterish pungent taffe. It is usually about the confishence of oil, or a little thicker: Long kept, it becomes its clearness; but has not been obmost of the other refinous juices do. We fometimes meet with a thick

fubstances, or has been extracted entirely in rectified spirit, especially if the menstruum be previously alcalized: The folution has a very fragrant smell. Distilled with water, it yields a large quantity of a limpid effential oil; and in a strong heat, without addition, a blue oil.

The balfam of copaiba is an ufeful corroborating detergent medicine, accompanied with a degree of irritation. It strengthens the nervous fystem; tends to loosen the belly, and in large doses proves purgative, promotes urine, and fometimes the expulsion of gravel: cleanses and heals ulcerations in the urinary passages, which it is supposed to perform more effectually than any of the other balfams. Fuller observes, that it gives the urine an intenfely bitter tafte, but not a violet smell as the turpentines do.-This balfam has been principally celebrated in gleets and the fluor albus, and externally as a vulnerary. The author abovementioned recommends it likewife in dyfenteries, in fcorbutic cachexies, in diseases of the breast and lungs, and in an acrimonious or putrescent state of the juices: He fays he has known very dangerous coughs, which manifestly threatennearly as thick as honey, retaining ed a confumption, cured by the use of this balfam alone; and that notferved to grow dry or folid, as withflanding its being hot and bitter, it has good effects even in hectic cases.—The dose of this fort of balfam of copaiba, which is medicine rarely exceeds twenty or not at all transparent, or much thirty drops, though some direct less so than the foregoing, and ge- fixty or more. It may be convenerally has a portion of turbid niently exhibited in the form of watery liquor at the bottom. an elæofaccharum; or triturated This fort is probably either adul- with almonds into an emulfion; or terated by the mixture of other agitated with milk, which it thus readily unites with: It imperfectly mingles, by agitation, with water also.

BALSAMUM GILEADENSE, vide OPOBALSAMUM.

BALSAMUM PERUVIANUM [L. E.] The common Peruvian balfam is faid to be extracted by coction in water, from an odoriferous shrub growing in Peru, and the warmer parts of America. This balfam, as brought to us, is nearly of the confiftence of thin honey, of a reddish brown colour inclining to black, an agreeable aromatic fmell, and a very hot biting taste. Distilled with water, it yields a fmall quantity of a fragrant effential oil of a reddiff colour; and in a strong fire, without addition, a yellowish red one. -Balfam of Peru is a very warm aromatic medicine, confiderably hotter, and more acrid than copaiba. Its principal effects are, to warm the habit, to strengthen the nervous fystem, promote the circulation, and attenuate viscid humours. Hence its use in some kinds of asthmas, gonorrhœas, dyfenteries, fuppressions of the uterine difcharges, obstructions of the viscera, and other diforders proceeding from a debility of the folids, or a fluggishness and inactivity of the It is also employed externally, for cleanfing and healing wounds and ulcers; and fometimes against palsies and rheumatic pains. -This balfam does not unite with water, milk, expressed oils, animal fats, or wax: It may be mingled in the cold with this laft, as alfo with the febaceous fubstance called expressed oil of mace; but if the mixture be afterwards liquefied by heat, the balfam feparates and falls to the bottom. Alcaline

lixivia dissolve great part of it; and and rectified spirit the whole.

There is another fort of balfam of Peru, of a white colour, and confiderably more fragrant than the former. This is very rarely brought to us. It is faid to be the produce of the fame plant which yields the common or black balfam; and to exfude from incifions made in the trunk.

BALSAMUM TOLUTANUM [L. E.] Balfam of Tolu. - This flows from a tree of the pine kind, growing in Tolu in the Spanish West Indies; from whence the balfam is brought to us in little gourd shells. It is of a yellowish brown colour, inclining to red; in confiftence thick and tenacious: By age it grows hard and brittle, without fuffering any great lofs of its more valuable parts. The smell of this balsam is extremely fragrant, fomewhat refembling that of lemons; its tafte warm and fweetish, with little of the pungency, and nothing of the naufeous relish, which accompany the other balfams. It has the fame general virtues with the foregoing; but for fome purposes, particularly as a corroborant in gleets and feminal weaknesses, is supposed to be more efficacious.

BARDANA MAJOR [E.] lappa major, arcium Dioscoridis, C. B.
Burdock; the roots and feeds.
This is a common plant about
way fides, sufficiently known from
its scaly heads, or burs, which
stick to the clothes.—The feeds
have a bitter, subacrid, and somewhat aromatic taste: they are recommended as very efficacious diuretics, given either in the form
of emulsion, or in powder, to the
quantity of a dram.—The roots

taste sweetish, and lightly austere; these are esteemed aperient, diuretic, and sudorific; and faid to act without irritation, so as to be safely ventured upon in acute disorders. Geoffroy prefers a decoction of these roots to that of scorzonera, in malignant diseases, and the small pox; and Simon Paulli to the exotic woods in venereal distempers, especially in an emaciated habit, and delicate constitutions.

BDELLIUM [E.] Bdellium is a gummy refinous concrete juice, brought from Arabia and the East Indies, in glebes of different figures and magnitudes. It is of a dark reddish brown colour, and in appearance somewhat resembles myrrh. Upon cutting a piece, it looks fomewhat transparent, and as Geoffrey juftly observes, like glue. It grows foft and tenacious in the mouth, flicks to the teeth, has a bitterish taste, and a hot disagreeable fmell. Bdellium is recommended as a fudorific, diuretic, and uterine; and in external applications for maturating tumors, &c. In the present practice, it is fcarce otherwise made use of than as an ingredient in theriaca.

BECABUNGA [L. E.] veronica aquatica folio fubrotundo, Morif. bift. Brooklime; the leaves. This is a low plant, common in little rivulets and ditches of standing water: the leaves remain all the winter, but are in greatest perfection in the spring. Their prevailing taste is an herbaceous one, accompanied with a very light bitterishness.—Becabunga is supposed to have a saponaceous detergent virtue, and to attenuate viscid humours without pungency or irritation: Hence it is directed in the species of scurvy called hot, where the cochleariæ, and other acrid an-

tifcorbutics are less proper. In this disease, and where the animal juices are disposed to a putrid alcalescent state, it may be given along with the forrels, orange juice, or other vegetable acids; or employed for abating the acrimony of the scurvy graffes and nasturtia.

BELLIS MAJOR—[E.] bellis major fylvesseris cause fosioso C. B. Greater or ox-eye daify; the leaves. This is frequent in fields, and among corn, flowering in May and June. The leaves have a glutinous, subfaline roughish taste. They are said to be detergent, resolvent, aperient, and also moderately astringent. Geoffroy relates, that the herb, gathered before the flowers have come forth, and boiled in water, imparts an acrid taste, penetrating and subtile like pepper; that this decoction is an excellent vulnerary and diuretic.

BELLIS MINOR [E.] bellis minor fylvestris C. B. Common daify; the leaves. This is common almost every where, and flowers in the fpring.-The leaves have a mild fubaffringent (according to fome, acrid) tafte; and abound with a glutinous juice. They are principally recommended as vulneraries; and in afthmas and hectic fevers, and fuch diforders as are occasioned by drinking cold liquors when the body has been much heated. Ludovici prefers the bellis minor to the plants commonly used as antifcorbutics, and refolvents of coagulated blood in hypochondriacal diforders.

BENZOINUM [L.] Benzoine is a concrete refinous juice, obtained from a large tree growing naturally in both the Indies, and hardy enough to bear the feverest winters of this climate. The re-

only, in large maffes, composed of white and light brown pieces, or yellowish specks, breaking very is whitest, and free from impurities, is most esteemed .- This refin has very little tafte, impressing only a light fweetness on the tongue: its smell is extremely fragrant and agreeable, especially the fire in proper veffels, it yields faline concrete, of an acidulous tafte and grateful odour, foluble in rectified fpirit, and by the affistance of heat in water .- The principal use of benzoine is in perfumes, and as a cosmetic: It is rarely met with in extemporaneous prescription, and enters in substance only one officinal composition, the balfamum traumaticum, which is defigned for external use. It should nevertheless feem applicable to other purposes, and to have no ill title to the virtues of florax and balfam of Tolu, at least in a subordinate degree.

BERBERIS [E.] berberis dumetorum C. B. Barberry; the bark, fruit, and feeds.-The barberry is a fmall tree, or rather a large bush, covered with an ash coloured bark, under which is contained another of a deep yellow: the berries are of an elegant red colour, and contain each two hard brown feeds. It grows wild in chalky hills in feveral parts of England; and is frequently planted in hedges and in gardens.-The outward bark of the branches, and the leaves, have an aftringent acid tafte; the inner yellow bark, a bitter one; this last is faid to be the stomach. The juice expressed ferviceable in the jaundice; and by fome, to be an ufeful purgative.-The berries, which to the

fin is brought from the East Indies taste are gratefully acid, and moderately restringent, have been given with good success in bilious sluxes, and diseases proceeding from eafily betwixt the hands; fuch as heat, acrimony, or thinnefs of the juices. Among the Egyptians, bar-berries are frequently employed in fluxes, and in malignant fevers, for abating heat, quenching thirst, raising the strength, and preventing putrefaction: the fruit is mawhen fet on fire. Committed to cerated for a day and night, in the fire in proper veffels, it yields about twelve times its quantity of a confiderable quantity of a white water, with the addition of a little fennel feed, or the like, to prevent offence to the flomach: the liquor strained off, and sweetened with fugar, or fyrup of citrons, is given the patient liberally to drink. Profper Alpinus (from whose treatise De medicina Ægyptiorum, we have extracted this account) informs us, that he took this medicine himfelf, with happy fuccefs. in a pestilential fever, accompa-nied with an immoderate bilious diarrhœa.

> BETA-[E.] Beta alba vel pallescens quæ ficula et cicla officinarum bist. Oxon.—Et, Beta rubra vulgaris C. B.—Et, Beta rubra radice rapæ C. B.—White and red beets; and the turnep rooted red beet, or beetrave.—These plants are cultivated in gardens, chiefly for culi-nary use. The eye diffinguishes little other difference betwixt them than that expressed in their titles. Decoctions of beets gently loofen the belly; hence they have been ranked among the emollient herbs: the plants remaining after the boiling are supposed to have rather a contrary effect. They afford little nourishment, and are faid by fome to be prejudicial to from the leaves is a powerful ster. nutatory.

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- [E.] betonica BETONICA purpurea C. B. Common or wood betony; the leaves, tops, and flowers. This is a low plant, growing in woods and shady places, in feveral parts of England: the flowers come forth in June and July; they are of a purplish colour, and stand in spikes on the tops of the stalks. The leaves and flowers have an herbaceous, roughish, somewhat bitterish taste, accompanied with a very weak aromatic flavour. - This herb has long been a favourite among writers on the materia medica, who have not been wanting to attribute to it abundance of good qualities. Experience does not difcover any other virtue in betony than that of a mild corroborant: as fuch, an infusion, or light decoction of it, may be drank as tea, or a faturated tincture in rectified fpirit, exhibited in fuitable doses, in laxity and debility of the vifcera, and diforders proceeding from thence. The powder of the leaves, fnuffed up the nofe, provokes fneezing; and hence betony is fometimes made an ingredient in sternutatory powders: this effect is not owing, as is generally fupposed, to any peculiar stimulating quality in the herb, but to the rough hairs which the leaves are covered with. The roots of this plant differ greatly in quality from the other parts: their tafte is bitter and very nauseous: taken in a small dose, they vomit and purge violently, and feem to have fomewhat in common with the roots of hellebore. It is pretty fingular, if true, that betony affects those who gather any considerable quantity of it, with a diforder refembling drunkenness; Simon Paulli and Bartholinus are the vouchers.

BETONICA AQUATICA, vide SCROPHULARIA AQUATICA MAJOR.

BETONICA PAULI, vide VE-

BETULA [E.] The birch tree; the bark and fap. This tree grows wild in moift woods: it is covered with a number of barks, the outermost of which is thick, rough, and full of chaps; the inner ones very thin, fmooth, of a white colour, transparent like parch-ment. All these barks are very readily inflammable, and feem to abound with refinous matter: they are faid to be aperient and detergent, and ferviceable in cutaneous diforders. Upon deeply wounding or boring the trunk of the tree in the beginning of fpring, a fweetish juice issues forth, sometimes in fo large a quantity as to equal in weight the whole tree and root: one branch will bleed a gallon or more in a day. This juice is chiefly recommended in fcorbutic diforders, and other foulneffes of the blood: its most sensible effect is to promote the urinary difcharge.

BEZOAR [E.] The bezoar stone is a calculous concretion found in the stomach of certain animals which are faid to be of the goat kind. It is composed of concentrical coats furrounding one another, with a little cavity in the middle, containing a bit of wood, straw, hair, or the like substances. The shops diffinguish two forts of bezoar, one brought from Persia and the East Indies, the other from the Spanish West Indies. The first or best fort, called oriental bezoar. is of a shining dark green or olive colour, and an even smooth furface; on removing the outward coat, that which lies underneath it appears likewise smooth and shining. The occidental has a rough furface, and less of a green colour

fons. Later writers also bestow extraordinary commendations on it as a fudorific and alexipharmac ; virtues to which it certainly has no pretence. It is a morbid concretion, much of the fame nature with the human calculus, of no fmell or taste, not digestible in the stomach of the animal which it is found inand scarce capable of being acted on by any of the juices of the human body. It cannot be confidered in any other light than as an abforbent; and is much the weakest of all the substances of that class. It has been given to half a dram, and fometimes a whole dram, without any fenfible effect; though the general dose (on account of its great price) is only a few grains.

BISMALVA, vide ALTHEA.

BISMUTHUM [E.] Bismuth is a ponderous semimetal, resembling in appearance the antimonial regulus and zinc, but greatly differing from them in quality. It dissolves with vehemence in the nitrous acid, which only corrodes the regulus of antimony, and is scarce at all soluble in the marine acid which acts violently on zinc. A calx and slowers of this semimetal have been recommended as similar in virtue to certain antimonial preparations; but are at present of no other use than as a pigment or cosmetic.

BISTORTA [L. E.] bistorta major radice minus interta, C. B. Bistort or Snakeweed; the root. This plant grows wild in moist meadows, in several parts of England; but is not very common about London. The root is about the thickness of the little finger, of a blackish brown colour on the outside, and reddish within: it is writhed or bent vermicularly (whence the name of the plant) with a joint at each bending, and full of bushy sibres, the root of the species here intended, has for

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the most part only one or two bendings; others have three or more .-All the parts of bistort have a rough austere taste, particularly the root, which is one of the strongest of the vegetable aftringents. It is employed in all kinds of immoderate hæmorrhagies and other fluxes, both internally and externally, where astringency is the only indication. It is certainly a very powerful flyptic. and is to be looked on fimply as fuch: the fudorific, antipeltilential, and other like virtues attributed to it, have no foundation. The largest dose of the root in powder is one dram.

BITUMEN JUDAICUM; [L. E.] asphaltus. Jews pitch. This is a light, folid bitumen, of a dufky colour on the outfide, and a deep shining black within; of very little tafte, and scarce any smell unless heated, when it emits a ftrong pitchy one. It is found plentifully in the earth, in feveral parts of Egypt, and on the furface of the Dead fea; but is very rarely brought to us. In its room, the shops employ other bituminous fubstances found in France, Germany, and Switzerland: thefe have a much stronger pitchy fmell; but in other respects agree pretty much with the true asphaltus. Sometimes pitch itself, or the caput mortuum remaining after the distillation of amber, are substituted. Abundance of men, as refolvent, discutient, glutinant, sudorific, emollient, emmenagogue, &c. but it has not for a long time been any otherwise used, than as an ingredient in theriaca.

BOLI. Boles are viscid earths, less coherent, and more friable than clay, more readily uniting with water and more freely subsiding from it. They are fost and unc-

tuous to the touch, adhere to the tongue, and by degrees melt in the mouth, impressing a light sense of astringency. A great variety of these kinds of earths have been introduced into medicine; the principal of which are the following.

(1) BOLUS ARMENA [L. E.]
Pure Armenian bole is of a bright red colour, with a tinge of yellow: it is one of the hardeft and most compact of all the bodies of this class, and not smooth or glossy like the others, but generally of a rough dusty surface. It raises no effervescence with acids.

(2) BOLUS GALLICA; [L.]
The common French bole is of a
pale red colour, variegated with
irregular fpecks or veins of white
and yellow. It is much fofter than
the foregoing; and flightly effer-

vesces with acids.

(3) BOLUS BLESENSIS. Bole of Blois. This is a yellow bole, remarkably lighter than the former, and than most of the other yellow earths. It effervesces violently with acids.

(4) BOLUS BOHEMICA [E.] Bohemian bole. This is of a yellow colour, with a cast of red, generally of a slaky texture. It is not acted on by acids.

(5) TERRA LEMNIA [E.] Is a pale red earth; flightly efferver-

cing with acids.

maining after the distillation of amber, are substituted. Abundance of virtues are attributed to this bitunen, as resolvent, discutient, glutinant, sudorific, emollient, emmenagogue, &c. but it has not for a long time been any otherwise used, are called terræ sigillatæ.

The boles of Armenia and Blois, and the Lemnian earth, are rarely met with genuine in the shops; the coarser boles, or white clay coloured with ochre, caput mortuum of vitriol, &c. frequently supply their place. The genuine may be distin-

distinguished by their subsiding uniformly from water, without any separation of their parts: the genuine yellow boles retain their colour, or have it deepened in the fire; whilst the counterfeit forts burn red. These earths are recommended as aftringent, sudorific and alexipharmac; and said to have excellent effects in diarrhœas, dysenteries and hæmorrhagies, and in malignant and pestilential distempers. Whether they have really any virtues of this kind, (unless in diarrhœas) is verydoubtful. See page 56.

BOMBYX, vide SERICUM.

BONUS HENRICUS; [E.] lapathum unauosum, olidum perenne spinachiæ facie Moris. English herb mercury; the leaves. This is met with by road sides, and in uncultivated places. It is ranked among the sive emollient herbs, but rarely made use of in practise. The leaves are employed by the common people for healing slesh wounds, cleansing old ulcers, and other like purposes.

BORAGO [E.] borago fiore caruleo, J. B. Borage; the flowers. This is arough plant, clothed with small prickly hairs: it grows wild in waste places, and upon old walls. An exhilarating virtue has been attributed to the flowers of borage, which are hence ranked among the so called cordial flowers.

BORAX [L. E.] This is a faline fubstance, brought from the East Indies in great masses composed partly of large crystals, but chiefly of smaller ones, partly white and partly green, joined together as it were by a greasy yellow substance, intermingled with fand, small stones, and other impurities: the purer crystals, exposed to the fire, melt

into a kind of glass, which is nevertheless foluble in water. This falt dissolved and crystallized, forms fmall transparent masses: the refiners have a method of shooting it into larger crystals; but these differ in feveral respects from the genuine falt, infomuch that Cramer calls them not a purified but adulterated borax. The origin and composition of this falt are as yet unknown; nor are its medical virtues very certain. Some look upon it as an aperient neutral falt, others as an alcaline absorbent, and others as a flyptic earth. It is principally celebrated as an emmenagogue and promoter of delivery: but practitioners complain, that though in these cases it has sometimes feemed to have good effects, it has very often failed. And indeed borax manifests no sensible quality that promifes any confiderable virtue of this kind: it is ufually exhibited in conjunction with aromatics and other substances, to which perhaps the medicine owes its virtue more than to the bo-

BOTRYS; [E.] chenopodium ambroficides folio finuato Tourn. Atriplex odora feu fuaveolens Moris. Jerufalem oak; the leaves. This is cultivated in gardens. It has a flrong not difagreeable finell; and a warm fomewhat pungent tafte. It is recommended as a carminative and aperient, for promoting expectoration and female evacuations.

BRASSICA SATIVA [E.] braffica capitata alba, C. B. Et braffica capitata rubra, C. B. Et braffica alba capita oblongo non penitus claufo, C. B. Braffica Sabauda Ger. & Park. Et braffica caulifora, C. B. White and red cabbages, coleworts, Savoy cabbages, and cauliflower.

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These are cultivated in gardens rather for culinary than medicinal use. They are all hard of digeflion, afford little nourishment, and produce flatulencies. They tend frongly to putrefaction, and run into this state sooner than almost any other vegetable; when putrefied, their fmell is likewife the most offensive. A decoction of them is faid to loofen the belly. Of all these plants, cauliflower seems to be the easiest of digestion. The white is the most fetid; and the red most emollient or laxative: a decoction of this last is recommended for foftening acrimonious humours, in fome diforders of the breaft, and in hoarfenefs.

BRASSICA MARINA; [E.] convolvulus maritimus soldanella dictus Raii. Sea coleworts. Scotch scurvygrassor soldanella; the leaves. This is a trailing plant, growing on the fea beach in many parts of the north of England. The root, leaves, and stalks yield a milky juice. Soldanella is a strong cathartic, operating very churlishly, and hence defervedly rejected from practice. Those who recommend its use differ confiderably with regard to the dose; some direct half a dram, others three drams, and others a whole handful.

BRUNELLA, vide PRUNELLA.

BRUSCUS, vide Ruscus.

BRYONIA ALBA; [E.] bryonia aspera five alba baccis rubris, C. B. White bryony or wild vine; the roots. This is a rough plant, growing on dry banks under hedges, and climbing upon the bushes. 'The roots are large, sometimes as thick as a man's thigh: their smell, when fresh is strong and disagreeable; the taste nauseously bitter, acrid, and

biting; the juice is fo sharp as in a little time to exulcerate the skin: in drying, they lofe great part of their acrimony, and almost the whole of their fcent. Bryony root is a ftrong irritating cathartic; and as fuch has been fometimes fuccefsfully exhibited in maniacal cases, in fome kinds of dropfies, and in feveral chronical diforders where a quick folution of viscid juices, and a fudden stimulus on the folids, were required. An extract prepared by waters act more mildly, and with greater fafety than the root in substance: given from half a dram to a dram, it proves a gentle purgative, and likewiseoperates powerfully by urine.

BUFO. [E.] The toad. This animal has been generally looked upon as poisonous, particularly its faliva, and a certain acrid liquor, supposed to be the urine, which it throws out when irritated to a confiderable distance. It was first introduced into medicine upon occasion of a cure performed on an hydropic person, who having taken powdered toads in order to dispatch himself, voided a large quantity of urine, and foon after recovered of his diforder: fince this time, the toad dried by a gentle heat and pulverized, has been greatly efteemed as a diuretic. This preparation is faid likewife, applied externally to the navel, to restrain hæmorrhagies, particularly those from the uterus.

BUGLOSSUM; [E.] buglossum angustifohum majus, C. B. Garden bugloss; the roots, leaves and flowers. This is a rough, hairy plant, resembling borage, but less prickly: a wild fort is commonly met with in hedges and among corn, which differs from the garden only in being smaller. Bugloss H 2

has a glutinous fweetish taste, accompanied with a sense of coolness: the roots are the most glutinous, and the slowers the least so. These qualities point out its use in hot bilious or insammatory distempers, and a thin acrimonious state of the sluids. The slowers are one of the sour called cordial slowers: the only quality they have that can entitle them to this appellation, is, that they moderately cool and soften, without offending the palate or slowach; and thus in warm climates, or in hot diseases, in some measure refresh the patient.

BUGULA; [E.] bugula fylvatica vulgaris carulea, Morifon. Bugle or middle confound; the leaves. This grows wild in woods, hedges, and moift meadows. The leaves have at first a sweetish taste, which gradually becomes bitterish and styptic. They are recommended as vulnerary medicines, and in all cases where mild astringents are proper.

BUNIAS, vide Napus.

BURSA PASTORIS; [E.] tblafpi fatuum, bursa pastoris dictum Raii. Shepherds purfe: the leaves. This is common in waste places; and is found in flower all the fummer. Shepherds purfe has long been celebrated as an aftringent, and ftrongly recommended in diarrheas, dyfenteries, uterine fluors, and in general in all diseases where aftringents of any kind can avail. Juncker effeems it so powerful a styptic as scarce to be fafely exhibited internally. Boerhaave is also extremely cautious in the use of this herb; but from a different principle: he thinks it has not any very great degree of aftringency, but that it is of a hot fiery nature, and flops fluxes and hamorrhagies by coagulating the juices like alcohol, and burning or fearing the orifices of the veffels. The fenfible qualities of fhepherds purfe discover little foundation for either of these opinions; it has no perceptible heat, acrimony, pungency, or aftringency: the taste is merely herbaceous, so as sufficiently to warrant the epithet given this plant by Mr. Ray, Fatuum.

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BUXUS; [L. E.] buxus arbore-fcens, C. B. The box tree; the leaves and wood. This is a small tree, growing wild in some part of Kent and Surry. The wood is of a yellow colour, more solid, compact, and ponderous than any other of the European woods: both the wood and leaves have a bitter nauseous taste, and when fresh a fetid smell. The leaves are said to purge violently, in the dose of a dram; a decoction of the wood to be a powerful sudorisic, preserable even to guaiacum: this may probably be an essication, but it is certainly a very nauseous one.

CACAO, [E.] chocolate nuts, the fruit of an American tree refembling the almond. The principal use of these nuts is for the preparation of the dietetic liquor chocolate. This is a mild, unctuous, nutritious suid capable of softening acrimonious humours, and of great service in confumptive disorders; especially if made with milk, and with only a small proportion of aromatics.

CALAMINARIS LAPIS, L.E.] calamine. This mineral is found plentifully in England, Germany, and other countries, either in diffinct mines, or intermingled with the ores of different metals. It is ufually of a greyish, brownish, yellowish, or pale reddish colour; confiderably hard, though not fufficiently

ently fo to strike fire with steel. It has been looked upon by some as a fimple earth, by others as an iron ore: later experiments have discovered it to be an ore of zinc. Calamine is generally roafted or calcined before it comes into the shops, in order to feparate fome fulphureous or arfenical matter which the crude mineral is supposed to contain, and to render it more eafily reducible into a fine powder. In this flate, it is employed in collyria against defluxions of thin acrid humours upon the eyes; for drying up moift, running ulcers; and healing excoriations. It is the bafis of an officinal epulotic cerate.

CALAMINTHA, [L] pulegii edore seu nepeta, C. B. Calamintha foliis ovatis, obtufis caule procum-beme Halleri. Field calamint; the leaves. This is a low plant, growing wild about hedges and highways, and in dry fandy foils. The leaves have a quick warm tafte, and finell firong of pennyroyal: as medicines, they differ little otherwife from spearmint than in being fomewhat hotter, and of a leis pleafant odour; which last circumflance has procured calamint the preference in hysteric cases.

CALAMINTHA MONTANA, [E.] calamintha flore magno vulgaris, J. B. Common calamint; the leaves. This plant, notwithstanding its name, is much less common than the former, which has generally supplied its place in the markets: hence the college have now dropt this montana, and received the other. The calamintha montana is also less efficacious than the foregoing fort: the tafte is weaker; the smell approaches to that of the wild mints, without any thing of the firong pennyroyal flavour of the other.

CALAMUS AROMATICUS: [L. E.] acorus verus. Sweet scented flag; the roots. This flag refembles, as to its leaves, the common iris, but in other respects differs greatly from it: the flalk grows at a little distance from the leaves; the lower half, up to where the flowers come forth, is roundish; the part above this, broad like the other leaves: the flowers are very fmall, whitish, and stand in a kind of head about the fize of the finger. This plant grows plentifully in rivulets and marshy places, about Norwich and other parts of this island: in the canals of Holland; in Switzerland; and in other countries of Europe. The shops have been usually supplied from the Levant with dried roots, which are not fuperior, if equal, to those of our own growth,

The root of acorus is full of joints, crooked, fomewhat flatted on the fides, internally of a white colour, and loofe spongy texture: its fmell is ftrong; the tafte warm, acrid, bitterish, and aromatic; both the fmell and tafte are improved by exficcation. This root is generally looked upon as a carminative and flomachic medicine, and as fuch is fometimes made use of in practice. It is faid by Haller to be fuperior in aromatic flavour to any other vegetable that is produced in these northern climates: such as we have had an opportunity of examining, fell far short in this re-spect, of many of our common plants. There is something manifeftly unpleasant in its flavour, inclining, as Geoffroy justly observes. to that of leeks or garlic: nor have our experiments discovered any preparation of it that was truly grateful: the most agreeable is a preferve made after the manner directed in our dispensatory for candying

it is faid to be employed at Constantinople as a preservative against epidemic diseases. The leaves of this plant have a fweet fragrant fmell, more agreeable, though weaker, than that of the roots.

CALENDULA; [E.] calendula fativa Raii - flore fimplici, J. B. Garden marigold; the flower. This herb is common in gardens, where it is found in flower greatest part of the fummer. Marigold flowers are supposed to be aperient and attenuating; as also cardiac, alexipharmac, and fudorific: they are principally celebrated in uterine obstructions, the jaundice, and for throwing out the fmall pox. Their fensible qualities give no foundation for any of these virtues: they have no tafte and very little fmell. The leaves discover a viscid sweetifhness accompanied with a more durable faponaceous pungency and warmth: thefe feem capable of anfwering some useful purposes, as a stimulating, aperient, antiscorbutic medicine.

CALX VIVA; [L. E.] Quicklime. Quick-lime is usually prepared among us by calcining certain stones of the chalky kind. All chalks and marbles, and in general all the earths that dissolve in acids, burn into quicklime; with this difference, that the more compact the stone, generally the stronger is the In maritime countries, in lime. defect of the proper flones, fea shells are made use of, which afford a calx agreeing in most refpects with the stone limes. All these limes are, when fresh burnt, highly acrimonious and corrofive. In this flate they are employed in fome external applications as a de-pilatory; and for encreasing the

dying eryngo root. In this form for the purposes of a caustic, or to enable them more readily to diffolve oils. If the lime be exposed for a length of time to the air, it falls by degrees into a powder, and loses greatly of its acrimony. Water poured directly upon quicklime takes up a confiderable portion of it: the folution has a fomewhat flyptic taste, drying the mouth, without any acrimony; nevertheless the remaining calx proves almost infipid. This liquor does not effervesce either with acids or alcalies, but is rendered turbid and milky by both : it prevents the coagulation of milk, and hence is fometimes made use of along with milk diets: agitated with expressed oils, it unites with them into a thick compound recommended by Dr. Slare against burns and inflammations. Lime water, drank to the quantity of a quarter of a pint three or four times a day, and continued for a length of time, has been found serviceable in scrophulous cases, and other obstinate chronic diforders. It generally promotes urine, and not unfrequently the cuticular discharge: for the most part it binds the belly, and fometimes occasions troublesome costiveness unless this effect be occafionally provided against, by the interpolition of proper medicines. It does good fervice in debility and laxity of the vifcera in general; in those of the uterine and feminal veffels it is particularly recommended. Care must be had not to exhibit this medicine too liberally in hot bilious constitutions, or where the patient is much emaciated, or the appetite weak, or at the time of any critical or periodical evacuations. Its principal use is in cold, moift, fluggish, and corpulent habits. This liquor has lately been found an efficacious dissolvent of power of fixt alcaline faits either the human calculus : the lime water

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d n prepared from calcined oyftershells proves, for this purpose, a more powerful menstruum than that prepared from the stone limes, the dissolving power of the former beling more than double to that of the latter. See a paper on this subject in the Edinburgh essays, vol. v. art. 69. Abridg. vol. i. p. 471.

CAMPECHENSE LIGNUM, vide LIGNUM CAMPECHENSE.

CAMPHORA; [L. E.] Camphor is a folid contrete, extracted from the wood and roots of a tree growing in Japan, by a process similar to that whereby effential oils are obtained. As it first fublimes from the wood, it appears brownish, composed of semipellucid grains mixed with dirt : In this state it is exported by the Dutch, and purified by a fecond fublimation; after which, it is reduced into loaves (in which it is brought to us) probably by fusion in close vessels; for it does not assume this form in sublimation. Pure camphor is very white, pellucid, fomewhat unctuous to the touch; of a bitterish, aromatic, acrid taste, yet accompanied with a fense of coolness; of a very fragrant fmell, fomewhat like that of rofemary, but much stronger. It is totally volatile, and inflammable; foluble in vinous spirits, oils, and the mineral acids; not in water, alcaline liquors, or the acids of the vegetable kingdom. This concrete is esteemed one of the most esficacious diaphoretics; and has long been celebrated in fevers, malignant and epidemical distempers; in deliria, where opiates fail of procuring fleep, and oftentimes aggravate the fymptoms, this medicine frequently fucceeds. Frederic Hoffman has wrote an express differtatation, De camphoræ usu interno securissimo & præstantissimo : the sub-

quickly through the whole body. and notably increase perspiration: that though given to the quantity of half a dram, diffolved in spirit of wine and duly diluted, it does not raife the pulse, or occasion any heat, but rather causes a sense of coolness about the præcordia: that it gives motion to flagnant humours in the most distant parts, or promotes their expulsion through the common emunctories: that on continuing its use for fome time, the blood became fenfibly more fluid, and the quantity of watery ferum which the habit before abounded with, was notably diminished: that in malignant fevers, and all difor . ders whether acute or chronical, proceeding from an acrid or putrescent state of the juices, camphor has most excellent effects, correcting the acrimony, expelling the putrid morbific matter through the cutaneous pores, and preventing an inflammation or fphacelus where there is previously any disposition thereto: that, by ftrengthening the vessels, it restrains hæmorrhagies happening in acute fevers; and promotes critical and periodical evacuations: that it expels even the venereal virus; and that he has known many examples of the lues being cured by camphor alone, a purgative only being premifed: and that in recent claps he has not found any one medicine equal to it in efficacy. In continual fevers, pleurifies, and all inflammatory cases, where there is a tendency to mortification, intense heat, thirst, or where the skin is dry and parched, whether before or after a delirium has come on, camphor joined with nitre produced most happy effects, almost immediately relieving all the fymptoms, occasioning a calm fleep and plentiful fweat, without fatiguing

fatiguing the patient. He farther leaves the conglutinating matter observes, that this simple, by its unhurt. antiphlogistic quality, prevents the ill effects of the more irritating medicines; that cantharides, and the acrid formulating catharties and diuretics, by the admixture of a finall proportion of a camphor, become much more mild and fafe in operation. The dofe of camphor is from two or three grains to ten or twelve, fometimes twenty.

CANCRORUM CHELÆ[L.E.] Crabs claws: the black tips of the claws of the common fea crab, or cancer marinus

CANCRORUM OCULI dilli [L. E.] Crabs eyes fo called: flony concretions found in the head, or rather stomach, of the aftacus fluviatilis, or craw fish.

The only virtue of these simples is to abforb acidities in the primæ viæ, fee page 52. The claws enter an officinal lozenge, and give name to a powder, for this intentention.

Crabs eyes are faid by most writers on the materia medica to be frequently counterfeited with tobacco pipe clay, or compositions of chalk, with mucilaginous sub-flances. This piece of fraud, if really practifed, may be very eafily discovered; the counterfeits wanting the leafy texture which is obferved upon breaking the genuine : more readily imbibing water; adhering to the tongue; and diffolving in vinegar, or the firenger acids diluted with water, either entirely, or not at all, or by piece meal, whilft the true crabs eyes, digefted in these liquors, become foft and transparent, their original form remaining the fame: this change is owing to the earthy part, on which depended their opacity and hardness, being dissolved by the gentle action of the acid, which

CANELLA ALBA [L. E.] cinnamomum five canella tubis minoribus alba, C. B. This is a bark rolled up into long quills, thicker than cinnamon, and both outwardly and inwardly of a whitish colour. lightly inclining to yellow. It is the produce of a tall tree growing in great plenty in the lowlands in Jamaica, and other American islands, called by fir Hans Sloane, arbor baccifera laurifolia aromatica, fructu viridi calyculato racemofo. The canella is the interior bark. freed from an outward thin rough one, and dried in the shade. The shops diftinguish two forts of canella, differing from one another in the length and thickness of the quills: they are both the bark of the fame tree, the thicker being taken from the trunk, and the thinner from the branches. This bark is a warm pungent aromatic, not of the most agreeable kind : nor are any of the preparations of it very grateful. It is lately fometimes met with in extemporaneous prescription.

CANNABIS-[E.] cannabis fativa, C. B. Hemp, the feed. This plant, when fresh, has a rank narcotic fmell: the water in which the stalks are foaked, in order to facilitate the feparation of the line, or tough rind, for mechanic uses, is faid to be violently poisonous, and to produce its effect almost as foon as drank. The feeds also have fome finell of the herb; their tafte is unctuous and sweetish; on expression they yield a considerable quantity of infipid oil; hence they are recommended (boiled in milk, or triturated with water into an emulfion) against coughs, heat of

urine, and the like. They are also faid to be useful in incontinence of urine, and for restraining venereal appetites; but experience does not warrant their having any virtues of this kind.

CANTHARIDES [L. E.] Spanish flies. These infects are of a shining green colour, intermingled with more or less of a blue and a gold yellow. They are found adhering to different kinds of trees and herbs, in Spain, Italy, and France; the largest and most esteemed come from Italy.

Cantharides are extremely acrimonious: applied to the fkin, they first inflame, and afterwards exulcerate the part, raifing a more perfect blifter than any of the vegetable acrids, and occasioning a more plentiful discharge of serum : hence their common use as a vesicatory. Blisters are chiefly employed as a ftimulus in languid cafes, low fevers, lethargic diforders, and fluggish, phlegmatic corpulent habits: in thefe cafes, they generally raise the spirits, quicken the circulation, and increase the pulse: they occasion least pain, and confequently irritate leaft, when applied to the head; to the legs most. Blifters are also applied to the head in epileptic and maniacal diforders, inveterate and periodical headachs, and defluxions upon the eyes: in this last distemper, Hoffman relates, that he has observed a blifter applied to the nape of the neck as usual, increase the pain of the eyes, whilft one applied to the feet, gave relief as foon as the difcharge from the operation of the blifter began to take place. The fame author strongly recommends bliftering in rheumatic and gouty pains. A firangury frequently follows the external use of cantharides, accompanied with thirst and

feverish heat: this inconvenience may be remedied by foft, unctuous or mucilaginous liquors liberally drank

Cantharides taken internally, often occasion a discharge of blood by urine, with exquifite pain: if the dose is confiderable, they feem to inflame and exulcerate the whole intestinal canal; the stools become mucous and purulent; the breath fetid and cadaverous; intense pains are felt in the lower belly; the patient faints, grows giddy, raving mad, and dies. All these terrible confequences have fometimes happened from a few grains: Herman relates, that he has known a quarter of a grain inflame the kidneys, and occasion bloody urine with violent pain. There are nevertheless cases in which this stimulating fly, given in larger doses, proves not only fafe, but of fingular efficacy for the cure of difeases that yield little to medicines of a milder class. In cold phlegmatic fluggish habits, where the vifcera are overloaded, and the kidneys and ureters obstructed with thick viscid mucous matter, cantharides have excellent effects; here the abounding mucus defends the folids from the acrimony of the fly, till it is itself expelled; when the medicine ought to be immediately discontinued. Groenvelt employed cantharides with great fuccels in dropfies, obstinate suppressions of urine, and ulcerations of the bladder; giving very confiderable doses made into boluses with camphor; and interpoling large draughts of emullions, milk, and the like : by this means, the excessive irritation which they would otherwise have occasioned, was in great measure prevented. The camphor did not perhaps contribute fo much to this effect as is generally imagined : fince it has no fensible quality that pro-

mifes any confiderable abatement of the acrimony of cantharides: nitre would answer effectually all that the camphor is supposed to perform : this with milk, or emollient mucilaginous liquors, drank in large quantity, are the best correctors. If the liberal use of these be complied with, cantharides, in the circumstances above related, proves a medicine of excellent fervice: but no corrector can render it fafe in bilious habits, where there is any tendency to inflammation, where the natural mucus of the intestines is abraded, or the viscera unfound.

The virtues of cantharides are equally extracted by rectified spirit of wine, proof spirit and water; but do not arise in distillation. The watery and spirituous extracts blister as freely as the sly in substance; whilst the sly remaining after the several menstrua have performed their office, is to the taste insipid, and does not in the least blister, or instance the skin.

CAPILLUS VENERIS, vide

CAPPARIS-[E.] capparis spinosa fructu minore, folio rotundo C. B. Caper bush; the bark of the root, and buds of the flowers. This is a low prickly bush, found wild in Italy, and other countries: it is raifed with us by fowing the feeds upon old walls, where they take root betwixt the bricks, and endure for many years. The bark of the root (cortex capparis) is pretty thick, of an ash colour, with feveral transverse wrinkles on the furface: cut in flices and laid to dry, it rolls up into quills. This bark has a bitterish acrid taste: it is reckoned aperient and diuretic; and recommended in feveral chronic diforders, for opening obstructions of the viscera. The buds, pickled with vinegar, &c. are used at table. They are supposed to excite appetite, and promote digestion; and to be particularly useful, as detergents and aperients, in obstructions of the liver and spleen. Their taste and virtues depend more upon the saline matter introduced into them, than on the caper buds.

CAPRIFOLIUM [E.] periclymenum non perfoliatum Germanicum
C. B. Woodbind or honey fuckle;
the leaves and flowers. This is
a climbing fhrub, common in
hedges; the beauty of its flowers
has gained it a place also in gardens. The leaves have a difagreeable fmell; the flowers a very
pleasant sweet one; the taste of
both is herbaceous and roughish.
They are said to be diuretic and
aperient.

CAPSICUM, vide PIPER IN-

CARABE, vide Succinum.

CARANNA [E.] This is a refinous fubstance brought from New Spain, and other parts of America, in little masses, rolled up in leaves of stags: it is said to exude from a species of palm tree. This resin is very rarely made use of in medicine, or met with in the shops; whence the college have rejected it from their catalogue.

CARDAMOMUM MAJUS [E.] Greater cardamom. This is a dried fruit or pod, about an inch long, containing under a thick skin two rows of small triangular feeds of a warm aromatic slavour.

CARDAMOMUM MINUS
[L. E.] Lesser cardamom. This
fruit is scarce half the length of the

ably stronger both in smell and in gardens: it slowers in June and tafte. Hence this fort has long July, and perfects its feeds in the fupplied the place of the other in autumn. The herb should be gasupplied the place of the other in the shops, and is the only one now directed by the college

Cardamom feeds are a very warm, grateful, pungent aromatic, and frequently employed as fuch in practice: they have this peculiar advantage, that notwithstanding their pungency, they do not, like those of the pepper kind, immoderately heat or inflame the bowels. Both water and rectified spirit extract their virtues by infusion, and elevate them in diffillation; with this difference, that the tincture and diffilled spirit, are considerably more grateful than the infusion and distilled water: the watery infusion appears turbid and mucilaginous; the tincture made in spirit limpid and transparent. The husks of these seeds, which have very little fmell or tafte, may be commodioully separated, by committing the whole to the mortar, when the feed will readily pulverize, fo as to be freed from the shell by the fieve: this should not be done till just before using them; for if kept without the hufks, they foon lofe confiderably of their flavour.

CARDIACA [E.] marrubium cardiaca di um, forte primum Theo-phrasti C. B. Motherwort; the leaves. This is common in wafte places, and found in flower greatest part of the fummer. The leaves have a bitterish taste, and a strong difagreeable fmell: they are fupposed to be useful in hysteric disorders, and likewife to promote urine.

CARDUUS BENEDICTUS [L. E.] carduus luteus procumbens, sudorificus et amarus Morison. Bles-

foregoing: the feeds are confider- This is an annual plant, cultivated thered when in flower, dryed in the shade, and kept in a very dry airy place, to prevent its rotting or growing mouldy, which it is very apt to do. The leaves have a penetrating bitter tafte, not very flrong, or very durable; accom-panied with an ungrateful flavour, which they are in great measure freed from by keeping. Water extracts, in a few minutes, even without heat, the lighter and more grateful parts of this plant: if the digestion is continued for some hours, the difagreeable parts are taken up: a strong decoction is very naufeous and offenfive to the stomach. Rectified spirit gains a very pleafant bitter tafte, which remains uninjured in the extract. The virtues of this plant feem to be little known in the present practice. The naufeous decoction is fometimes used to provoke vomiting; and a strong infusion to promote the operation of other emetics. But this elegant bitter, when freed from the offensive parts of the herb, may be advantageously applied to other purposes. I have frequently experienced excellent effects from a light infusion of carduus in loss of appetite, where the flomach was injured by irregularities. A stronger infusion made in cold or warm water, if drank freely, and the patient kept warm, occasions a plentiful fweat, and promotes all the fecretions in general. The feeds of this plant are also considerably bitter, and have been fometimes used in the same intention as the leaves.

CARICÆ [L. E.] Figs; the dried fruit of the ficus communis fed thiftle; the leaves and feed. C. B. The principal use of these

is as a foft, emollient fweet; in this college directs cubebs as a fubflitute intention they enter the pectoral decoction and lenitive electuary of the shops. They are also esteemed by fome as suppuratives, and hence have a place in the maturating cataplasm.

CARLINA [E.] carlina acaulos magno flore albo C. B. Carline thiftle; the root. This is a very prickly fort of thiftle, growing spontaneously in the fouthern parts of France, Spain, Italy, and the mountains of Swifferland; from whence the dried roots are brought to us. This soot is about an inch thick, externally of a dark reddish brown colour, corroded as it were on the furface, and perforated with numerous fmall holes, appearing when cut as if worm-eaten. It has a strong smell, and an aerid, bitter, aromatic tafte. Carlina is looked on as a warm diaphoretic and alexipharmac; and has been for fome time greatly efteemed by foreign physicians, but never came much into use among us: the present practice has entirely rejected it; nor is it often to be met with in the shops. Frederic Hostman, the elder, relates, that he has feveral times observed a decoction of it in broth occasion vomiting.

CARPOBALSAMUM[L.] This is the fruit of the tree that yields the balm of Gilead. It is about the fize of a pea, of a whitish colour, inclosed in a dark brown wrinkled bark. This fruit, when in perfection, has a pleafant warm glowing tafte, and a fragrant smell, refembling that of the opobalfamum itself. It is very rarely found in the shops; and fuch as we now and then do meet with, has almost entirely loft its finell and tafte. It is of no other use in this country than as an ingredient in the mithridate and theriaca, in both which the

CARTHAMUS [E.] cartamus officinarum flore croceo Tourn. Baftard faffron; the feeds. This is a foft kind of thiftle, with only a few prickles about the edges of the leaves. It is cultivated in large quantity in fome places of Germany; from whence the other parts of Europe are fupplied with the flowers as a colouring drug, and the feeds as a medicinal one The flowers, well cured, are not eafily diffinguishable by the eye from faffron; but their want of fmell readily discovers them. The feeds are white, fmooth, of an oblong roundish shape, yet with four fenfible corners, about a quarter of an inch in length, fo heavy as to fink water; of a vifcid sweetish taste, which in a little time becomes acrid and naufeous. Thefe feeds have been celebrated as a cathartic: they operate very flowly, and for the most part disorder the bowels, especially when given in fubflance: triturated with aromatic diffilled waters, they form an emulsion less offensive, yet inferior in efficacy to more common purgatives.

CARUI [L. E.] cuminum pratense carui officinarum C. B. Caraway; the feeds. This is an umbelliferous plant, cultivated with us in gardens, both for culinary and medicinal use. The feeds have an aromatic finell, and a warm pungent taste. These are in the number of the four greater hot feeds; and frequently employed as a stomachic and carminative in flatulent colics, and the like.

CARYOPHYLLA AROMATI-CA [L. E.] Cloves are the flower eups (not as is generally supposed

the fruit) of a bay-like tree, growing in the East Indies. In shape, they fomewhat refemble a fhort thick nail: in the infide of each clove are found a ftylus and stamina with their apices, as in other flower cups: at the larger end fhoot out from the four angles four little points like a flar, in the middle of which is a round ball, composed of four little leaves, which are the unexpanded petala of the flower. Cloves have a very frong agreeable aromatic fmell, and a bitterish pungent taste, almost burning the mouth and fauces. The Dutch, from whom we have this spice, frequently mix with it cloves which have been robbed of their oil: thefe, tho' in time they regain from the others a confiderable share both of taste and fmell, are easily distinguishable by their weaker flavour and lighter colour. Cloves, confidered as medicines, are very hot stimulating aromatics, and poffefs in an eminent degree the general virtues of substances of this class. An extract made from them with rectified spirit is exceffively hot and pungent; the distilled oil has no great pungency; an extract made with water is naufeous and fomewhat ftyptic.

CARYOPHYLLA RUBRA [L. E.] caryophyllus altilis major, C. B. Clove july flowers. A great variety of these flowers are met with in our gardens: those made use of in medicine ought to be of a deep crimfon colour, and a pleafant aromatic fmell, fomewhat like that of cloves; many forts have scarce any smell at all. The caryophylla rubra are faid to be cardiac and alexipharmac: Simon Paulli relates, that he has cured many malignant fevers by the use of a decoction of them; which he fays powerfully promotes fweat and

urine, without greatly irritating nature, and also raises the spirits, and quenches thirst. At present these slowers are chiefly valued for their pleasant flavour, which is entirely lost even by light coction: hence the college direct the syrup, which is the only officinal preparation of them, to be made by infusion.

caryophyllata vulgarit fine parvo luteo J. B. Avens, or herb benet; the root. Avens is a rough pilant found wild in woods and hedges. The root has a warm, bitteriff, aftringent tafte, and a pleafant finell, fomewhat of the clove kind, especially in the spring, and when produced in dry warm foils; Parkinson observes, that such as is the growth of moist soils has nothing of this flavour. This root has been employed as a stomachic, and for strengthening the tone of the viscera in general: it is still in some esteem in foreign countries, though not taken notice of among us. It yields on distillation an elegant odoriferous essential oil, which concretes into a stay of the st

CASIA FISTULARIS [L. E.] the fruit of an oriental tree, refembling the walnut. This fruit is a cylindrical pod, scarce an inch in diameter, a foot or more in length : the outfide is a hard brown bark: the infide is divided by thin transverse woody plates, covered with a foft black pulp of a fweetish tafte with fome degree of acrimony. There are two forts of this drug in the shops; one brought from the East Indies, the other from the West: the canes or pods of the latter are generally large, rough, thick rinded; and the pulp naufeous : those of the former are less, smoother, the pulp blacker, and of a fiveeter tafte;

is preferred to the this fort other. Such pods should be chosen as are weighty, new, and do not make a rattling noise (from the feeds being loofe within them) when shaken. The pulp should be of a bright, fhining black colour, and a fweet taste, not harsh (which happens from the fruit being gathered before it has grown fully ripe) or fourish (which it is apt to turn upon keeping :) it should neither be too dry, nor too moift, nor at all mouldy, which from its being kept in damp cellers, or moistened in order to increase its weight, it is very subject to be. Greatest part of the pulp diffolves both in water and in rectified spirit; and may be extracted from the cane by either. The shops employ water, boiling the bruifed pod therein, and afterwards evaporating the folution to a due confiftence. The pulp of cafia is a gentle laxative medicine, and frequently exhibited in a dofe of fome drams, in costive habits. Some direct a dose of two ounces or more as a cathartic, in inflammatory cases, wherethe more acrid purgatives have no place : but in thefe large quantities it generally nau-feates the flomach, produces flatulencies, and fometimes gripings of the bowels, especially if the casia is not of a very good kind; thefe effects may be prevented by the addition of aromatics, and exhibiting it in a liquid form. Geoffrov fays it does excellent fervice in the painful tension of the belly which fometimes follows the imprudent use of antimonials; and that it may be advantageously acuated with the more acrid purgatives or antimonial emetics, or employed to abate their force. Vallisnieri relates that the purgative virtue of this medicine is remarkably promoted by manna; that a mixture of four drams of casia, and two of

manna, purges as much as twelve drams of casia, or thirty-two of manna alone. Sennertus observes, that the urine is apt to be turned of a green colour by the use of casia; and sometimes, where a large quantity has been taken, blackish.

CASIA LIGNEA; [L. E.] the bark of an Indian tree called by Breynius arbor canellifera Indica, cortice acerrimo viscido seu mucilaginoso, qui cassia lignea officinarum. This bark, in appearance and aromatic flavour approaches to cinnamon; from which it is eafily diftinguishable by its remarkable vifcidity: chewed, it feems to dissolve in the mouth into a flimy fubflance; boiled in water, it gives out a strong mucilage, the aromatic part exhaling; the water obtained by distillation has an unpleafant fmell, fomewhat of the empyreumatic kind: nevertheless the distilled oil proves nearly of the fame quality with that of cinnamon. Cafia possesses the aromatic virtues of cinnamon; but in an inferior degree; and its effects are less durable. Its glutinous quality renders it useful in some cases where fimple aromatics are less proper.

CASTOREUM; [L. E.] Caffor is the inguinal glands of the beaver, a four-footed amphibious animal, frequent in feveral parts of Europe and America. The best comes from Russia: this is in large round hard cods, which appear, when cut, full of a brittle red liver-coloured fubstance, interspersed with membranes and fibres exquifitely interwoven. An inferior fort is brought from Dantzick; this is generally fat and moift. The worst of all is that of New England, which is in longish thin cods. Russia castor has a strong not agreeable fmell, and an acrid, biting, bitterish nauseous tafte.

part, with little of the finer bitter; rectified spirit extracts this last, without much of the naufeous; proof fpirit both: water elevates the whole of its flavour in distillation; rectified spirit brings over nothing. Castor is looked upon as one of the capital nervine and anti-hysteric medicines: fome celebrated practitioners have nevertheless doubted its virtues; and Neuman and Stahl declared it infignificant. For our own part, we never could find it an- flore purpureo J. B. Leffer cenfwer the character which has been usually given of it.

CASUMUNAR; [L. E.] This is a tuberous root, an inch or more in thickness, marked on the furface with circles or joints like galangal, of a brownish or ash colour on the outfide, and a dufky yellowish within: it is brought from the East Indies, cut into transverse slices; what kind of plant it produces, is not known. Cafumunar has a warm bitterish taste, and an aromatic fmell fomewhat refembling that of ginger. It has been celebrated in hysteric cases, epilepsies, palsies, loss of memory, and other diforders : the present practice sometimes employs it as a stomachic and carminative.

CAUDA EQUINA; [E.] equisetum palustre longioribus setis C. B. Horsetail; the herb. This is common in watery places. It is faid to be a very strong astringent: Geoffry tell us that not only the herb itself in form of powder, but likewise water distilled from it, are very efficacious medicines against fluxes and hæmorrhagies: they are both equally infipid, and probably of equal efficacy.

CENTAURIUM MAJUS, [E.]

taste. Water extracts the nauseous folio in lacinias plures diviso C. B. Greater centaury; the root. This is a large plant, cultivated in gardens. The root has a rough fomewhat acrid tafte, and abounds with a red vifcid juice: its rough tafte has gained it some esteem as an aftringent; its acrimony as an aperient; and its glutinous quality as a vulnerary: the prefent practice takes little notice of it in any in-

CENTAURIUM MINUS[L. E.] taury; the leaves and tops. grows wild in many parts of England, in dry pasture grounds, and amongst corn. The leaves are an useful aperient bitter, void of acrimony: they stand recommended as fudorific and emmenagogue; and by fome in the jaundice, intermittent fevers, and dropfies.

CENTINODIUM; [E.] polygonum latifolium C. B. Knotgrafs; the herb. This is faid to be vulnerary and aftringent, but on no very good foundation.

CEPA; [L. E.] cepa vulgaris C. B. Onions differ from all the other bulbous rooted plants, in having fingle roots, or fuch as cannot be parted fo as to encrease the plant; whence they were formerly called uniones. Onions are frequently employed in food: they afford little or no nourishment, and when eaten liberally produce flatulencies, occasion thirst, headachs, and turbulent dreams: in cold phlegmatic habits, where vifcid mucus abounds, they doubtless have their use; as by their stimulating quality they tend to excite appetite, attenuate thick juices, and promote their expulsion; by some they are strongly recommended in suppresfions of urine, and in dropfies. The chief medicinal use of onions

in the present practice is in external applications, as a cataplasm for suppurating tumors, &c.

CERAFLAVA, [L. E.] yellow bees wax. This is a folid concrete obtained from the honey combs after the honey is got out, by heating and preffing them betwixt iron plates. The best fort is of a lively vellow colour, and an agreeable fmell, fomewhat like that of honey: when new, it is toughish, yet easy to break ; by age it becomes harder and more brittle, loses its fine coand in great measure its fmell.

CERA ALBA: [L. E.] White wax is prepared from the yellow, by reducing it into thin flakes, and exposing it for a length of time to the air; when fufficiently bleached, it is melted, and cast into cakes. The best fort is of a clear and almost transparent whiteness, a light agreeable fmell like that of the yellow wax, but much weaker. The chief medical use of wax is

in cerates, plasters, unquents, &c. as an emollient, for promoting sup-puration, &c. It readily unites with oils and animal fats, but not with watery or spirituous liquors.

CERASUS; [E.] cerasus major & sylvestris. fructu subdulci, nigro colore inficiente C. B. Et cerasus sativa, fruetu rotundo rubro & acido Town. Et cerafa acidissima fan-guineo succo C. B. The sweet cherry with a black juice; the pleafantly fourish cherry, with a colourless juice; and the very four cherry, with a blood red juice; commonly called black, red, and morello cherries. These fruits, especially the acid forts, are very ufeful and agreeable coolers and quenchers of thirst; and are sometimes directed in this intention, in hot, bilious, or febrile distempers.

Boerhaave was extremely fond of these and the other fruits, called boræi, as aperients, in some chronic cases: and declares himself perfuaded, that there is no kind of obstruction of the viscera capable of being removed by medicine, which will not yield to the continued use of these; no viscid juices which will not be attenuated by

CERUSSA; [L. E.] ceruffe, or white lead, prepared by exposing lead to the steam of vegetable acids till corroded into a white powdery fubstance. It is fometimes adulterated with a mixture of common whiting; this, if in any confiderable quantity, may be eafily difcovered by the specific lightness of the compound: the fort called flake lead is not subject to abuse. See the article PLUMBUM; and Coruffa in the fecond part.

CETERACH; [E.] fpleenwort or miltwaft. This is a fmall bufly plant growing upon rocks and old walls. It has an herbaceous, fomewhat mucilaginous, roughish taste: and hence is recommended for obtunding acrimonious juices, strengthening the tone of the intestines, as also for promoting expectoration. The virtue which it has been most celebrated for, is that which it has the least title to, diminishing the fpleen.

CHÆREFOLIUM; [E.] chærophyllum fativum C. B. Chervil;
the leaves. This is a low annual plant, fomewhat like parfley, commonly cultivated in gardens for culinary purposes. This plant is grateful both to the palate and flomach, gently aperient and diuretic. Geoffroy affures us, that he has found it from experience to be of excellent fervice in dropfies; that in this diforder, it promotes the native, aperient, emollient, and in discharge of urine when suppressed, renders it clear when feculent and turbid, and when high and fiery of a paler colour; that it acts mildly without irritation, and tends rather to allay than excite inflammation; and that dropfies which do not yield to this medicine, are fcarce capable of being cured by any other. He directs the juice to be given in the dofe of three or four ounces every fourth hour, and continued for fome time, either alone, or in conjunction with nitre and fyrup of the five opening roots.

CHALYBS, vide FERRUM.

CHAMACYPARISSUS, vide ABROTANUM FOEMINA.

CHAMÆDRYS; [L. E.] chamadrys minor repens C. B. mander; the tops with the feed. This is a low fhrubby plant, met with only in gardens. The leaves, tops, and feeds have a bitter tafte, with some degree of astringency and aromatic flavour. They are recommended as fudorific, diuretic, and emmenagogue, and for strengthening the flomach and vifcera in general. With fome they have been in great efteem in intermitting fevers; as also in scrophulous and other chronic disorders.

CHAMÆLEON ALBUS, vide CARLINA.

CHAMÆMELUM; [L. E.] chamæmelum nobile seu leucanthemum odoratius, C. B. Single flowered chamæmele (the trailing fort, with larger leaves and flowers, and the disc of the flower not very convex) the flowers. These have a strong, not ungrateful, aromatic smell, and a very bitter, nauseous taste. They are accounted flimulating, carmi-

fome measure anodyne: and fland recommended in flatulent colics, for promoting the uterine purgations, in tention and rigidity of particular parts, in spasmodic pains, and the pains of childbed women : fometimes they have been employed in fcrophulous cases, intermittent fevers, and the nephritis. flowers are frequently also used externally in discutient and antileptic fomentations, and in emollient clysters: they enter the fotus communis and decoctum commune pro chylere of our dispensatory.

CHAMAMELUM flore multiplici, C. B. Double flowered chamæmele; the flowers. These differ from the foregoing in having feveral rows of the white petala fet thick together about the middle dife, which is fmaller. In this dife the medicinal qualities of the flower chiefly refide; and hence the double or small disked fort are efteemed inferior to the fingle.

CHAMÆPITYS; [L. E.] chamapitys lutea vulgaris five folio trifido G. B. Groundpine; the leaves. This is a low hairy plant, clammy to the touch, of a firong aromatic refinous finell, and a bitter roughish taffe. It is recommended as an aperient and vulnerary, as also in gouty and rheumatic pains.

CHEIRI; [E] leucoium luteum vulgare, C. B. Wallflower. This grows upon old walls and among rubbish, in feveral parts of England. The flowers have a pleafant fmeil, and a subacrid, bitterish, not agreeable tafte; they are faid to be cordial, anodyne, aperient, and emmenagogue.

CHELIDONIUM MAJUS; [E.] chelidonium majus vulgare, C. B. Celandine; the leaves and root.

This plant grows on old walls, among rubbish, and in waste shady places. The herb is of a blueish green colour; the root of a deep red; both contain a gold coloured juice : their fmell is difagreeable ; the tafte somewhat bitterish, very acrid, biting and burning the mouth; the root is the most acrid. Juice of celandine has long been celebrated in diforders of the eyes; but it is greatly too sharp, unless plentifully diluted, to be applied with fafety to that tender organ. It has been fometimes used, and it is said with good fuccefs, for extirpating warts, cleanfing old ulcers, and in cataplasms for the herpes miliaris. This acrimonious plant is rarely exhibited internally: the virtues attributed to it are those of a stimulating aperient, diuretic, and fudorific: it is particularly recommended in the flow kind of jaundice, where there are no symptoms of inflammation, and in dropfies; fome suppose the root to have been Helmont's specific in the hydrops ascites. Half a dram or a dram of the dry root is directed for a dofe; or an infusion in wine of an ounce of the fresh root.

CHELIDONIUM MINUS; [E.] chelidonia roturdifolia minor C. B. Pilewort; the leaves and root. This is a very finall plant, found in moist meadows and by hedge sides: the roots consist of slender sibres, with some little tubercles among them, which are supposed to resemble the hamorrhoids; from whence it has been concluded, that this root must needs be of wonderful essicacy for the cure of that distemper.

CHERMES, vide KERMES.

CHINA; [E.] china root. There are two forts of this root in the fliops, one brought from the East

Indies, the other from the West. They are both longish, full of joints, of a pale reddish colour, of no fmell, and very little taile: the oriental, which is the most esteemed, is confiderably harder and paler coloured than the other. Such should be chosen as is fresh, close, heavy, and upon being chewed appears full of a fat uncluous juice. China root was either unknown or difregarded by the ancient physicians. It was first introduced into Europe about the year 1535, with the character of a specific against venereal and cutaneous diforders, and as fuch was made use of for some time, but at length gave place to medicines of a more powerful kind. It is generally supposed to promote infensible perspiration and the urinary discharge; and by its unctuous quality to obtund acrimonious juices.

CHINACHINÆ, vide PERU-

CICER RUBRUM; [E.] cicer floribus & feminibus ex purpura rube/centibus C. B. Red chiches or chich peas. This is a fort of pulse cultivated in the warmer climates, where our finer peas do not thrive fo well. They are a strong, statulent sqod, hard of digestion. Lithontriptic and diuretic virtues are attributed to them, on no very good foundation.

CICHOREUM; [E.] cichoreum. fylvestre sive estimatum C. B. Wild succery; the roots, leaves, slowers and seeds. The root has a moderately bitter taste, with some degree of astringency; the leaves are somewhat less bitter, and the slowers least of all; the roots, stalks, and leaves yield on being wounded a milky supenaceous juice. By culture, this plant loses its green colour.

colour, and its bitterness, and in this flate is employed in falads: the darker coloured and more deeply jagged the leaves, the bitterer is their taffe. Wild fuccory is an useful detergent, aperient, and attenuating medicine; acting without irritation, tending rather to cool than to heat the body, and at the fame time corroborating the tone of the intestines. The juice taken in large quantities, fo as to keep up a gentle diarrhoa, and continued for fome weeks, has been found to produce excellent effects in fcorbutic and other chronical diforders. The feeds are ranked among the leffer cold feeds.

CICUTA; [E.] cicuta major C. B. Hemlock; the leaves. This is a large umbelliferous plant, common about the fides of fields, under hedges, and in moist shady places: the leaves are winged, divided into a great number of fmall fern-like fections, of a dark or blackish green colour, and appearing as it were rough: the stalk is hollow (as is likewife great part of the root after the flalk has arifen) and fpotted with feveral blackish or purplish spots. Hemlock is sometimes applied externally to hard and ferophulous tumours; to womens breafts for preventing their immoderate growth, the generation or coagulation of milk, &c. Received internally, it is accounted poifonous: nevertheless there are examples of feveral ounces having been taken without inconvenience. But in most of the histories of the good or ill effects of the cicuta, it is uncertain what the plant employed really was. See Trew. Com. Nor. 1740. Hebd. 47.

CINERES RUSSICI; [L.] Ruffia potafi. Potafi is an impure alcaline falt, produced from vegeta-

ble matters by burning. The strongeft is brought from Ruffia, in dark coloured very hard masses, which nevertheless foon deliquiate in the air. This fort is prepared by burning wood with a close fmothering heat, and making the ashes, with a ley drawn from the coarier part of them, into a paste, which is afterwards stratified with some of the more inflammable kinds of wood, and burnt a fecond time: by this means the falt melts, and concretes with the earthy matter of the ashes, into hard cakes. A purer and whiter falt is brought to us from Germany, under the name of pearl ashes: this is extracted from wood afhes by means of water, and afterwards reduced into a dry form by evaporation. The method of preparing potash in our own country, may be feen in Prastical Chemistry, page 273. These falts are liable to great abuses from fundry admixtures, and therefore should never be employed for medicinal purposes, without due purification: this may be effected by folution in cold water, filtration, and exficcation.

CINNABARIS NATIVA; [E.] native cinnabar. This is a ponderous mineral of a red colour, found in Spain, Hungary, and feveral other parts of the world. The finest fort is in pretty large maffes, both externally and internally of an elegant deep red colour, which greatly improves upon grinding the mais into fine powder; this is imported by the Dutch from the East Indies: There is another fort, of a good colour, in roundish drops, smooth without, and firiated within, This mineral appears from chemical experiments to be composed of mercury and fulphur, in fuch a manner that the quantity of the former is commonly above fix times greater

greater than that of the latter, the finer the colour of the cinnabar, the more mercury it is found to hold. Native cinnabar has been by many preferred as a medicine to that made by art : but there does not appear to be any just foundation for this preference. The native has fometimes been observed to occasion naufeæ, vomiting, and anxiety: these probably proceeded from an admixture of fome arfenical particles which it could not be freed from by repeated ablution. When pure it has no quality or medical virtue diftinct from those of the artificial cinnabar, like which it is indiffoluble in the animal fluids, or in any of the known acid, alcaline, or other menstrua.

CINNAMOMUM; [L. E.] cinnamon. This is a light, thin bark, of a reddish colour, rolled up in long quills or canes; of a fragrant, delightful fmell, and an aromatic, fweet, pungent tafte, with fome degree of aftringency. It is generally mixed with the casia bark: this last is casily distinguishable by its breaking over fmooth, whilst cinnamon splinters; and by its slimy mucilaginous tafte, without any thing of the roughness of the true cinnamon. Cinnamon is a very elegant and useful aromatic, more grateful both to the palate and flomach, than most other substances of this class: by its astringent quality it likewife corroborates the vifcera, and proves of great fervice in feveral kinds of alvine fluxes, and immoderate discharges from the uterus. A effential oil, a fimple and fpincous diffilled water, and a tincture of it, are kept in the

CITREA MALUS; [Es] the citron tree; the fruit, rind of the fruit, and feeds. 'This is an ever-

green tree or shrub, of the same genus with the orange and lemon: it was first brought from Assyria and Media (whence the fruit is called mala Assyria, mala Medica) into Greece, and thence into the southern parts of Europe, where it is now cultivated. Citrons are rarely made use of among us: they are of the same quality with lemons, except that their juice is somewhat less acid.

CITRULLUS; [E.] anguria citrullus dicia, C. B. Citruls; the feed. This plant is rarely met with among us, unless in botanic gardens. The feeds are in the number of the four greater cold feeds, and agree in quality with the others of that class.

CNICUS, vide CARTHAMUS.

COCCINELLA: [L. E.] cochineal. This is a fmall grain, of an irregular figure, a dark red colour on the outfide, and a deep bright red within: it is brought from Mexico and New Spain. This substance has long been supposed to be the feed of a plant: it appears from chemical experiments to be an animal, and from the accounts of the more celebrated naturalists, an infect, which breeds on the American prickly pear-tree, and adheres thereto without changing its place. Cochineal has been frongly recommended as a fudorific, cardiac and alexipharmac: but practitioners have never observed any considerable effects from it. Its greatest confumption is among the scarlet dyers; and in medicine its principal use is as a colouring drug; both watery and spirituous liquors extract its colour.

COCHLEÆ TERRESTRES, vide Limaces terrestres.

COCH-

COCHLEARIA HORTEN-SIS; [L. E.] cochlearia folio fubrotundo C. B. Garden fcurvygrass; the leaves.

COCHLEARIA MARINA: [E.] cochlearia folio finuato C. B. Sea feurvygrass; the leaves. These plants have little other difference as to their external appearance than that expressed in their titles: in tafte and medical virtue, the first is confiderably ftrongest; and hence is alone retained by the college. Scurvygrafs is a pungent stimulating medicine; capable of diffolving vifcid juices, opening obstructions of the vifcera, and the more distant glands, and promoting the fluid fecretions: it is particularly celebrated in fcurvies, and is the principal herb employed in these kinds of disorders in the northern countries.

COFFEE; [E.] the fruit of an oriental shrub called by Jussieu jasminum Arabicum lauri folio, cujus semen apud nos casse dicitur. This fruit is employed rather as food than as a medicine. The medical effects expected from it, are to assist fisself digestion, promote the natural secretions, and prevent or remove a disposition to sleepiness.

COLOCYNTHIS; [L. E.] coloquintida or bitter apple. This is the produce of a plant of the gourd kind growing in Turkey. fruit is about the fize of an orange; its medullary part, freed from the rind and feeds, is alone made use of in medicine: this is very light, white, fpongy, composed of membranous leaves; of an extremely bitter, nauseous, acrimonious taste. Colocynth is one of the most powerful and most violent cathartics. Many eminent physicians condemn it as dangerous and even deleterious: others recommend it not only as an efficacious purgative, but like-

wife as an alterative in obstinate chronical diforders. Thus much is certain, that colocynth in the dose of a few grains, acts with great vehemence, diforders the body, and fometimes occasions a discharge of blood. Many attempts have been made to correct its virulence by the addition of acids, aftringents, and the like : thefe may leffen the force of the colocynth, but no otherwise than might be equally done by the reduction of the dofe. The only method of abating its virulence, without diminishing its purgative virtue, is to inlarge its volume, by triturating it with fugar, testaceous substances, or the like, which without making any alteration in the colocynth itself, prevent its refinous particles from cohering. and flicking upon the membranes of the intestines fo as to irritate, inflame, or corrode them.

consolida Major; [E.] comfry; the root. This is a rough hairy plant, growing wild by river fides, and in watery places. The roots are very large, black on the outfide, white within, full of a vifcid glutinous juice, of no particular tafte. They agree in quality with the roots of althæa; with this difference, that the mucilage of confolida is fomewhat stronger bodied. Many ridiculous histories of the confolidating virtues of this plant are related by authors.

CONSOLIDA MEDIA, vide

CONSOLIDA MINIMA, vide

CONTRAYERVA; [L. E.] this is a knotty root, an inch or two in length, about half an inch thick, of a reddish brown colour externally, and pale within; long,

tough, flender fibres fhoot out from all fides of it; these are generally loaded with knotty excrescences. This root is of a peculiar kind of aromatic fmell, and a fomewhat aftringent, warm, bitterish taste, with a light and fweetish kind of acrimony when long chewed: the fibres have little tafte or smell; the tuberous part therefore should be only chosen. Contrayerva is one of the mildest of those substances called alexipharmacs: it is indifputably a good and ufeful diaphoretic, and may be fafely given in much larger doses than the common practice is accustomed to exhibit it in. Its virtues are extracted both by water and rectified spirit, and do not arife in evaporation with either: the fpirituous tincture and extract tafte stronger of the root than the aqueous ones.

COPAL; [E.] a refin obtained from feveral forts of large trees growing in New Spain. This refin is brought to us in irregular lumps, fome transparent, of a yellowith or brown colour, others femitransparent and whitish. It has never come into use as a medicine, and is rarely met with in the shops.

CORALLINA; [E.] musicus maritimus sive corallina officinarum C. B. Sea moss. This is a branched flony substance of a white colour, growing on rocks and sometimes on the shells of sishes. It is celebrated as a vermisuge, on what soundation we know not: to the taste it is intirely insipid.

corallium Album, [E.] et Rubrum; [L. E.] white and red coral. These also are marine productions, of the same nature with the foregoing. They cannot reasonably be looked upon in any other light than as mere absorbents: as such, the red coral enters the

officinal crabs claw powder, and is fometimes in practice directed by itfelf. Both forts are nearly of equal frength; they faturate lefs acid than chalk, oyfterfhells, or pearls; but more than the other powders called testaceous.

CORIANDRUM; [L. E.] coriandrum majus C. B. Coriander; the feed. Coriander is an umbelliferous plant, differing from all the others of that class in producing fpharical feeds. These, when fresh, have a strong disagreeable smell, which improves by drying, and becomes sufficiently grateful: they are recommended as carminative and stomachic.

CORNU CERVI; [L. E.] the flag or harts horns. Many extraordinary virtues have been attributed to these horns, and to all the parts of the animal in general : but experience gives no countenance to them; nor do they feem to have any other foundation than the great timidity of the hart, the annual renewal of his horns, and an opinion of his extraordinary longævity; from these circumstances it was inferred, that all the parts of him must be proper for intimidating the inraged archeus, renewing health and strength, and prolonging life.

CORNUS; [E.] cornus hortenfis mas C B. The cornel tree; its fruit. This fruit is moderately cooling and astringent, but not regarded as an article of the materia medica.

COSTUS [L. E.] a root brought from the East Indies. Authors mention two forts of coslus, sweet and bitter: in the shops we seldom meet with any more than one, the cossus dulcis officinarum C.B. This root is about the fize of the singer;

and confifts of a yellowish woody part, inclosed within a whitish bark: the former is very tough, of no fmell, and very little tatte; the cortical part brittle, of a warm, bitterish, aromatic taste, and an agreeable fmell, fomewhat refembling that of violets or Florentine Costus is faid to attenuate viscid humours, to promote expectoration, perspiration, and urine. At present it is rarely met with in prescription, and not often in the fhops; in mithridate and theriaca, the only officinal compositions it is directed in, zedoary fupplies its place.

COSTUS HORTORUM, vide

cotula foetidum C. B. Mayweed, or wild chamæmele; the leaves. This plant is common among corn, and in waste places. In appearance it resembles some of the garden chamæmels, but is easily distinguishable from them by its strong fetid scent. It is never used in medicine.

CRASSULA; [E.] telephium vulgare C. B. Orpine; the leaves. This is a very thick leaved juicy plant, not unlike the houseleeks. It has a mucilaginous roughish taste, and hence is recommended as emollient and astringent, but has never been much regarded in practice.

CRETA [L. E.] White chalk is a pure alcaline earth, totally foluble in vinegar, and the lighter acids, fo as to deftroy every fensible mark of their acidity. This earth is one of the most useful of the absorbents, and is to be looked upon simply as such: the astringent virtues which some attribute to it, have no foundation.

CRITHMUM; [E.] crithmum free famiculum maritimum minus G. B. Samphire; the leaves. This plant grows wild on rocks, and in maritime places: the leaves are fomewhat like those of fennel, but the fegments much thicker and shorter: their smell resembles that of smallage; the tasse is warm, bitterish, not agreeable. They are faid to be stomachic, aperient, and diuretic.

CROCUS; [L. E.] crocus fativue C. B. Saffron; the chieves or fleshy capillaments growing at the end of the piffil of the flower, carefully picked and preffed together into cakes. There are three forts of faffron met with in the shops. two of which are brought from abroad, the other, is the produce of our own country: this last is greatly superior to the two former. from which it may be diftinguished by its blades being broader. When in perfection, it is of a fiery orange red colour, and yields a deep vellow tincture : it should be chosen fresh, not above a year old, in close cakes, neither dry, nor yet very moift, tough and firm in tearing, of the fame colour within as without, and of a ftrong, aerid, diffusive fmell.

Saffron is a very elegant and ufoful aromatic: belides the virtues which it has in common with all the bodies of that class, it remarkably exhilarates, raifes the spirits, and is defervedly accounted one of the highest cordials; taken in large dofes, it is faid to occasion immoderate mirth, involuntary laughter, and the ill effects which follow from the abuse of spirituous liquors. This medicine is particularly ferviceable in hysteric depreifions proceeding from a cold caufe or obstruction of the uterine secretions, where other aromatics, even

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CUBEBÆ [L. E.] Cubebs; a fruit brought from the East Indies. This fruit has a great affinity with pepper. The principal difference, diftinguishable by the eye, is, that each cubeb is furnished with a long flender stalk (whence they are called by some piper caudatum.) In aromatic warmth and pungency, cubebs are far inferior to pepper.

CUCUMIS HORTENSIS [E.] Garden cucumbers; the feeds. These are in the number of the four greater cold feeds; they are less apt to grow rancid in keeping than the others of that class.

CUCUMIS AGRESTIS [L. E] cucumis sylvestris afininus dictus C. B. Wild cucumber; the fruit. This plant found wild in foreign countries, is with us cultivated in gardens. Its principal botanic difference from the former is the fmallness of its fruit, which is no bigger than a Spanish olive: when ripe, it bursts on a light touch, and sheds its feeds with violence, and hence was named by the Greeks elaterium. This name was applied likewife to the inspissated juice of the fruit. the only preparation of the plant made use of in medicine. Elaterium is a strong cathartic, and very often operates also upwards. Two or three grains are accounted in most cases a sufficient dose. Simon Paulli relates some instances of the good effects of this purgative in dropfies; but cautions practitioners not to have recourse to it till after milder medicines have proved ineffectual; to which caution we heartily subscribe. Medicines indeed in general, which act with violence in a small dose, require the utmost skill to manage them with any tolerable degree of safety; to which may be added, that the various manners of making these kinds of preparations, as practifed by different hands, must needs vary their power.

CUCURBITA; [E.] cucurbita oblonga, flore albo, folio molli C. B. The gourd; its feeds. These are in the number of the four greater cold feeds. They unite with water by trituration into an emulsion, yield to the press a fost inspid oil, and possess the general virtues of the substances of sect. 5. page 58.

CUMINUM, vide CYMINUM.

CUPRESSUS [E.] The cypress tree; its fruit. This is a tall tree growing wild in the warmer climates. The fruit is a strong astringent; and in some places frequently used as such; among us it is very rarely employed, and not often met with in the shops.

CUPRUM [L. E.] The preparations of copper are violently emetic, and therefore very rarely exhibited internally. Some have ventured upon a folution of a grain or two of the metal in vegetable acids, and observe, that it acts almost as foon as received into the stomach, so as to be of good use for occasioning poisonous substances that have been swallowed, to be immediately thrown up again. Boerhaave recommends a saturated solution of this metal in volatile alcaline spirits, as a medicine of great fervice

fervice in from an acid, weak, cold phlegmatic cause: if three drops of this tincture be taken every morning with a glass of mead, and the dose doubled every day, to twenty-four drops, it proves (he fays) aperient, attenuating, warming, and diuretic: he affures us, that by this means he cured a confirmed afcites; and that the urine run out as from an open pipe; but at the fame time acknowledges, that upon trying the fame medicine on others it failed him. He likewife recommends other preparations of copper, as of wonderful efficacy in certain kinds of ill habits, weaknefs of the stomach, &c. but we cannot think the internal use of this metal commendable or even fafe. Physicians in general feem to be agreed, that it has really a virulent quality; and too many examples are met with of fatal confequences enfuing upon eating food that had been dreffed in copper veffels not well cleaned from the rust they had contracted by lying in the air.

Great care ought to be had, that acid liquors, or even water, defigned for internal use, be not suffered to fland long in veffels made of copper; otherwise they will diffolve so much of the metal as will give them difagreeable qualities. Hence, in the distillation of simple waters with copper stills, the last runnings, which are manifestly acid, have frequently proved emetic. It is remarkable, that whilft weak acids liquors are kept boiling pointed. in copper veffels, they do not feem to diffolve any of the metal; but if fuffered to remain in them for the fame length of time without boiling, they become notably impregnated with the copper. Hence the confectioners, by skilful ma-

diforders, proceeding giving them any ill tafle from the metal.

> CURCUMA [E.] Turmeric; a root brought from the East Indies. This root is internally of a deep lively yellow, or faffron colour, which it readily imparts to watery liquors. It has an agreeable, weak fmell, and a bitterish somewhat warm tafte. Turmeric is esteemed aperient and emmenagogue, and of fingular efficacy in the jaundice. It tinges the urine of a faffron colour.

CUSCUTA [E.] Dodder. This is of the class of plants called parafitical, or which grow out from the body of others: it has no leaves, confifting only of a number of juicy filaments matted together. There are two forts of it, cufcuta major C. B. which grows commonly in heaths on furzes, nettles, &c. and likewise in fields of flax, and other manured plants; and the cuscuta minor, or epithymum of the fame author, fo called from its being found only upon thyme. This last is preferred for medici-nal use, and is usually brought from Leghorn and Turkey, with tops and stalks of thyme amongst it. Epithymum has a pretty ftrong fmell, and a roughish somewhat pungent tafte. Its virtues remain as yet to be determined : the ancients ranked it among cathartics; but those who have given it in that intention have been generally difap-

CYANUS; cyanus segitum C. B. Blue bottle; the flowers. This is a common weed among corn. The flowers are of an elegant blue colour, which, if carefully and haftily dried, they retain for a confidernagement, prepare the most acid able time. As to their virtues, the fyrups in copper veffels, without prefent practice expects not any

from them; notwithstanding they have been formerly celebrated against the bites of poisonous animals, contagious diseases, palpitations of the heart, and many other distempers.

CYCLAMEN, vide ARTHA-

CYDONIA MALUS; [L. E.] cotonea malus J. B. The quince tree; the fruit, and its feeds. Quinces have a very auftere acid tafte: taken in fmall quantity, they are fupposed to restrain vomiting, and alvine fluxes; and more liberally, to loosen the belly. The feeds abound with a mucilaginous substance of no particular taste, which they readily impart to watery liquors: an ounce will render three pints of water thick and ropy like the white of an egg.

CYMINUM; [L. E.] cyminum femine longiore C. B. famiculum orientale cuminum dictum Town. Cummin; the feeds. This is an umbelliferous plant, in appearance refembling fennel, but much fmaller: the feeds are brought from Sicily and Malta. Cummin feeds have a bitterifh warm tafte, accompanied with an aromatic flavour, not of the most agreeable kind. They are accounted good carminatives, but not very often made use of.

CYNOGLOSSUM [E.] majus vulgare C. B. Hounds tongue; the root. The leaves of this plant are in shape thought to resemble a tongue, whence its name; they are clothed with a whitish down: it grows wild in shady lanes. The roots have a rank disagreeable smell, and rough bitterish taste, covered with a glutinous sweetishness. The virtues of this root are

very doubtful: it is generally supposed to be narcotic, and by some to be virulently so: others declare, that it has no virtue of this kind, and look upon it as a mere glutinous astringent. The present practice take no notice of it in any intention.

CYNOSBATOS; [L. E.] rofa fylvestris vulgaris store odorato incar-nato, C. B. The wild briar, dog rose, or hip tree; its fruit, and the little fpongy balls found fometimes on the stalks. This bush grows wild in hedges throughout England. The flowers have a pleafant imell; but fo weak, that Parkinson, and others, have named the plant rosa Sluestris inodora: a water distilled from them finells agreeably. The fruit or hips contain a fourishfweetish pulp; with a rough prickly matter inclosing the feeds, from which the pulp ought to be carefully separated before it is taken internally: the Wirtemberg college observes, that from a neglect of this caution, the pulp of hips fometimes occasions a pruritus, and uneasiness about the anus; and I have known the conferve of it to excite a violent vomiting.

CYPERUS LONGUS; [E.] cyperus odoratus radice longa, five cyperus officinarum C. B. Long cyperus; the root. This is a plant of the graminifolious kind; it is fometimes found wild, in marshy places in England; the roots have been generally brought to us from Italy. This root is long, flender, crooked, and full of knots: outwardly of a dark brown, or blackish colour, inwardly whitish; of an aromatic fmell, and an agreeable warm taffe; both the taffe and fmell are improved by moderate exficcation. Cyperus is accounted a good stomachic and carminative,

but at present very little regarded.

DAUCUS CRETICUS; [L.E.] Daucus foliis faeniculi tenuisfimis C. B. Candy carrot, or carrot of Crete; the feeds. This is an unbelliferous plant growing wild in the Levant, and the warmer parts of Europe. The feeds, which are generally brought from Crete, have a warm biting taste, and a not disagreeable aromatic smell. They are carminative, and said to be diuretic, but at present little otherwise used than as ingredients in the mithridate and theriaca.

DAUCUS SYLVESTRIS; [E.] passinaca sylvestris tenuisolia Dioscoridis, vel daucus oficinarum C. B. Wild carrot; the seed. This is common in passure grounds and fallow fields throughout England. The seeds possess the virtues of those of the daucus Creticus, in an inferior degree; and have often supplied their place in the shops; and been themselves supplied by the feeds of the garden carrot: these last are, in warmth and slavour, the weakest of the three; the seeds of the Candy carrot are much the strongest.

DENS LEONIS; [E.] dens leonis latiore folio, et angustiore folio C. B. Dandelion; the root and herb. This plant is common in fields, and uncultivated places: it has several narrow, dentated leaves lying on the ground, with a slender naked stalk sustaining a yellow shower. The root, leaves, and stalk, contain a bitter milky juice: they promise to be of use as aperient and detergent medicines; and have sometimes been directed in this intention with good success. Boerhaave esteems them capable, if duly continued, of resolving almost all kinds of coagulations, and open-

ing very obstinate obstructions of the viscera.

DIAPENSIA, vide SANICULA.

DICTAMNUS ALBUS, vide

DICTAMNUS CRETICUS [L. E.] Dittany of Crete. This is a kind of origanum, faid to grow plentifully in the island of Candy, in Dalmatia, and in the Morea: it has been found hardy enough to bear the ordinary winters of our own climate. The leaves, which are the only part in use with us, come from Italy. The best fort are well covered over with a thick white down, and now and then intermixt with purplish flowers. In fmell and tafte, they fomewhat refemble lemon thyme, but have more of an aromatic flavour, as well as a greater degree of pungency: when fresh, they yield a confiderable quantity of an excellent essential oil.

DIGITALIS; [E.] digitalis pur-purea folio aspero, C. B. Foxglove; the leaves. This grows wild in woods, and on uncultivated heaths: the elegant appearance of its purple flowers, (which hang in spikes along one side of the stalk) has gained it a place in some of our gardens. The leaves have been strongly recommended externally, against scrophulous tumours; and likewife internally, in epileptic diforders: what fervice they may be capable of doing in these cases we have no experience. Several examples are mentioned by medical writers of their occasioning violent vomiting, hypercatharfes, and difordering the whole constitution; infomuch that Boerhaave accounts them poisonous. Their talle is bitter and very naufeous.

DORO-

DORONICUM ROMANUM: [E.] doronicum radice scorpii C. B. Roman wolfs bane: the root. This grows fpontaneously on the Alps, and in fundry places of Germany. It has been greatly disputed whether this plant is to be ranked among the polonous or falutary ones : we shall not here enter into this controverfy; observing only, that all the intentions it has been recommended for, may certainly be answered by other medicines of no less efficacy, and known to be innocent; and that therefore the use of doronicum may be very reasonably laid afide: in this we are warranted by common practice, which has not for a long time paid any regard to it.

DRACONTIUM; [E.] dracunculus polyphyllus G. B. arum polyphyllum Rivini. Dragons, or the many-leaved arum; the leaves. This is cultivated in gardens. It has fearce any other medical difference from the common arum, than being in all its parts fomewhat more pungent and acrimonious.

DRAKENA, vide Contra-

DULCAMARA, vide Sola-NUM LIGNOSUM.

EBULUS; [E.] fambacus humilis five ebulus C. B. Dwarf elder, or danewort; the root, bark, and leaves. This plant grows wild in fome counties of England; but about London is rarely met with, unless in gardens: the eye distinguishes little difference betwixt it and the alder tree, except in the fize; the alder being a pretty large tree, and the dwarf alder only an herb tree of four feet high. The leaves, roots, and bark of ebulus have a nauseous, sharp, bitter take,

and a kind of acrid ungrateful fmell: they are all firong cathartics, and as fuch are recommended in dropfies, and other cases, where medicines of that kind are indicated. The bark of the root is faid to be firongest; the leaves the weakest. But they are all too churlish medicines for general use: they sometimes evacuate violently upwards, almost always nauseate the stomach, and occasion great uneafiness of the bowels. By boiling, they become (like the other draftics) milder, and more fafe in operation: Fernelius relates, that by long coction they entirely lose their purgative virtue. The berries of this plant are likewife purgative, but less virulent than the other parts. A rob pre-pared from them may be given to the quantity of an ounce as a cathartic; and in smaller ones as an aperient, and deobstruent in chronic diforders: in this last intention, it is faid to be frequently used in Swifferland, in the dose of

ELATINE ; [L. E.] linaria fegetum nummulariæ folio non willofo Tourn. Fluellin, or female speedwell; the leaves. This is a low creeping plant, growing wild in corn fields. The leaves have a very bitter, roughish taste. They were formerly accounted excellent vulneraries, and of great ufe for cleanfing and healing old ulcers, and fpreading cancerous fores: fome have recommended them internally in leprous and fcrophulous diforders; as also in hydropic cases. It gives name to one of the officinal honeys; but the plant itself is never used in the present practice, and this preparation of it is in no great efteem.

ELEMI [L. E.] a refin brought from the Spanish West Indies, and fomeiı

in long roundish cakes, generally wrapt up in flag leaves. The best bark : that a tincture of it in alcafort is fortish, somewhat transparent, of a pale whitish yellow colour, inclining a little to greenish. of a firong, not unpleafant fmell. It almost totally dissolves in pure fpirit, and fends over fome part of its fragrance along with this menfroum in distillation : distilled with water, it yields a confiderable quantity of a pale coloured, thin, fragrant effential oil. This refin gives name to one of the officinal unguents, and is at prefent fearce any otherways made use of; though it is certainly preferable for internal purpofes, to iome others which are held in greater esteem.

ELEOSELINUM, vide APIUM.

ELEUTHERIÆ CORTEX[L.] cafcarilla; a bark imported into Europe from one of the Bahama islands called Elatheria, in curled pieces, or rolled up into fhort quills, about an inch in width, pretty much refembling in appearance the Peruvianus cortex, but of a paler brown colour on the infide, less compact, and more friable. Its taste is bitterer, yet less difagreeable, and lefs rough than that of the Peruvian bark; with a confiderably greater share of aromatic pungency and heat: the thin outward fkin, which is of a whitish colour, has no tafte. It is eafily inflammable, and yields whilft burning a very fragrant fmell: this peculiar property distinguishes the eleutheria from all other known barks.

Stifferus was the first that employed the cortex eleutheriæ as a medicine, in Europe; he relates (in his Ast. laborat. clym. published in the year 1693) that he received

fometimes from the East Indies, and that some time after, it was fold at Brunswick for Peruvian lized vinous fpirits, or dulcified alcaline ones, proved carminative and diuretic, and did confiderable fervice in arthritic, scorbutic and calculous cases; and that if taken immediately after meals, it affected the head a little. Eleutheria was foon after employed by Apinus in an epidemic fever which raged in fome in parts of Norway in 1694 and 1695; this difease, which at first had the appearance of an ordinary intermittent, at length was accompanied with petechial fpots. The common alexipharmacs and fudorifics were found ineffectual: but the powder or extract of this bark, joined with them, proved successful, even after petechiæ had come forth: dyfenteries, fucceeding the fever, were removed by the fame medicine. During the use of the eluetheria, the parient generally fweated plentifully, without loss of flrength, or other inconvenience: the belly was likewise kept open; those who did not sweat, had three or four flools a day : where the menfirual or hæmorrhoidal fluxes were fuppressed at the beginning of the diforder, they generally, upon the use of this medicine, reappeared. Among the Germans, the eleutheria is at prefent in very great escem, and frequently exhibited against common intermittents, in preference to the Peruvian bark. as being less subject to some inconveniencies which the latter, on account of its greater aftringency, is apt to occasion: it is also given, with good fuccels, in flatulent colics, internal hæmorrhagies, dyfenteries, the diarrhow of acute fevers, and other like diforders. The gentlemen of the French acathis aromatic bark from England; demy found this bark of excellent fervice

fervice in an epidemic dyfentery with the latter an effential oil arifes. in the year 1719; in which ipecacoanha proved ineffectual: Mr. Bouldue observed, that this last left a lowness, and weakness of flomach, which continued for a long time, whilft eleutheria foon raifed the strength, and promoted appetite. From the experience which we have ourselves had of this bark, we are apt to think, that it deserves to be more regarded than it is at prefent.

ENDIVIA; [E.] intybus fativa latifolia C. B. Endive; the roots, leaves, and feeds. Endive is raifed in gardens for culinary use. It is a gentle cooler and aperient, nearly of the fame quality with the cichoreum. The feeds are ranked among the four leffer cold feeds.

ENULA CAMPANA; [L. E.] after omnium maximus Tourn Elecampane; the root. This is a very large downy plant, fometimes found wild in moift rich foils. The root, especially when dry, has an agreeable aromatic finell; its taffe, on first chewing, is glutinous, and as it were fomewhat rancid; in a little time it discovers an aromatic bitterness, which by degrees becomes confiderably acrid and pungent. Elecampane root possesses the general virtues of alexipharmacs: it is principally recommended for promoting expectoration in humoural afthmas and coughs : liberally taken, it is faid to excite urine, and loofen the belly. In fome parts of Germany, large quantities of this root are candied, and used as a stomachic, for strenthening the tone of the viscera in general, and for attenuating tenacious juices. Spirituous liquors extract its virtues in greater perfection than watery ones: the former scarce ERVUM, vide OROBUS. elevate any thing in distillation?

which concretes into white flakes : this possesses at first the slavour of the elecampane, but is very apt to lose it in keeping. An extract made with water (a preparation now kept in the shops) possesses the bitterness and pungency of the root, but in a lefs degree than one made with fpirit.

EQUISETUM, vide CAUDA EQUINA.

ERIGERUM ; [E.] senecio minor vulgaris C. B. Groundfel; the leaves. This is a common weed, which notwithstanding its being annual, is met with at all times of the year. The juice, or an infufion of it in ale, is generally faid to be a mild and fafe emetic; but unless taken in very large quantity, it has no effect this way. The fresh herb, beat into a very coarse pulp, and applied externally, cold, to the pit of the flomach, is faid by fome to occasion strong vomiting: but we, with Haller, think that this notion is founded on an erroncous experiment.

ERUCA; [E.] eruca latifolia alba, fativa Diofcoridis, C. B. Rocket; the feeds. This was formerly much cultivated in gardens for medicinal use, and for falads; but is at prefent less common. In appearance, it refembles mustard, but is easily diffinguishable by the fmoothness of its leaves, and its difagreeable fmell. The feeds have a pungent tafle, of the mustard kind, but weaker: they have long been celebrated as aphrodifiacs, and undoubtedly have in fome cafes a title to this virtue, in common with other acrid plants.

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ERYNGIUM; [L. E.] eryngium maritimum C. B. Eryngo or fea holly; the root. This plant grows plentifully on fome of our fandy and gravelly shores: the roots are slender, and very long; of a pleafant sweetish taste, which on chewing them for some time, is followed by a light degree of aromatic warmth and acrimony. They are accounted aperient and diuretic, and have also been celebrated as aphrodishac; their virtues however are too weak to admit them under the head of medicines.

ERYSIMUM; [E] eryfimum vulgare C. B. Hedge mustard; the leaves. This is a low hairy plant, common in waste places, and by way fides. The leaves are faid to promote expectoration, excite urine, and the other fluid fecretions, attenuate and dissolve viscid juices. &c. This they are supposed to perform by an acrimonious slimulating quality; but the tafte discovers in them only an herbaceous fofmels, entirely void of acrimony: the feeds indeed are confiderably pungent, and the roots in fome fmall degree.

ESULA MAJOR et MINOR, vide TITHYMALUS.

EUPATORIUM CANNABI-NUM; [E.] Hemp agrimony, water agrimony, or water hemp; the leaves. This is found wild by the fides of rivers and ditches. It has an acrid fmell, and a very bitter taste, with a confiderable share of pungency. The leaves are greatly recommended for strengthening the tone of the viscera, and as an aperient; and said to have excellent effects in the the dropsy, jaundice, cachexies, and so robutic disorders. Boerhaave informs us, that this is the constant medicine of the turf-

diggers in Holland, against scurvies, foul ulcers, and swellings in the feet, which they are subject to. The root of this plant is faid to operate as a strong cathartic.

EUPATORIUM MESUES, vide AGERATUM.

EUPATORIUM GRÆCO-RUM, vide AGRIMONIA.

EUPHORBIUM; [E.] a gummy refin exuding from a large oriental shrub. It is brought to us immediately from Barbary; in drops of an irregular form; fome of which, upon being broken, are found to contain little thorns, fmall twigs, flowers, and other vegetable matters; others are hollow, without any thing in their cavity : the tears in general are of a pale yellow colour externally, fomewhat white within-fide; they eafily break betwixt the fingers. Lightly applied to the tongue, they affect it with a very fharp biting tafte; and upon being held for fome time in the mouth, prove vehemently acrimonious, inflaming and exulcerating the fauces, &c. Euphorbium is extremely troublesome to pulverize; the finer part of the powder, which flies off, affecting the head in a vio-lent manner. The acrimony is fo great as to render it absolutely unht for any internal use: several correctors have been contrived to abate its virulence; but the best of them are not to be truited to; and as there feems to be no real occafion for it, unless for fome external purpofes, we think, with Hoffman and others, that it ought to be expunged from the catalogue of internal medicines.

EUPHRASIA; [E.] euphrafia officinarum C. B. Eyebright; the leaves. This is a very low plant, growing

growing wild in moift fields. It to a florid red; the alvine, urinahas for fome time been celebrated as an ophthalmic, both taken internally, and applied externally. Hildanus fays, he has known old men of feventy, who had loft their fight, recover it again by the use of this herb: later practitioners, however, have not been so happy as to obferve any fuch good effects from it. At prefent it is totally and juflly difregarded.

FABA; [E.] faba flore candido lituris nigris conspicuo Tourn. Garden beans; the flowers and feed. Beans are of greater use for culinary than medicinal purpofes: they are a ftrong flatulent food, sufficiently nutritious, but not easy of digestion; especially when growing old. A water diffilled from the flowers has been celebrated as a coimetic, and still retains its character among some female artists.

FARFARA, vide Tussilago.

FERRUMet CHALYBS ; [L.E.] iron and steel. Steel is accounted less proper for medicinal use than the fofter iron, as being more difficultly acted upon by the animal juices and the common menstrua: iron diffolves readily in all acids, and rufts freely in the air, especially if occasionally moistened with water; fleel requires a longer time for its folution, and does not ruft fo eafily. The general virtues of these metals, and the several preparations of them, are, to constringe the fibres, to quicken the circulation, to promote the deficient fecretions in the remoter parts, and at the same time repress inordinate discharges into the intestinal tube. After the exhibition of them, if they take effect, the pulse is very fenfibly raifed; the colour of the face, though before pale, changes

ry, and cuticular excretions, are increased. Nidorous eruclations. and the fæces voided of a black colour, are marks of their taking due effect.

An aperient virtue is ufually attributed to some of the preparations of iron, and an aftringent to others: but in reality, they all produce the effects both of aperients and aftringents, and feem to differ only in degree. Those distinguished by the name of aftringent fometimes occasion a very copious discharge of urine, or a diarrhoa; whilst those called aperient frequently flop thefe evacuations.

Where either a præternatural difcharge, or suppression of natural fecretions, proceed from a languor and fluggishness of the fluids, and weakness of the folids; this metal, by increasing the motion of the former, and the ffrength of the latter, will suppress the flux, or remove the suppression; but where the circulation is already too quick the folids too tenfe and rigid, where there is any firicture or spasmodic contraction of the veffels; iron, and all the preparations of it, will aggravate equally both diffempers.

Though the different preparations of iron act all in the fame manner, yet they are not equally proper in all conflitutions. Where acidities abound in the first passages, the crude filings, reduced into a fine powder, prove more ferviceable than the most elaborate preparation of them. On the other hand, where there is no acid in the primæ viæ, the metal requires to be previously opened by faline menflrua: hence a folution of iron in acid liquors has in many cases excellent effects, where (as Boerhaave observes) the more indigestible preparations, as the calces made by fire, have fearce any effect at all

If alcalescent juices are lodged in the flomach, this metal, though exhibited in a liquid form, proves at least useless; for here the acid folvent is absorbed by the alcaline matters which it meets with in the body, fo as to leave the iron reduced to an inactive calx. Chalybeate medicines are likewise supposed to differ, independent of differences in the constitution, according to the nature of the acid united with the metal: vegetable acids fuperadd a detergency and aperient virtue; combined with the vitriolic, it acts in the first passages powerfully as an aperient; whilft the nitrous renders it extremely flyptic; and the marine, still more

FICUS [L. E.] communis C. B. The common figtree; its fruit, called carica or figs. Figs, both fresh, and dryed, are sufficiently nutritious, grateful to the flomach, and easier of digestion than most of the other fweet fruits. They have also an emollient or lubricating virtue, on account of which they are frequently employed in pectoral decoctions, in preference to the purer fweets.

FILIPENDULA; [E.] filipendula vulgaris, an Molon Plinii C. B. Dropwort; the root. This plant grows wild in fields and chalky grounds: the root confifts of a number of tubercles, failened together by flender strings; their tafte is rough and bitterish, with a flight degree of pungency. These qualities point out its use in a flaccid flate of the vessels; and a sluggiffness of the juices; the natural evacuations are in fome measure refirained or promoted by it, where the excess or deficiency proceed from this cause. Hence some have recommended it as an aftringent of the fweet are longer, narrower,

in dyfenteries, immoderate uterine fluors, &c. others as a diuretic; and others as an aperient and deobstruent in scrophulous habits.

FILIX MAS; [E.] filix non ramofa, dentata, C. B. Common male fern.

FILIX FEMINA; [E.] filix ramosa major pinnuli, obiusis non dentatis C. B. Female fern, or brakes.

FILIX FLORIDA: [E.] filix ramosa non dentata, florida C. B. Ofmund royal, or the flowering

The roots of these plants (which are the only part directed for medicinal use) have, when first chewed, fomewhat of a sweetish glutinous tafte, which foon becomes bitterish, subastringent, and nauseous. They are said to be aperient and anthelmintic : Simon Paulli tells us, that they have been the grand fecret of fome empirics against the broad kind of worms called tania; and that the dose is one, two, or three drams of the powder. The third fort is supposed to be the weakest, and the second the strongest; this therefore has been generally made choice of; practice has, however, at length expunged them

FŒNICULUM DULCE[L.E.] Sweet fennel; the feeds.

FENICULUM VULGARE [E.] Common fennel; the feeds, roots, and leaves.

The fweet fennel is fmaller in all its parts than the common, except the feeds, which are confiderably larger. The feeds of the two forts differ likewise in shape and colour; those of the common are roundish. oblong, flattish on one fide, and protuberant on the other, of a dark almost blackish colour; those

not fo flat, generally crooked, and of a whitish or pale yellowish colour. Both forts are cultivated in our gardens: the common is a perennial plant: the fweet perifhes after it has given feed; nor do its feeds come to fuch perfection in this climate as those which we receive from Germany.

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The feeds of both the fennels have an aromatic fmell, and a moderately warm, pungent tafte: those of the faniculum dulce are in flavour most agreeable, and have also a confiderable degree of sweetishness: hence our college have directed the use of these only. They are ranked among the four greater hot feeds; and not undefervedly looked upon as good stomachics and carminatives. The root is confiderably less warm, but has more of a sweetish taste, than the feeds: it is one of the five roots called openers; and has fometimes been directed in aperient apozems: Boerhaave obferves, that this root exactly agrees in tafte, fmell, and medical qualities, with the celebrated ginfeng of the Chinese; and therefore thinks it may very justly supply its place. The leaves of fennel are weaker

than either the roots or feeds, and

for any medicinal use.

FENUM GRÆCUM [L. E.] fanum gracum sativum C. B. Fanugreek; the feeds. This plant is cultivated chiefly in the fouthern parts of France, Germany, and in Italy; from whence the feeds are brought to us. They are of a yellow colour, a rhomboidal figure; a difagreeable frong fmell, and a mucilaginous taffe. Their principal use is in cataplasms, somentations, and the like, and in emol-Lient glyfters. They enter the oleum e mucilaginibus of the shops; to

which they communicate a confiderable stare of their smell,

FOLIUM INDUM, vide Ma-LABATHRUM.

FORMICÆ [E.] Ants; their bodies and eggs. These infects are at present of no use with us in medicine, though formerly much celebrated for aphrodifiac virtues, and still employed in the aque magnanimitatis and other like compositions of foreign dispensatories. It is remarkable, that these animals contain a truly acid juice, which they shed in small drops upon being irritated: by infuling a quantity of live and vigorous ants in water, an acid liquor is obtained nearly as strong as good vinegar. Neuman observes, that on distilling them either with water or pure spirit, a clear limpid oil arises, which has scarce any taste, or at least is not hot or pungent like the essential oils of vegetables.

FRAGARIA [E.] fragaria ferens fraga rubra J. B. The strawberry bush; its leaves and fruit. The leaves are somewhat styptic, and bitterish; and hence may be of fome fervice in debility and laxihave very rarely been employed ty of the vifcera; and immoderate fecretions, or a suppression of the natural evacuations, depending thereon: they are recommended in hæmorrhagies and fluxes; and likewife as aperients in suppressions of urine, obstructions of the viscera, in the jaundice, &c. The fruit is in general very grateful both to the palate and stomach: like other fruits of the dulco-acid kind, they abate heat, quench thirst, loosen the belly, and promote urine; but do not afford much nourishment. Geoffroy observes, that the urine of those who cat liberally of this fruit, seriosed it was produced from the in pale coloured maffes, which on

becomes impregnated with its fragrant fmell.

FRANGULA, vide ALNUS

FRAXINELLA [E.] dictamnus vulgo, five fraxinella C. B. White or baftard dittany; the root. This plant grows wild in the mountainous parts of France, Italy, and Gerparts of France, Italy, and Germany; from whence the cortical part of the root, dried and rolled up in quills, is fometimes brought to us. This is of a white colour, a weak, not very agreeable fmell; and a durable bitter, lightly pungent taffe. It is recommended as an alexipharmac; but not regarded by common practice, or often kept by common practice, or often kept in the shops.

FRAXINUS [E.] fraximus excelfor C. B. fraxinus vulgatior J. B.

The ash tree; its bark and seeds.

The bark of this tree is a moderately strong astringent, and as such has fometimes been made use of: the feeds, which are fomewhat a-crid, have been employed as aperients. There are fo many other medicines more agreeable, and more efficacious for these intentions, that all the parts of the ash tree have long been neglected.

FULIGO LIGNI [L. E.] Wood foot. This concrete is of a shining black colour, a difagreeable finell, and an acrid bitter nauseous tafte. Its chief use is in hysteric cases, in which it is sometimes exhibited in conjunction with the fetid gums: it gives name to a tincture of this kind in the shops. Its virtues are extracted both by watery and fpirituous liquors, each of which, if the foot is of a good kind, disfolve about one fixth of it. Soot differs greatly in quality according to the wood it was produced from : the

more refinous the wood, the more the foot abounds with oily matter.

FUMARIA [E.] fumaria officinarum & Dioscoridis C. B. Fumitory; the leaves. This is a common weed in shady cultivated grounds, producing spikes of purplish flowers in May and lune. It is very juicy, of a bitter taste, without any remarkable smell. The medical effects of this herbare, to strengthen the tone of the bowels, gently loofen the belly, and promote the urinary and other natural fecretions. It is principally recommended in melancholic, fcorbutic, and cutaneous diforders; for opening ob-flructions of the viscera, attenuating, and promoting the evacuation of viscid juices. Frederic Hoffman had a very great opinion of it as a purifier of the blood; and affures us, that in this intention scarce any plant exceeds it. Both watery and spirituous menstrua extract its vir-

GALANGA MINOR [E.] Galangal; a root, brought from China. This root comes to us in pieces scarce an inch long, and not half so thick, full of joints, with feveral circular rings on the outfide; of an aromatic smell, and a bitterish, hot, biting taste. Galangal is a warm, flomachic bitter: it has been frequently prescribed in bitter infusions, but the flavour it gives is difagreeable; nor are the spirituous tincture or extract less nauseous.

GALBANUM [L. E] the concrete juice of an African plant of the ferulaceous kind. This juice as brought to us, is femipellucid, foft, tenacious; of a strong and to fome unpleasant finell; and a bitterish warm taste: the better fort is in pale coloured masses, which, on being opened, appear composed of much taken notice of, by the preclear white tears. Geoffroy relates fent practice. tained from this simple by distillation, which, upon repeated rectifi-cations, becomes of an elegant fky blue colour. The purer forts of galbanum are faid by fome to dif-folve entirely in wine, vinegar or water; but these liquors are only partial menstrua with regard to this juice; nor do spirit of wine, or oil, prove more effectual in this refoect: the best dissolvent is a mixture of two parts spirit of wine, and one of water. Galbanum agrees in virtue with gum ammoniacum; but is generally accounted less efficacious in asthmas, and more

GALEGA [E.] galega vulgaris floribus caruleis C. B. Goats rue; the herb. This is celebrated as an alexipharmac; but its fenfible qualities discover no foundation for any virtues of this kind: the tafte is merely leguminous; and in Italy be frequently used as food.

fo in hysterical complaints.

GALLÆ; [L. E.] galls. Thefe are excrescences found, in the warmer countries, upon the oak other forts, and have feveral tuberaftringents, and as fuch have been fometimes made use of both inter-

GALLIUM; [E.] gallium luteum C. B. Ladies bedftraw, or cheese rennet; the herb. This has a flight fubfaline tafte, with a very faint, not difagreeable fmell: the juice changes blue vegetable infufions of a reddiff colour, and coagulates milk, and thus discovers fome marks of acidity. It stands recommended as a mild flyptic; but has never been much in use.

GAMBOGIA; [L. E.] Gamboge; a folid concrete juice, brought from the East Indies, in large cakes or rolls. The best fort is of a deep yellow or orange colour, breaks fhining and free from drofs: it has no fmell, and very little tafte, unless kept in the mouth for some time, when it impresses a slight fense of acrimony. It immediately communicates to spirit of wine a bright golden colour, and almost entirely diffolves in it, Geoffroy (where it grows wild) it is faid to fays, except the fixth part: alcaline falts enable water to act upon this fubstance powerfully as a menftruum: the folution made by their means is fomewhat transparent, of a deep blood colour, and passes tree: they are produced by a kind the filtre: the dulcified spirit of fal of infect (which wounds the young ammoniac readily and entirely difbuds or branches) and afterwards folves it, and takes up a confideferve as a lodgment for its eggs: rable quantity; and what is pretty the animal within the gall, eats its remarkable, this folution mixes eiway through; those which have no ther with water or spirit, without hole are found to have the infect growing turbid. Gamboge eva-remaining in them. The best galls cuates powerfully both upwards and come from Aleppo: thefe are not downwards: Hoffman and forme" quite round and smooth, like the others condemn it as afting with too great violence, and occasioning cles on the furface. Galls have a dangerous hypercatharfes; whilit others are of a contrary opinion, any finell: they are very firong Geoffroy feems particularly fond of this medicine, and informs us, that he has frequently given it, from nally and externally, but are not two to four grains, without its proving

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four to eight grains, it both vomits fufficiently grateful. It is the caand purges, without violence; that pital ingredient in the bitter wine. its operation is foon over; and that tincture, and infusion of the shops. if exhibited in a liquid form, and apt to prove emetic, but very rarely has this effect if joined along with mercurius dulcis. He nevertheless cautions against its use where the patient cannot eafily bear vomiting.

GENISTA [E.] cytifo-genista scoparia vulgaris flore luteo Tourn. Broom; the leaves, flowers, and feeds. The leaves of this shrub have a naufeous bitter tafte: they are faid to purge both by stool and urine, and hencestand recommended in hydropic cases. The flowers are also faid to prove cathartic in decoction, and emetic in fubliance, though in some places, as Lobel informs us, they are commonly used, and in large quantity, in falads, without producing any effect of this kind. The qualities of the feeds are little better determined : fome report, that they purge almost as ftrongly as hellebore, in the dofe of a dram and half; whilft the author above-mentioned relates that he has given a decoction of two ounces of them as a gentle emetic.

GENTIANA; [L. E.] gentiana major lutea C. B. Gentian; the root. This plant is found wild in some parts of England: but the dried roots are most commonly brought from Germany, &c. they should be chosen fresh, and of a yellow or bright gold colour within. This root is a strong bitter, and as fuch, very frequently made use of in practice: in tafte it is less exceptionable than most of the other substances of this class: infusions of

proving at all emetic; that from it, flavoured with orange peel, are

A poisonous root has been lately fufficiently diluted, it stands not in discovered among some of the Genneed of any corrector; that in the tian brought to London; the use form of a bolus or pill, it is most of which occasioned violent diforders, and fometimes death. This is eafily diffinguishable by its being internally of a white colour, and void of bitterness. This poisonous fimple feems to be the root of the Thora Valdensis of Ray, the aconitum primum pardalianches of Gefner; a plant which Lobel informs us the inhabitants of fome parts of the Alps used formerly to empoison darts with.

> GERANIUM BATRACHOI-DES; [E.] Crowfoot cranesbill; the leaves:

> GERANIUM ROBERTIA-NUM; [E.] Herb Robert; the

These plants are found wild, the first in hedges, the second in moist meadows. The leaves have an herbaceous austere taste, and have hence been recommended as aftringents.

GITH, vide NIGBLEA.

GLASTUM; [E.] ifatis fativa vel latifolia C. B. Woad; the leaves. This plant is cultivated for the use of the dyers; but is never employed for any medicinal purposes. The virtues attributed to it are those of an astringent.

GLADIOLUS LUTEUS [L.] iris palufiris lutea, five acorus adulterinus J. B. Acorus vulgaris pharm. August. et Wirt. Yellow waterflag, baftard acorus, or water flower-de-luce; the roots. This grows common by the brinks of rivers and in other watery places. The root

root has a very acrid tafte, and proves when fresh, a strong cathartic: its expressed juice, given to the quantity of eighty drops every hour or two, and occasionally increased, has occasioned a most plentiful evacuation, after ja-Iap, gamboge, &c. had proved in-effectual. (See the Edinburgh ef-fays, vol. v. art. 8. abridg. vol. i. page 202.) By drying, it lofes great part of its acrimony and purgative virtue. The pulvis ari of our difpenfatory, contains about one fifth of the dry root; the Edinburgh uses in its place the acorus verus or calamus aromaticus.

GLYCYRRHIZA; [L E.] glycyrrbixa siliquosa vel Germanica C.
B. Liquorice; the root. This is produced plentifully in all the countries of Europe: that which is the growth of our own is preferable to fuch as comes from abroad; this last being generally mouldy, which this root is very apt to become un-Jess kept in a dry place. The powder of liquorice ufually fold is often mingled with flower, and I fear too often with fubifiances not quite fo wholesome: the best fort is of a brownish yellow colour (the fine pale yellow being generally fophifticated) and of a very rich fiveet talte, much more agreeable than that of the fresh root. Liquorice is almost the only sweet that quenches thirst; whence it was called by the Greeks adipson: Galen takes notice, that it was employed in this intention in hydropic cases, to prevent the necessity of drinking. Mr. Fuller, in his medicina gymnastica, recommends this root as a very ufeful pectoral, and fays it excel-. Jently foftens acrimonious humours, at the fame time that it proves gently detergent : and this account is warrented by experience.

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GRAMEN CANINUM; (E.) gramen caninum arvense, sive gramen Dioscordis C. B. Quick-grafs ; the roots. Grass roots have a sweet roughish taffe. They are princi-pally recommended in aperient foring drinks, for what is called puryfying and fweetening the blood.

GRANA PARADIST [E.] cardamomum majus semine piperato Geoffroit. Grains of paradife; a fruit; brought from the east Indies. This fruit is about the fize of a fig, divided internally into three cells, in each of which are contained two rows of small feeds like cardamoms. These feeds are somewhat more grateful, and confiderably more pungent, than the common cardamoms, approaching in this respect to pepper, with which they agree alfo in their pharmaceutical properties; their pungency refiding, not in the diffilled oil as that of cardamom feeds does, but in the refin extracted by spirit of wine.

GRANATA MALUS ; [E.] malus punica fativa G. B. Pomegranate tree; the fruit, and its rind [L.] called malicorium. This tree is sometimes met with in our gardens, but the fruit, for which it is chiefly valued, rarely comes to fuch perfection as in the warmer climates. This fruit has the general qualities of the other fweet fummer fruits, allaying heat, quenching thirst, and gently loofening the belly. The rind is a firong airingent, and as fuch is occasionally made use of. dw bare sbasin yo

GRATIOLA; [E.] gratiola centaurloides C. B. Hedge hyslop; the leaves. This is a finall plant, met with, among us, only in gardens. The leaves have a very bitter, difagrecable tafte : an infufion to near a the renn 12 extra of a handful of them when fresh, or a dram when dried, is faid to operate strongly as a cathartic, greatly disordering the constitution. Kramer reports (Tentam. botanic. p. 18.) that he has found the root of this plant a medicine similar in virtue to ipecacoanha.

GUAIACUM; [L. E.] guaiaeum Americanum primum fructu aceris. five legitimum Breyn, prodic. Guaiacum, a tree growing in the warmer parts of the Spanish West Indies; its wood, bark, and refin called gum guaiacum. The wood is very ponderous, of a close compact texture; the outer part is of a yellow colour, the heart of a deep blackish green, or variegated with black, green, pale, and brown colours: the bark is thin, smooth, externally of a dark greyish hue: both have a lightly aromatic, bitterifh, pungent tafte; the bark is most acrid and ungrateful. The refin (which exudes from incitions made in the trunk of the tree) is brought to us in irregular masses, ufually friable, of a dufky greenish, and sometimes of a reddish cast, with pieces of the wood among them: its tafte is more acrid and pungent than that of the wood or bark. Their general virtues are those of a warm, stimulating medicine: they strengthen the stomach and other viscera; and remarkably promote the urinary and cuticular difcharge; hence in fcorbutic, cutaneous, and other diforders proceeding from obstructions of the excretory glands, and where fluggish ferous humours abound, they are eminently useful : rheumatic and other pains have often been relieved by them. The refin is the most active of these drugs; and the efficacy of the others depends upon the quantity of this part contained in them: the refin is extracted from

the wood in part by watery liquors, but much more perfectly by spirituous ones; the latter elevate nothing in distillation; with the former a ponderous essential oil arises, possessing the odour and slavour of the gualacum; hence the watery extract of this wood, kept in the shops, proves not only less in quantity, but considerably weaker than one made with spirit. This last extract is of the same quality with the native resin, and differs from that brought to us only in being purer.

GUMMI AMMONIACUM,

GUMMI ARABICUM . [L. E.] gum Arabic; a concrete gum, exuding from the Egyptian acacia tree. This is brought to us from Turkey, in fmall irregular maffes or firings, of a pale yellowish co-lour. The true gum arabic is rarely to be met with in the fliops; gum fenega or fenica, which comes from the coasts of Guinea, being usually fold for it: this greatly refembles the other, and perhaps, as Dale conjectures, exudes from 2 tree of the same kind: it is generally in large pieces, rough on the outside; and in these circumstances possibly confists the only difference betwixt the two; although the former is held to be the purer and finer gum, and therefore preferred for medicine; and the latter, the frongeft, most substantial, and cheapest, and confequently more employed for mechanic uses. The virtues of this gum are the same with those of gummy and mucilaginous fubstances in general: it is given, from a scruple to two drams, in hoarse-, nelles, a thin acrimonious feite of the juices, and where the natural mucus of the intestines is abraded.

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GUMMI CERASORUM [E.] Cherry-tree gum. There is not any medical difference betwixt this and the preceding. Some have inpposed that all the gum brought to us from the East, under the name of Arabic, is no other than the gum of cherry, plum, and other trees common among ourselves. This opinion is nevertheless erroneous; for these trees, as Geoffroy observes, do not grow in the countries from whence gum Arabic is brought; whilft the acaciae are very common there.

GUMMI ELEMI, vide ELEMI. GUMMI TRAGACANTHÆ [L. E.] The gum of the tragacanth, a thorny buth growing in Crete, Afia, and Greece. This gum is of a much stronger body than either of the foregoing, and does not so perfectly dissolve in water. A dram will give a pint of water the consistence of a syrup, which a whole ounce of gum Arabic is scarce sufficient to do. Hence its use for forming troches, and the like purposes, in preference to the other gums.

GUTTA GAMBA, vide G A M-

HÆMATITES lapis [L. E.] Bloodftone. This is an elegant iron ore, extremely hard, of a dark reddish or yellowish colour: it is found either along with other ores of iron, or in diffinct mines by itself. With regard to its medical virtues, we conceive they do not vary from those experienced from rust, and the common croci of iron, notwithstanding the extraordinary opinion which many, even of the late practitioners, have entertained of it; as of its curing ulcers of the lungs, which Geoffroy save the hematites dries and heads.

HALICACABUM, vide ALKE-

HEDERA ARBOREA (E.) bedera communis major Raii. Ivy the leaves, berries, and refin called oum hederæ. This is a climbing fhrubby plant, growing commonly from the truncs of trees, or on old walls. The leaves have very rarely been exhibited internally, notwithstanding they are recommended (in the Ephem. natur. curiof. vol. ii. obf. 120.) against the atrophy of children: their taste is nauseous, acrid, and bitter. Externally they have fometimes been employed for drying and healing ichorous fores, and likewise for keeping issues open. The berries were supposed by the ancients to have a purgative and emetic quality: later writers have recommended them in small doses, as diaphoretics and alexipharmacs; and Mr Boyle tells us, that in the London plague the powder of them was given with vinegar, with good fucces, as a fudorific: we apprehend that the virtue of the composition was rather owing to the vinegar than to the powder. The refin was ranked by the ancients (if their δάκρουν τε κισοῦ, was the same with our gummi hederæ) among the depilatories; from this class, which it certainly had no title to, it has fince been removed to that of conglutinaters of wounds, to which it has no very just one.

HEDERA TERRESTRIS [L. E.] bedera terrestris vulgaris, C. B. Ground-ivy; the leaves. Groundivy is a low plant, frequent in hedges and shady places. It has an aromatic, though not very agreeable smell; and a quick, bitterish, warm taste. This herb is an useful corroborant, aperient, and detergent; and hence stands

recommended against laxity, debility, and obstructions of the viscera: fome have had a great opinion of it for cleansing and healing ulcers of the internal parts, even of the lungs; and for purifying the blood. It is customary to insuse the dried leaves in malt liquors (under the name of gill-ale) which it readily communicates its virtue to, and likewise helps to fine them down: scarce any other herb has this effect more remarkable than ground-ivy.

HELENIUM, vide ENULA

HELLEBORUS ALBUSIL, E.I belleborus albus flore subviridi, C. B. White hellebore , the root. This plant grows fpontaneously in Swifferland, and the mountainous parts of Germany. The root has a nau-feous, bitterish, acrid taste, burning the mouth and fauces: wounded when fresh, it emits an extremely acrimonious juice, which mix-ed with the blood, even by a flight wound, is faid to prove mortal: the powder of the dry root, applied to an iffue, occasions violent purging : fnuffed up the nose, it proves a strong, but not always a fafe sternutatory. This root, taken internally, acts with extreme violence as an emetic, and has been observed, even in a small dofe, to occasion convulsions, and other terrible diforders. The ancients fometimes employed it in very obstinate cases, but always made this their last refort. Modern practice feems to have almost entirely rejected its internal use, tho' I am informed that some have lately ventured upon so large a dose as a fcruple, in maniacal cafes, and found good effects from it after the fironger antimonial preparations had been given in vain.

FIELLEBORUS NIGER [L. E.]

Black hellebore; the roots. This grows wild in the mountainous parts of Swifferland, Austria, and Stiria: the earliness of its flowers, which fometimes appear in the latter end of December, has gained it a place in our gardens.

In fome parts of Germany, a species of black hellebore has been made use of, which not unfrequently produced violent, and fometimes deleterious effects: this the Wirtemberg college particularly caution against, though without mentioning any marks by which it may be diftinguished, or even giving the precise name of the plant. It appears to be the fetid black hellebore of C. B. called in England, where it grows wild, fetterwort. fettlewort, or baftard hellebore: the roots of this may be distinguished from the officinal fort by their being less black. The roots of the poisonous aconites resemble in appearance those of the black hellebore; and in the Breslaw collections we find some instances of fatal effects occasioned by mislaking the former for the latter: these alfo are happily discoverable by their colour; the aconitum being lighter coloured than even the paleft of the black hellebores. The faculty of Paris, by allowing the use of one of the paler hellebores (the greenflowered, which grows wild in England, and is called by our farriers, peg-root) have in some meafure deprived the shops of the benefit of this criterion: but our college have directed the darkest coloured of all the roots of this class. Since therefore the two noxious roots which the buyer is most apt to mistake for this, are distinguishable from it by their colour, but have no other external mark by which they may be with certainty known; particular regard ought to be had to this circumstance;

only the deepest black being chofen, and all the paler roots rejectthis light is frequently employed, in small doses for attenuation

The tafte of hellebore is acrid and bitter. Its acrimony, as Dr. Grew observes, is first felt on the tip of the tongue, and then spreads immediately to the middle, without being much perceived on the intermediate part: on chewing it for a few minutes, the tongue feems benumbed, and affected with a kind of paralytic flupor, as when burnt by eating any thing too hot: the fibres are more acrimonious than the head of the root which they iffue from. Black hellebore is a powerful and vehement cathartic; and as fuch has been celebrated for the cure of maniacal, and other diforders, proceeding from what the ancients called atra bilis: but it is now feldom made use of in these intentions; practitioners having introduced, in its place, some other substances, no less efficacious, though perhaps more fafe. It does not however appear, that our black hellebore acts with fo much violence as that of the ancients: whence many have supposed it to be a different plant : and indeed the descriptions which the ancients have left us of their hellebore, do not agree to any of the forts usually taken notice of by modern botanists. Another species has been discovered in the eastern countries, which Tournefort diflinguishes by the name of helleborus niger orientalis, amplissimo folio; caule praalto, flore purpurascente, and supposes to be the true ancient hellebore, from its growing in plenty about mount Olympus, and in the island Anticyra, celebrated of old for the production of this antimaniacal drug: he relates, that a feruple of this fort, given for a dose, occasioned convulsions. Our hellebore is at prefent looked upon

this light is frequently employed; in small doses, for attenuating vifcid humours, promoting the uterine and urinary discharges, and opening inveterate obstructions of the remoter glands: it often proves a very powerful emmenagogue in plethoric habits, where feel is ineffectual or improper. An extract made from this root with water, is one of the mildeft, and for the purposes of a cathartic the most effectual preparation of it; this operates fufficiently, without occasioning the irritation which the pure refin is accompanied with. A tincture drawn with proof spirit, contains the whole virtue of the hellebore. and feems to be one of the best preparations of it when defigned for an alterative : this tincture, and the extract, are kept in the shops.

HELXINE, vide PARTETA-

HEPATICA NOBILIS [E.] ranuncalus tridentatus vernus, flore fimplici carules Tourn. Noble liver-wort; the leaves. This has a place in our gardens on account of the beauty and early appearance of its flowers. It is a cooling, gently refiringent herb; and hence recommended in a lax state of the fibres as a corroborant.

HEPATICA TERRESTRIS,

HERBA PARIS [E.] folanum quadrifolium bacciferum C. B. Herb Paris, truelove, or one berry; the leaves and fruit. This is a low plant growing wild in shady woods. It is said, but on no good grounds, to be alexipharmac. Gesner relates, that its juice has killed poultry; and its smell and taste manifestly agree with those of the more virulent narcotic herbs.

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HERMODACTYLUS [E.] Hermodactil; a root brought from Turkey. It is of the shape of a heart flatted, of a white colour, compact, yet easy to cut or powder; of a viscous sweetish taste, with a light degree of acrimony. Hermodactils were of great repute among the ancients as a cathartic; but those we now meet with in the shops have very little purgative virtue : Neuman declares he never found them have any effect at all.

HERNIARIA [E.] polygonum minus five millegrana major glabra C. B. Rupture wort; the leaves. This is a low herb, growing wild in fandy and gravelly grounds. It is a very mild restringent, and may, in some degree, be serviceable in disorders proceeding from a weak flaceid flate of the vifcera; the virtue which it has been most celebrated for, it has little title to, that of curing hernias.

HIPPOGLOSSUM [E.] ruscus angustifolius, fruciu folio innascente Tourn. Double tongue; the leaves. This is met with only in gardens, where plants are cultivated for curiofity. It has rarely been taken notice of by medicinal writers.

HIPPOSELINUM [E.] hippo-Selinum Theophrasti, wel Smyrnium Diofcoridis C. B. Alexanders; the leaves, roots, and feeds. This is an umbelliferous plant, differing from the others of that class, in bearing a large tumid black feed: it grows by the fea fide, upon rocks. In medical qualities it agrees with apium (fmallage) except that the bippofelinum is somewhat ftronger ogmadqivela ad for

HIRUNDINARIA, vide VINdelly agreewath thof musicorage

HORDEUM[E] HORDEUM DISTICHUM [L.] hordeum dif-tichon, quod spica binas ordines habeat Plinio C. B. Common bar-

HORDEUM GALLICUM five MUNDATUM. French barley; or the common barley freed from the fhell.

HORDEUM PERLATUM dictum [L] Pearl barley; prepared in Germany and Holland, by grinding the shelled barley into little round granules, which appear of a kind of pearly whiteness.

Barley, in its feveral flates, is more cooling, less glutinous, and less nutritious than wheat or oats: among the ancients, decoctions of it were the principal aliment, and medicine, in acute diseases.

HORMINUM SATIVUM [E.] Garden clary; the leaves and feeds. These have a warm, bitterish pungent taffe; and a ffrong, not very agreeable finell; the touch discovers in the leaves a large quantity of glutinous or refinous matter: They are principally recommended in the fluor albus, and other female weaknesses, in hysteric diforders, and in flatulent colics.

HYDRARGYRUS, vide Ar-GENTUM VIVUM and of vitable arrol

HYOSCYAMUS ALBUS [E.] byoscyamus albus major vel tertius. Dioscoridis, et quartus Plinii C. B. White henbane; the feeds: this is met with only in botanic gardens.

HYOSCYAMUS NIGER [E.1 hyofeyamus vulgaris vel niger C. B. The common wild, or black henbane; the leaves.

These plants stand recommended for fundry external purpofes, and by fome likewife internally against dyfenteries and hæmorrhagies : but angulation at prefent looked upon

there are fo many examples of their pernicious effects, that common practice has very defervedly rejected them. They are firong and virulent narcotics, greatly diforder the fenses, occasioning deliria and madnefs, either deadly, or of long duration. Haller tells us of one physic garden, the napelli, apocyna, bella donna, without injury, but was maffered by this; that after its common effects as a narcotic had abated, a paralyfis of one of the legs remained; and that Boerhaave had his fenses disordered by only making a plaister from this plant. There are other examples also, tho' from less unexceptionable authorities, of henbane proving narcotic, though none of it was received into the body.

HYPERICUM [L. E.] byperieum vulgare, G. B., St. John's wort; the feaves, flowers, and feeds. This grows wild in woods and uncultivated places throughout England. Its talle is rough and bitterifh; the fmell difagreeable. Hypericum has long been celebrated as a corroborant, diuretic, and vulnerary; but more particularly in hysterical and maniacal diforders: it has been reckoned of fuch efficacy in these last, as to have thence received the name of fuga. damonum. It is observable, that the flowery tops tinge expressed oils of a red colour (which very few vegetable substances will do) and communicate a blood red to rec-tified fpirit. The oil tinged by them is kept in the shops.

HYPOCISTIS [L. E.] hypociftis fub cifto, C. B. A fleshy production, growing in the warmer climates from the roots of different kinds of cifti; its inspissated juice. This juice is an aftringent,

fimilar to acacia, but fomewhat ftronger. At present it is scarce otherwise made use of, than as an ingredient in fome of the old compositions.

HYSSOPUS [L. E.] by flopus officinarum, carulea five spicata, C B. who eat of all the poisons of the Hystop; the leaves. These have an aromatic fmell, and a warm pungent tafte. Besides the general virtues of aromatics, they are particularly recommended in humoral afthmas, coughs, and other diforders of the breaft and lungs; and faid to notably promote expectoration.

> JACOBÆA [E.] jacobæa vul-garis laciniata, C. B. Ragwort, or feggrum ; the leaves. This raggedleaved plant grows wild by road fides, and uncultivated places. Its taste is roughish, bitter, pungent, and extremely unpleafant : it stands strongly recommended by Simon Paulli against dysenteries: but its forbidding taile has prevented its coming into practice.

JALAPIUM; [L. E.] Jalep; the root of an American convolvulus, brought to us in thin tranfverse slices, from Xalapa, a province of New Spain. Such pieces should be chosen as are most compact, hard, weighty, dark coloured, and abound most with black circular striæ. Slices of bryony root are faid to be fometimes mixed with those of jalap: these may be eafily distinguished by their whiter colour, and less compact texture. This root has no finell, and very little taffe upon the tongue; but, when fwallowed, affects the throat with a fense of heat, and occasions a plentiful discharge of faliva.

Jalap, in substance, taken in a dose of about half a dram (less or more, according to the circum-

flances of the patient) in plethoric, or cold phlegmatic habits, proves an effectual, and in general a fafe purgative, performing its office mildly, feldom occasioning nausea or gripes, which too frequently accompany the other ftrong cathartics. In hypochondriacal diforders, and hot bilious temperaments, it gripes violently, if the jalap was good ; but rarely takes due effect as a purge. An extract made by water purges almost univerfally, but weakly; and at the same time, has a confiderable effect by urine: the root remaining after this procefs, gripes violently. The pure refin prepared by spirit of wine, occasions most violent gripings, and other terrible fymptoms, but fcarce proves at all cathartic: triturated with fugar, or with almonds into the form of an emulfion, or dissolved in spirit, and mixed with fyrups, it purges plentifully in a fmall dole, without occasioning much disorder: the part of the jalap remaining after the separation of the refin, yields to water an ex-tract, which has no effect as a cathartic, but operates powerfully by

Frederic Hoffman particularly cautions against exhibiting this medicine to children, and affures us, that it will destroy appetite, weaken the body, and perhaps occasion even death. In this point, this celebrated practitioner was probably deceived: children, whose vessels are lax, and the food foft and lubricating, bear these kinds of medicines, as Geoffroy observes, better than adults.

JAPONICA TERRA [L. E.] Japan earth, improperly fo called, as being neither an earth, nor the produce of Japan; but an infpiliated vegetable juice, prepared in the East Indies from the fruit, as is

supposed, of the areca palm tree. It is dry and pulverable, outwardly of a reddish colour, inwardly of a fhining dark brown, almost black, with some cast of red. When pure, it distolves totally in water, and almost totally in rectified spirit: as we usually meet with it, a confiderable quantity of fandy matter is left by both these menstrua. This medicine is a mild affringent, and frequently employed as fuch in alvine fluxes, uterine profluvia, in laxity and debility of the viscera in general, and in coughs proceeding from thin acrid defluxions. Its tafte is more agreeable than that of most other substances of this class; chewed for fome time, it leaves a kind of fweetishness in the mouth. The troches and tincture kept in the fhops, are very elegant preparations of it.

JASMINUM [E.] jasminum vulgatius flore albo, C. B. Jasmine; the flowers. This is a small tree, commonly planted in our gardens. The flowers have a ftrong fmell, which is liked by most people, though to fome difagreeable: exprefied oils extract their fragrance by infusion; and water elevates fomewhat of it in distillation, but no effential oil has hitherto been obtained from them: the diffilled water, kept for a little time, lofes its odour. As to their medical virtues, the present practice expects not any from them, notwithstanding they have been recommended for promoting delivery, curing ulcerations of the uterus, &c.

IBERIS; [E.] lepidium gramineo folio five iberis Tourn. Sciatica creffes; the herb. This is met with only in botanic gardens: in tafte, finell, and medical virtues, it agrees with the nafturtium. It has been particularly recommended

in external applications against the fciatica, whence the English name of the plant.

ICHTHYOCOLLA [E.] Fiftglue, or ifing-glass; a folid glutinous fubitance, obtained from a large kind of fish, caught in the feas of Moscovy. The skin, and some other parts of the animal are boiled in water, the decoction inspissated to a proper confistence, and then poured out fo as to form thin cakes ; these are either farther exficcated till perfectly dry, or cut whilft foft into flices, which are afterwards bent, or rolled up into fpiral, horfeshoe, and other shapes. This glue is more employed for mechanic purposes than in medicine. It may be given in a thin acrimonious state of the juices, after the fame manner as the vegetable gums and mucilages; regard being had to their different disposition to putrescence. See page 57.

IMPERATORIA [E.] imperatoria major C. B. Masterwort; the root. This is a native of the Alps and Pyrenean mountains, and some -parts of Germany, from whence - sve are supplied with roots superior in gromatic flavour to those raised in our gardens. The fmell of this proot is very fragrant; its tafte, bitzerish, warm, and pungent, glowcing in the mouth for a long time after it has been chewed. This fimple, though undoubtedly an elegant aromatic, is not regarded in the prefent practice. Its flavour is fimilar to that of angelica, but stronger.

root brought from the Spanish West Indies. It is divided into two forts, Peruvian and Brazilian: but the eye distinguishes three, ash co- to Europe about the middle of last loured or grey, brown, and white. century, and an account of it pub-The afh coloured, or Peruvian ipe- lished about the same time by Piso;

cacoanha of the shops, is a small wrinkled root, bent and contorted into a great variety of figures, brought over in short pieces, full of wrinkles, and deep circular fif-fures, quite down to a fmall white woody fibre that runs in the middle of each piece; the cortical part is compact, brittle, looks fmooth and refinous upon breaking: it has very little finell; the tafte is bitterish and subacrid, covering the tongue, as it were, with a kind of mucilage. The brown is fmall, and fomewhat more wrinkled than the foregoing, of a brown or blackish colour without, and white within; this is brought from Brazil. The white fort is woody, has no wrinkles, and no perceptible bitterness in taste. The first fort (the ash coloured, or grey ipecacoanha) is that usually preferred for medicinal use. The brown has been fometimes observed, even in a fmall dofe, to produce violent effects. The white, though taken. in a large one, has fcarce any effect at all: Mr. Geoffroy calls this fort baltard ipecacoanha, and complains that it is an imposition upon the public. To what species of plant the ipecacoanha belongs, has not as yet been determined. Geoffroy, Neuman, Dale, and Sir Hans Sloane, inform us, that the roots of a kind of apocynum (dogs bane) are too frequently brought over instead of it: and instances are given of ill consequences following from the use of these roots: if the marks above laid down, particularly the ash colour, brittleness, deep wrinkles, and bitterish taffe, IPECACOANHA; [L. E.] a be carefully attended to, all miftakes of this kind may be prevent-

Ipecacoanha was first brought in-

but it did not come into general use till about the year 1686, when Helvetius, under the patronage of Lewis XIV, introduced it into practice. This root is one of the mildest and safest emetics we are acquainted with; and has this peculiar advantage, that if it should not operate by vomit, it passes off by the other emunctories. It was first introduced among us with the character of an almost infallible remedy in dysenteries, and other inveterate fluxes; as also in disorders proceeding from obstructions of long standing; nor has it lost much of its reputation by time. In dyfenteries, it almost always produces happy essects, and often performs a cure in a very short space of time. In other sluxes of the belly, in beginning dysenteries, and such as are of a malignant kind, or where the patient breaths a tainted air, it has not been found equally fuccessful : in these cases it is necessary to continue the use of this medicine for feveral days, and to join with it opiates, diaphoretics, and the like. This root, given in substance, is as effectual, if not more fo than any of the preparations of it: the pure refin acts as a strong irritating emetic, but is of little fervice in dyfenteries; whilst an extract prepared with water is almost of equal service in these cases with the root itself, though it has little effect as an emetic. Geoffroy concludes from hence, that the chief virtue of ipecacoanha in dyfenteries depends upon its gummy fubstance, which lining the intestines with a fost mucilage, when their own mucus has been abraded, occasions their exulcerations to heal, and defends them from the acrimony of the juices; and that the refinous part, in which the emetic quality relides, is required tad.

in the glands of the flomach and intestines. But if the virtues of this root were entirely owing to its mucilaginous, or gummy part, pure gums, or mucilages, might be employed to equal advantage. Water, affifted by a boiling heat, takes up from all vegetables a confiderable portion of refinous along with the gummy matter; if the ipecacoanha remaining after the action of water be digested with pure spirit, it will not yield half so much refin as at first: fo that the aqueous extract differs from the crude root only in degree, being proportionably less resinous, and having less effect, both as an emetic, and in the cure of dysenteries. The virtues of ipecacoanha, in this diforder, depend upon its promoting perspiration, the freedom of which is here of the utmost importance. and an increase of which, even in healthful persons, is generally obferved to suppress the evacuation by stool. In dysenteries, the skin is for the most part dry and tense, and perspiration obstructed: the common diaphoretics pass off without effect through the intestinal canal: but ipecacoanha, if the patient, after a puke or two, be covered up warm, brings on a plentiful fweat. After the removal of the dysentery, it is necessary to continue the use of the medicine for fome time longer, in order to prevent a relapse: for this purpose. a few grains, divided into feveral dofes, fo as not to occasion any fensible evacuation, may be exhibited every day; by this means the cure is effectually established. And indeed small doses given, even from the beginning, have been often found to have better effects in the cure of this difease than larger ones. Geoffroy informs us, from his own experience, that he has observed where the morbine matter is lodged ten grains of the powder to act

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twixt fix and ten grains.

IRIS FLORENTINA [L. E.] iris Florentina alba, C. B. Florentine orris; the root.

IRIS PURPUREA NOSTRAS [E.] iris vulgaris Germanica sive Sylvestris, C. B. Flower-de luce ;

Both these are the same species of plant: feveral varieties of it are cultivated in our gardens on account of the elegance of their flowers. The roots, when recent, have a bitter, acrid, nauseous taste, and taken into the body prove strongly cathartic; and hence the juice is recommended in dropfies, in the dose of three or four scruples. By drying they lofe this quality, yet fill retain a fomewhat pungent, bitterish taste: their smell in this flate is of the aromatic kind; those produced in the warmer climates have a very grateful flavour, approaching to that of March violets: hence the use of the Florentine iris in perfumes, and for flavouring liquors: the shops employ it in the white pectoral troches, and as an ingredient in the theriaca.

IVA ARTHRITICA vide, CHA-MÆPITYS.

[UGLANS [E.] The walnuttree; the fruit, and its shell. The kernel of the fruit is fimilar in quality to almonds: the shell is aftringent, and as fuch is made use of by the dyers; but neither are employed in medicine.

dried fruit brought from France.

as effectually as a scruple or two; and in heat of urine: but they are and therefore confines the dofe be- at prefent, among us, a stranger to medicinal practice, and to the shops.

> IUNCUS ODORATUS [L. E.] juncus odoratus fice aromaticus, C. B. Sweet rush, or camels hay. This is a dry fmooth stalk, brought to us along with the leaves, and fometimes the flowers, from Turkey and Arabia, tied up in bundles about a foot long. The flalk, in fhape and colour, fomewhat refembles a barley straw: it is full of a fungous pith, like those of our common rufhes: the leaves are like those of wheat, and furround the stalk with feveral coats, as in the reed: the flowers are of a carnation colour, striped with a lighter purple. The whole plant, when in perfection, has a hot bitterish, not unpleasant, aromatic taste, and a very fragrant fmell; by long keeping, it loses greatly of its aromatic slavour. Distilled with water, it yields a confiderable quantity of effential oil. It was formerly often used as an aromatic, and in obstructions of the vifcera, &c. but at prefent is scarce otherwise employed than as an ingredient in mithridate and theriaca.

JUNIPERUS [L. E.] juniperus vulgaris fruticofa C. B. Juniper: the berries, wood, and the refin (improperly called gum) which ex-udes from it in the warmer climates. This is an ever-green shrub, growing upon heaths and hilly grounds in all the parts of Europe: the wood and refin are not at present made use of for medicinal purposes: the berries are JUJUBA [E.] Jujubes; a half- brought from Holland, where this fhrub is very plentiful. Juniper Jujubes have a pleasant sweet taste. berries have a strong, not disagree-They are recommended in an acriable smell; and a warm, pungent monious state of the juices; in sweet taste, which if they are long coughs from thin sharp defluxions; chewed, or previously well bruised,

is followed by a bitterish one. The this denomination in those of the pungency feems to refide in the apothecary or druggift. bark; the fweet in the juice; the aromatic flavour in oily veficles, foread through the fubitance of the pulp, and diffinguishable even by the eye; and the bitter, in an oil lodged in the feeds: the fresh berries vield, on expression, a rich, fweet, honey-like, aromatic juice; if previously pounded so as to break the feeds, the juice proves tart and bitter. These berries are useful carminatives and flomachies: for these purposes, a spirituous water, and effential oil distilled from them, are kept in the shops. The liquor remaining after the distillation of the oil, passed through a strainer, and gently exhaled to the confiltence of a rob, proves likewife a medicine of great utility, and in many cases is perhaps preserable to the oil, or berry itself: Hoffman is expressly of this opinion, and strongly recommends it in debility of the stomach and intestines, and fays it is particularly of fervice to old people who are subject to these diforders, or labour under a difficulty with regard to the urinary excretion: this rob is of a dark, brownish yellow colour, a balfamic fweet tafte, with a little of the bitter, more or less according as the feeds in the berry have been more or less bruised.

KALI [E.] kali majus cochleato semine C. B. Glasswort; its leaves, and the alkaline falt called cineres elavellati, or potash, which used formerly to be prepared from this plant only, but now from fundry forts of woods, and other vegetable matters indifferently (fee the article CINERES RUSSICI.) Several forts of these falts, differing in degree of purity and firength, are to be met with in the shops of the dryfalter: they are rarely found under

KERMES; [L. E.] a round grain about the bulk of a pea. found (in Spain, Italy, and in the fouthern parts of France) adhering to the branches of the ilex aculeata cocciplandifera C. B. Thefe grains appear, when fresh, full of smallreddish ovula, or animalcules, of which they are the nidus. On expression, they yield a red juice, of a bitterish, somewhat rough and pungent taffe, and a not unpleafant fmell: this is brought to us from the fouth of France. The grains themselves are cured by sprinkling with vinegar before exficcation: this prevents the exclusion of the ova, and kills fuch of the animals as are already hatched; otherwife, they change into a winged infect,

leaving the grain an empty hufk. Kermes, confidered as a medicine, is a grateful, very mild reffringent, and corroborant. In this light it was looked upon by the Greeks: the Arabians added a cordial virtue: European writers also have in general recommended it for exhilarating the spirits, and against palpitations of the heart; but more particularly for promoting birth, and preventing abortion. I have known, fays Geoffroy, many women, who had never reached the end of pregnancy, made joyful mothers by the use of pills composed of kermes, germin. ovor. exficcat. and confectio de hyachintho (a composition, containing some vegetable aftringents and aromatics. together with gold and filver leaf. four precious stones, and other ingredients of less value :) three of these pills must be taken for the first dose, and this repeated three times, at the interval of twice three hours; after which three pills more are to be taken every morning on

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the three last days of the moon in every month till delivery. Notwithstanding this affertion, we conceive our readers will with us believe, that neither the kermes, nor its auxiliaries, are to be much depended on.

LABDANUM; [L. E.] a refinous fubftance exuding upon the leaves of the eistus ladanifera Crerica flore purpureo Tourn. This refin is faid to have been formerly collected from the beards of goats, who brouzed the leaves of the ciftus: at prefent a kind of rake, with feveral flraps or thongs of fkins fixed to it, is drawn lightly over the fhrub, fo as to take up the unctuous juice, which is afterwards fcraped off with knives. It is rarely met with pure, even in the places which produce it; the dust blown upon the plant by the wind, mingling with the tenacious juice: the inhabitants are also faid to mix with it a certain black fand. In the shops two forts are met with: the best (which is very rare) is in dark coloured, almost black masses, of the confidence of a fost plaister, which grows still fofter upon being handled; of a very agreeable fmell, and of a light pungent bitterish taste: the other fort is harder, not fo dark coloured, in long rolls coiled up: this is of a much weaker fmell than the first, and has a large admixture of a fine fand, which in the labdanum examined by the French academy, made up three fourths of the mass. Rectified spirit of wine almost entirely dissolves pure labdanum, leaving only a fmall portion of gummy matter, which has no tafte or fmell : and hence this refin may be thus excellently purified for

internal purpofes. It is an ufeful ingredient in the flomachic and cephalic plaffers of the shops.

LAC [E.] Milk appears to be a vegetable juice, with little or nothing of an animal nature. The quality and uses of this soft nutritious liquor are in general well known: we shall therefore, in this place, only give an account of some experiments, pointing out the alterations it undergoes from different admixtures, and the difference in quality of the milk of different animals.

New milk mixes uniformly with common water, the mineral chalybeat waters, wines, and malt liquors that are not acid, weak vinous spirits, folutions of sugar, soaps, and neutral falts; but not with oils expressed or distilled. Acids both mineral and vegetable coagulate it ; as also do fixt and volatile alcalies, and highly rectified spirit of wine : the curd made by acids is refolved again by alcaline liquors; as that made by alcalies likewife is by acids. Neutral falts, nitre in particular, preferve it from coagulating fpontaneously; and likewise render it less easily coagulable by

The human milk is the fweetest of these liquors, and that of assessment to it: this last is the most dilute of them all: on suffering it to coagulate spontaneously, the curd scarce amounted to two drams from twelve ounces, whilst that of cows milk was sive times as much: the coagulum of assessments, even when made by acids, forms only into fine light slakes which swim in the ferum; that of goats milk concretes into more compact masses which sink.

Upon

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Upon evaporating twelve ounces of	There remained of dry matter drams	From which water extracted a fweet faline fubfrance, amounting, when exficcated, to	
Cows milk Goats milk Human milk Affes milk	13 12 ½ 8 8	1½ 1½ 10 50 100 100 100 100 100 100 100 100 1	

The faline substance obtained from assessmilk was white, and sweet as sugar; those of the others, brown or yellow, and considerably less sweet; that of cows milk, the least sweet of all. It appears therefore, that assessmilk contains more ferum, and much more of a faccharine faline matter, than those of cows and goats; and that the two latter abound most with unctuous gross matter: hence these are found to be most nutritious, whilst the first proves most effectual as an aperient and detergent.

The inipifiated refiduum of milk, digested with about as much water as was wasted in the evaporation, yields an elegant kind of whey, more agreeable in taste, and which keeps better, than that made in the common manner. This liquor promotes the natural secretions in general, and if its use is duly continued, does good service in scorbutic, and other disorders, proceeding from thick phlegm and obstructions of the viscera.

There are confiderable differences in the milk of the same animal, according to its different aliment. Dioscorides relates, that the milk of goats, who fed on the scammony plant and spurges, proved cathartic: and examples are given in the Acta Haffniensia of bitter milk from the animal having eat wormwood. It is a common observation, that cathartics and spirituous liquors given to a nurse affect the child: and that the milk of animals feeding on

green herbs, is much more dilute than when they are fed with dry ones. Hoffman carries this point fo far as to direct the ass (the animal, whose milk he in all cases prefers) to be dieted according to the disease which its milk is to be drank for.

LACCA [E.] Lac, improperly called gum lac; a fort of wax of a red colour, collected in the East Indies, by certain infects, and deposited on sticks fastened for this purpose in the earth. It is brought over, either adhering to the flicks, or in fmall transparent grains, or in semitransparent flat cakes: the first is called stick lac, the second feed lac, and the third shell lac. On breaking a piece of flick lac, it appears composed of regular cells like the honey-comb, with fmall corpufcles of a deep red colour lodged in them: these are the young infects, and to these the lac owes its tincture, for when freed from them its colour is very dilute. The shell and feed lacs, which do not exhibit any infects or cellular appearance upon breaking, are fupposed to be artificial preparations of the other: the feed fort is faid to be the flick lac bruifed and robbed of its more foluble parts; and the shell to be the feed lac, melted and formed into cakes. The flick lac therefore is the genuine fort, and ought alone to be employed for medicinal purposes. This concrete is of great esteem in Gerlaxity and sponginess of the gums, proceeding from cold, or a fcorbutic habit : for this use the lac is boiled in water, with the addition of a little alum; which promotes its folution; or a tincture made from it with rectified spirit. This tincture is recommended also internally in the fluor albus, and in rheumatic and fcorbutic diforders: it has a grateful fmell, and a not unpleasant, bitterish, aftringent taste. The principal use of lac among us is in certain mechanic arts as a colouring drug, and for making fealing wax.

LACTUCA; [E.] lustuca sativa C. B. Garden lettuce: the leaves and feeds. The feveral forts of garden lettuces are very wholesome, emollient, cooling falad herbs, eafy of digestion, and somewhat loofening the belly. Most writers suppose that they have a narcotic quality; and indeed in many cases they contribute to procure reft; this they effect by abating heat, and relaxing the fibres. The feeds are in the number of the four leffer cold feeds.

There are two wild forts of lettuce, not unfrequently met with under hedges, &c. These differ greatly in quality from the foregoing; as may be judged from their firong foporofic smell. One of them is called by Morison, lactuca sylvestris opii odore vehementi soporifero et wirofo. The upper leaves of this are jagged about the edges, the lower ones not. All the leaves of the other wild fort are very deeply jagged: hence this is by the same author diffinguished by the name lactuca fylvestris laciniata.

many, and other countries for nettle; the leaves and flowers. This grows wild in hedges, and flowers in April and May. The flowers have been particularly celebrated in uterine fluors, and other female weaknesses; as also in diforders of the lungs.

> LAPATHUM, Dock : the roots. We have ten or eleven docks growing wild in England, the roots of most of which are brought to market promifcuoufly; tho' two have been generally directed by physicians in preference to the others : thefe

OXYLAPATHUM, [E.] lapathum folio acute plano C. B. The dock with long, narrow, fharppointed leaves, not curled up about the edges.

HYDROLAPATHUM; [E.] lapathum aquaticum folio cubitali C. B. The great water dock.

The roots of these plants gently loofen the belly, and have fometimes been useful ingredients in decoctions for removing a costive habit. They are also celebrated for the cure of fcorbutic and cutaneous diforders, both exhibited internally, and applied externally in ointments, cataplasms, and fomentations. Muntingius published a treatife on these plants in the year 1681, in which he endeavours to prove, that our great water dock is the berba Britannica of the ancients: and indeed the description which Dioscorides gives of the latter does not ill agree to the former. This author therefore attributes to the bydrolapathum all the virtues afcribed of old to the Britannica, particularly recommending it in the fourvy, and all its fymtoms. Where this diforder is of very long standing, fo as not to yield to the LAMIUM ALBUM [L.E.] la- bydrolapathum alone, he directs a mium album non factens, folio oblongo composition, by the use of which, G. B. White archangel, or dead he fays, even the venereal laes,

will, in a fhort time, be effectually cured. Six ounces of the roots of the water dock, with two of faffron; and of mace, cinnamon, gentian root, liquorice root, and black pepper, each three ounces, (or, where the pepper is improper, fix ounces of liquorice) are to be reduced into coarse powder, and put into a mixture of two gallons of wine, with half a gallon of ftrong vinegar, and the yolks of three eggs; and the whole digested, with a moderate warmth, for three days, in a glazed veffel, close ftopt: from three to fix ounces of this liquor are to be taken every morning on an empty flomach, for fourteen or twenty days, or longer.

LAPATHUM UNCTUOSUM, vide Bonus Henricus.

LAPIS BEZOAR, CALAMINARIS, HÆMATITES, LAZULI; vide Bezoar, Calaminaris, &c.

LAPPA MAJOR, vide BAR-DANA MAJOR.

LAVENDULA [L. E.] lavendula angustifolia C. B. Common, or narrow-leaved lavender, or spike; the flowers.

LAVENDULA [E.] lavendula latifolia C. B. Greater, or broad leaved lavender; the leaves and flowers. These plants have a fragrant fmell, to most people agreeable; and a warm, pungent, bitterish taste: the broad leaved fort is the strongest in both respects, and yields in distillation thrice as much effential oil as the other; its oil is also hotter, and specifically heavier: hence, in the fouthern parts of France, where both kinds grow wild, this only is made use of for the diffillation of what is called oil of spike. The narrow-leaved is

the fort commonly met with in our gardens, and therefore alone directed by the college.

Lavender is a warm stimulating arotnatic. It is principally recommended in vertigo's, palsies, tremors, suppression of the menstrual evacuations; and in general in all disorders of the head, nerves, and uterus, proceeding from a weakness of the folids, and lentor or sluggishness of the juices. It is sometimes also used externally in somentations for paralytic limbs. The distilled oil is particularly celebrated for destroying the pediculi inquinales, and other cutaneous infects; if fost spongy paper, dipt in this oil, either alone, or mixed with that of almonds, be applied at night to the parts insessed by infects, they will certainly, says Geoffroy, be all found dead in the morning.

LAUREOLA [E.] laweela semper wirens, store wiridi, quibustam laweela mas C. B. Spurge-laurel; the leaves and berries. This is a small thrub, growing wild in some of our woods. The leaves, berries, and bark, both of the stalks and roots, have an extremely acrid, hot taste, which lasts for a long time, burning and inflaming the mouth and sances. Taken internally, they operate with great violence by stool, and sometimes by vomit; so as scarce to be exhibited with any tolerable degree of safety, unless their virulence be previously abated by boiling.

LAURUS [L. E.] laurus vulgaris C. B. The bay tree; its leaves and berries. These are generally brought from the Streights, though the tree bears the colds of our own climate. They have a moderately strong aromatic smell, and a warm, bitterish, pungent

tafte: the berries are stronger in both respects than the leaves, and afford in distillation a larger quantity of aromatic effential oil: they vield also an almost insipid oil to the prefs, in confequence of which they prove unctuous in the mouth. These simples are warm carminative medicines, and fometimes ex hibited in this intention against slatulent colics; and likewife in hysterical diforders. Their principal use in the present practice is in clysters, and some external applications. The leaves enter our common fomentation: and the berries, the plaster and cataplasm of cummin; they also give name to an electary, which is little otherwife used than in clysters.

LAZULI lapis; [E.] a compact ponderous fossil, of an opake blue colour, met with in the eastern countries, and in some parts of Germany. It owes it colour to copper, and hence, like the common preparations of that metal, proves emetic; with this disadvantage, that the quantity of copper it contains is uncertain.

LENS VULGARIS [E.] lens onligaris femine fubrufo G. B. Lentile; the feed. This is a firong, flatulent food, very hard of digeftion: it is never, at least with us, used for any medicinal purpose.

LENTISCUS [E.] lentificus everus ex infula Chio, cortice et foliis fufcis, Commelin. The lentife, or maffich tree; the wood. This tree or fhrub is a native of the warm climates, but bears the common winters of our own. The wood is brought to us in thick knotty pieces, covered with an afth coloured bark, and white within, of a rough, formewhat pungent taffe, and an agreeable, tho faint finell;

the smaller tough sprigs, are both in taste and smell the strongest. This wood is accounted a mild balfamic restringent: a decoction of it is in the German ephemerides, dignissed with the title of vegetable aurum potabile, and strongly recommended in catarrhs, nausea, and weakness of the stomach; for strengthening the tone of the viscera in general, and promoting the urinary secretion.

This is the tree, which, in the island Chio, assords the resin, called massiche. See the article Massiches.

LEPIDIUM [E.] lepidium latifolium C. B. Common broad dittander, pepperwort, or poor man's pepper; the leaves. This plant is fometimes found wild by the fides of rivers, and in other moift places. The leaves have an aromatic, pungent biting tafte, fomewhat approaching to that of pepper, but going off fooner than that of most other substances of this class. They are very rarely employed in medicine, though firongly recommended as antifcorbutics, and for promoting the urinary and cuticular fecretions; virtues, which they have undoubtedly a good title to.

LEUCOIUM LUTEUM, vide

LEVISTICUM; [E.] angelica montana perennis, paludapii folio, Tourn. Lovage the root and feed. This is a large umbelliferous plant, cultivated with us in gardens. The root nearly agrees in quality with that of angelica: the principal difference is, that the lovage root has a stronger smell, and a somewhat less pungent taste, accompanied with a more durable sweetness: the feeds are rather warmer, and more agreeable than the root. These

fimples, though certainly capable of being applied to useful purposes, are not at present regarded. The root, wounded early in the spring, bleeds an unctuous odorous juice, which slowly exsiccated, proves an elegant aromatic gummy refin.

LICHEN; [E.] lichen petræus cauliculo pileolum fustinente C. B. Liverwort; the herb. This grows wild in moist shady places, and by the sides of rivers. It has a faint, not disagreeable smell; and an herbaceous, roughish, and somewhat bitterish taste. Great virtues have been attributed to this simple, in obstructions of the liver, jaundice, &c. which practitioners do

not now expect from it.

LICHEN CINEREUS TER-RESTRIS; [L. E.] lichen terrestris cinereus Raii. Ash coloured ground liverwort. This confists of pretty thick digitated leaves, flat above, of a reticular texture underneath, and fastened to the earth by small fibres: the leaves when in perfection are of an ash colour; by age they become darker coloured or reddish. It is met with on commons and open heaths, where it quickly spreads on the ground. Dr. Mead informs us, that this plant grows in all countries, and has been brought over from America along with the Peruvian bark : that it is found at all times, but ought to be gathered from autumn to winter, as being then in its freshest vigour.

This fimple is faid to be a warm diuretic; to the tafte it is not a little naufeous. It is chiefly celebrated for its virtue in the cure of the diforders, occasioned by the bite of a mad dog. An account of the remarkable effects in these cases of a powder composed of the dried leaves and pepper, was communicated to the Royal Society by

Mr. Dampier, and published in the Philosophical transactions, No. 237. This powder was afterwards inferted (in the year 1721) into the London Pharmacopecia, under the title of pulvis antilyflus, at the defire of an eminent physician, who had great experience of its good effects. Some years after, the fame gentleman published and difperfed a paper containing the method of cure, which he had in a great number of inflances conflantly found fuccefsful. In this paper, the directions were to the follows ing effect: " Let the patient be blooded nine or ten ounces; and afterwards take a dram and a " half of the powder every morning fasting, for four mornings successively, in half a pint of " cows milk warm. After thefe " four dofes are taken, the pa-" tient must go into the cold bath, " or a cold fpring, or river, every " morning falling for a month; " he must be dipt all over, but " not flay in (with his head above " water) longer than half a mi-" nute, if the water be very cold : " after this, he must go in three " times a week for a fortnight " longer." In the year 1745, the world was favoured with a new edition of the mechanical account of poisons, in which we find the same method of cure again recommended, as having, in a course of thirty years experience, never failed of fuccess, where it had been followed before the hydrophobia begun. It is greatly to be wished, that the efficacy of this medicine in preventing thefe terrible diforders, was absolutely certain, and proved by incontestable facts. Inflances have been produced of its proving unsuccessful; and the many examples of the fatality of the difease which continually occur, feem arguments either of the inefficacy

inefficacy of the medicine, or a cut, appear of a yellow-colour like ceived.

LIGNUM ALOES, vide A-GALLOCHUM.

LIGNUM RHODIUM [L. E.] et ASPALATHUS [E.] Rofewood, a wood or root, brought from the Canary Islands; and afpalathus, a fimple of confiderable esteem among the ancients, but which has not come to the knowledge of later times.

materia medica, are much divided about the lignum rhodium, not only with regard to the plant which affords it, but likewife in their accounts of the drug itself, and have described, under this name, fimples manifeftly different. This confusion seems to have arifen from an opinion, that the rhodium and afpalathus are the fame; whence different woods brought into Europe for the unknown afpalathus, were fold again by the name of rhodium.

As to aspalathus, the ancients themselves disagree; Dioscorides requiring by this appellation the wood of a certain shrub freed from the bark, and Galen the bark of a root. At prefent, we have nothing under this name in the thops. What was heretofore fold among us as afpalathus, were pieces of a pale coloured wood brought from the East Indies; and more commonly called calambac.

The lignum rhodium of the fliops is usually in long crooked pieces, full of knots, which when

flrange negligence in applying it. box, with a reddiff eaft : the largest, We shall only farther observe, that smoothest, most compact, and deep-Boerhaave, who is in general fuffi- eft coloured pieces should be chosen: ciently liberal in the commendation and the finall, thin, or pale ones, of remedies, ranks this among those rejected. The taste of this wood infignificant trifles, which whoever is lightly bitterifh, and fomewhat depends upon will find himself de- pungent; its smell very fragrant, refembling that of rofes : long kept, it feems to lofe its fmell; but on cutting, or rubbing one piece against another, it finells as well as at first. Distilled with water, it yields an odoriferous essential oil, in very fmall quantity. Rhodium is at present in esteem only upon account of its oil, which is employed as an high and agreeable perfume, in scenting pomatums, and the like. But if we may reason from analogy, this odorife-The writers on botany, and the rous simple might be advantageoufly applied to nobler purposes: a tincture of it in rectified spirit of wine, which contains in a fmall volume the virtue of a confiderable deal of the wood, bids fair to prove a ferviceable cordial, not inferior perhaps to any thing of this kind.

> LIGNUM TINCTILI CAM-PECHENSE; [L. E.] lignum Brasilio simile, caruleo tingens J. B. Campeachy or logwood; a wood brought from Campeachy in the bay of Honduras. This is usually met with in large logs, very compact and hard, of a red colour, and an aftringent fweet tafte. It has been for a long time used by the dyers; but not till very lately as a medicine: a decoction of it, and the extract, are in use in our hospitals, and faid to have proved very ferviceable in diarrheas.

> LILIUM ALBUM; [E.] lilium album fore everto & vulgare C. B. White lily; the roots and flowers, This is cultivated in gardens, more

for the beauty of its flowers than medicinal use.

[E.] lilium convallium album C. B. the roots and flowers. This grows wild in woods and shady places, flowering in May.

The flowers of these plants are faid to be cephalic and nervine. They have a pleafant fweet fmell, which they impart by infusion to expressed oils, and give over in diffillation both to water and fpirit; but no essential oil has been hitherto obtained from them. Ettmuller fays, that the distilled spirit is more fragrant than the water. The roots of the garden lily abound with a foft mucilage, and hence they have been used externally in emollient and maturating cataplasms. Those of the wild lily are very bitter: dried, they are faid to prove a gentle errhine; as also are the flowers.

LIMONES; [L. E.] Lemons; the fruit of the malus limonia acida C. B. Their juice, yellow rind, and its effential oil called effence of lemons. The juice of lemons, is fimilar in quality to that of the aurantia mala; (oranges) from which it differs only in being more acid. The yellow peel is an elegant aromatic bitter, and as fuch is frequently employed in stomachic tinetures and infusions: it is considerably hotter than orange peel, and yields in diffillation with water a larger quantity of effential oil: its flavour is nevertheless more perishable, yet does not arife fo readily with spirit of wine; for a spirituous extract made from lemon peel poffesses the aromatic taste and smell of the fubject in much greater perfection than an extract prepared in the fame manner from the peels of oranges. whole mebers a ship we and I

LINARIA; [E.] linaria vulgaris lutea flore majore C. B. Toad LILIUM CONVALLIUM; flax; the leaves. This grows wild upon banks and about the fides of Lily of the valley, or May lily; fields. It is faid by fome to be a powerful diuretic; whence it is named by Tragus berba urinalis: by others, to be a ftrong cathartic, infomuch that Brunfefilus has called it by a German name expressing this quality, scheiskraut. Experience fearcely warrants either of these appellations; nor does common practice take any notice of the plant.

> LINGUA CERVINA; [E.] lingua cervina officinarum G. B. Harts-tongue; the leaves. This plant confifts of a number of long narrow leaves, without any stalk : it grows upon rocks and old walls, and remains green all the year. The leaves have a roughish, somewhat glutinous tafte, like that of maidenhair, but more difagreeable. They are recommended in obstructions of the viscera, and for strengthening their tone; and have fometimes been made use of for these intentions, either alone, or in conjunction with maidenhair, or the other plants called capillary.

LINUM CATHARTICUM: [E.] linum pratense stosculis exiguis C. B. Purging-flux, or mill-moun-tain; the leaves. This is a very fmall plant, not above four or five inches high, found wild upon chalky hills, and in dry pasture grounds. Its virtue is expressed in its title : an infusion in water or whey of a handful of the fresh leaves, or a dram of them in substance when dried, are faid to purge without inconvenience.

LINUM VULGARE; [L. E.] linum fatigum C. B. Common flax; the feed. Linfeed yields to the preis

press a considerable quantity of oil; litharge of gold. See the article and boiled in water, a strong muci- PLUMBUM. lage: thefe are occasionally made use of for the same purpose as other substances of that class; and fometimes the feeds themselves in emollient and maturating cataplaims. They have also been employed in Afia, and, in times of fearcity, in Europe, as food; but are not agreeable, or in general wholesome: Tragus relates that those who fed on these seeds, in Zealand, had the hypochondres much distended, and the face and other parts swelled, in a very short time; and that not a few died of thefe complaints.

LIQUIDAMBRA; [E.] Liquidambar; a refinons juice which flows from a large tree growing in New Spain, Virginia, and other provinces of South America. This juice is at first about the confistence of turpentine, but by long keeping hardens in a refin: it is of a vellow colour inclining to red, a warm talle, and a fragrant smell not unlike that of storax heightened with a little ambergris. It was formerly of greatuse as a persume, but is at present a stranger to the shops.

LITHARGYRUS; [L. E.] Litharge; a preparation of lead, ufually in form of foft flakes, of a yellowish reddish colour. If calcined lead be urged with a hafty fire, it melts into the appearance of oil, and on cooling concretes into litharge. Greatest part of the litharge met with in the shops, is produced in the purification of filver from lead, and the refining of gold and filver by means of this metal: according to the degree of fire and other circumstances, it proves of a mended as a restorative in consumppale or deep colour; the first is tions: for this purpose, they are

LITHOSPERMUM; [E.] 1:thospermum majus erectum C. B. Gromwell; the feed. This is found wild in dry fields and hedges. Its feeds are roundish, hard, of a whitish colour, like little pearls; and from these circumstances have been fupposed peculiarly serviceable in calculous diforders. Their tafte is merely farinaceous.

LOTUS URBANA; [E.] lotus hortensis odora C. B. Sweet trefoil; the leaves and feeds. The flowers of this plant are stronger in fmell than the other parts : thefe have been recommended for diaphoretic, alexipharmac, anodyne, and other virtues; but their effects have not been found confiderable enough to continue them in prac-

LUJULA; [L. E.] oxys alba Gerard, Wood forrel; the leaves. This is a fmall plant, growing wild in woods. In taste and medical qualities, it is fimilar to the common forrel (see the article acetofa) but confiderably more grateful, and hence is preferred by the college. Boiled with milk, it forms an agreeable whey; and beat with fugar, a very elegant conferve, which has been for fome time kept in the fhops, and is now received in the dispensatory.

LUMBRICI et LIMACES TER-RESTRES; [E.] Earth-worms and fnails. Both thefe are supposed to cool and cleanse the viscera. The latter, from their abounding with a viscid glutinous juice, are recomcalled litharge of filver, the other directed to be boiled in milk; and

thus managed, they may possibly be of some service. They give over nothing in distillation either with water or spirit; and hence the distilled waters of them, though formerly in great esteem, are not sound to have any of the virtues which the animals themselves are supposed to posses.

LUPINUS; [E.] lupinus vulga-ris, femine & flore albo, fativus J. B. White lupines; the feeds. These have a leguminous taste, accompanied with a difagreeable bitter one. They are faid to be anthelmintic, both internally taken, and applied externally. Hoffman cautions against their internal use, and tells us (from one of the Arabian writers) that they have fometimes occasioned death. Simon Paulli alfo fays, that he faw a boy of eight or ten years of age, after taking a dram of these feeds in powder, feized with exquisite pains of the abdomen, a difficulty of respiration, and almost total loss of voice; and that he was relieved from these complaints by a glyster of milk and fugar, which brought away a valt quantity of worms. We would observe, with Mr. Geoffroy, that either these symptoms were owing to the worms, and not to the medicine; or that these seeds, if they have any noxious quality, lofe it, with their bitterness, in boiling; fince they were commonly used among the Greeks as food, and recommended by Galen as very wholefome.

LUPULUS; [E.] convolvulus perennis, heteroclitus, floribus berbaceis, capfulis foliaceis flrobili inflar Morij. Hops; the loofe leafy heads which grow on the tops of the stalks. These are one of the most agreeable of the strong bitters, though rarely employed for

any medicinal purposes. Their principal confumption is in malt liquors, which they render less glutinous, and dispose to pass off more freely by urine.

MACIS; [L. E.] Mace; one of the coverings of the nutmeg (see the article nux meschata.) This spice, considered as the subject both of medicine and of pharmacy, agrees nearly with the nutmeg. The principal difference is, that mace is somewhat less astringent, yields to the press a more fluid oil, and in distillation a more volatile one: what is called in the shops expressed oil of mace, is prepared not from this spice, but from the nutmeg.

MAGISTRANTIA, vide IMPE-

MAJORANA; [L. E.] majorana vulgaris C. B. Sweet marjoram; the leaves. Marjoram is railed annually in our gardens for culinary, as well as medicinal uses; the feeds are usually procured from the fouthern parts of France, where the plant grows wild. It is a moderately warm aromatic, yielding its virtues both to aqueous and spirituous liquors by infusion, and to water in distillation. It is principally celebrated in diforders of the head and nerves, and in the humoural afthmas and catarrhs of old people. The powder of the leaves proves an agreeable errhine, and hence enters the sternutatory powder of the shops.

MALABATHRUM; [L. E.] folium cinamomi five canella Malawarica & Javanenfis C. B. Indian leaf. This leaf is of a green colour, firm texture, very smooth on one fide, less so on the other, on which run three remarkable ribs through its whole length. Lemery

and Pomet affirm, that these leaves fcarce ever employed for any mehave no perceptible fmell or tafte : Herman and others, that they have a very great share of both : those met with in our shops have little or no fmell till they are well rubbed. when they emit an agreeable fpicy odour: on chewing, they are found to have a faint tafte, fomewhat of the clove kind. This drug is of no farther use in medicine, than as an ingredient in the mithridate and theriaca; and is, when in its greatest perfection, much inferior to the mace, which our college direct as a fuccedaneum to it.

MALVA; [L. E.] malva fol-vestris folio finuato C. B. Mallow; the leaves, flowers, and seeds. These have a fomewhat mucilaginous fweetish taste. The leaves are ranked the first of the four emollient herbs: they were formerly of fome efteem, in food, for loofening the belly; at present decoctions of them are sometimes employed in dysenteries, heat and sharpness of urine, and in general for obtunding acrimonious humours : their principal use is in emollient glysters, cataplasms, and fomentations.

MALA; [E.] fruEus mali fati-wa Raii. Apples. All the forts of apples have the common quality of cooling and abating thirst: the more acid kinds loofen the belly; the auftere have rather a contrary effect.

MALA SYLVESTRIA; [E.] fructus mali sylvestris acido fructu Tourn. Crab apples or wildings. These are so acid as not to be eatable : their juice called verjuice, has fometimes fupplied the place of vinegar, and has been made an ingredient in cooling and restringent to children and pregnant women: gargarisms. At present they are nevertheless, in some particular con-

dicinal use.

MANDRAGORA; [E.] man-dragora fructu rotundo C. B. Mandrake; the leaves. The qualities of this plant are very doubtful : it has a strong disagreeable smell refembling that of the narcotic herbs. to which class it is usually referred. It has rarely been any otherwise made use of in medicine, than as an ingredient in one of the old officinal unguents.

MANNA; [L. E.] the juice of certain trees of the ash kind (growing in Italy and Sicily) either naturally concreted on the plants, or exficcated and purified by art. There are feveral forts of manna in the shops. The larger pieces, called flake manna, are usually preferred; though the fmaller grains are equally as good, provided they are white, or of a pale yellow colour, very light, of a fweet not unpleafant tafte, and free from any visible impurities. Some people injudicioully prefer the fat honey-like manna to the foregoing: this has either been exposed to a moist air, or damaged by fea or other water. This kind of manna is faid to be fometimes counterfeited by a composition of fugar and honey, mixed with a little scammony: there is also a factitious manna, which is white and dry, faid to be composed of fugar, manna, and fome purgative ingredient, boiled to a proper confiftence; this may be diffinguished by its weight, folidity, untranfparent whiteness, and by its taste, which is different from that of manna.

Manna is a mild, agreeable laxative, and may be given with fafety Stitutions. stitutions, it acts very unkindly, producing flatulencies and distension of the vifcera; these inconveniences may be prevented by the addition of any grateful warm aromatic. Manna operates fo weakly as not to produce the full effect of a cathartic, unless taken in large doses, and hence it is rarely exhibited in this intention by itself. It may be commodiously dissolved in the purging mineral waters, or joined to the cathartic falts, fena, rhubarb, or the like. Geoffroy recommends acuating it with a few grains of emetic tartar; the mixture is to be divided into feveral dofes, each containing one grain of the emetic tartar : by this management, he fays, bilious ferum will be plentifully evacuated, without any naufea, gripes, or other inconvenience. It is remarkable, that the efficacy of this drug is greatly promoted, (if the account of Vallisnieri is to be relied on) by a fubiliance which is itself very flow of operation, cafia. (See the article CASIA.)

MARGARITÆ;[L. E.] Pearls; fmall concretions, of a transparent whiteness, found on the inside of the shell of the cancha margaritifera or mother-of-pearl fifh, as also of certain oysters, mussels, and other shell fishes. The pearls most efleemed are brought from the East and West Indies, and distinguished by the names of oriental and occidental; the oriental, which are valued most, have a more shining filver hue than the occidental; these last are somewhat milky: a fort inferior to both thefe is fometimes met with in our own feas, particularly on the coasts of Scotland. The coarfe, rough pearls, and the very fmall ones which are unfit for other uses, are those generally employed in medicine. They have been greatly celebrated as cor-

dial, alexipharmac, and comforting the nerves: but the only virtue that can be reasonably expected from them is that of absorbing acidities in the primæ viæ, in which intention they enter three of the officinal powders. Their comparative strength, with regard to the other absorbents, may be seen in page c.

MARRUBIUM ; [L. E.] marrubium album vulgare C. B. horehound ; the leaves. These have a very firong, not disagreeable fmell, and a roughish very bitter taste. Besides the virtues which they poffess in common with other ftrong bitters, they are supposed to be peculiarly ferviceable in humoural afthmas and coughs, the vellow jaundice proceeding from a viscidity of the bile, and other chronical disorders. They are certainly a powerful aperient and deobstruent, promote the fluid fecretions in general, and liberally taken, loofen the belly.

MARUM SYRIACUM; [L. E.] marum cortus J. B. Chamadrys maritima incana frutescens foliis lanceolatis Tourn. Syrian herb mastich; the leaves. This is a fmall fhrubby plant, growing fpontaneoufly in Syria, Candy, and other warm climates, and cultivated with us in gardens. The leaves have an aromatic bitterish taste; and, when rubbed betwixt the fingers, a quick pungent fmell, which foon affects the head, and occasions sneezing: distilled with water, they yield a very acrid, penetrating effential oil, refembling one obtained by the fame means from fcurvygrafs. These qualities sufficiently point out the uses to which this plant might be applied; at prefent, it is little otherwise employed than in cephalic fnuffs.

MARUM

MARUM VULGARE; [L. E. fampfucus five marum massichen redolens C. B. Thymbra Hispanica
majorana folio Tourn. Herb mastich; the leaves. This pungent
aromatic plant also is become almost a stranger to practice.

MASTICHE; [L. E.] Maffich; a refin exuding from the lentife tree (fee lentifeus) and brought from Chio, in fmall, yellowish, transparent grains or tears, of an agreeable fmell, especially when heated or fet on fire. This refin is recommended in old coughs, dyfenteries, hamoptoes, weakness of the flomach, and in general in all debilities and laxity of the fibres. Geoffroy directs an aqueous decoction of it to be used for these purpofes: but water extracts little or nothing from this refin; rectified fpirit almost entirely dissolves it: the folution taftes very warm and pungent.

MATRICARIA; [L. E.] matricaria vulgaris seu sativa C. B. Common wild featherfew or feverfew: the leaves and flowers. This is a celebrated antihysteric: Simon Paulli relates, that he has experienced most happy effects from it in obstructions of the uterine evacuations; I have often feen, fays he, from the use of a decoction of matricaria and chamæmel flowers with a little mugwort, hysteric complaints instantly relieved, the difcharge succeed plentifully, and the patient, from a lethargic state, return as it were into life again. Matricaria is likewife recommended in fundry other diforders, as a warm flimulating bitter: all that bitters and carminatives can do, fays Geoffroy, may be expected from this. It is undoubtedly a medicine of fome use in these cases, though not equal to chamæmel flowers alone, with which the matricaria agrees in fenfible qualities except in being weaker.

MECHOACANNA: [E.] the root of an American convolvulus, brought chiefly from Mechoacan. a province of Mexico, in thin flices like jalap, but larger, and of a whitish colour. It was first introduced among us (about the year 1524) as a purgative univerfally fafe, and capable of evacuating all morbific humours from the most remote parts of the body. Soon as jalap became known, mechoacan gradually loft its reputation, which it has never fince been able to retrieve. It is nevertheless by some still deemed an useful cathartic: it has very little fmell or tafte, and is not apt to offend the flomach: its operation is flow, but effectual and fafe; Geoffroy affirms, that there is scarce any purgative accompanied with fewer inconveniences. It feems to differ from jalap only in being weaker; the refins obtained from both have nearly the fame qualities, but jalap yields five or fix times as much as mechoacan; hence it is found necessary to exhibit the latter in fix times the dofe of the former, to produce the fame

MEL; [L. E.] Honey is a vegetable juice, obtained from the honey-comb, either by separating the combs, and laying them flat upon a sieve, through which the honey spontaneously percolates; or by including the comb in canvas bags, and forcing the honey out by a press: the first fort is the purest; the latter is found to contain a good deal of the matter of which the comb is formed, and sundry other impurities: there is another fort still inferior to the two foregoing, obtained by heating the comb is formed.

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fore they are put into the prefs. The best fort is thick, of a whitish colour, an agreeable fmell, and a very pleafant tafte: both the colour and flavour differ according to the plants which the bees collect it from : that of Narbonne in France, where rofemary abounds, is faid to have a very manifest flavour of that plant, and to be imitable by adding to other honey an infusion of rolemary flowers. Honey, confidered as a medicine, is a very ufeful detergent and aperient, powerfully dissolving viscid juices, and promoting the expectoration of tough phlegm: in fome particular constitutions it has an inconvenience of griping or proving purgative; this is faid to be in some measure prevented, by previously boiling the honey.

MELAMPODIUM, vide Hel-LEBORUS NIGER.

MELILOTUS; [E.] trifolium odoratum seu melilotus vulgaris J. B. Melilot; the leaves and flowers. This grows wild in hedges and among corn; and has likewife, for medicinal uses, been cultivated in gardens. The green herb has no remarkable smell; when dry, a pretty flrong one: the tafte is roughish, bitter, and if long chewed, nauseous. A decoction of this herb has been recommended in inflammations of the abdomen; and a decoction of the flowers in the fluor albus. But modern practice rarely employs it any otherwife than in emollient and carminative glysters, and in fomentations, cataplasms, and the like; and in these not often. It formerly gave name to one of the officinal plasters, which received from the melilot a green colour, but no particular

MELISSA; [L. E.] meliffa bortensis C. B. Balm ; the leaves. This plant, when in perfection, has a pleafant fmell, fomewhat of the lemon kind; and a moderately aromatic fubacrid tafte. The young shoots have the strongest flavour: the flowers, the herb itself when old, or produced in very moist rich foils or rainy feafons, are much weaker both in fmell and tafte. Balm is appropriated, by the writers on the materia medica, to the head, stomach, and uterus; and in all diforders of these parts is supposed to do extraordinary service. So high an opinion have some of the chemists entertained of balm. that they have expected to find in it a medicine which should prolong life beyond the usual period. The present practice however holds it in no great effeem, and ranks it (where it certainly deserves to be) among the weaker aromatics; in diffillation, it yields an elegant effential oil, but in exceeding small quantity; the remaining decoction taftes roughish. Strong infusions of the herb, drank as tea, and continued for fome time, have done fervice in a weak lax state of the viscera: these liquors, lightly acidulated with juice of lemons, turn of a fine reddish colour, and prove an useful, and to many a very grateful drink, in dry parching fevers.

MELO; [E.] Melon; the feeds. These stand among the four greater cold seeds. They have been sometimes used, with the others of that class, as cooling and emollient; but are at present little taken notice of.

MENTHA CATARIA; vide Nepeta.

MENTHA

mentha angustifolia spicata C. B. Garden or fpearmint; the leaves. The leaves of mint have a warm, roughish, somewhat bitterish taste; and a strong, not unpleasant, aromatic smell. Their virtues are those of a warm, stomachic and carminative: in loss of appetite, nausea, continual retchings to vomit, and (as Boerhaave expresses it) almost paralytic weaknesses of the stomach, there are few fimples perhaps of equal efficacy. In colicky pains, the gripes to which children are fubject, lienteries and other kinds of immoderate fluxes, this plant frequently does good fervice. It likewise proves beneficial to fundry hysteric cases, and affords an useful cordial in languors and other weaknesses consequent upon delivery. The best preparations for these purpofes are, a strong infusion made from the dry leaves in water (which is much superior to one from the green herb) or rather a tincture or extract prepared with rectified fpirit. These possess the whole virtues of the mint: the effential oil and diffilled water contain only the aromatic part; the expressed juice only the astringency and bitterishnefs, together with the mucilaginous fubstance common to all vegetables.

MENTASTRUM; [E.] mentasirum spicatum folio longiore candicanti J. B. Horse mint; the leaves. This and feveral other forts of mint are found wild in moift meadows, marshes, and on the brinks of rivers. They are much less agreeable in fmell than spearmint, and have more of a hot unpleasant bit-

MENTHA PIPERITIS; [L.] mentha spicis brevioribus & habitioribus, foliis menthæ fuscæ, sapore

MENTHA VULGARIS; [L.E.] fervido piperis Raii synops. Peppermint; the leaves. This species has been lately introduced into practice, and received for the first time in our present pharmacopoia: very few of the botanical or medical writers make mention of it; it grows wild in some parts of England, in moift watery places, but is much less common than the other forts. The leaves have a more penetrating fmell than any of the other mints, and a much warmer. pungent, glowing tafte like pepper, finking as it were into the tongue. The principal use of this herb is in flatulent colics, languors, and other like diforders: it feems to act as foon as taken, and extend its effects through the whole fystem, inftantly communicating a glowing warth. Water extracts the whole of the pungency of this herb by infusion, and elevates it in distilla-

> MERCURIALIS; [E.] mercurialis testiculata seve mas, & spicata sive famina, Dioscoridis & Plinii C. B. Male and female French mercury; the leaves. These stand among the five emollient herbs; and in this intention are fometimes made use of in glysters. A syrup made from the leaves, given in the dose of two ounces, is faid to prove a mild and useful laxative.

There is another fort of mercurialis growing in woods and hedges, which though recommended by fome botanic writers, as having the fame virtues with the foregoing, and as more palatable, has been lately found possessed of noxious qualities. (See Raii Synopf. edit. 3. page 138. Phil. Trans. abr. Lowthorp, ii. 640.) This may be diftinguished from the foregoing by its being a perennial plant, larger, having its leaves rough, and the stalk not at all branched. The

officinal

officinal fort is named by Linnæus is commonly called dogs mercury.

MERCURIUS, vide ARGEN-TUM VIVUM.

MESPILUS; [E.] mespilus vulgaris J. B. The medlar tree; its fruit. Medlars are scarce ever made use of for any medicinal purposes. They have a very auftere aftringent taffe, infomuch as not to be eatable until mellowed by keeping.

MEUM ATHAMANTICUM; [L. E.] meum foliis anetbi C. B. Spignel; the root. Spignel is an umbelliferous plant, found wild in Italy, and the warmer parts of Europe, and fometimes also in England. The roots have a pleafant aromatic finell, and a warm, pungent, bitterish taste: in virtue, they are fimilar to the levisticum, from which this root feems to differ only in being weaker, and fomewhat more agreeable. It is an useful aromatic and carminative, though at prefent little regarded.

MEZEREON; [E.] laureola folio deciduo, flore purpureo, officinis laureola famina C. B. Mezereon or fpurge-olive; the root, bark and berries. Thefe are strong purgatives, fimilar in quality to the laureola or spurge laurel, of which in its place.

MILIUM; [E.] milium semine luteo C. B. Millet; the feed. Thefe feeds are frequently employed in food, but hardly ever as medicines: they are fufficiently nutritious, and not difficult of digeftion.

MILIUM SOLIS, vide Li-THOSPERMUM.

MILLEFOLIUM; [E.] mille. mercurialis caule brachiato, foliis folium vulgare album, & millefolium glabris; the poisonous mercurialis purpureum C. B. Milfoil or yar-caule simplicissimo, foliis scabris; it row; the leaves. This grows plentifully about the fides of fields, and on dry commons, flowering greatest part of the summer. The leaves have a rough bitterifh tafte, and a faint aromatic fmell. Their virtues are those of a very mild astringent. and as fuch they fland, recommended in hæmorrhagies both internal and external, diarrheas, debility and laxity of the fibres; and likewife in ipalmodic hysterical affections. In these cases, some of the Germans have a very high opinion of this herb, particularly Stahl, who esteems it a very esfectual astringent, and in his language, one of the most certain tonics and fedatives. Its virtues are extracted in greatest perfection by proof spirit: water takes up its aftringency and bitterness, but little of its aromatic flavour; tinctures made in rectified. fpirit contain the latter, with little of the former.

> The flowers of milfoil are confiderably stronger in aromatic slavour than the leaves; in diffillation, they yield a small quantity of effential oil, of an elegant blue co-

The roots, taken up in the spring, have an agreeable, warm, pungent tafte: Dr. Grew resembles them to contrayerva, and imagines they might in some measure supply its place; this, however, is greatly to be doubted, fince there is fuch a remarkable difference betwixt the two, that whilft one retains its tafte for a length of time after it has been brought to us from America, the tafte of the other is in great measure loft by drying.

· MILLEPEDÆ; [L. E.] Wood-lice, hoglice, flaters. These infects are found in cellars, under stones, M

and in cold moist places: in the dies: the best musk is brought from warmer countries they are rarely met with. Millepedes have a faint difagreeable fmell, and a fomewhat pungent, sweetish, nauseous taste. They have been highly celebrated in suppressions of urine, in all kinds of obstructions of the bowels, in the jaundice, weakness of fight, and a variety of other disorders. Whether they have any just title to these virtues, is greatly to be doubted: thus much is certain, that their real effects come far short of the character usually given of them.

MINIUM; [L. E.] Red lead; lead calcined to redness. See the article Plumbum.

MORSUS DIABOLI; [E.] fcabiofa pratensis nostras præmorsa radice Morison. Devils bit; the leaves and roots. These stand recommended as alexipharmacs, but they have long given place to medicines of greatly efficacy.

MORUS; [L. E.] morus fructu nigro C. B. The mulberry tree; its fruit [L. E.] and the bark of the roots [E.] This tree is commonly cultivated on account of its fruit, which is rather eaten for pleafure than used as a medicine: it has the common qualities, of the other fweet fruits, abating heat, quenching thirst, and promoting the groffer fecre-tions; an agreeable fyrup made from the juice, is kept in the shops. The bark of the roots has been in confiderable esteem as a vermifuge; its taste is bitter, and somewhat aftringent.

MOSCHUS; [L. E.] Musk: a grumous fubiliance like clotted blood, found in a little bag fituated near the umbilical region of a particular kind of animal met with in China, Tartary, and the East In-

Tonquin, an inferior fort from Agria and Bengal, and a still worse from Ruffia.

Fine musk comes to us in round. thin bladders; which are generally about the fize of a pigeon's egg, covered with short brown hairs, well filled, and without any appearance of having been opened. The musk itself is dry, with a kind of unctuosity, of a dark reddish brown, or rasty blackish colour, in small round grains, with very few hard black clots, and perfectly free from any fandy or other visible foreign matter. If chewed, and rubbed with a knife on paper, it looks fmooth, bright, yellowish, and free from grittiness. a red hot iron, it catches flame, and burns almost entirely away, leaving only an exceeding small quantity of light greyish ashes: if any earthy fubiliances have been mixed with the musk, the quantity of the refiduum will readily discover them.

Musk has a bitterish subacrid taste; a fragrant smell, agreeable, at a distance, but when smelt near to, fo firong as to be difagreeable, unless weakened by the admixture of other fubstances. If a small quantity be insufed in spirit of wine in the cold for a few days, it imparts a deep, but not red tincture: this, though it discovers no great fmell of the musk, is nevertheless strongly impregnated with its virtues; a fingle drop of it communicates to a whole quart of wine a rich musky flavour. The degree of flavour which a tincture drawn from a known quantity of musk, communicates to vinous liquors, is perhaps one of the best criteria for judging of the goodness of this commodity. Neuman informs us, that spirit of wine dissolves ten parts out of thirty of musk, and that wa-

ter takes up twelve; that water elevates its smell in distillation, whilst pure spirit brings over nothing. fweat breaks out, the patient usually falls into a refreshing sleep; that he never met with any hysie-

Musk is a medicine of great esteem in the eastern contries; among us, it has been for fome time pretty much out of use, even as a perfume, on a supposition of its occasioning vapours, &c. in weak females, and persons of a sedentary life. It appears, however, from late experience, to be, when properly managed, a remedy of good fervice even against those disorders which it has been supposed to produce. Dr. Wall has communicated (in the philosophical transactions, no. 474.) an account of fome extraordinary effects of musk in convulfive and other difeafes which have too often baffled the force of medicine. The docter observes, that the fmell of perfumes is often of differvice, where the fubstance taken inwardly, and in confiderable quantity, produces the happiest effects: that two perfons, labouring under a subsultus tendinum, extreme anxiety, and want of fleep, from the bite of a mad dog, by taking two doses of musk, each of which was fixteen grains, were perfectly relieved from their com-He likewise observes, that convulfive hiccups, attended with the worst symptoms, were removed by a dose or two, of ten grains: and that in some cases, where this medicine could not, on account of strong convulsions, be administered to the patient by the mouth, it proved of fervice when injected as a glyster. He likewife adds, that under the quantity of fix grains, he never found much effect from it; but that given to ten grains and upwards, it never fails to produce a mild diaphoresis, without at all heating or giving any uneafiness; that on the contrary, it eafes pain, raifes the spirits, and that after the

ally falls into a refreshing sleep; that he never met with any hyllerical person, how averse soever to perfumes, but could take it, in the form of a bolus, without inconvenience. To this paper is annexed an account of some farther extraordinary effects of musk, observed by another gentleman. Repeated experience has fince confirmed its efficacy in these disorders. Thave myself frequently exhibited it with remarkable fuccess; and sometimes increased the dose as far as twenty grains every four hours, with two or three spoonfuls of the musk juleps between. There are not perhaps many examples of its proving ineffectual, unless where the musk (which two frequently happens) was of a bad kind.

MYROBALANI; [E.] Myrobalans, dryed fruits brought from the East Indies; their outward part freed from the stone. There are five kinds of myrobalans met with in the shops; (1) the yellow, myrobalani teretes citrini C. B. (2) the chebule, myrobalani maximae oblongae angulofae C. B. (3) The hindian or black, myrobalani nigrae ostangulares C. B. (4) The bellicic, myrobalani rotundae belliricae C. B. (5) The emblic, myrobalani emblicae in fegmentis nucleum babentes, angulofae f. B.

All the myrobalans have a low degree of purgative virtue. They have also an altringent quality, discoverable by the taste, from their use among the Indians for tanning leather, and from their striking a black colour with chalybeate solutions: in consequence of this, they are supposed to strengthen the bowels after their operation as a cathartic is over. Nevertheless their purgative virtue is so inconsiderable, that practitioners have for a long

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time laid them entirely aside in that intention.

MYRRHA; [L. E.] Myrrh; a concrete gummy refinous juice brought from the East Indies, in glebes or drops, of various colours and magnitudes. The best fort is of a brown or reddiff yellow colour, fomewhat transparent; of a lightly pungent, bitter tafte, with an aromatic flavour though not fufficient to prevent its proving naufeous to the palate; and a strong not disagreeable smell. The medical effects of this aromatic bitter are, to warm and firengthen the viscera, and dissolve thick tenacious juices: it frequently occasions a mild diaphoresis, and promotes the fluid fecretions in general. Hence it proves ferviceable, in languid cases, diseases arising from a simple inactivity, those female disorders which proceed from a cold, mucous, fluggish indisposition of the humours, suppressions of the uterine discharges, cachectic disorders, and where the lungs and thorax are oppressed by viscid phlegm. Myrrh is likewise supposed in a peculiar manner to refift putrefaction in all parts of the body; and in this light flands recommended in malignant, putrid, and pestilential fevers, and in the small-pox, in which last it is faid to accelerate the eruption. Rectified fpirit extracts the fine aromatic flavour and bitterness of this drug, and does not elevate any thing of either in evaporation: the gummy substance left by this menftruum has a disagreeable taile, with scarce any thing of the peculiar flavour of the myrrh; this part dissolves in water, except some impurities which remain. In distillation with water, a confiderable quantity of a ponderous effential oil arises, resembling in slavour the original drug.

MYRRHIS; [E.] myrrhis magno femine, longo, fulcato, J. B. Sweet cicely; the leaves and feeds. This plant is cultivated in gardens: it agrees in quality with the charefolium, of which in its place.

MYRTUS; [E.] myrtus communis Italica C. B. Myrtle; the berries. This is an ever green fhrub, growing in Italy, and cultivated in our botanic gardens. The leaves and berries have been fometimes made use of as astringents, but are not at present regarded.

NAPUS DULCIS officinarum; [L. E.] napus fativa C. B. Sweet navew, or navew gentle; the feeds. This is a fort of turnep, fown in fome of our gardens for culinary use: the roots are warmer than the common turnep. The feeds have a bitterish taste accompanied with a faint aromatic slavour: abundance of virtues have been ascribed to them, as attenuating, detergent, alexipharmac, and others; at present, they are of no farther use in medicine, than as an ingredient in the theriaca.

NAPUS SYLVESTRIS; [E.] Rape; the feeds. This has little other external difference from the foregoing than being smaller: it grows wild upon dry banks and among corn. The feeds of this are warmer and more pungent than those of the garden fort: the only use however they are applied to, is the preparation of the oil called rape oil, which is obtained by bruifing and pressing the seeds: large quantities of the plant are cultivated for this purpose in the isse of Ely.

NARDUS CELTICA: [L. E.]
nardus Celtica Dioscoridis G. B. Valeriana Celtica Tourn. Celtic nard;
the root, brought from the Alps,

&c. This root confifts of a number of fibres, with the lower part of the flalks adhering; thefe laft are covered with thin yellowish scales,

the remains of the withered leaves.

NARDUS INDICA; [L. E.]

nardus Indica, qua spica, spica narsli, & spica Indica ossicinarum C. B.

Indian nard, or spikenard, brought from the East Indies. This is a congeries of fmall fibres iffuing from one head, and matted close together, fo as to form a bunch about the fize of the finger, with fome finall strings at the opposite end of the head. The matted fibres, (which are the part chofen for medicinal purposes) are suppoled by fome to be the head or fpike of the plant, by others the root: they feem rather to be the remains of the withered stalks, or the ribs of the leaves; fometimes entire leaves and pieces of stalks are found among them; we likewife now and then meet with a number of these bunches issuing from one root.

Both the nards have a warm, pungent; bitterrish taste; and a firong, not very agreeable fmell. They are flomachic and carminative; and faid to be alexipharmac, diuretic, and emmenagogue: their only use at present is as ingredients in the mithridate and theriaca.

NASTURTIUM AQUATI-CUM; [L. E.] nasturtium aquati-cum supinum C. B. Water-cresses; the leaves. This plant grows wild in rivulets, and the clearer flanding waters; its leaves remain green all the year, but are in greatest per-fection in the spring. They have a quick pungent fmell (when rubbed betwixt the fingers) and an acrid tafte, fimilar to that of cochlearia, but weaker. As to their virtues, they are among the milder aperient antiscorbutics: Hoffman has a mighty opinion of this plant. and recommends it as of fingular efficacy for accelerating the circulation, firengthening the viscera, opening obstructions of the glands, promoting the fluid fecretions, and purifying the blood and humours: For these purposes, the expressed juice, which contains the peculiar tafte and pungency of the herb, may be taken in dofes of an ounce or two, and continued for a confiderable time.

NASTURTIUM HORTEN-SE; [E.] nasturtium vulgare seu bortense, tenuiter divisum, Morison Garden crelles; the leaves and feeds. The leaves of garden creffes make an ufeful falad in fcorbutic habits: in talte and medical virtues, they are fimilar to the foregoing, but much weaker. The feeds also are said to be nearly of the fame quality.

NEPETA; [L. E.] mentha cs-taria vulgaris & major C. B. Nep, or cat mint; the leaves. Cat mint (fo called from its being often deflroyed by that animal) is met with in our gardens, and fometimes growing wild in hedges and on dry banks. It is a moderately aroma-tic plant, of a flrong fmell, not ill refembling a mixture of mint and pennyroyal; of the virtue of which it likewife participates.

NEPHRITICUM LIGNUM; [E.] lignum peregrinum, aquam caeruleam reddens C. B. An American wood, brought to us in large, compact, ponderous pieces, without knots, of a whitish or pale yellow colour on the outfide, and dark coloured or reddish within: the bark is usually rejected. This wood imparts to water or rectified fpirit a deep tincture, appearing, when placed betwixt the eye and the light, of a golden colour, in M 3

the warmer diuretics, heat or offend the parts. Practitioners how-

ever have not found these virtues warranted by experience.

NICOTIANA; [L. E.] nicoti-ana latifolia major C. B. Tobac-co; the leaves. This plant was first brought into Europe, about the year 1560, from the island Tobago in America; and is now cultivated for medicinal use in our gardens: the leaves are about two feet long, of a pale green colour whilft fresh, and when carefully dried of a lively yellowish. They have a strong, disagreeable smell, like that of the narcotic plant; and a very acrid burning taste. Taken internally, they prove virulently cathartic and emetic, occaffoning almost intolerable cardialgic anxieties. By boiling in water, length destroyed: an extract made by long coction is recommended by Stahl and other German phyficians, as a fafe and most effectual aperient, expectorant, detergent, &c. but this medicine, which is extremely precarious and uncertain in strength, has never come into efleem among us. Tobacco is sometimes used externally in unquents, for destroying cutaneous infects, cleanfing old ulcers, &c. Beat into a mash with vinegar or brandy, it has fometimes proved ferviceable for removing hard tumours of the hypochondres; an account is given in the Edinburgh effays of two cases of this kind cured by it. Some of the more common uses of the prepared leaves of the plant, brought from America, have been already spoken of in page 32.

There is another fort of tobacco found wild on dunghills, in several parts of England: this is called by C. Bauhine micatiana minor, by Gerrard byoscyamus luteus. It seems to agree in quality with the hyoscyamus formerly mentioned, though (as Dale informs us) often substituted in our markets to the true tobacco; from which it may be distinguished by the leaves being much smaller, and the flowers not reddish as those of the officinal fort, but of a yellowish green colour.

NIGELLA; [E] nigella flore minore fimplici candido C. B. Fennel flower; the feeds. This plant is fown annually in fome of our gardens; the feeds most esteemed are brought from Italy. They have a strong, not unpleasant smell; and a subacrid, somewhat unctuous, disagreeable taste. They stand recommended as aperient, diuretic, &c. but have long been strangers to practice, and are by some sufference of the present of the prese

NITRUM: [L. E.] Nitre or faltpetre; a falt, extracted, in Perfia and the East Indies, from certain earths that lie on the fides of hills; and artificially produced in fome parts of Europe, from animal and vegetable matters rotted together (with the addition of lime and affies) and exposed for a length of time to the air, without the access of which, nitre is never generated : the falt extracted from the earths, &c. by means of water, is purified by colature and cryftallization. Pure nitre dissolves in about fix times its weight of water, and concretes a-

gain

gain into colourless transparent crystals; their figure is that of an hexagonal prism, terminated by a pyramid of an equal number of sides. It readily melts in the fire; and in contact with fuel deslagrates, with a bright slame and considerable noise; after the detonation is over, a large quantity of alcaline falt is found remaining. The taste of nitre is sharp, penetrating, and bitterish, accompanied with a certain sensation of cold.

Nitre is a medicine of celebrated use in many disorders. Besides the aperient quality of neutral falts in general, it has a manifestly cooling one, by which it quenches thirst, and abates febrile heats and commotions of the blood: it has one great advantage above the refrigerating medicines of the acid kind, that it does not coagulate the animal juices; blood, which is coagulated by all the mineral acids, and milk, &c. by acids of every kind, are by nitre rendered more dilute, and preserved from coagulation; it nevertheless somewhat thickens the thin, ferous, acrimonious humours, and occasions an uniform mixture of them with fuch as are more thick and vifcid; by this means preventing the ill confequences which would otherwife enfue from the former, though it has not, as Juncker supposes, any property of really obtunding acrimony. This medicine for the most part promotes urine; fometimes gently loofens the belly; but in cold phlegmatic habits, very rarely has this effect, though given in large doses: alvine fluxes, proceeding from too great acrimony of the bile or inflammation of the inteftines, are suppressed by it: in choleric and febrile diforders, it generally excites fweat; but in malignant cases, where the pulse is low, and the strength lost, it retards this

gain into colourless transparent cry-falutary evacuation and the erup-

Dr. Stahl has written an express treatife upon the medical virtues of nitre; in which he informs us, from his own experience, that this falt added to gargarifms employed in inflammations of the fauces in acute fevers, thickens the falival moisture upon the palate and fauces into the confidence of a mucus, which keeps them moift for a confiderable time, whereas if nitre is not added, a fudden dryness of the mouth immediately enfues: that in spitting of blood, nitre given from half a dram to a dram, at proper intervals of time, never failed to put a stop to the hæmorrhagy; and in other hæmorrhagies likewife, it was always found to have the best effects, provided it was skil-fully dosed: that in nephritic complaints, the prudent use of nitre is of more fervice than any of the numerous medicines ufually recommended in that difeafe. This celebrated author likewife affirms, from a large number of experiments, that nitre gives great relief in suppression and heat of urine, whether simple or occasioned by a venereal taint; that it is of great service in acute and inflammatory pains of the head, eyes, ears, teeth, &c. in all eryfipelatous affections, whether parti-cular or universal, and likewise in chronic deliriums; that in diarrhox happening in petechial fevers, nitre mixed with abforbents and diaphoretics, had the best effects, always putting a stop to the flux, or rendering the evacuation falutary; that in diarrhææ happening in the smallpox, it had been employed with the like fuccefs, two doles or three at most (consisting of two, three or four grains each, according to the age, &c. of the patient) given at the interval of two or three hours, putting a stop to the flux, after the M 4

bezoardic powders, both with and without opium, had been given without fuccefs. The fame author recommends this falt likewife as a medicine of fingular fervice in cho-Jeras attended with great anxieties and heat of the blood; in the flatulent spasmodic heart-burns familiar to hypochondriacal people; and the lofs of appetite, naufea. vomiting, &c. which gouty perfons are fometimes feized with upon the pains of the feet, &c. fuddenly remitting. In fhost, this great phyfician looks upon nitre as an almost univerfal medicine; and affures us, that no bad confequences are to be feared from the internal use of it: nevertheless he observes, that in a phthifis and ulcerous affections, it has been found to be of no fervice; and that therefore its use may be superfeded in these complaints.

The usual dose of this medicine among us is from two or three grains to a scruple; though it may be exhibited with great safety, and generally to better advantage, in larger quantities: the only inconvenience is its being apt to set uneasy on the stomach. Some have affirmed, that this salt loses half its weight of aqueous another by surficion, and consequently that one part of melted nitre is equivalent to two of the crystals; but it did not appear, upon several careful trials, to lose so much as one twentieth of its weight.

NUMMULARIA; [E.] lyfimachia bumifufa, folio rotundiore, fiore luteo Tourn. Moneywort, or herb two-pence; the leaves. This grows fpontaneously in mosift watery places, and creeps on the ground, with two little roundish leaves at each joint. Their taste is subastringent, and very lightly acid: hence they stand recommended by Boerhaave in the

hot feurvy, and in uterine and o-

ther hamorrhagies. But their effects are fo inconfiderable, that common practice takes no notice of them.

NUX MOSCHATA; [L. E.] nux moschata fructu rotundo C. B. Nutmogs; the kernel of a roundish nut which grows in the East Indies. The outfide covering of this fruit is foft and fleshy like that of a walnut, and fpontaneously opens when the nut grows ripe; immediately under this lies the mace. (fee the article Macis) which forms a kind of reticular covering, through the fiffures whereof appears a hard woody shell that includes the nutmeg. These kernels have long been made use of both for medicinal and culinary purpofes, and defervedly looked upon as a warm agreeable aromatic. They are supposed likewife to have an aftringent virtue; and are employed in that intention in diarrhoeas and dyfenteries. Their aftringency is faid to be increased by torrefaction, but this does not appear to the tafte: this treatment certainly deprives the spice of some of its finer oil, and therefore renders it less efficacious to any good purpose; and if we may reason from analogy, probably abates of its aftringency. Nutmegs distilled with water, afford a large quantity of essential oil, resembling in slavour the fpice itself; after the distillation, an infipid febaceous matter is found fwimming on the water: the decoction, inspissated, gives an extract of an unctuous, very lightly bitterish taste, without any sensible astringency. Reclified spirit extracts the whole virtue of nutmegs by infusion, and elevates very little of it in distillation : hence the spirituous extract possesses the flavour of the spice in an eminent degree.

Nutmegs yield to the prefs (heated) a confiderable quantity of lim-

pid

pid yellow oil, which in cooling concretes into a febaceous confiftence. In the fhops we meet with three forts of unctuous fubstances, called oil of mace, though really expressed from the nutmeg. The best is brought from the East Indies, in stone jars; this is of a thick confiltence, of the colour of mace, and an agreeable fragrant fmell: the fecond fort, which is paler coloured and much inferior in quality, comes from Holland in folid masses, generally flat and of a square figure: the third, which is the worst of all, and usually called common oil of mace, is an artifical compofition of fevum, palm oil, and the like, flavoured with a little genuine oil of the nutmeg. These oils yield all that part in which their aromatic flavour refides, in distillation to water, and to pure spirit by infusion: the distilled liquor and spirituous tincture nearly refemble in quality those prepared immediately from the nutmeg.

NUX PISTACHIA; [E.] nucleus e fruciu pistacice Raii. Pittachio, a moderately large nut, containing a kernel of a pale greenish colour, covered with a reddish skin. The tree which produces it, grows fpontaneously in Persia, Arabia, and feveral islands of the Archipelago: it bears likewise the colds of our own climate, fo as to have produced fruit not inferior to that which we receive from abroad. Pistachio nuts have a pleasant, fweet, unctuous tafte refembling that of almonds. They are ranked amongst the analeptics, and are by fome much effeemed in certain weakneffes, and in emaciated habits.

NYMPHÆA ALBA; [E.] nymphæa alba major C. B. White water lily; the root and flowers.

This grows in rivers and large lakes, flowering usually in June. The roots and flowers have a rough, bitterish glutinous taste; (the flowers are the least rough;) and when fresh, a disagreeable smell, which is in great measure lost by drying: they are recommended in alvine sluxes, gleets, and the like. The roots are supposed by some to be in an eminent degree narcotic, but on no very good foundation: Lindestopeinsorms us, that in some parts of Sweden, they were in times of scarcity used as food, and did not prove unwhole-some.

OCHRA: [E.] Yellow ochre: A foft friable ore of iron, of a yellow colour, dug in feveral parts of England. It possesses the virtues of the calces of iron and hæmatites; but in so low a degree that the shops have deservedly rejected it its principal use is as a pigment.

OCIMUM; [E.] ocimum vulgatius C. B. Basil; the leaves. This is a small plant, raised annually in our gardens: it flowers in June and July, and produces its seeds in August, but rarely perfects them in this country. The leaves have a fost, somewhat warm taste; and when rubbed, a strong unpleafant smell, which by moderate drying becomes more agreeable. They are said to attenuate viscid phlegm, promote expectoration, and the uterine secretions; but have not for a long time been regarded by practice.

OLEA; olea fatiwa C. B. The olive tree; the fruit [E.]; its oil [L. E.]; and the dregs thereof [E.] This tree grows in the fouthern parts of France, in Spain, Italy, and other warm countries: with us it is usually preserved in the

the green houses of the curious, which, in our colder climate, conthough it will bear our ordinary winters in the open air, and produce very good fruit. Olives have an acrid bitter, extremely difagreeable tafte: pickled (as we receive them from abroad) they prove less difagreeable; the Lucca olives, which are fmaller than the others, have the weakest taste; the Spanish, or larger, the strongest; the Provence, which are of a middling fize, are generally the most esteem-

The oil obtained from this fruit has no particular tafte or finell, and does not greatly differ in quality from oil of almonds. Authors make mention of two forts of this oil, one expressed from the olives when fully ripe, which is our common oil olive; the other, before it has grown ripe; this is called oleum immaturum, and omphacinum [E.] Nothing is met with in the shops under this name; and Lemery affirms, that there is no fuch oil; unripe olives, yielding only a viscid juice to the press. From the ripe fruit, two or three forts are obtained, differing in degree of purity: the pureft runs by light pressure: the remaining magma, heated and preffed more strongly, yields an inferior fort, with fome dregs at the bottom called amurca. All these oils contain a confiderable portion of aqueous moisture, and

geals and becomes two thick to fuffer it freely to fubfide; and hence the oil is fometimes met with of a manifestly faline taste.

OLIBANUM; [L. E.] a gummy-refin, brought from Turkey and the East Indies, usually in drops or tears, like those of maftich, but larger, of a pale yellowish, and fometimes reddish colour; a moderately warm pungent tafle, and a ftrong, not very agreeable This drug has received fmell. many different appellations, according to its different appearances: the fingle tears are called fimply olibanum or thus: when two are joined together, thus masculum, or tefliculatum: if the two are very large, thus fæmininum, or mammofum: fometimes four or five, about the bigness of filberds, are found adhering to a piece of the bark of the tree which they exuded from; these have been named thus corticosum: the finer powder which rubs off from the tears in the carriage, mica thuris, and the coarfer powder, manna thuris. This drug is not however in any of its states what is now called thus, or frankincense in the shops (see the article THUS.)

Olibanum confifts of about equal parts of a gummy and refinous fubstance, the first foluble in water, a mucilaginous fubflance; which the other in rectified spirit. With subject them to run into a putrid regard to its virtues, abundance flate: to prevent this, the prepa- have been attributed to it, partirers add some sea salt, which imbi- cularly in disorders of the head bing the aqueous and mucilaginous and breaft, in hæmoptoes, and in parts, finks with them to the bot- alvine and uterine fluxes: but its tom; by this means, the oil be- real effects in these cases are far comes more homogene, and con- from answering the promises of the fequently less susceptible of altera-recommenders. Riverius is faid to tion. In its passage to us, some of have had large experience of the the falt, thrown up from the bot- good effects of this drug in pleuritom by the flaking of the vessel, fies, especially epidemic ones: he is fometimes detained in the oil, directs a scooped apple to be filled

with a dram of olibanum, then covered and roafted under the afhes; this is to be taken for a dose, three ounces of carduus water drank after it, and the patient covered up warm in bed : in a fhort time, he fays, either a plentiful fweat, or a gentle diarrhœa enfue, which carry off the difeafe. Geoffroy informs us, that he has frequently made use of this medicine, after venæfection, with good fuccefs; but acknowledges that it has fometimes failed.

ONONIS; [E.] ononis spinosa flore purpureo C. B. Reit harrow, cammock, or petty whin; the root. It grows wild in waste grounds, and dry fields. The root has a difagreeable fmell, and a naufeous fweetish taste: it stands recommended as an aperient and diuretic; but has never been much regarded among us.

OPHIOGLOSSUM; [E.] ophiogloffum vulgatum C. B. Adders tongue; the leaf. This plant has only one leaf, with a flender stalk arifing from the bottom of it, dented about the edges, and supposed to refemble the tongue of a ferpent: it grows wild in moift meadows. Scarce any other virtues are attributed to it than those of a vulnerary.

OPIUM; [L. E.] the concrete milky juice of the poppy (see the article PAPAVER.) This juice has not yet been collected in quantity in Europe. Egypt, Persia, and some other provinces of Asia have hitherto supplied us with this commodity: in thefe countries, large quantities of poppies are cultivated The opium prepared for this use. about Thebesin Egypt, hence named Thebaic opium, has been usually effeemed the best; but this is not on a full stomach, it often proves

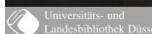
now diffinguished from that collected in other places. This juice is brought to us in cakes or loaves. covered with leaves, and other vegetable matters, to prevent their flicking together: it is of a folid confishence, yet fomewhat foftish and tenacious, of a dark reddish brown colour in the mass, and when reduced into powder, yellow; of a faint disagreeable smell, and a bitterish talle, accompanied with a pungent heat and acrimony.

The general effects of this medicine are, to relax the folids, and render them less sensible of irritation, to chear the spirits, ease pain, procure fleep, promote perspiration and fweat, but restrain all other evacuations. When its operation is over, the pain, and other fymptoms which it had for a time abated, return; and generally with greater violence than before, unless the cause has been removed by the diaphoresis, or relaxation which it occasioned.

The operation of opium is generally attended with a flow, but strong and full pulse, a dryness of the mouth, a redness and light itching of the fkin; and followed by a degree of nausea, a difficulty of respiration, lowness of the spirits, and a weak languid pulse.

The principal indications of opium are, great watchfulnefs, immoderate evacuations proceeding from acrimony and irritation, cramps or spasmodic contractions of the nerves, and violent pains of almost every kind. In these cases, opiates procure, at least, a temporary relief, and an opportunity for other medicines, properly inter-posed, to take effect.

Opium fometimes defeats the intention of the physician, and instead of producing rest, occasions great anxiety, vomiting, &c. Taken



emetic; where the patient is ex-hausted by excessive evacuations, it occasions, at least, extreme lowness. It has been observed to operate more powerfully in perfons of a lax habit, than in the opposite circumstances; whilst it use fully restrains preternatural dis-charges proceeding from irritation, it proves injurious in these that arise from a contrary cause, as in the colliquative diarrhea attending heclic fevers. By relaxing, taking off frictures, and occasioning a paralysis of particular parts, it often promotes fuch evacuations as those parts are concerned in. Boerhaave observes, that it sometimes enables the ureters to allow an eafy paffage even to the calculus; but this effect is by no means constant.

With regard to the dole of opium, one grain is generally a fufficient, and often too large a one; mania-cal perfons, and those who have been long accustomed to take it, require three or more grains to have the due effect. Among the eastern nations, who are habituated to opium, a dram is but a moderate dose: Garcias relates, that he knew one who every day took ten drams : those who have been long accustomed to its use, upon leaving it off, are feized with great lowness, languor, and anxiety; which are re-lieved by having again recourse to opium, and, in some measure, by wine or fpirituous liquors.

Opium is partially foluble in water, and rectified spirit : proof spirit, wine, and vinegar totally diffolve it; the impurities only being left. The folutions in proof fpirit and wine, have the fame effects with the juice in substance; with this difference, that they exert themselves sooner in the body, and are less apt to leave a nausea on the flomach. A tincture made in rectified spirit is supposed to operate,

in an equal dose, more powerfully that the foregoing liquors: Geoffroy informs us, from his own experience, that whilf the watery and vinous solutions occasioned pleasant quiet sleep, a tincture drawn with pure sprint brought on a phrency for a time. Alcaling sleep a phrenty for a time. Alcaline falts diminish the soporific virtue of this medicine : fixt alcalies render it diuretic, whilst volatile ones determine its action chiefly to the cutaneous pores. Acids almost entirely destroy its power. Many have endeavoured to correct fome imaginary ill qualities of this drug, by toasling it, by fermentation, by long continued digestions, by repeated diffolutions and diffillations. These processes, though recom-mended by many late writers, do not promise any singular advantage: they may indeed weaken the opium : but by this very means become prejudicial, rendering the medicine more uncertain in its operation, and the dose more undetermined.

Opium applied externally, gives ease in fundry pains, but does not, as some have supposed, stupisy the part, or render it infenfible of pain: used immoderately, it is faid to produce the same ill effects, as when taken to excess internally.

OPOBALSAMUM [L. E.] Opobalfum, or balm of Gilead; a refinous juice, obtained from an ever green tree, or flirub, growing fpontaneously in Arabia. The best fort, which naturally exudes from the plant, is scarce known to Europe; and the inferior kinds, said to be extracted by lightly boiling the leaves and branches in water, are very rarely feen among us. The true opobalsam, according to Alpinus, is at first turbid and white, of a very firong pungent finell; like that of turpentine, but much iweeter, and of a bitter, acrid, af-

wingent

tringent taste: upon being kept for some time, it becomes thin, limpid, light, of a greenish hue; then of a gold yellow; and at length of the colour of honey: after this, it grows thick like turpentine, and loses much of its fragrance. This balfam is of great esteem in the eastern countries, both as a medicine, and as an odoriferous unguent, and cosmetic. Its great scarcity has prevented its coming into use among us: in the mithridate and theriaca, which it is directed as an ingredient in, the college allow the expressed oil of nutmegs as a succedaneum to it.

OPOPANAX; [L. E.] a concrete gummy refinous juice, obtained from the roots of an umbelliferous plant, panaz pastinacæ folio C. B. which grows spontaneoully in the warmer countries, and bears the colds of this. The juice is brought from Turkey and the East Indies, fometimes in round drops or tears, but more common-ly in irregular lumps, of a reddish vellow colour on the outfide, with fpecks of white, inwardly of a paler colour, and frequently variegated with large white pieces. It has a peculiar strong smell, and a bitter, acrid, fomewhat naufeous tafte. Its virtues are those of an attenuating and aperient medicine: Boerhaave frequently employed it, along with ammoniacum and galbanum, in hypochondriacal diforders, obstructions of the abdominal vifcera, and fuppressions of the menftrual evacuations from a fluggishness of mucous humours, and a want of due elasticity of the folids: in these intentions it is an useful ingredient in the pilulæ gummofæ of the shops. It may be given by itself in the dose of a scruple, or half a dram: a whole dram proves, in

tringent taste: upon being kept many constitutions, gently purga-

ORCHIS, vide SATYRION.

ORIGANUM; [L. E.] origanum sylvestre, cunila bubula Plinit C. B. Wild marjoram; the leaves. This is met with upon dry chalky hills; and in gravelly foils, in several parts of England. It has a pleasant sweet smell, and a pungent taste, warmer than that of the garden marjoram, and much refembling thyme, which it seems to agree with in virtue. An essential oil distilled from it, is kept in the shops.

There is another fort of origanum called Creticum, whose flowers, or rather flowery tops, are sometimes brought to us from Candy: these have an agreeable aromatic flavour, somewhat stronger than the common sort.

OROBUS; [E.] orobus filiquis articulatis, femine majore C. B. Bitter vetch; the feeds. This plant is met with, though not very often, in our gardens. The feeds have a farinaceous, bitterifh, difagreeable tafte: they fland recommended in nephritic complaints, but have long been flrangers to practice.

ORYZA [E.] Rice; the feeds freed from the outward skin: these are brought chiefly from Carolina, where the plant is cultivated in large quantities. They are sufficiently nutritious, and afford an useful food in diarrhæas, dysenteries, and other disorders from a thin acrimonious state of the juices.

OSTEOCOLLA [E] This is a foffil fubitance, found in many parts of Germany, as also in England, and

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and other countries. It is generally met with in loofe fandy grounds, fpreading, from near the furface to a confiderable depth, into a number of branches, like the roots of a tree : it is of a whitish colour, rough on the furface, and for the most part either hollow within, or filled with folid wood, or a powdery woody matter. Sometimes the roots of living trees are found changed into this kind of fubftance (see Neuman. Prælect. chym. pag. 1592, and the Berlin Memoires for the year 1748.)

Powdered ofteocolla separates, on ablution with water, into two distinct substances; the finer matter washed over, burns into quicklime, and agrees on all trials with powdered limestone: the grosser part which remains is mere fand : the fand and calcareous earth are for the most part nearly in an equal proportion. From this analysis we may eafily judge of the virtue which this fossil is celebrated for, that of bringing on a callus in fractured bones.

OXALIS, vide ACETOSA.

OXYACANTHA GALENI, vide BERBERIS.

OXYACANTHA VULGA-RIS, vide SPINA ALBA.

OXYLAPATHUM, vide LA-PATHUM.

PÆONIA; [L. E.] pæonia folio nigricante splendido, que mas C. B. Male peony - pæonia fæmina flore pleno rubro majore C. B. female peony. These plants are cultivated in our gardens on account of the beauty of their flowers : the female, which is the largest and most elegant, and for this rea-

which the shops are supplied with. In quality they are scarce sensibly different; and hence the college allow them to be taken promifcuoully. The roots and feeds of peony, have, when recent, an unpleafant fcent, approaching to that of the narcotic plants; and a fomewhat glutinous fubacrid tafte, with a light degree of bitterness and astringency: the leaves also discover an astringent quality both to the tafte, and by changing chalybeate folutious of a purple colour: the flowers have little tafte, and a very faint, not agreeable fmell. The parts that have been chiefly employed for medicinal purposes are the roots and feeds. These are looked upon as emollient, corroborant, and lightly anodyne; and fupposed to be of service in some kinds of obstructions, erosions of the vifcera, heat of urine, pains in the kidneys, and the like. The virtue they are chiefly celebrated for is, that of curing spasmodic and epileptic complaints; which many have been abfurd enough to believe that the root of this plant would do by being only worn about the neck.

PALMA: [E.] palma foliorum pediculis spinosis, fructu pruniformi, luteo, oleoso Sloan. The palm-oil tree; the oil obtained from the kernels of the fruit. This tree is a native of the coast of Guinea and Cape Verd islands : from these places it has been transplanted into Jamaica and Barbadoes. The oil, as brought to us, is about the confistence of an ointment, and of an orange colour; a strong, not disagreeable smell, but very little tafte: by long keeping, it loses its high colour, and becomes white; when it ought to be rejected, as no longer fit for use. The inhabitants fon the most common, is the only one of the Guinea coast are faid to

make this oil part of their food, and to employ it for the same purposes as we do butter. With us, it is rarely given inwardly, and used only in some external applications, for pains and weakness of the nerves, cramps, sprains, and the like. The common people apply it to the cure of chilblains, and when early made use of, not without success.

PANICUM; [E.] panicum Germanicum, five panicula minore C. B. Panic; the feeds. This plant is cultivated in fome parts of Germany: the feeds have been made use of in food, but are not regarded as medicines.

PAPAVER ALBUM; [L. E.] papaver bortense semine albo C. B. The large garden poppy, with white slowers and seeds; or the white poppy.

white poppy.

PAPAVER NIGRUM; [E.]

papaver bortense nigro semine C. B.

The lesser garden poppy, with purple slowers and black seeds; or the black poppy.

PAPAVER RHÆAS; [L. E.] papaver erraticum majus C. B. The greater of the hairy wild poppies, with deep red flowers, and dark coloured feeds; or the red poppy, or corn-rose.

The heads and stalks of these plants contain a milky juice; which may be collected in considerable quantity, by lightly wounding them when almost ripe: this juice, exposed for a sew days to the air, thickens into a stiff tenacious mass, agreeing in quality with the opium brought from abroad (see the article Opium.) The juices of all the poppies are similar to one another; the only difference is in the quantity afforded, which is generally in proportion to the size of the plants: the larger, or white

poppy is the fort cultivated by the preparers of opium in the eastern countries, and for medicinal uses in this.

Poppy heads, boiled in water. impart to the menstruum their narcotic juice, together with the other juices, which they have in common with vegetable matters in general. The liquor strongly pressed out, fuffered to fettle, clarified with whites of eggs, and evaporated to a due confiftence, vields about one fifth, or one fixth the weight of the heads, of extract. This possesses the virtues of opium; but requires to be given in double its dofe to answer the same intention, which it is faid to perform without occasioning a nausea and giddiness, the usual confequences of the other. (fee the Edinburgh essays abridg. vol. i. pag. 158 and 132.) A ftrong decoction of the heads, mixed with as much fugar as is fufficient to reduce it into the confistence of a fyrup, becomes fit for keeping in a liquid form. Both these preparations are very useful ones, tho' liable to variation in point of strength: nor does this inconvenience feem avoidable by any care in the prescriber, or the operator; fince the poppy heads themselves (according to their degree of maturity, and the foil and feafon of which they are the produce) contain different proportions of the narcotic matter to the other juices of the plant; as the author of the pharmacopæia reformata has already observed.

The flowers of the corn poppy yield upon expression a deep red juice, and impart the same colour to aqueous liquors. A fyrup of them is kept in the shops: this is valued chiefly for its colour; tho some expect from it a lightly anodyne virtue.

The feeds of the poppy are by many

175 many reckoned foporific; Juncker fays, they have the fame quality with those of hyoscyamus, and Herman looks upon them as a good substitute to opium; misled probably by an observation which holds in many plants, that the feeds are more efficacious than the veffels in which they are contained. The feeds of the poppy have nothing of the narcotic juice which is lodged in their covering, and in the stalks; an oil expressed from them has been used for the same purposes as oil olive; and the feeds themfelves taken as food: their tafte is fweetish and farinaceous.

PARALYSIS; [L. E.] verbafculum pratense odoratum C. B. primula veris major Raii. Cowslips: the flowers. This plant grows wild in marshes and moist meadows. The flowers appear in April; they have a pleafant fweet fmell; a fubacrid, bitterish, somewhat aftringent tafte. An infusion of them, used as tea, is recommended as a mild corroborant, in nervous complains, and in fome female diforders proceeding from a deficiency of the menstrual purgations. A flrong infusion of them, forms with a proper quantity of fugar, an agreeable fyrup, which has long maintained a place in the shops; by boiling, even for a little time, their fine flavour is destroyed.

PAREIRA BRAVA; [E.] the root of an American convolvulus, brought to us from Brazil, in pieces of different fizes, fome no bigger than ones finger, others as large as a child's arm: it is crooked, and variously wrinkled on the furface; outwardly of a dark colour, internally of a dull yellowish, and interwoven with woody fibres, fo that upon a transverse fection, a number of concentric circles ap-

pear, croffed with fibres, which run from the centre to the circumference: it has no fmell; the tafte is a little bitterifh, blended with a fweetness, like that of liquorice. This root is highly extolled by the Brazilians and Portuguefe, in a greet variety of difeafes, particularly against suppressions of urine, nephritic pains, and the calculus. In the two first, Geoffroy fays he has given it with good fuccefs, and that the patient was almost instantly relieved by it, a copious discharge of urine fucceeding. He likewife observed large quantities of gravel, and even fmall ftones, voided after its use: this effect he attributes not to any lithontriptic power, but to its diffolving the viscid mucus, by which the fabulous matter had been detained. He likewife relates, that he has had frequent experience of the good effects of this root in deterging and healing ulcers of the kidneys and bladder, where the urine came away purulent and mucous, and could not be voided at all without extreme pain: by the use of the pareira, the urine foon become clear, and of a due confishence, and was evacuated freely; and by joining to this medicine balfam of copaiba, the ulcer perfectly healed. The attenuating quality, which he has discovered in this root, induced him to make trial of it in other diseases, proceeding from tenacious juices, and in these likewise it fully answered his expectations: in humoral afthmas, where the lungs were stuffed up, and the patient almost suffocated by thick phlegm, an infusion of pareira, after many other medicines had proved ineffectual, occasioned a plentiful expectoration, and foon completed a cure: in the jaundice, proceeding from thick bile, it did excellent fervice; but in an icterical case where the liver was fwelled, hard, and fchirrhous, this medicine did no good. His dose of the root in substance is from twelve grains to half a drain, and in decoction two or three drams.

PARIETARIA; [L. E.] parietaria officinarum C. B. Pellitory of the wall; the leaves. This is a fmall plant, growing upon old walls: of an herbaceous, fubfaline tafte, without any fmell. It is one of the five emollient herbs, and in this intention is occasionally made use of. The expressed juice has been given in the dose of three ounces as a diuretic.

PARTHENIUM, vide MATRI-CARIA.

PASTINACA HORTENSIS; [E.] pastinaca latifolia sativa Raii. Garden parinips.

PASTINACA SYLVESTRIS [E.] pastinaca sylvestris latifolia Raii, Wild parinips. The roots of the garden parinip are used as food, and prove fufficiently nutritious. The feeds of both forts are lightly aromatic; those of the wild are strongest.

PENTAPHYLLUM; [L. E.] quinquefolium majus repens C. B. Cinquefoil; the root. This grows plentifully in hedges, and by road fides. The root is moderately aftringent; and as fuch is fometimes exhibited internally against diarrheas, and other fluxes; and employed in gargarifms for ftrengthening the gums, &c. The cortical part of the root may be given, in fubstance, to the quantity of a dram; the internal is confiderably weaker, and requires to be given in double this dole to produce the same effect.

The pumpion; its feeds. Thefe are very rarely met with in the shops: in quality they are not different from those of cucumbers, melons, and the others called cold

PERICLYMENUM, vide Ca-PRIFOLIUM.

PERSICARIA MITIS; [E.] perficaria maculofa Raii. Spotted arfmart; the leaves. This grows wild in moilt watery places: the leaves fomewhat refemble those of the perfica malus, and have generally a blackish spot in the middle : their tafte is roughish and subfaline. This herb is recommended chiefly for external purposes: Tournefort affures us (in the memoirs of the French academy, 1703) that it is one of the best vulneraries and antifeptics he knows, and that a decoction of it in wine stops gangrenes in a furprizing manner. The prefent practice however has no dependance on it.

PERSICARIA URENS ; [E.] perficaria vulgaris acris, five bydropiper Rail. Biting arimart, lakeweed, or water pepper; the leaves. This fort is readily diftinguishable from the former, by its pungent, biting, pepper-like tafte. Its virtues are those of an acrid flimulating medicine: in phlegmatic habits, it promotes the urinary difcharge, and has frequently done good fervice in fcorbutic complaints. The fresh leaves are fometimes applied externally for cleaning old fiftulous ulcers, and confuming fungous flesh: for these purposes they are faid to be employed by the farriers, among whom they are at prefent principally made use of.

PERSICA MALUS ; [E.] perfica molli carne, &c. C. B. PEPO; [E.] peps oblongus C. B. peach tree; its flowers and fruit. Peach

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Peach flowers have an agreeable fibres; it breaks not shivery, but fmell, and a bitterish taste : distilled without any addition, by the heat of a water-bath, they yield one fixth their weight or more, of Indians about the year 1500: Eua whitish liquor, which, as Mr. rope did not become acquainted Boulduc observes, communicates to with it till 1649: nor was it rea large quantity of other liquids, ceived into general practice till fea flavour like that of the kernels of veral years after this : fome ill confruits. An infusion in water of sequences, ensuing from its impruhalf an ounce of the fresh gathered dent use, having brought it for a flowers, or a dram of them when time into difrepute. At prefent, dried. weetened with fugar, proves it is looked upon as the most effecfor children an ofeful laxative and tual remedy in intermittent fevers anthelmintic: the leaves of the tree of almost every kind, and safe in The fruit has the fame quality with abating heat, quenching thirst, and gently loofening the belly.

PERUVIANUS CORTEX; [L. E.] Peruvian bark; the bark of a tall flender tree, growing in Peru. It is brought to us in pieces of different fizes, fometimes rolled up into fhort thick quills, and fometimes flat: the outlide is brownish, and generally covered in part with lected, or not fufficiently plentiful, which dwells long upon the tongue,

close and smooth.

The virtues of this bark, as a febrifuge, were discovered by the are in this intention fomewhat more all ages and constitutions; providefficacious, though less agreeable. ed it be judiciously and seasonably The fruit has the same quality with administered, and due regard be the other dulco-acid fruits, that of had to the circumstances of the difeafe. The modern practice, previous to the exhibition of this medicine, usually gives an emetic at the beginning of a paroxysm; in fome cases a cathartic, and in plethoric habits venæsection, are premifed : thefe render the bark not only more fafe, but likewife more certain and speedy in its operation: where thefe evacuations are nega whitish moss; the inside is of a the disease, if of long standing, yellowith, reddiff, or rufty iron co- fcarce yields to the cortex; or if lour. It has a lightly aromatic finell, it appears at length fubdued, yet fomewhat mufty, yet not disagree- the patient does not recover his able; a bitterish, astringent taste, strength, and soon suffers a relapse. The use of the bark is begun at the accompanied with a degree of end of a paroxyfm, and repeated, aromatic warmth. The fmall, in the quantity of half a dram (more thin, flat pieces are by fome ac- or less, according to the circumcounted the best; by others, the stances of the patient) every third quill fort, with the roughest coat, or fourth hour during the interespecially if of a bright cinnamon mission: where the sever is of the colour on the infide; tho' the large bilious kind, and accompanied with flat pieces, whether rough or great heat, a little nitre is joined : fmooth, of a lighter or darker co- in all cases, moderate exercise gelour, are often of equal goodness. nerally promotes its effect. At The best bark is that which is first, it usually loosens the belly, firongest in smell and taste: this and sometimes operates as if a calikewife proves friable betwixt the thartic had been taken; and by teeth, and doth not separate into this means supplies the omission of

evacuations before its exhibition : if eathartics, diuretics, or diaphorethe purging continues, the medi- tics, are given in conjuction with cine does not answer the purposes intended by it: in fuch case, a little opium is added, which effectually suppresses the flux: if after this, the patient continues too coftive, recourse is had to glysters. The loofeness, however, ought not to be flopt too foon: on the contrary, where the bark does not itfelf produce this effect, it is necesfarv, as Dr. Mead informs us, to join to it a little rhubarb, so as to occasion for a time two stools a day; by this means the difease is more effectually cured, and lefs subject to be followed by a dropfy, or ill habit of body : after a dram or two of rhubarb have been taken, it is to be discontinued, and the bark exhibited by itself. During the use of the bark, the pulse (which, betwixt the paroxysms, is generally weak and flow) becomes ftronger and quicker, the appetite mends, the patient becomes more chearful, and perspiration increases; these may be looked upon as certain prefages of its fuccefs. Thefe effects of the bark have been too frequently overlooked in the cure of agues, though it is certain, that perspiration, for instance, contributes greatly to it : hence in warm weather, fevers yield more eafily than in cold: those which have continued all the winter frequently go off fpontaneously on the return of fummer; and exercise alone has fometimes performed a cure. After the fever has been removed, the medicine is continued for fome time longer, to prevent a relapse; and evacuations, unless absolutely necessary, abstained from. The difease is nevertheless seldom compleatly cured before fome very confiderable evacuation, either by stool, urine, or perspiration, ensues: if this does not fucceed fpontaneously,

the bark, otherwise the patient continues weak, and without appetite. till either the difease returns, or changes into one of a different kind.

In symptomatic agues, hectic, and purulent fevers, cacochymic habits, and where the hoochondres are swelled and distended, this medicine is improper, and for the most part prejudicial. Its manifest aftringency forbids it use in obstructions of the abdominal viscera, of suppression of any critical evacuation : until the obstruction is first removed, or the evacuation had its due courfe.

In acute, inflammatory, or malignant fevers, the bark does not feem to have any good effect. Nevertheless, in the decline of long nervous fevers, or after a remission, when from bad habit, old age, fatigue, or the like, the patient is extremely weak, and the pulse low, the cortex proves a medicine of excellent fervice; provided that there is no extravalation, that the veffels remain entire, and pus is not already formed.

Peruvian bark has likewife been found eminently ferviceable in gangrenes and mortifications, procoeding either from an internal or external cause. In all the cases of this kind, where it proved fuccefsful, it occasioned a kind suppuration, which degenerated when the use of the medicine was discontinued, and again turned kindly upon refuming it. Some have been hence induced to exhibit the cortex in variolous cases, where either the pustules did not rightly suppurate, or petechiæ shewed a disposition to a gangrene; and here likewife it answered expectation: the empty vehicles filled with matter, the watery fanies changed into thick white pus, the petechiæ became gradually of a pale colour,

and at length difappeared, and the pox began to turn fooner than was expected. See the Edinburgh medical effays.

The bark has been applied likewife, and not without fuccess, to the cure of periodic head-achs, hyfleric and hypochondriac fits, and other diforders, which have regular intermissions. By its aftringency and aromatic quality, it firengthens the whole nervous fyftem, and proves ufeful in weakness of the flomach, and fundry chronical diforders, proceeding from too great laxity of the fibres. In obstinate uterine fluxes, and old gleets, bark joined with chalybeates

has notable effects.

The virtues of Peruvian bark refide chiefly in a refinous fubstance, and hence are extracted in perfection by roclified spirit. Aqueous liquors gain little from it, without flrong coction, by which the refin is melted out, and mingled with the water; which whilft hot appears transnarent, but in cooling grows turbid, and deposites great part of the refin to the bottom. Water elevates in distillation the aromatic part of the bark; pure spirit brings over nothing. Hence an aqueous extract proves not only less in quantity, but likewife inferior in quality to one made with rectified fpirit. Proof fpirit extracts the virtues of this drug in tolerable perfection, in the cold; heat enables it to take up more than it can retain when cold. Spirit of fal ammoniac, prepared with fixt alcaline falts, gains very little from the cortex, either with or without heat: the fpirit prepared with quicklime, and the dulcified spirit, in a few hours become strongly impregnated with its fmell and

The fubitances usually joined with bark in prescription feem calculated either to promote its efficacy, or merely for reducing it into the intended form ; without much regard to its agreeableness. and the conveniency of taking it: this is neverthelefs a point of great confequence, as its tafte and the quantity which is necessary, make the patient too frequently loath it before enough has been taken to produce the defired effect. If defigned to be exhibited in the folid form of a bolus, electary, &c. it should be made up, not, as is customary, with fyrups, but with mucilages: with the former, it flicks about the mouth and fauces, whence its tafte remains for a confiderable time; with the latter it passes freely, scarce leaving any taste in the mouth. Aromatics do not prevent the taste of the bark discovering itself; extract of liquorice very effectually conceals it. The extract of logwood also, joined to that of bark, and a proper quantity of mucilage, form a very elegant and agreeable composition.

PETASITIS; [E.] petafitis ma-jor et vulgaris C. B. Butter bur; the root. This grows wild by the fides of ditches, and in meadows : it fends forth fhort fealy stalks in the spring, bearing spikes of purplish flowers; after this the leaves appear, which are very large. and hollowed in about the middle, fo as to refemble a bonnet, or what the Greeks called willage. whence the name of the plant. The roots have a strong smell; a bitterish, aromatic, not very agreeable tafte; they have been given in the dofe of a dram or more, as an aromatic, and likewife as an aperient and deobstruent; these virtues, however, they possess in fo low a degree, as to have lost their reputation in the thops.

PETRO-

This is a general name for fundry liquid bitumens, or mineral oils, which fpontaneously exude from the earth, or from clefts of rocks. Thefe oils are found in almost all countries, but in greatest quantities in the warmer ones: fome are met with in different parts of England : and many of our common bituminous minerals, as pitcoal, &c afford on distillation oils not greatly different from them. The finell fort of this commodity comes from the duchy of Modena in Italy, where three different kinds are found: the best is almost as clear, fluid, and transparent as water, of a highly penetrating, yet not difagreeable fmell, fomewhat like that of reclined oil of amber: the fecond fort is of a clear yellow colour, not fo fluid as the former, lefs penetrating, and partaking more of the oil of amber fmell: the third, or worlt, is of a blackish red colour, of a thicker confiftence. and more difagreeable, than the two foregoing. The first of these is very rarely met with in the shops: the fecond, mixed with a little of the third, and some subtile oil, is ufually fent us inflead of it. Petroleum readily catches fire, and, if pure, burns entirely away : distilled, it becomes somewhat more pellucid than before (a fmall quantity of yellowish matter remaining) and lofes greatly of its natural fmell: it unites with the effential oils of vegetables, not at all with vinous spirits: the finer forts are fo light as to fwim upon the most highly rectified spirit. Petroleum is at present very rarely employed as a medicine, though if the finer kinds could be procured genuine, they should feem to deferve some notice: they are more agreeable than the oil of amber, and milder than that of turpentine; the vir-

petroleum [E.] Rock oil.

In this is a general name for fundry oil bitumens, or mineral oils, nich fipontaneously exude from the earth, or from clefts of rocks.

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In paralytic complaints, and for preventing chilblains. For these intentions, fome of the more common mineral oils have been made the in different parts of England; and many of our common bitumities minerals, as pitcoal, &c affect of different kinds are three different kinds are three different kinds are added to the common expressed.

PETROLEUM BARBADENSE [L.] Barbadoes tar. This is thicker than the foregoing petrolea, and nearly of the confidence of common tar: it is of a reddish black colour, a difagreeable fmell, less pungent than the other forts This bitumen is found in feveral of our American islands, where it is esteemed by the inhabitants of great fervice as a fudorific, and in diforders of the breast and lungs, though, in cases of this kind, atcertainly improper; they likewife apply it externally as a difcutient, and for preventing paralytic diforders. Among us it is rarely used. and not often to be met with genuine. The college employ it as a menstruum for sulphur in the balfamum fulphuris Barbadenfe, and direct an oil to be distilled from it.

PETROSELINUM MACEDO-NICUM; [L. E.] apium Macedonicum C. B. Macedonian parsley; the feeds.

PETROSELINUM VULGA-RE; [L. E.] apium hortenfe fou petrofelinum vulgo C. B. Common parsley; the roots, leaves, and feeds.

The first of these plants is some-

times met with in our gardens; ferred by fome, is inferior in qua-the fecond is commonly cultivated lity to the wild fort. The leaves the fecond is commonly cultivated for culinary purpoles. The feeds of both have an aromatic flavour, and are occasionally made use of as carminatives, &c. Those of the Macedonian parfley are the strongeft, though generally supplied by the other. The root of parsley is one of the five aperient roots, and in this intention is fometimes made an ingredient in apozems and diet drinks: if liberally used, it is apt to occasion flatulencies, and thus, by diftending the vifcera, produces a contrary effect to that intended by it: the tafte of this root is fomewhat sweetish, with a light degree of warmth and aromatic flavour.

PEUCEDANUM ; [E.] peucedanum Germanicum C. B. Hogs fennel, or fulphur wort; the root. This plant grows wild by the fea shores, and in moift shady places. The roots have a ftrong difagreeable fmell, fomewhat refembling that of fulphureous folutions; and an unctuous, subacrid, bitterish take. They are looked upon as ffimulating and attenuating, and supposed to promote expectoration and urine: the expressed juice was employed by the ancients as an errhine in lethargic diforders. The present practice pays no regard to them in any intention.

PHU, vide VALERIANA SYL-

PILOSELLA, vide AURICULA

PIMENTA, vide PIPER JA-MAICENSE.

PIMPINELLA SANGUISOR-BA; [E.] pimpinella sanguisorba minor birsuta et lævis C. B. Burnet; the leaves: this grows wild upon dry chalky hills: fuch as is are mildly aftringent, and fometimes employed in this intention, in dyfenteries and hæmorrhagies.

PIMPINELLA SAXIFRAGA [L. E.] Burnet faxifrage ; the root. Three forts of this plant are taken notice of by medical writers:

1. Pimpinella faxifraga major, umbella candida C. B. This is the fpecies celebrated by the German writers under the name of pimpinella alba: it is not very common in this country, and therefore our markets have been generally fupplied with the following.

2. Pimpinella Jaxifraga minor foliis sanguisorbæ Ran. Tragoselinum alterum majus Tourn. This is not unfrequently met with in dry pasture grounds.

3. Pimpinella faxifraga minor C. B. - folis diffectis Hift. Oxon. This fort is the most common in the fields about London: it grows taller than the others, but the

leaves are less.

All these plants seem to be posfessed of the same qualities, and to differ only in external appearance; and even in this their difference is fo inconfiderable, that Linnæus has joined them into one, under the general name of pimpinella. Our college, instead of the first. which has been generally understood as the officinal fort, allow either of the other (which are more common) to be used promiseuously.

The roots of pimpinella have a grateful, warm, very pungent tafte, which is entitely extracted by rectified fpirits: in diffillation, the menfruum arises, leaving all that it had taken up from the root, united into an elegant, aromatic refin. This root promifes, from its sensible qualities, to be a medicine of confiderable utility; tho' cultivated in gardens, though pre- little regarded in common practice.

Stahl.

Stahl, Hoffman, and other German physicians, are extremely fond of it, and recommend it as an excellent stomachic, resolvent, detergent, diuretic, diaphoretic, and a-lexipharmac. They frequently exhibited it, and not without fuccefs. in scorbutic and cutaneous disorders, foulness of the blood and juices, tumours and obstructions of the glands, and difeases proceeding from a deficiency of the fluid fecretions in general. Boerhaave directs the use of this medicine in afthmatic and hydropic cases, where the strongest resolvents are indicated: the form he prefers is a watery infusion; but the spirituous tincture possesses the virtues of the root in much greater perfection.

There is another species of pimpinella called nigra, from its root being externally of a bright black colour, whilst those of the foregoing fores are whitish: this is remarkable for its yielding an effential oil of a blue colour. It grows wild in fome parts of Germany, Swifferland, &c. and is now and then met with in our gardens.

PIPER NIGRUM; [L. E.] Black pepper; the fruit of a plant growing in Java, Malabar, &c. gathered probably before it is fully ripe, and exficcated in the fun. This is the only spice which we import directly from the East Indies, all the others coming through the hands of the Dutch.

PIPER ALBUM; [L. E.] White pepper; the fruit of the black pepper plant, gathered when ripe, and decorticated by maceration in water. The grains, as brought to us, have fometimes pieces of a dark

coloured fkin ftill upon them.

PIPER LONGUM; [L. E.]

drical figure, about an inch and an half in length; the external furface appears composed of numerous minute grains disposed round the fruit in a kind of spiral direction.

All these spices have a pungent fmell, and a very hot biting tafte. The long fort, which is the hottest and strongest, is most frequently made use of for medicinal purpofes; the black, as being more grateful, for culinary ones; the white, which is the weakest of the three, is rarely employed for either. The warmth and pungency of these fpices refides chiefly in their refinous part; their aromatic odour in an effential oil. The genuine distilled oil fmells strong of the pepper, but has very little acrimony; the remaining decoction inspissated, yields an extract confiderably pungent. A tincture made in rectified spirit is extremely hot and fiery; a few drops of it fet the mouth as it were in a flame.

PIPER JAMAICENSE; [L.E.] Pimento or Jamaica pepper; the amonum of many of the German writers. This is the produce of our own plantations; it is the fruit of a large tree, growing spontaneoully in the mountainous parts of Jamaica, called by Sir Hans Sloane myrtus arborea, aromatica, foliis laurinis. The smell of this spice refembles a mixture of cinnamon, cloves, and nutmegs; its talle approaches to that of cloves, or a mixture of the three foregoing : whence it has received the name of all-fpice. The shops have been for fome time accultomed to employ this aromatic as a fuccedaneum to the more costly spices, and from them it has been introduced into our hospitals: the col-Long pepper. This is the fruit of lege have given it a place in their a different plant, growing also in late dispensatory, and direct a fimthe East Indies. It is of a cylin- ple water to be distilled from it, N 4 which which possesses the flavour of the pimento in great persection. It yields a large quantity of a pleasant effential oil, which, like that obtained from the eastern spices, finks in water. Rectified spirit extracts its pungency and slavour, and elevates nothing in distillation.

PIPER INDICUM; capficum [E.] capficum fliquis longis propendentibus Teurn. Guinea pepper; the fruit. This is an annual plant met with in our gardens; it ripens its red pods in September or October. The tafte of capficum is extremely pungent and acrimonious, fetting the mouth as it were on fire. It is rarely made use of in medicine, being chiefly employed for culinary purposes: a species of it, called in the West Indies bird pepper, is the basis of a powder brought us from thence under the name of Cayan pepper.

PISUM; [E.] pifum arvense fore candido, frueia rotando albo C. B. Peas; the seeds. These are commonly used in food, but very rarely for any medicinal purposes.

PIX LIQUIDA; [L. E.] Tar; a thick, black, unctuous substance; obtained from old pines and firtrees, by burning them with a close smothering heat. It differs from the native refinous juice of the trees (fee terebinthina) in having received a difagreeable impression from the fire, and containing a portion of the faline and other juices united with the refinous and oily: by the mediation of thefe, a part of the terebinthinate oil proves diffoluble in aqueous liquors, which extract little or nothing from the purer turpentines. Water impregnated with the more foluble parts of tar, proves in consequence of this hot pungent oil, warm and flimulating: it fensibly raises the pulse and quickens the circulation: by these qualities, in cold languid phlegmatic habits, it strengthens the solids, attenuates vised juices, opens obstructions of the minuter vessels, and promotes perspiration and the suid secretions in general; whilst in hot bilious temperaments, it disposes to inflammation, and aggravates the complaints which it has been employed to remove.

PIX ARIDA; [L.] Dry or stone pitch. This is the pix liquida expectated by heat: in this process, a part of the acid and the more volatile oil are dissipated along with the aqueous moissure; and hence the product proves considerably less active. It is made use of only in external applications, as a warm adhesive, resinous substance.

PIX SICCA NAVALIS; [E.] This is generally allowed to be the fame with the foregoing dry pitch or inspissated tar. According to Geoffroy, it is compounded of a strange mixture of tallow, and tar, and palimpissa, and an artificial black pitch; which artificial pitch is itself composed of tar and palimpissa; and this palimpissa is no other than an inspissate tar: so that notwithstanding this shew of composition, the result is only a mixture of pitch with a little tallow.

PIX BURGUNDICA; (L. E.] Burgundy pitch. This is of a folid confidence, yet fomewhat foft, of a reddish brown colour, and more agreeable in smell than either of the foregoing. Geosfroy relates that it is composed of gallipot (a solid whitish refin which separates from some of the terebinthina as they run from the tree) melted with common turpentine and a little of its distilled oil. Dale informs us, from the relation of a gentleman who saw the preparation of this commodity in Saxony (from

whence

whence we are chiefly fupplied with it) that it is no more than the common turpentine boiled a little.

PLANTAGO LATIFOLIA: [E.] Common broad-leaved plantane, called feptinervia, from its having feven large nerves or ribs running along each leaf; the narrow leaved fort has only five ribs, and hence is named quinquenervia: they are both common in fields, and by road fides. The leaves are lightly aftringent, and the feeds faid to be fo; and hence they fland recommended in hæmorrhagies, and other cases where medicines of this kind are proper. The leaves, bruifed a little, are the ufual application of the common people to flight flesh wounds.

PLUMBUM; [L. E.] Lead. This is the heaviest of the metals except gold: it melts in a moderate heat, and if kept in fusion, is foon converted partly into fume and partly into an afh coloured calx (plumbum ufum;) this exposed to a ftronger fire, in fuch a manner that the flame may play upon its furface, becomes first yellow, and after-wards of a deep red, (minium or red lead;) if in this process the fire be fuddenly raifed to a confiderable height, the calx melts, assumes the appearance of oil, and on cooling forms a foft leafy substance of a yellowish or reddish colour (litharge.) The proper menstruum of this metal is aquafortis: the vegetable acids likewise dissolve it, but in very finall quantity: a quart of diffilled vinegar will not take up a dram; exposed to the steam of vinegar, it is by degrees corroded into a white powder (ceruffe) which is confiderably more eafy of folution. The calces of lead disfolve, by heat, in expressed oils; these mixtures are

the basis of several officinal plasters and unquents. Crystals of this metal made with distilled vinegar (called from their sweetish taste, sugar of lead) and a tincture drawn from these and green vitriol, are likewife kept in the fliops.

Preparations of lead, given internally, are supposed to incrassate the fluids, abate inflammations, and restrain venereal desires. The fugar is a strong astringent, and has been exhibited as fuch with good fuccefs, in hæmorrhagies, the fluor albus, feminal gleets, &c. The tincture is recommended for the like purposes; and for checking immoderate fweats in phthifical cases, whence it has been usually called tinetura antiphthifica. The internal use of this metal is neverthelefs full of danger, and ought never to be ventured upon unless in desperate cases, after other medicines have been employed without taking effect : it often occasions violent colics; and though it should not prove immediately hurtful, its ill confequences are fure though flow: tremors, spasms, or lingring tabes too frequently follow.

POLIUM MONTANUM: [L. E.] Poley mountain; the tops. It has been disputed among botanic writers, what species of poley ought to be employed in medicine. The college allow the promiscuous use of two, the polium maritimum eredum Monspeliacum C. B. and the polium angustifolium Creticum C. B. The first is sometimes met with in our gardens, and is the fort which the shops have been generally supplied with. They have both a light aromatic fmell, and a bitterish tafte; that brought from Crete is the most agreeable. They stand recommended in catarrhs, pterine diforders, &c. but at prefent are

fcarce otherwise made use of than as an ingredient in the mithridate and theriaca. A M

POLYGONATUM, vide S1-GILLUM SALOMONIS.

POLYGONUM, vide CENTI-NODIUM.

POLYPODIUM QUERNUM: [E.] filix polypodium dicta Herm. Polypody of the oak; the root. Polypody is a capillary plant, growing upon old walls, the trunc of the oak is generally preferred, though not fenfibly different from the others. The roots are long and flender, of a reddish brown colour on the outfide, greenish within, full of fmall tubercles which are refembled to the feet of an infect; whence the name of the plant : the tafte of these roots is sweetish and nauseous.

Polypody has been employed in medicine for many ages; nevertheless its virtues remain as yet to be determined. The ancients held it to be a powerful purger of melancholic humours; by degrees, it came to be looked upon as an evacuater of all humours in general: at length, it was supposed only to gently loofen the belly; and afterwards even this quality was denied it : fucceeding physicians declared it to be aftringent; of this number is Boerhaave, who esteems it moderately flyptic and antifcorbutic. For our own part, we have had no direct experience of it; nor is it employed in practice : it is probable that (as Juncker supposes) the fresh root may loosen the belly, and that it has not this effect when

POLYTRICHUM, vide TRI-CHOMANES.

POMPHOLYX; [E.] a calx, or flowers, of zinc, produced in the furnaces where copper is made into brass by calamine, the ore of zinc. It is found adhering to the covers of the crucibles, &c. either in form of thin crufts, or of a light downy matter, generally of a pure white colour, though fometimes yellowifh. See the article ZINCUM.

POPULUS NIGRA: [E.] the black poplar; its buds. The black poplar is a large tree, growing wild in watery places: it is eafily raifed, and very quick of growth. The decayed trees, &c. that found upon young buds, or rudiments of the leaves, which appear in the beginning of fpring, abound with a yellow, unctuous, odorous juice. They have hitherto been employed chiefly in an ointment, which received its name from them; though they are certainly capable of being applied to other purposes: a tincture of them made in rectified spirit, yields, upon being inspissated, a fragrant refin fuperior to many of those brought from abroad.

> PORRUM; [E.] porrum com-mune capitatum C. B. Leeks; the root. This participates of the virtues of garlic, from which it differs chiefly in being weaker. See the article ALLIUM.

PORTULACA; [E.] portulaca hortenfis latifolia J. B. Purslane; the seeds. This herb is cultivated in gardens for culinary uses. The feeds are ranked among the leffer cold feeds, and have fometimes been employed in emulfions, and the like, along with the others of that class.

POTENTILLA, vide ARGEN-TINA.

PRASIUM, vide MARRUBI-

PRI-

mula weris pallido fore humilis Tourn. black damask. Primrofe; the herb and root. This is a low plant, growing wild in fructus pruni fructu magno, dulci, The leaves have an herbaceous taffe. The roots are lightly bitter. with a kind of aromatic flavour, which fome refemble to that of supplied by the common prune anifeeds; their expressed juice, puas a flernutatory. The flowers have an agreeable flavour, but very weak : an infulion of them in wine, and a fpirit distilled from them, are employed in fome places as cordial and nervine.

PRUNELLA; [E] prunella major foliis non difectis C. B. Selfheal; the leaves. This plant grows wild in meadows and pasture grounds, and produces thick fpikes of purplish flowers during the latter in gargarisms for apthæ and in- pic persons. flammations of the fauces.

PRUNUS HORTENSIS. The plum tree. Three forts of plums rately dried from abroad.

PRUNA BRIGNOLENSIA: pruna ex slavo rusescentia mixti sa-poris, gratissima C. B. The Brignole plum, brought from Provence, under the name of prunelloes.

fructus pruni fructu parvo, dulci, atro-caruleo Tourn. French or common prunes. This is the plum

PRIMULA VERIS; [E.] pri- called by our gardeners the little

PRUNA DAMASCENA; [E.] woods and hedges, and producing atro-caruleo Tourn. Damascene pale yellow flowers in the spring. plums, or damsons. This is the fort called the great damask violet , of Tours. It is feldom met with dry in the shops, and is generally

The medical effects of the damrified by fettling, is fometimes used fons and common prunes are, to abate heat, and gently loofen the belly; which they perform by lubricating the paffage and foftening the excrement. They are of confiderable fervice in coffiveness accompanied with heat or irritation. which the more stimulating cathartics would tend to aggravate: where prunes are not of themselves sufficient, their effects may be promoted by joining with them a little rhubarb or the like; to which may be added fome carminative ingredient, part of the fummer. It has an to prevent their occasioning flatuherbaceous, glutinous rough taste; lencies. Prunelloes have scarce any and hence stands recommended in laxative quality: these are mild hæmorrhagies and alvine fluxes: it grateful refrigerants, and by being has been principally celebrated as a occasionally kept in the mouth, vulnerary, whence its name; and ufefully beguile the thirst of hydro-

PRUNA SYLVESTRIA; [L.E.] Sloes; the fruit of the common black thorn or floe bush. These are looked upon as articles of the have a very rough auftere tafte, efmateria medica. They are all met pecially before they have been with in our gardens, but the shops mellowed by frosts. The juice of are supplied with the fruit mode- the unripe fruit, inspissated to a proper confiftence, is called Acacia Germanica, and usually fold in the shops for the true Egyptian acacia: it is equally aftringent with the Egyptian fort, but has more of a sharp or tartish taste, without any PRUNA GALLICA; [L. E.] thing of the sweetish relish of the other.

PSYLLIUM; [E.] pfyllium ma-

jus erectum C. B. Fleawort; the is called by Mr. Dale pulegium efeeds. This is a fort of plantane, growing wild in the warmer climates, and fometimes met with in our gardens: it differs from the common plantanes in having its stalks branched, with leaves upon them; hence it is named by Ray plantago caulifera. These seeds have been usually brought from the fouth of France; they are small, and fupposed to resemble in shape a flea, whence the English name of the plant. These seeds have a naufeous, glutinous taste: boiled in water, they yield a confiderable quantity of mucilage, which is fometimes made use of in emollient glysters and the like. Alpinus relates, that among the Egyptians this mucilage is exhibited in ardent fevers, and that it generally either loofens the belly or promotes fweat.

PTARMICA; [E.] dracunculus pratenfis, serrato folio C. B. Sneezewort, or baftard pellitory; the root. This grows wild upon heaths, and in moift flady places; the flowers, which are of a white colour, come forth in June and July. The roots have an acrid fmell, and a hot biting tafte: chewed, they occasion a plentiful discharge of saliva; and when powdered and fnuffed up the nose, provoke sneezing. These are the only intentions to which they have been usually applied.

PULEGIUM; [E. E.] pulegium latifolium C. B. mentha aquatica Sen pulegium vulgare Tourn. Pennyroyal; the leaves. This plant grows spontaneously in several parts of England, upon moift commons, and in watery places; trailing upon the ground, and striking roots at the joints. Our markets have been for fome time supplied with a garden fort, which is larger than the other, and grows upright: this

Pennyroyal is a warm, rectum. pungent herb, of the aromatic kind, fimilar to mint, but more acrid and less agreeable: it has long been held in great efteem, and not undefervedly, as an aperient and deobstruent, particularly in hysteric complaints, and suppressions of the uterine purgations. For these purpofes, the diffilled water is generally made use of, or, what is of equal efficacy, an infusion of the leaves. It is observable, that both water and rectified spirit extract the virtues of this herb by infusion, and likewise elevate them in distil-

PULEGIUM CERVINUM: [E.] pulegium angustifolium C. B. Harts pennyroyal; the leaves. This species is met with, though not very often, in our gardens. It is fomewhat stronger, yet rather more agreeable, than the foregoing, both in tafte and fmell.

PULMONARIA MACULO-SA; [E.] pulmonaria Italorum ad buglossam accedens J. B. Spotted lungwort, or fage of Jerufalem; the leaves. This is met with in gardens: the leaves are of a green colour spotted with white; of an herbaceous glutinous tafte, without any fmell. They fland recommended against ulcers of the lungs, phthifes, and other like diforders : nevertheless experience gives little countenance to these virtues, nor does the present practice expect them.

PYRETHRUM; [L. E.] pyrethrum flore bellidis C. B. Pellitory of Spain; the root. This plant, though a native of the warm climates, bears the ordinary winters of this; and often flowers fuccessively, from Christmas to May; the roots also grow larger with us than those

which the shops are usually supplied with from abroad. Pellitory root has no fensible imell; its taste is very hot and acrid, but less so than that of arum or dracunculus: the juice expressed from it has scarce any acrimony, nor is the root itfelf fo pungent when fresh as after it has been dried. Water, assisted by heat, extracts fome share of its taile, rectified spirit the whole; neither of them elevate any thing in distillation. The principal use of pyrethrum in the present practice is as a masticatory, for promoting the falival flux, and evacuating vif-cid humours from the head and neighbouring parts; by this means it often relieves the tooth-ach, fome kinds of pains of the head, and lethargic complaints.

QUERCUS; [E.] quercus cum longis pediculis C. B. Oak tree; the buds, bark, acorns and cups. All these have more or less of a manifest astringent quality; and hence stand recommended in harmorrhagies, alvine sluxes, and other praeternatural or immoderate secretions.

RANARUM SPERMA; [E.] Frogs spawn. This has been celebrated as an excellent cooler for external purposes; but practitioners have not experienced from it any peculiar effects that could deserve its being continued in use.

RAPHANUS RUSTICANUS; [L. E.] C. B. cochlearia folio cubitali fourn. Horse radish; the root. This plant is sometimes found wild about river sides, and other moiliblaces; for medicinal and culinary uses, it is cultivated in gardens; it slowers in June, but rarely perfects its seeds in this country. Horse-radish root has a quick pungent smell, and a penetrating acrid taste;

it nevertheless contains in certain veffels a fweet juice, which fometimes exudes upon the furface. By drying, it lofes all its acrimony, becoming first sweetish, and afterwards almost insipid: if kept in a cool place, covered with fand, it retains its qualities for a confiderable time. The medical effects of this root, are to slimulate the folids, attenuate the juices, and promote the fluid fecretions: it feems to extend its action through the whole habit, and affect the minutest glands. It has frequently done good fervice in some kinds of scurvies and other chronic diforders proceeding from a vifcidity of the juices, or obstruc-tions of the excretory ducts. Sy-denham recommends it likewise in dropfies, particularly those which fometimes follow intermittent fevers. Both water and rectified fpirit extract the virtues of this root by infusion, and elevate them in distillation : along with the aqueous fluid, an effential oil arises, possessiing the whole tafte and pungency of the horfe-radish. The college have given us a very elegant com-pound water which takes its name from this root.

RAPUM; [E.] rapa fatiwa ratunda C. B. Turneps. These are accounted a wholesome aperient food: the liquor pressed out from them after boiling has been sometimes used medicinally as a deobstruent and diuretic.

REALGAR, a fossil composed of arienic and sulphur, vide Arsenicum.

REGINA PRATI, vide UL-

RHABARBARUM; [L. E.] Rhubarb; the root of a plant of the dock kind, which grows spontaneously

the colds of our own climate. Two powerfully as a cathartic than any forts of rhubarb are met with in of the preparations of it. Watery from Turkey and Russia, in round- rituous ones; whilst the latter conwith a hole through the middle of matic, aftringent, and corroborating each; they are externally of a yel- virtues of the rhubarb. The dofe. low colour, and on cutting ap- when intended as a purgative, is pear variegated with lively reddish from a scruple to a dram or more. ftreaks. The other, which is lefs The Turkey rhubarb is, among efteemed, comes immediately from us, universally preferred to the the East Indies, in longish pieces, the worm holes with certain mixtures, and to colour the outfide of the damaged pieces with powder of the finer forts of rhubarb, and fometimes with cheaper materials: this is often fo nicely done, as effectually to impose upon the buyer, unless he very carefully examines each piece. The marks of good rhubarb are, that it be firm and folid, but not flinty; that it be eafily pulverable, and appear, when powdered, of a fine bright yellow colour; that upon being chewed, it impart to the spittle a saffron tinge, without proving flimy or mucilaginous in the mouth. Its tafte is fubacrid, bitterifh, and fomewhat affringent; the smell, lightly aromatic.

Rhubarb is a mild cathartic, which operates without violence or irritation, and may be exhibited with fafety even to pregnant women and children. Besides its purgative quality, it is celebrated for an aftringent one, by which it strengthens the tone of the stomach and intestines, and proves useful in diarrhese and diforders proceeding

taneously in China, and endures barb in substance operates more the shops. The first is imported tinctures purge more than the spiish pieces, freed from the bark, tain in greater perfection the aro-

East India fort, though this last is, harder, heavier, and more compact for some purposes at least, equal to than the foregoing. The first sort, the other; it is manifestly more unless kept very dry, is apt to aftringent, but has somewhat less grow mouldy and worm eaten; the of an aromatic flavour. Tinctures fecond is less subject to these incon- drawn from both with rectified veniencies. Some of the more in- fpirit, have nearly the fame tafte: dustrious artists are faid to fill up on distilling off the menstruum, the extract left from the tincture of the East India rhubarb proved confiderably the strongest. They are both the produce of the fame climate, and probably the roots of the fame plant, taken up at different feafons, or cured in a different manner.

> RHAMNUS CATHARTICUS, vide SPINA CERVINA.

RHAPONTICUM; [E.] rhabarbarum Dioscoridis & antiquorum Tourn. Rhapontic; the root of a large roundish-leaved dock, growing wild on the mountain Rhodope in Thrace, from whence it was brought into Europe, about the year 1610, by Alpinus: it bears the hardest winters of this climate, and is not unfrequent in our botanic gardens. The root of this plant (which appears evidently to have been the rhubarb, of the ancients) is by many confounded with the modern rhubarb, though confiderably different both in appearance and quality. The rhaponcic is of a dufky colour on the furface, of a loofe spongy texture; considerably from a laxity of the fibres. Rhu- more aftringent but less purgative than rhubarb; in this last intention, two or three drams are required for a dose.

RHUS OBSONIORUM, vide Sumach.

RIBESIA; [E.] ribes vulgaris fructu rubro Raii. Red currant bush; the berries. These have a cool dulco-acid taste, sufficiently agreeable both to the palate and stomach: their expressed juice, inspissated to the consistence of a rob, was formerly kept in the shops; at present, they are rather looked upon as a dietetic than a medicinal article.

ROSA DAMASCENA; [L. E.] rosa purpurea C. B. The damask This elegant flower is frequent in our gardens. Its fmell is very pleafant, and almost univerfally admired; its taste bitterish and subacrid. In distillation with water, it yields a fmall portion of a butyraceous oil, whose flavour exactly refembles that of the rofes. This oil, and the diffilled water, are very useful and agreeable cor-Hoffman throngly recommends them as of fingular efficacy for raifing the strength, chearing and recruiting the spirits, and allaying pain; which they perform without raifing any heat in the constitution, rather abating it when inordinate. Damask roses, besides their cordial aromatic virtue, which refides in their volatile parts, have a mildly purgative one, which remains entire in the decoction left after the distillation: this, with a proper quantity of fugar, forms an agreeable laxative fyrup, which has long kept its place in the shops

ROSA RUBRA; [L. E.] rofa rubra multiplex C. B. The red rofe has very little of the fragrance of the foregoing pale fort; and,

instead of its purgative quality, a mild gratefully aftringent one, especially before the flower has opened: this is considerably improved by a hasty exsecution; but both the aftringency and colour are impaired by flow drying.

ROSMARINUS; [L. E.] rofmarinus bortensis angustiore folio C. B. Rofemary; the leaves, tops and flowers. This is a native of Spain, Italy, and the fouthern parts of France, where it grows in great abundance upon dry gravelly grounds; in the like foils it thrives best with us, and likewife proves stronger in fmell than when produced in moift rich ones: this observation obtains in almost all the aromatic plants. Rosemary has a fragrant smell, and a warm pungent bitterish taste, approaching to those of lavender: the leaves and tender tops are ftrongest; next to these the cup of the flower; the flowers themselves are confiderably the weakest, but most pleasant. Aqueous liquors extract great share of the virtues of rofemary leaves by infusion, and elevate them in distillation; along with the water arifes a confiderable quantity of effential oil, of an agreeable, ftrong penetrating fmell: Pure spirit extracts in great perfection the whole aromatic flavour of the rofemary, and elevates very little of it in distillation; hence the refinous mass left upon abstracting the spirit, proves an elegant aromatic, very rich in the peculiar qualities of the plant. The flowers of rofemary give over great part of their flavour in diffillation with pure fpirit; by watery liquors, their fragrance is much injured; by beating, destroyed.

RUBIA TINCTORUM [L. E.] rubia tinclorum fativa C. B. Madder; the root. Madder is raifed

nal purpofes: it was formerly cultivated among us, in quantity, for the use of the dyers, who are at present supplied from Holland and Zealand. It has little or no fmell; a fweetish taste, mixed with a little bitterness. The virtues attributed to it are those of a detergent and aperient, whence it has been usually ranked among the opening roots, and recommended in obstructions of the viscera, particularly of the kidneys, in coagulations of the blood from falls or bruifes, in the jaundice, and beginning

dropfies.

It is observable, that this root, taken internally, tinges the urine of a deep red colour; and in the philosophical transactions, we have an account of its producing a like effect upon the bones of animals who had it mixed with their food : all the bones particularly the more folid ones, were changed, both externally and internally, to a deep red, but neither the fleshy or cartilaginous parts suffered any alteration: fome of these bones, macerated in water for many weeks together, and afterwards fleeped and boiled in spirit of wine, lost none of their colour nor communicated any tinge to the liquors. This root appears therefore to be posseffed of great fubtility of parts, whence its medical virtues feem to deferve inquiry.

RUBUS IDÆUS; [L.] rubus idæus spinosus C. B. - fruciu rubro J. B. The raspberry bush; the fruit. This shrub is common in our gardens; and has likewife, in fome parts of England, been found wild: it flowers in May, and ripens its fruit in July. Rafpberries have a pleafant fweet tafte, accompanied with a peculiarly grate-

in some of our gardens for medici- they are chiefly valued. As to their virtues, they moderately quench thirst, abate heat, strengthen the vifcera, and promote the natural excretions. An agreeable fyrup, prepared from the juice, is directed to be kept in the shops.

> RUBUS VULGARIS ; [E.] rubus vulgaris sive rubus fruelu nigro C. B. The bramble, or black berry bush; its leaves and fruit. This shrub is frequently found wild in woods and hedges. The berries have a faint tafte, without any thing of the agreeable flavour of the foregoing: the leaves are fomewhat aftringent.

RUSCUS: ruscus myrtifolius aculeatus Tourn. Butchers broom, or knee holly; the root. This is a fmall prickly plant, fometimes found wild in woods. The root has a foft fweetish taste, which is followed by a bitterifh one: it is one of the five aperient roots: and in this intention is fometimes made an ingredient in apozems and diet drinks, for opening flight obstructions of the vifcera, purifying the blood and juices, and promoting the fluid fecretions.

RUTA; [L. E.] ruta bortensis latifolia C. B. Broad-leaved rue ; the leaves and feeds. This is a fmall fhrubby plant, met with in gardens, where it flowers in June, and holds its green leaves all the winter; we frequently find in the markets a narrow leaved fort, which is cultivated by fome in preference to the other, on account of its leaves appearing variegated during the winter, with white streaks. Rue has a strong ungrateful smell, and a bitterish, penetrating taste: the leaves, when in full vigour, are extremely acrid, infomuch as to inful flavour; on account of which flame and blifter the fkin, if much handled.

handled. With regard to their medicinal virtues, they are powerfully stimulating, attenuating and detergent; and hence in cold phlegmatic habits, they quicken the circulation, diffolve tenacious juices, open obstructions of the excretory glands. and promote the fluid fecretions. The writers on the materia medica in general, have entertained a very high opinion of the virtues of this plant. Boerhaave is full of its praifes, particularly of the effential oil, and the distilled water cohobated, or re-diffilled feveral times from fresh parcels of the herb: after fomewhat extravagantly commending other waters prepared in this manner, he adds, with regard to that of rue, that the greatest commendations he can bestow upon it fall fhort of its merit: What medicine (fays he) can be more efficacious for promoting fweat and perspiration, for the cure of the hyfleric passion, and of epilepsies, and for expelling poifon? Whatever fervice rue may be of in the two last cases, it undoubtedly has its use in the others: the cohobated water, however, is not the most efficacious preparation of it (fee part II. chap xi.) An extract made by rectified spirit, contains, in a fmall compass, the whole virtues of the rue; this menstruum taking up by infusion all the pungency and flavour of the plant, and elevating nothing in distillation. With water, its peculiar flavour and warmth arise; the bitterness, and a considerable share of the pungency remaining behind.

SABINA; [L. E.] fabina folio tamarisci Dioscoridis C. B. Savin; the leaves. This is an ever-green shrub, clothed with small, somewhat prickly leaves: it does not produce fruit till very old, and hence has been generally reputed

barren. The leaves have a bitter. acrid, biting tafte; and a ftrong difagreeable smell; distilled with water, they yield an effential oil, in larger quantity (as Hoffman obferves) than any other known vegetable, the turpentine tree alone excepted. Savin is a warm, irritating, aperient medicine, capable of promoting fweat, urine, and all the glandular fecretions. The distilled oil is one of the most powerful emmenagogues; and does excellent fervice in obstructions of the uterus, or other vifcera, proceeding from a laxity and weaknefs of the veffels, or a cold fluggish indisposition of the juices.

SACCHARUM PURISSIMUM
[L. E.] double refined fugar.

SACCHARUM RUBRUM;
[L. E.] brown, or unrefined fugar.
SACCHARUM CANDUM;

[E.] fugar candy.

Sugar is the effential falt of the arundo saccharifera, a beautiful large cane, growing fpontaneously in the East Indies, and some of the warmer parts of the West, and cultivated in great quantity in our American plantations. The exprefied juice of the cane is clarified with the addition of lime water (without which it does not assume the form of a true fugar) and boiled down to a due confiftence; when. being removed from the fire, the faccharine part concretes from the groffer unctuous matter called treacle, or melaffes. This, as yet impure or brown fugar, is farther purified, in conical moulds, by spreading moift clay on the upper broad furface: the watery moisture, flowly percolating through the mais, carries with it a confiderable part of the remains of the treacly matter. This clayed fugar, imported from America, is by our refiners, diffolved in water, the folution clarified by

boiling

despumation, and after due evaporation poured into moulds: as foon as the fugar has concreted, and the fluid part drained off, the furface is covered with moift clay as before: The fugar, thus once re-fined, by a repetition of the procefs. becomes the double refined fugar of the shops. The candy, or crystals, are prepared by boiling down folutions of fugar to a certain pitch, and then removing them into a hot room, with flicks fet across the vessel for the sugar to thoot upon: these crystals prove of a white or brown colour, according as the fugar was pure or impure.

The ules of lugar as a fweet, are fufficiently well known; its medical virtues depending on this quality, we have already given fome account of it in page 59. The impure forts contain an unctuous, or oily matter, in confequence of which they prove emollient and laxative. The cryftals are most difficult of folution, and hence are propered where this foft lubricating fweet, is wanted to diffolve flowly

in the mouth.

SAGAPENUM; [L.E.] a concrete juice, brought from Alexandria, either in distinct tears, or run outwardly of a yellowith colour, internally tomewhat paler, and clear like horn, grows foft upon being handled, and flicks to the fingers; its tafte is hot and biting; the fmell difagrecable, by some refembled to that of a leek, by others to a mixture of afafortida and galbanum. Sagapenum is an ufeful aperient and deobstruent, and frequently prescribed, either alone, or in conjunction with ammoniacum, or galbanum, for opening obstructions of the viscera, and in byfferical diforders arifing from a deficiency of the mentrual purga-

boiling with whites of eggs and tions. It likewise deterges the pulmonary veffels, and proves of confiderable fervice in fome kinds of ahfimas, where the lungs are oppressed by viscid phlegm. It is most commodiously exhibited in the form of pills; from two or three grains to half a drain, may be given every night or oftner. and continued for fome time. When fagapenum is fcarce, the druggists usually supply its place with the larger and darker coloured masses of bdellium, broke into pieces; which are not eafily distinguished from it.

> SAGO [E.] This is the produce of an oriental tree, called by C. Bauhine palmam referens arbor, farimfera. The medullary part of the tree is beat, with water, and made into cakes, which are used by the Indians as bread: thefe reduced into granules, and dried, are the fago brought to us. It is moderately nutritious, though not equal to our own grain.

SAL AMMONIACUS [L. E.] Sal ammoniac. This is an artificial faline concrete, faid to be preprepared by fublimation from the foot of cow dung. It is brought to us from Egypt, in large round cakes, convex on one fide, and concave on the other; and fometimes in conical loaves: on breaking, they appear composed of needles or firiæ, running transversely. The best are almost transparent, colourless, and free from any visible impurities: those most commonly met with are of a grey yellowish colour on the outside, and fometimes black, according as the matter is more or lefs impure. The tafte of this falt is very sharp and penetrating. It distolves in twice its weight, or a little less, of water; and upon evaporating a thin fibrous plates like feathers.

Sal ammoniac appears from experiments to be composed of marine acid, united with a volatile alcali. If mingled with fixt falts, or absorbent earths, and exposed to a moderate fire, a large quantity of pure volatile falt fublimes, the acid remaining united with the intermedium: if treated in the fame manner with quicklime, an exceeding penetrating volatile spirit arifes, but no folid falt is obtained ... Exposed alone to a confiderable heat, it fublimes entire, without any alteration of its former properties: ground with certain metallic substances, it elevates some part of them along with itself, and concretes with the remainder into a mass, which readily flows into a liquor in a moist air; this appears in most respects similar to a saturated folution of the metal made directly in spirit of falt.

Pure fal ammoniac is a perfectly neutral falt, capable of attenuating viscid humors, and promoting a diaphoresis, or the urinary difcharge, according to certain circumstances in the constitution, or as the patient is managed during the operation. If a dram of the falt be taken, diffolved in water, and the patient kept warm, it generally proves fudorific; by moderate exercise, or walking in the open air, its action is deter-mined to the kidneys; a large dose gently loosens the belly, and a still larger proves emetic. This falt is recommended by many as an excellent febrifuge, and by some has been held a great fecret in the cure of intermittents. It is undoubtedly a powerful aperient, and feems to pais into the minutest veffels; and as fuch may in some cases be of service, either alone, or joined with bitters, or the bark,

part of the menfruum concretes where the latter would by itself again into long shining spicula, or produce dangerous obstructions, or aggravate those already formed. This falt is fometimes employed externally as an antifeptic, and in lotions and fomentations for cedematous tumors; as also in gar-garisms for inflammations of the tonfils, and for attenuating, and diffolving thick vifeid mucus.

> SAL CATHARTICUS AMA-RUS [L.] The bitter purging falt; extracted from the bitter liquor remaining after the cryftallization of common falt from fea water. It was first prepared as a cheap substitute to the falt of the Epfom, and other purging mineral waters, from which it does not confiderably differ, either in fensible qualities, or medical effects. We usually meet with it in minute crystals, of a snowy appearance: diffolved in water, and cryftallized afresh, it concretes, if properly managed, into larger ones, of a rectangular prifmatic figure, refembling those of the artificial cathartic falt of Glauber, to which they are fometimes substituted in the shops.

All thefe falts have a penetrating bitterish taste: they dissolve in less than an equal weight of water: in a moderate heat, they melt, bubble up into blifters, and foon change into a white spongy mass, with the loss of above half their weight: this calx taftes bitterer than the falts did at first, and almost totally diffolves again in water. The acid of these falts is chiefly the vitriolic; the basis of the natural is a fine abforbent earth; of the artificial, an alcaline fubstance approaching to the nature of lixivial falts. Hence, upon adding alcaline falts to a folution of the falt of Glauber, no change enfues : whilft the falts obtained from the purging waters, or milky upon this addition, and deposite their earth, the alcaline falt being taken up in its place.

The fai catharticus is a mild and gentle purgative, operating with fufficient efficacy, and in general with eafe and fafety, rarely occafioning any gripes, fickness, or the other inconveniencies which purgatives of the refinous kind are too often accompanied with. Eight or ten drams may be dissolved for a dose in a proper quantity of common water; or four, five, or more, in a pint, or quart of the purging waters. Thefe liquors may likewife be fo managed as to promote evacuations by the other emunctories; if the patient is kept warm, they increase perspiration; by moderate exercise in a cool air, the urinary discharge.

SAL COMMUNE [E.] Common, or alimentary falt. This is a neutral falt, differing from most others in occasioning drought when fwallowed. It dissolves in somewhat less than three times its weight of water; the folution flowly evaporated and fet to shoot, affords cubical crystals, which unite together into the form of hollow truncated pyramids. Exposed to the fire, it crackles and flies about, or decrepitates, as it is called; foon after, it melts, and appears fluid as water. A finall quantity of this falt, added to the nitrous acid, enables it to diffolve gold, but renders it unfit for dissolving filver: if a folution of filver be poured into liquors, containing even a minute portion of common falt, the whole immediately grows turbid and white; this phænomenon is owing to the precipitation of the filver.

This falt is either found in a fo-

the bittern of marine waters, grow earth, or diffolyed in the waters of the fea, or faline fprings.

1. Sal gemmæ [L. E.] Rock falt. This is met with in feveral parts of the world, but in greatest plenty in certain deep mines, of prodigious extent, near Cracow in Poland: fome is likewife found in England, particularly in Cheshire. It is for the most part very hard, fometimes of an opake fnowy whiteness, fometimes of a red. green, blue, and other colours. When pure, it is perfectly transparent and colourless; the other forts are purified by folution in water and crystallization, in order to fit them for the common uses of falt.

2. Sal marinus; [L. E.] the falt extracted from fea water and faline fprings. Sea waters yield from one fiftieth to one thirtieth their weight of pure falt: feveral fprings afford much larger quantities; the celebrated ones of our own country at Nantwych, Northwich, and Droitwich, yield (according to Dr. Brownrigg) from one fixth to fomewhat more than one third. There are two methods of obtaining the common falt from these natural folutions of it: the one, a hafty evaporation of the aqueous fluid till the falt begins to concrete, and fall in grains to the bottom of the evaporating pan, from whence it is raked out, and fet in proper veffels to drain from the brine or bittern: the other, a more flow and gradual evaporation, continued no longer than till a faline crust forms on the top of the liquor, which, upon removing the fire, foon begins to fhoot, and run into crystals of a cubical figure. In the warmer climates, both thefe processes are effected by the heat of the fun. The falts obtained by them differ very confiderably: that got by a hafty evaporation is very lid form in the bowels of the apt to relent in a moist air, and run

w n Ptl n ca fi

per deliquium: an inconvenience which the crystallized salt is not subject to: this last is likewise found better for the preserving of meat, and fundry other purposes.

Common falt checks fermentation, and prevents the putrefaction of vegetable and animal substances: and is supposed to have the same effect on the aliment in the stomach: it likewise, by gently irritating the solids, acts as a stimulus, and thus promotes the protrusion of the aliment: hence the many singular virtues ascribed to this salt, as of heating, absterging, promoting appetite, &c. It is sometimes used to check the operation of emetics, and make them run off by stool; and as a stimulus in glysters.

SALVIA [L.] falvia bortenfis major; [E.] Common fage, (the green and red forts) the leaves.

SALVIA bortensis minor; [E.] falvia minor aurita et non aurita C. B. Small sage, or sage of virtue; the leaves.

These plants are common in our gardens, and slower in May and June: the green and red common sages differ no otherwise than in the colour of their leaves; the seeds of one and the same plant produce both: the small fort is a distinct species; its leaves are narrower than the other generally of a whitish colour, and never red; most of them have at the bottom a piece standing out on each side in the form of ears. Both forts are moderately warm aromatics, accompanied with a light degree of aftringency and bitterness: the small fort is the strongest, the large most agreeable.

The writers on the materia medica are full of the virtues of fage, and derive its name from its supposed falutary qualities, (Salvia falvatrix, naturae conciliatrix—Cur

moriatur homo, cui salvia crescit in horto, &c.) Its real effects are, to moderately warm and strengthen the veffels; and hence, in cold phlegmatic habits, it excites appetite, promotes the natural fecre-tions, and proves ferviceable in debilities of the nervous fystem. The best preparation for these purposes is an infusion of the dry leaves, drank as tea; or a tincture, or extract, made with rectified spirit, taken in proper doses: these contain the whole virtues of the fage; the distilled water and essential oil, only its warmth and aromatic quality, without any thing of its roughness or bitterishness. Aqueous infusions of the leaves, with the addition of a little lemon juice, prove an useful diluting drink in febrile diforders, of an elegant colour, and fufficiently acceptable to the palate.

SALVIA SYLVESTRIS [E.] forodotis five foodium foliis falvice J. B. Wood fage; the leaves. This grows wild in woods and hedges. In finell, tafte, and medical virtues, it comes nearer to foordium than fage: it is lefs difagreeable than the former, but more fo than the latter.

SAMBUCUS; [L. E.] fambucus fructu in umbella nigro C. B. Common black-berried elder; the leaves, bark, [E.] flowers, and berries [L. E.] This is a large fhrub, frequent in hedges; it flowers in May, and ripens its fruit in September. The inner green bark of its trunk is gently cathartic: an infusion of it in wine, or the expressed juice, in the dose of half a ounce, or an ounce, is faid to purge moderately, and in finall doses to prove an efficacious deobstruent, capable of promoting all the fluid fecretions. The young buds, or rudiments of the leaves, are strongly purgative, and act with

ly accounted unfafe. The flowers mable; whilft the genuine fanguis are very different in quality: these draconis readily melts and catches have an agreeable aromatic flavour. which they give over in distillation tery liquors. It totally dissolves in proves an useful aperient medicine : it opens obstructions of the viscera, promotes the natural evacuations, and, if continued for a length of time, does considerable service in fundry chronical disorders. It is in its natural flate is of a purplish colour) tinges vinous spirits of a deep red.

SAMPSUCHUS, vide Majo-RANA.

SANDARACHA, a fosfil, composed of arsenic and sulphur, vide ARSENICUM.

SANGUIS DRACONIS [L. E.] Dragons blood, so called; a refin brought from the East Indies, either in oval drops, wrapt up in flag leaves, or in large maffes, compofed of smaller tears. The writers on the materia medica in general give the preference to the former, though the latter is not unfrequently of equal goodness: the fine drafmooth, free from any visible imag about the thickness of a man's leg, of purities, of a dask red colours a pale whitish colour. The greatest loured with the true dragons blood, to the notice of the physician. or Brazil wood, are fometimes fold in the room of this commodity: some of these dissolve, like [E.] Yellow saunders; a pale yel-

fo much violence as to be deferved- the fire, without proving inflamflame, and is not acted on by wawith water, and impart by infusion pure spirit, and tinges a large quanto vinous and spirituous domors. tity of the mentruum of a deep The berries have a sweetish, not red colour: it is likewise soluble in unpleasant taste; nevertheles, caten rexpressed oils, and gives them a in substance, they offend the aberred hue, less beautiful than that mach: the expressed juice, inspif- communicated by anchusa. This fated to the confisience of a rob, drug, in substance, has no sensible fmell or tafte; when dissolved, it discovers some degree of warmth and pungency. It is usually looked upon as a gentle astringent, and fometimes directed as fuch in extemporaneous prescription, against observable, that this juice (which feminal gleets, the fluor albus, and other fluxes: in thefe cases, it produces the general effects of refinous bodies, lightly incrassating the fluids, and fomewhat strengthening the folids.

> SANICULA; [E.] fanicula officinarum C. B. Sanicle; the leaves. This grows wild in woods and hedges, and flowers in May. The leaves have an herbaceous, roughish tafte: they have long been celebrated for fanative virtues, both internally and externally: nevertheless their effects, in any intention, are not confiderable enough to gain them a place in the present prac-

SANTALUM ALBUM [E.] White faunders; a wood brought gons blood of either fort lireaks from the East Indies, in billets, which changes upon being powders part of it, as met with in the thops, ed into an elegant bright crimfon. has no finell or tafte, or any fenfi-Several artificial compositions, co- ble quality that can recommend it

CITRINUM SANTALUM gums, in water: others crackle in lowish wood brought from the East Indies ;

ndies; of a pleasant smell, and a ther all that is fold among them for nied with an agreeable kind of pun- that kind: according to the acmedical purposes, though at pre- wood; the distinguishing character fent in difuse. Distilled with wa- of which is, that it imparts its coter, it yields a fragrant essential lour to common water. oil, which thickens, in the cold, into the confistence of a balfam. ing committed to distillation, the It is a small, light, chaffy seed,

SANTALUM RUBRUMIL. E.] Red faunders; a wood brought from the East Indies, in large billets, of a compact texture, a dull red, almost blackish colour on the outfide, and a deep brighter red within. This wood has no manifest fmell, and little or no taste. It has been commended as a mild aftringent, and a corroborant of the nervous fyllem; but these are qualities that belong only to the

yellow fort.

fpirit, of an elegant blood red. There is scarce any oil, that of lavender excepted, to which it com- fort intended for internal nie. This, municates its colour. Geoffroy, triturated with oily, or refinous and others, take notice, that the matters, renders them foliable in Brazil woods are fometimes fubffi- water, and hence becomes an usetuted to red faunders; and the col- ful ingredient in pills composed of lege of Bruffels are in doubt whe- refins, promoting their diffolation

bitterish aromatic taste, accompa- faunders is not really a wood of gency. This elegant wood might count which they have given, their undoubtedly be applied to valuable faunders is certainly the Brazil

SANTONICUM [E.] Worm Digested in pure spirit, it imparts feed; the produce of a species of a rich yellow tincture; which be- wormwood growing in the Levant. fpirit arifes, without bringing over any thing confiderable of the fla-vour of the faunders. The refi-duum contains the virtues of fix fmell, and a very bitter tafte. These times its weight of the wood. Hoff- feeds are celebrated for anthelminman looks upon this extract as a tic virtues (which they have in medicine of fimilar virtues to am- common with other bitters) and bergris; and recommends it as an are fometimes taken in this intenexcellent reflorative in great debi- tion, either along with melasses, or candied with fugar: their unpleafant taste renders the form of a powder or decoction inconvenient. They are not very often met with genuine in the shops.

> SAPO DURUS; [L.] Japo albus Hispanicus [E.] White Spanish

> SAPO MOLLIS; [L.] Common foft foap

SAPO NIGER; [E.] Black foft foap.

Soap is composed of expressed The principal use of red faun- vegetable oils, or animal fats, unitders is as a colouring drug. It ed with alcaline lixivia. The first communicates a deep red to recti- fort, or white hard foap, is made fied spirit, but gives no tinge to with the finer kinds of oil olive; aqueous liquors: a small quantity the common soft fort, with coarser of the refin, extracted by means of oils, fat, tallow, or a mixture of fpirit, tinges a large one of fresh all these; and the black (as is faid) with train oil.

The purer hard foap is the only

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in the stomach, and union with the animal stuids: Boerhaave was a great admirer of soap; and in his private practice seldom prescribed any resinous pills without it; unless where an alcalescent, or putrid state of the juices forbad its use. From the same quality, soap like-wise seems well sitted for dissolving such oily, or unctuous matters, as it may meet with in the body attenuating viscid juices, opening obstructions of the viscera, and deterging all the vessels it passes through. It is likewise a powerful, menstruum for the human calculus: a solution of it in lime water is one of the strongest dissolvents that can be taken with safety into the stomach; the virtue of this composition is considerably greater than the aggregate of the dissolving powers of the soap and lime water when unmixed. See the Edinburgh essay, abr. vol. i.

The foft foaps are more penetrating and acrimonious than the hard. The only medical use of these is for some external purposes.

SAPONARIA; [E.] saponaria major lævis C. B. Soapwort, or bruifewort; the herb and root. This grows wild, though not very common, in low wet places, and by the fides of running waters; a double flowered fort is frequent in our gardens. The leaves have a bitter, not agreeable tafte; agitated with water, they raife a fapona-ceous froth, which has nearly the same effects with folutions of foap itself in taking out spots from cloths, and the like. The roots tafte fweetish, and agreeably pungent; and have a light fmell like those of liquorice: digested in rectified spirit they yield a strong tincture, which loses nothing of its talle or flavour in being inspissated to the confidence of an extract. This

in the stomach, and union with the animal stuids: Boerhaave was a great admirer of soap; and in his private practice seldom prescribed any resinous pills without it; unless where an alcalescent, or putrid thate of the juices forbad its use. From the same quality, soap likewise seems well fitted for disloving such college of the properties of the promises, from its sensitive qualities, to be a medicine of considerable utility: it is greatly essembly the German physicians as an aperient, corroborant, and sudorine: and preferred by the college of with the wife seems well fitted for disloving fuch oily, or unctuous matters, as it

SARCOCOLLA; [L. E.] a concrete juice, brought from Perfia and Arabia, in finall, whitish, yellow grains, with a few of a reddish, and sometimes of a deep red colour, mixed with them; the whitest tears are preferred, as being the freshest: its taste is bitter, accompanied with a dull kind of sweetness. This drug disolves in watery liquors, and appears to be chiesly of the gummy kind, with a small admixture of resinous matter. It is principally celebrated for conglutinating wounds and alcers (whence its name σαρκοκόλλη, sless flesh glue) a quality, which neither this, nor any other drug, has a just title to.

SARSAPARILLA; [L. E.] a root brought from the Spanish West Indies. It consids of a great number of long firings hanging from one head: the long roots (the only part made use of) are about the thickness of a goose quill, or thicker, flexible, composed of fibres running their whole length, fo that they may be stript into pieces from one end to the other: they have a glutinous, bitterish, not ungrateful taste; and no smell. This root was first brought into Europe by the Spaniards, about the year 1563, with the character of a specific for the cure of the lues venerea, which made its appearance a little before that time, and likewife of feveral obflinate chronic diforders. What-

ever

ever good effects it might have produced in the warmer climates, it proved unfuccefsful in this, infomuch that many have denied it to have any virtue at all. It appears however from experience, that though greatly unequal to the character which it bore at first, it is in some cases of considerable use as a sudorific, where more acrid medicines are improper. The best preparations are a decoction and extract made with water; a decoction of half an ounce of the root, or a dram of the extract which is equivalent thereto, may be taken for a dose.

SASSAFRAS; [L. E.] the root of a large American tree (arbor ex Florida ficulneo folio C. B.) brought to us in long straight pieces, very light, and of a spongy texture, covered with a rough fungous bark; outwardly of an ash colour, in-wardly of the colour of rusty iron. It has a fragrant fmell, and a fweetish, aromatic, subacrid taste: the bark taftes much stronger than any other part; and the fmall twigs stronger than the large pieces. As to the virtues of this root, it is a warm aperient and corroborant; and frequently employed, with good fuccels, for purifying and fweetening the blood and juices. For these purpofes, infusions made from the rasped root or bark, may be drank as tea. In some constitutions, these liquors, by their fragrance, are apt on first taking them, to affect the head: in fuch cases, they may be advantageously freed from their flayour by boiling; a decoction of fasfafras, boiled down to the confiftence of an extract, proves fimply bitterish and subastringent. Hosfman affures us, that he has frequently given this extract, to the quantity of a scruple at a time, with remarkable fuccels, for strengthen-

ing the tone of the viscera in cachexies; as also in the decline of intermittent fevers, and in hypochondriacal spasms. Sassafras yields in distillation an extremely fragrant oil, of a penetrating pungent taste, so ponderous (notwithstanding the lightness of the drug itself) as to sink in water. Rectified spirit extracts the whole taste and smell of sassafras: and elevates nothing in evaporation; hence the spirituous extract proves the most elegant and efficacious preparation, as containing the virtues of the root entire.

SATUREIA: [E.] fatureia bortensis sive cunila sativa Plimi C. R. Summer savory; the leaves. This herb is raised annually in gardens for culinary purposes. It is a very pungent, warm, aromatic; and affords in distillation with water. a subtile essential oil, of a penetrating smell, and very hot, acrid taste. It yields little of its virtues by insussion to aqueous liquors: rectified spirit extracts the whole of its taste and smell, and elevates nothing in distillation.

SATYRION MAS; [E.] orchis morio mas foliis maculatis C. B. This plant is frequent in shady places and moilt meadows: each plant has two oval roots, of a whitish colour, a viscid sweetish taste, and a faint unpleafant fmell. They abound with a glutinous slimy juice. With regard to their virtues, like other mucilaginous vegetables, they thicken the thin cerous humours, and defend the folids from their acrimony; they have also been cecebrated, though on no very good foundation, for analeptic and aphrodifiac virtues; and frequently made use of in these intentions.

SALEP, a celebrated reftorative among the Turks, is probably the prepared root of certain plants of

the orchis kind. This drug, as fometimes brought to us, is in oval pieces, of a yellowish white cofour, fomewhat clear and pellucid, very hard and almost horny, of little or no fmell, and taffing like gum tragacanth. Satyrion root, boiled in water, freed from the Ikin, and afterwards fulpended in the air to dry, gains exactly the fame appearance: the roots thus prepared diffolve in boiling water, into a mucilage. Geoffrov, who first communicated this preparation of orchis, recommends it in confumptions, in bilious dyfenteries, and disorders of the breast proceeding from an acrimony of the juices.

SAXIFRAGA ALBA; [E.] faxifraga alba radice granulosa J. B. White flowered saxifrage; the leaves, and the roots improperly called (from their confifting of little grains) feeds.

SAXIFRAGATVULGARIS: [E.] Jeses pracense nostras Raii. Meadow faxifrage; the leaves and feeds. These herbs grow wild, the first in dry fandy grounds, the fecond in helds and meadows : the first is not very common, and hence its leaves and roots have been generally supplied by the leaves and feeds of the fecond. Neither of them are at present in much effeem, notwithstanding the aperient, diuretic and lithontriptic virtues formerly attributed to them : they have a naufcous bitterifh tafte, with little or no fmell.

SCABIOSA; [E.] fcabiofa ma-Raii. Scabious; the leaves. This is has little dependance on it.

SCAMMONIUM ; [L. E.] Scammony: a concrete juice extracted from the roots of a large climbing plant growing in the Afiatic Turkey. The best comes from Aleppo, in light, fpongy masses, easily friable, of a shining ash colour verging to black; when powdered, of a light grey or whitish colour; an inferior fort is brought from Smyrna, in more compact, ponderous pieces, of a darker colour, and full of fand and other impurities. This juice is chiefly of the refinous kind : rectified spirit dissolves five ounces out of fix, the remainder is a mucilaginous fubflance mixed with drois : proof fpirit totally diffolves it, the impurities only being left. It has a faint unpleasant smell; and a bitterish, somewhat acrimonious tafte.

Scammony is an efficacious and firong purgative. Some have condemned it as unfafe, and laid fundry ill qualities to its charge; the principal of which is, that its operation is uncertain, a full dofe proving fometimes ineffectual, whilst at others a much fmaller one occafions dangerous hypercatharies. This difference however is owing entirely to the different circumstances of the patient, and not to any ill quality, or irregularity of operation, of the medicine: where the intestines are lined with an excessive load of mucus, the scammony passes through, without exerting itself upon them; where the natural mucus is deficient, a fmall dose of this or any other refinous cathartic, irritates and inflames. jor communior birfuta, folio laciniato Many have endeavoured to abate the force of this drug, and correct a rough hairy plant, growing wild its imaginary virulence, by exin palture grounds; of a naufeous poling it to the fume of fulphur, bitterish taste. It stands recommend- dissolving it in acid juices, and the ed as an aperient, sudorisic, and ex- like: but this could do no more pectorant; but the present practice than destroy as it were a part of the medicine, without making any alterain fubstance, judiciously managed, emetic, and fometimes purgative. stands not in need of any corrector: if triturated with fugar or with al- is where the primæ viæ abound monds, as we have formerly recommended for other refinous purgatives, it becomes sufficiently safe Dr. Wagner, (in his clinical obserand mild in operation. It may vations recommends it given along likewise be conveniently dissolved, by trituration, in a firong decoction of liquorice, then poured off feveral cures which he performed from the feces : the college of Wirtemberg affures us, that by this treatment it becomes mildly purgative, without being attended with twelve grains. unn calant

SCHŒNANTHUS, vide Jun-CUS ODORATUS.

SCILIA; [D. E.] filla radice alba C. B. wel filla onlears radice rubra C. B. The fquil, or fea-onion; its root. This is a fort of onion, growing fpontaneously upon dry fandy shores in Spain and the Levant, from whence the root is annually brought into Europe. It should be chosen plump, found, fresh, and full of a clammy juice: fome have preferred the red fort, and others the white, though neither deferves the preference to the other; the only difference perceivable betwixt them, is that of the colour; and hence the college allow both to be used promiseuously. This root is to the tafte very naufedus, intenfely bitter and acrimonious: much handled, it exulcerates the fkin. With regard to its medical virtues, it powerfully fliviscid juices; and by these qualities date. promotes expectoration, urine, and (if the patient is kept warm) fweat: - SCLAREA, vide HORMINUM.

alteration in the rest. Scammony if the dose is considerable, it proves The principal use of this medicine with mucous matter, and the lungs are oppressed by tenacious phlegm. with nitre : in hydropical fwellings and in the nephritis; and mentions by exhibiting from four to ten grains of the powder for a dofe, mixed with a double quantity of nitre : he fays that thus managed, five to the palate. The common for purges. The most commodious dose of scammony is from three to form for the exhibition of twelve grains. is that of a bolus or pill: liquid forms are to molt people too offensive, though these may be rendered less disagreeable, both to the palate and flomach, by the addition of aromatic distilled waters, This root yields the whole of its virtues, both to aqueous and vinous mentrua, and likewife to vegetable acids. Cartheufer relates, that these last somewhat abate its bitterness, and heighten its acrimony; that rectified fpirit extracts extremely little of either; and that alcaline falts defiroy both. It gives over nothing of its virtues in diffillations either with water or fpirit.

SCINCUS; [L. E.] The fkink: a kind of small lizard, brought dry from Egypt. It flands recommended as a great restorative : whatever virtues it may have as used fresh by the Egyptians, it has none as it comes to us, and ferves to ufelefsly mulates the folids, and attenuates increase the articles of the mithri-

SCOLO-

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The English Dispensatory improved. Part I 204 SCOLOPENDRIUM, vide Lin- unpleasant smell, and a somewhat

GUA CERVINA.

SCORDIUM ; [L. E.] chame. drys palustris canescens Tourn. Water germander; the leaves. This is a small, somewhat hairy plant, growing wild in fome parts of England, though not very common; the shops are generally supplied from gardens. It has a bitter taste, and a strong disagrecable fmell. Scordium is of no great Scordium is of no great effeem in the present practice, notwithstanding the deobstruent, diuretic, and sudorific virtues which it was formerly celebrated for. It enters fix officinal compositions, and gives name to three of them, though not the most valuable of their ingredients.

SCORZONERA; [E.] fcorzo-nera latifolia finuata C. B. Vipers grass; the root. Scorzonera is met with only in gardens. The roots abound with a milky juice, of a bitterish subacrid taste; and hence may be of some service, for strengthening the tone of the vifcera, and promoting the fluid fe-cretions. They were formerly celebrated as alexipharmacs, and for throwing out the measles and smallpox; but have now almost entirely loft their character.

SCROPHULARIA VULGA-RIS; [E.] ferophularia nedosa fætida C. B. Figwort: the leaves and root. This herb grows wild in woods and hedges: the roots are of a white colour, full of little knobs or protuberances on the furface: this appearance gained it formerly fome repute against scrophubitter disagreeable taste.

SCROPHULARIA AQUATI-CA MAJOR; [E.] scrophularia maxima radice sibrola J. B. Greater water figwort; the leaves. This is a large plant, met with chiefly in the fides of rivers. The leaves have a bitter tafte, and an ungrateful fmell: they are principally celebrated, though on no very good grounds, as a corrector of iena. See the article SENA.

SEBESTEN; [E] myxa five febesten J. B. A fort of plum, brought half dried from the East Indies: it is of a dark or blackish brown colour, with whitish or ash coloured cups: the flesh flicks close to the stone, which contains some-times one and sometimes two kernels. This fruit has a fweet, very glutinous tafte; and hence has been employed for foftening acrimonious humours, in fome kinds of hoarfeness, and in coughs from thin sharp defluxions. At prefent, it is not often met with in the shops.

SECALE; [E.] focale hybernum vel majus C. B. Rye; the feeds. These are little regarded as an article of the materia medica: as food, they are accounted more detergent than most other kinds of grain.

SEDUM MAJUS : [E.] fedum majus vulgare C. B. Greater house-leek; the leaves. This is a low, fleshy-leaved plant, growing on old walls and on the tops of houses. It flands recommended as a cooler, though its fensible qualities discover no great foundation for any virtue lous disorders, and the piles; and of this kind; the taste is herba-from hence it received its name: ceous, with a slight degree of punbut modern practitioners expect no gency. It is remarkable of this fuch virtues from it. It has a faint plant, that its juice purified by fil-

tration (when it appears of a di- being apt to gripe, and its naufeons beautiful white, light coagulum, like the finer kinds of pomatum: this proves extremely volatile; freed from the aqueous phlegm, and exposed to the air, it in a very little time totally exhales. From hence it is concluded (in the medicor, Silefiac. fatyræ) that houseleek contains a volatile alcaline falt : but there are many fubfiances besides these falts which coagulate with spirit of wine.

SEMPERVIVUM, vide SE-DUM.

SENA; [L. E.] the leaves of a fhrubby plant (fena Alexandrina fohis acutis G. B.) cultivated in Persia, Syria, and Arabia; from whence they are brought, dried and picked from the stalks, to Alexandria in Egypt; and thence imported into Europe. They are of an oblong figure, sharp pointed at the ends, about a quarter of an inch broad, and not a full inch in length, of a lively yellowish green colour, a faint not very disagreeable smell, and a subacrid, bitterish, nauseous tafte. Some inferior forts are brought from Tripoli and other places: these may be easily distinguished by their being either narrower, longer, and sharper pointed; or larger, broader, and round pointed, with fmall prominent veins; or large and obtufe, of a fresh green colour, without any yellow cast. Sena is a very ufeful cathartic, operating mildly, and yet effectually; and if judiciously dosed and managed, rarely occasioning the ill confequences which too frequently follow the exhibition of the stronger purges. The only inconveniencies complained of in this drug are, its fena brought to us, are by the col-

lute yellowish colour) upon the ad- flavour. The griping quality demixture of an equal quantity of pends upon a refinous substance. rectified spirit of wine, forms a which like the other bodies of this class, is naturally disposed to adhere to the coats of the intestines: the more this refin is divided by fuch matters as take off its tenacity, the less adhesive, and confequently the less irritating and grip-ing it will prove; and the less it is divided, the more griping : hence fena exhibited by itself, or infufions made in a very fmall quantity of fluid, gripe feverely, and purge less than when diluted by a large portion of fuitable menftruum, or divided by fixt alcaline falts, foaps, or the like. The ill flavour of this drug is faid to be abated by the greater water figwort : but we cannot conceive that this plant, whose fmell is manifestly fetid, and its tafte naufeous and bitter, can at all improve those of fena: others recommend bohea tea, though neither has this any confiderable effect. The smell of sena resides in its more volatile parts, and may be discharged by lightly boiling infufions of it made in water : the liquor thus freed from the peculiar flavour of the fena, may be eafily rendered grateful to the tafte by the addition of any proper aromatic tincture or distilled water. college have given fome very elegant forms for the exhibition of this medicine, which may be feen in part ii. chap. xiii. The dose of sena in fubstance is from a scruple to a dram; in infusion from one to three or four drams.

It has been customary to reject the pedicles of the leaves of fena as of little or no use; experience however has shewn, that they are not much inferior in efficacy to the leaves themselves. The pods, or feed veffels, met with among the

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but proportionably less purgative.

SENECIO, vide ERIGERUM.

SENEKA : [E.] Senecka rattle fnake root; the root of a species of polygala, which grows spontaneously in Virginia, and bears the winters of our own climate. This root is usually about the thickness of the little finger, variously bent and contorted, and appears as if composed of joints, whence it is supposed to refemble the tail of the animal whose name it bears; a kind of membranous margin runs on each fide, the whole length of the root. Its tafte is acrid, bitterish, and somewhat nauseous.

This root is not at prefent much known in the shops. The Indians are faid to prevent the otherwise fatal effects which follow from the bite of the rattle fnake, by giving it internally, and applying it externally to the wound. It has of late been firongly recommended in pleurifies, peripneumonies, and other inflammatory distempers; in these cases, Lemery, du Hamel and luffieu vouch for its good fuccefs (See the French memoirs for the years 1738, 1739.) Its more immediate effects are those of a diuretic, diaphoretic, and cathartic, fometimes it proves emetic: the two last operations may be occafionally prevented by giving the root in fmall dofes, along with aromatic fimple waters, as that of cin-The usual dose of the namon. powder is thirty grains or more.

Some have likewife employed this root in hydropic cases, and not without faccess: Bouvart (in the memoirs abovementioned, 1744.) relates examples of its occasioning a plentiful evacuation by flool, urine and perspiration, and by this

lege of Bruffels preferred to the means removing the difease, afterleaves: they are less apt to gripe, the common diuretics and hydragogues had failed : where this medicine operates as a cathartic, it generally proves fuccefsful; if it acts by liquefying the blood and juices, without occasioning a due discharge, it should either be abstained from, or affisted by proper additions.

> SERICUM et folliculi bombycis [E.] Silk and filkworms bags. These are scarce ever made use of for any medicinal purposes. In their crude flate they are certainly very infignificant; though if burnt in a close vessel, after the same manner as sponge, they would undoubtedly prove a medicine of fimilar, and probably of superior virtue. They yield a larger quantity of volatile falt, than any other animal substance we know of.

SERPENTARIA VIRGINI-ANA; [L. E.] Virginian fnakeroot; the root of a species of aristolochia, growing in Virginia and Carolina. It is a fmall, light, bushy root, confifting of a number of ftrings or fibres matted together, iffuing from one common head; of a brownish colour on the outfide, and paler or yellowish within. It has an aromatic fmell, like that of valerian, but more agreeable; and a warm, bitterifh, pungent tafte. This root is a warm diaphoretic and diuretic : it has been greatly celebrated as an alexipharmac, and efteemed one of the principal remedies in malignant fevers and epidemic difeafes. In these intentions, it is given in subflance from ten to thirty grains, and in infusion to a dram or two. Both watery and spirituous menstrua extract its virtue by infusion, and elevate some share of its flavour in diffillation: along with the

oil arises.

SERPYLLUM; [E.] ferpyllum culgare minus C. B. Mother of thyme; the herb. This is a fmall creeping plant, common on heaths and dry pasture grounds. Its taste, fmell, and medical virtues are fimilar to those of thyme, but weaker.

SESAMUM; [E.] digitalis orientalis sesam dicia Tourn, its seeds, called oily purging grain. This plant is cultivated in the eaftern countries, from whence the feeds are brought to us. They very properly deferve the name of oily, as they yield upon expression a larger quantity of oil, than almost any other known vegetable. The appellation purging, they have no title to: among the Indians, they are used as food.

SESELI VULGARE; [L. E.] ligusticum quod seseli officinarum C. B. Common hartwort; the feeds.

SESELI MASSILIENSE; [E.] seseli Massiliense ferulæ folio C. B. Italian hartwort; the feeds.

These plants grow spontaneously in the warmer climates; amongst us, they are met with only in the gardens of the curious. The feeds and roots of both forts have an agreeable aromatic fmell and tafte; and in this light might be occasionally employed, though at present they are in difuse.

SESELI PRATENSE, vide SAXIFRAGA VULGARIS.

SIGILLUM SALOMONIS [E.] polygonatum latifolium vulgare C. B. Solomon's feal; the root. This grows wild in woods, but is not LINUM. very common; the root has feve-

water a small portion of essential ral joints, with some flat circular depressions, supposed to resemble the stamp of a feal. It has a fweetish, glutinous, subacrid taste. As to its virtues, practitioners do not now expect any confiderable ones from it, and pay very little regard to the vulnerary qualities which it was formerly celebrated

> SILER MONTANUM, vide SESELI VULGARE.

SINAPI; [L. E.] sinapi rapi folio C, B. Mustard; the seeds. This plant is fometimes found wild, but for culinary and medicinal ufes is cultivated in gardens. Mustard, by its acrimony and pungency, simulates the folids, and attenuates viscid juices; and hence stands defervedly recommended for exciting appetite, promoting digestion, increasing the fluid secretions, and for the other purposes of the acrid plants called antifcorbutic. It imparts its tafte and finell in perfection to aqueous liquors, whilst rectified foirit extracts extremely little of either: the whole of the pungency arises with water in distillation. Committed to the prefs, it yields a confiderable quantity of a foft infipid oil, perfectly void of acrimony; the cake left after the expression is more pungent than the mustard was at first. These feeds are fometimes employed externally as a flimulant; two compositions for this intention in the Edinburgh dispensatory receive name from them.

SISON, vide AMOMUM VUL-GARE.

SMYRNIUM, vide HIPPOSE-

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SOLANUM VULGARE: [E.] folanum bortense seu vulgare 7. B. Nightshade, the leaves and berries. SOLANUM LIGNOSUM: [E.] folanum feandens seu dulcamara C. B. Bitter fweet: the leaves and roots. These plants are found wild, the first by road sides, the other in moift watery places. In external appearance, they differ confiderably from one another: whether they are fimilar in quality, or what are the real qualities of either, is very doubtful; nor is it certain, that they are even fafe. There are examples of fowls having been killed, and children thrown into convulfions. by the berries of the first fort. It is supposed, that the leaves are refrigerant, and the roots diapho-

SOLANUM LETHALE; [E.] folanum melanocerafus C. B. Deadly nightshade; the leaves. This plant grows wild on waste grounds in many parts of England: it has large sharp-pointed leaves, notched about the edges, of a fad green colour, with long hollow flowers of a dull purplish, standing among them at the joints. The leaves are faid to he of fervice, externally, against carcinomatous ulcers; and taken internally, to be virulently narcotic. and to disorder the senses. The berries have this last effect in an eminent degree; infomuch that the plant is hence distinguished, by botanists, by the appellations fomniferum, furiosum, maniacum, lethale.

SOLDANELLA, vide BRAS-

SOPHIA CHIRURGORUM; [E.] nafturtium sylvestre tenuissime divisum C. B. Flixweed; the seeds. This plant had formerly a great character as a vulnerary, and for stopping fluxes; but its essents have

not been considerable enough to continue it in practice.

SPERMA CETI; [L. E.] improperly fo called; an uncluous flaky substance, of a snowy whiteness, a fost butyraceous taste, without any remarkable fmell: prepared from whale oil by boiling and purifying it with alcaline lixi-The virtues of this concrete are those of a mild emollient : it is of confiderable use in pains and erofions of the intestines, in coughs proceeding from thin fharp deflux-ions, and in general in all cases where the folids require to be relaxed, or acrimonious humours to be foftened. For external purpofes, it readily diffolves in oils; and for internal ones, may be united with aqueous liquors into the form of an emulfion, by the mediation of almonds or the yolk of an egg. Su. gar does not render it perfectly mifcible with water; and alcalies. which change other oils and fats into foap, have little effect upon sperma ceti. This drug ought to be kept very closely from the air, otherwife its white colour foon changes. into a yellow; its mild unctuous tafte, into a rancid and offenfive After it has fuffered this disagreeable alteration, both the colour and quality may be recovered again by steeping it in alcaline liquors, or boiling it in a fufficient quantity of spirit of wine.

SPICA VULGARIS, vide Las vendula angustifolia.

SPICANARDI, vide NARDUS INDICA.

SPINA ALBA; [E.] mespilus apii soliis, sylvestris, spinosa, sove oxyacantha C. B. White-thorn, or haw-thorn; its leaves and flowers. The reputation which these formerly

merly had, in nephritic and calculous complaints, still continues them in most catalogues of the materia medica, though common practice has long rejected them as infignificant.

SPINA CERVINA; [L. E.]

chamnus catharticus C. B. Buckthorn; the barries. This tree, or bush, is common in hedges: it flowers in June, and ripens its fruit in September or the beginning of October. In our markets, the fruit of fome other trees, as the frangula or black berry bearing alder, and the cornus famina or dog-berry tree, have of late years been frequently mixed with, or fubilituted for, those of buckthorn. This abuse may be discovered by opening the berries: those of buckthorn have almost always four feeds, the berries of the frangula two, and those of the cornus famina only one. Buckthorn berries, bruifed on white paper, give it a green tincture, which the others do not. Those, who fell the juice to the apothecaries, are faid to mix with it a large proportion of water.

Buckthorn berries have a faint difagreeable fmell, and a naufeous bitter taffe. They have long been in confiderable efteem as cathartics; and celebrated in dropfies, rheumatifms, and even in the gout; though in these cases, they have no advantage above other purgatives, and are more offensive, and operate more churlishly, than many which the shops are furnished with: they generally occasion gripes, sickness, dry the mouth and throat, and leave a thirst of long duration. The dofe is about twenty of the fresh berries in fubstance, and twice or thrice this number in decoction, an onnce of the expressed juice, or a dram of the dried berries. A fyrup prepared from the juice is kept in the

thops; in this preparation, the naufeous flavour of the buckthorn is fomewhat alleviated, by the fugarand the addition of aromatics.

SPIRITUS VINOSUS REC-TIFICATUS; [L.] Rectified fpirit of wine: " a spirit distilled from wine or other fermented liquors, purified as much as possible from " its fetid finell, and the phlegm " that arifes with it in the first di-" fillation." [L.] This purification is effected by repeating the difillation in a very gentle heat, with certain additions to keep down the phlegm and the grofs oil in which the ill flavour refides (fee part ii. chap xii.) Thefe fpirits, whatever vegetable subjects they have been produced from, are, when perfectly pure, one and the fame. They have a hot pungent tafte, without any particular flavour : they readily catch flame, and burn entirely away, without leaving any marks of an aqueous moisture behind: diffilled by a heat less than that of boiling water, they totally arife, the last runnings proving as flavourleis and inflammable as the first : they diffolve effential vegetable oils and refins into an uniform tranfparent fluid. Thefe fpirits are the lightest of almost all known liquors: expressed oils, which fwim upon water, fink in thefe to the bottom; a measure which contains ten ounces by weight of water, will hold little more than eight and a quarter of pure spirit.

The uses of vinous spirits as menstrua for the virtues of other medicines we shall see hereaster, and in this place consider only their own. Pure spirit coagulates all the study of animal bodies, except urine, and hardens the folid parts. Applied externally, it strengthens the vessels, thickens the juices in them, and thus powerfully restrains.

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hæmorrhagies. It instantly contracts the extremeties of the nerves it touches, and deprives them of fense and motion; by this means easing them of pain, but at the same time destroying their use. Hence employing spirituous liquors in fomentations (notwithstanding the specious titles of vivifying, heating, restoring mobility, resolving, diffipating, and the like, ufually attributed to them) may fometimes be attended with unhappy confequences. Thefe liquors, received undiluted into the stomach, produce the fame effects, thickening the fluid and contracting all the folid parts which they touch, and deflroying, at least for a time, their use and office: if the quantity is confiderable, a palfy or apoplexy follows, which end in death. Taken in small quantity, and duly diluted, they brace up the fibres, raife the spirits, and promote agility: if farther continued, the fenfes are difordered, voluntary motion defroyed, and at length the fame inconveniences brought on as before. Vinous spirits, therefore, in fmall dofes, and properly diluted, may be applied to uleful purposes in the cure of diseases; whilst in larger ones, or if their use is long continued, they act as a poison of a particular kind.

SPIRITUS VINOSUS TENUIOR; [L.] Proof fpirit: "the
"fame spirit, containing an admix"ture of an equal quantity of wa"ter. The best proof spirit is that
"distilled from French wine; but
"for common uses may be em"ployed the spirit drawn from me"lasses or the syrupy matter that
"runs from sugar in the purisica"tion, commonly called melasses spirit." [L.] The spirits usually
met with under the name of proof,
are those distilled from different fermented liquors, freed from their

phlegm and ill flavour only to a certain degree. Their purity with regard to flavour may be eafily judged from the tafte, especially if the fpirit be first duly diluted. It were to be wished, that we had a certain standard with regard to their ftrength, or the quantity of water contained in them; a circumstance which greatly influences fundry medicinal preparations, particularly the tinctures: for as pure spirit dissolves the refin and volatile oil, and water only the gummy and faline parts of vegetables, it is evident that a variation in the proportions wherein these are mixed, will vary the diffolving power of the menstruum, and confequently the virtue of the preparation. The common methods of estimating the quantity of phlegm contained in these spirits, are liable to uncertainty: it should therefore feem necessary, for the nicer purpofes and where a perfectly flavourless proof spirit is required, to make use of the pure rectified spirit, mixed with a certain determined proportion of water; equal quantities of these liquors, whether taken by weight or measure, compose a spirit fomewhat weaker than what has been univerfally looked upon as proof: the exact proportions are, one hundred parts by weight of pure spirit, and eighty-fix of water.

SPONGIA; [L. E.] Sponge; a foft, light, very porous and compressible substance, readily imbibing water, and distending thereby. It is found adhering to rocks, particularly in the Mediterranean sea, about the islands of the Archipelago. It is generally supposed to be a vegetable production: nevertheles some observations lately made by Jussieu, give room to suppose that it is of animal origin. Chemical experiments savour this supposition; analysed, it yields the

fame principles with animal fubflances in general: the volatile falt is in larger quantity than we have obtained from any animal matter except the bags of the filkworm. On this falt which is generated or formed by fire, depend the virtues of the officinal fpongia uffa. (See part ii. chap. i.) Crude fponge, from its property of imbibing and diffending by moisture, is sometimes made use of as a tent for dilating wounds and ulcers.

STANNUM; [L. E.] Tin is the lightest and easiest of suspenses so brittle as to fall in pieces by a blow; and by agitation (when just ready to melt) into a powder; hence the officinal method of pulverising this metal, to be described in its place. The proper menstruum of tin is the marine acid or aqua regis; vegetable acids likewise disfolve it in considerable quantity, though it has long been supposed not to be at all soluble in them, unless previously well calcined.

With regard to the virtues of this metal, it was formerly ac-counted a specific in diforders of the uterus and lungs; a calx of tin and antimony, is still retained in fome dispensatories under the name of an antihectic : but these are virtues, to which it certainly has little claim. It has of late been celebrated, on better foundation, as an anthelmintic; and faid to destroy fome kinds of worms which elude the force of many other medicines: the cause of this effect is, perhaps, very different from what may be fuspected, an admixture of a portion of arfenic.

Tin has the greatest affinity with arsenic of all the metals; infomuch that when once united therewith,

the arfenic, notwithstanding its volatility in other circumftances, cannot be totally expelled by a vehement fire. Almost all the ores of tin contain more or less of this poifonous mineral, which is not entirely feparable in the common proceffes by which the ores are run down or the metal farther purified. Filings of tin held in the flame of a candle, emit a thick fume fmelling of garlic; which fmell is univerfally held, in mineral fubstances, to be a certain criterion of arfenic. Henck el has discovered a method of separating actual arienic from tin: this is effected by folution in aqua regis and crystallization: Mr. Margraff has (in a late volume of the Berlin memoirs) given a farther account of this process; and relates, that from the tins usually reputed pure, he has obtained one eighth their weight of crystals of arsenic.

STAPHYSAGRIA; [E.] delphinium platani folio Tourn. Stavefacre; the feeds. These are large rough feeds, of an irregularly triangular figure, of a blackish colour on the outfide, and yellowish or whitish within: they are usually brought from Italy; the plant is not very common in this country, though it bears our feverest colds. They have a difagreeable fmell, and a very naufeous bitterifh, burning tafte. Stavefacre was employed by the ancients as a cathartic; but it operates with fo much violence both upwards and downwards, that its internal use has been, among the generality of practitioners, for fome time laid aside. It is chiefly employed in external applications, for fome kinds of cutaneous cruptions, and for destroying the pediculi inguinales and other infects; infomuch, that it has hence received berba pedicularis, berba aux poux, laufs krut, loufewort.

STERCUS anseris, canis, columbæ, equi, ovis, pavonis, porci; [E.] The dung of the goofe, dog, pigeon, horse, sheep, peacock, hog. These fulsome medicines, which nothing but the most fantaftic visionaries could have introduced, are now expanged from practice.

STIBIUM, vide ANTIMONIUM.

STECHAS; [L. E.] flachas purpurea C. B. Arabian flechas or French lavender. This is a flrubby plant, confiderably finaller than the common lavender: the flowery heads are brought from Italy and the fourthern parts of France; they are very apt to grow mouldy in the paffage, and even when they escape this inconvenience, are generally much inferior to those raised in our gardens. The best stechas which we receive from abroad, has no great smell or taffe; Pomet affirms that fuch as the shops of Paris are fupplied with, is entirely destitute of both: whilst that of our own growth, either whillt fresh or when carefully dried, has a very fragrant fmell, and a warm, aromatic, bitterifh, fubacrid tafte; diffilled with water, it yields a confiderable quantity of a fragrant effential oil; to rectified spirit it imparts a strong tincture, which inspissated proves an elegant aromatic extract. This aromatic plant is rarely met with in prescription; the only officinal compositions which it is admitted into are the mithridate and theriaca.

There is another fort of stechas, which on account of the beauty and durability of its flowers has of late years had a place in our pardens, and whose aromatic qua-

its name, in different languages, lities render worthy of one in the shops. This is the elichrysion seu steechas citrina latiore folio C. B. Golden stechas, goldilocks, or yellow cassidony: its slowers stand in umbels on the tops of the branches; they are of a deep shining yellow colour, which they retain in perfection for many years; their fmell is fragrant and agreeable, approaching to that of nutmegs; their tafte warm, bitterifh, and pungent; they impart their flavour to water in diffillation, and by infusion to rectified spirit.

> STYRAX CALAMITA; [L.E.] Storax; an odoriferous refinous fubflance, exuding, in the warmer climates, from a tree called by C. Bauhine flyrax folio mali cotonei. It has been customary to distinguish three forts of storax, though only one is usually met with in the

> i. Styrax calamita or florax in the cane, fo called from its having been formerly brought inclosed in reeds, from Pamphylia: it is either in small distinct tears, of a whitish or reddish colour, or in larger maffes composed of such.

> 2. Storax in the lump or red florax. This is in maffes of an uniform texture and yellowish red or brownish colour, though fometimes likewife interspersed with a few whitish grains. Of this fort there has been fome lately to be met with in the shops, under the name of storax in the tear.

> 3. The common florax of the shops is in large maffes, confiderably lighter and less compact than the foregoing: it appears upon examination to be composed of a fine refinous juice mixed with a quantity of faw-dust. For what purpose this addition is made we shall not here inquire; observing only, that it can scarce be supposed to be done

with any fraudulent view, fince the faw-dust appears at fight. This common florax is much less esteemed than the two first forts; though when freed from the woody matter it proves fuperior in point of fragrancy to either of them. Rectified spirit, the common menstruum of refins, diffolves the storax, leaving the wood behind: nor does this tincture lose considerably of its valuable parts in being inspissated to a folid confiftence; whilst aqueous liquors elevate almost all the fragrance of the storax.

Storax is one of the most agreeable of the odoriferous resins, and may be exhibited to great advantage in languors and debilities of the nervous system; it is not, however, much used in common practice, unless as an ingredient in some of the

old compositions.

STYRAX LIQUIDA; [E.] Liquid storax. What is most commonly met with under this name, is a foft refinous substance, of a grey colour, a weak fmell fimilar to that of the foregoing folid flo-rax: it is supposed to be compounded of folid ftorax, refin, wine and oil, beat up together, with water, into a proper confishence. The genuine liquid storax, according to Petiver's account (Phil. Transact. No. 313.) is obtained from a tree growing in the island Cobros in the red fea: the preparers of this commodity yearly clear off the bark of the tree, and boil it in fea water to the confidence of birdlime; the refinous matter which floats upon the surface, is taken off, liquefied again in boiling water, and paffed through a strainer. The purer part which passes through, and the more impure which remains on the strainer and contains a confiderable portion of the fubitance of the bark, are both fent to Mocca, from whence they are fometimes, though very

rarely, brought to us. The first is of the confishence of honey, tenacious, of a reddish or ash brown colour, an acrid unctuous taste, approaching in smell to the solid storax, but so strong as to be disagreeable: the other is full of woody matter, and much weaker in smell. These resins are at present scarce ever made use of in medicine, and not often found in the shops.

SUBER; [E.] fuber latifolium perpetuo virens C. B. Cork, a fort of ever-green oak, growing in the warmer parts of Europe; its bark. This has been by fome accounted altringent, and recommended as fuch in dyfenteries and other fluxes: but modern practice applies it to no fuch uses, and expects from it no virtues of any kind.

It may here be proper to take notice, that fundry liquors undergo fenfible alterations from cork stoppers. Neuman observes, that acids, alcalies both fixt and volatile, the dulcified alcaline and acid spirits, some neutral faline liquors, lime water, blue vegetable juices and syrups made from them, are changed more or less to a yellow or brown colour.

SUCCINUM; [L. E.] Amber; a folid, brittle, bituminous substance, dug out of the earth, or found upon the fea fhores: the largest quantities are met with along the coasts of Polish Prussia and Pomerania. It is of a white, yellow or brown colour, fometimes opake, and fometimes very clear and transparent: the dark coloured and opake forts, by digeftion with certained expreffed oils and animal fats, become clearer, paler coloured, more pellucid. and confiderably harder. Amber boiled in water, neither foftens nor undergoes any fenfible alteration: exposed to a greater heat, without

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like some of the more common bi- in acids, water or vinous spirits. tumens: fet on fire, its Imell refembles that which arises from the finer kinds of pitcoal : distilled in a lous falt (fee part ii. chap. viii.) Amber in substance has very little fmell or tafte; and hence it has by fome been reckoned a mere inactive earthy body. It was formerly accounted an absorbent, and as such had a place in the compound powder of crabs claws: it certainly has no title to this class of medicines. as not being acted upon by any acid. It is supposed to be of fervice in the fluor albus, gleets, hyfleric affections, &c. and in thefe intentions is fometimes exhibited, in the form of impalpable powder, to the quantity of a dram. A tinclure of amber made in rectified fpirit (to which it imparts a bitterish aromatic taste and a fragrant fmell) promifes to be of real fervice in these disorders: Boerhaave extols this tincture as having incredible efficacy in all those diffempers which proceed from weakness and relaxation, and in hypochondriacal, hysterical, and cold languid cases: if part of the spirit be abstracted by a gentle heat, the remainder proves a very elegant aromatic balfam, which is perhaps one of the most useful preparations obtainable from this concrete.

SUCCISA, vide Morsus DIA-BOLI.

SULPHUR; [L. E.] Sulphur or brimftone is a yellow fubstance, of the mineral kingdom, fusible in a imall degree of heat, totally votatile in a stronger, readily inslammable, burning with a blue flame, which is accompanied with a fuf-

addition, it melts into a black mass in alcaline liquors and in oil, not

Greatest part of the sulphur met with in the shops is obtained from certain ores by a kind of distillaretort, it yields an oil of a peculiar tion, or artificially composed by flrong fmell, and a volatile acidu- uniting the vitriolic acid with inflammable matters: at some of the Saxon fulphur works (from whence we are chiefly fupplied) certain minerals abounding with vitriolic acid, but containing little or no fulphur, being ftratified with wood and the latter fet on fire, a large quantity of fine fulphur is produced. It is usually brought to us in large irregular maffes, which are afterwards melted and cast into cylindrical rolls with the addition of fome coarfe refin, flower, or the like; whence the paler colour of the rolls. Sulphur is also not unfrequently found native in the earth, fometimes in transparent pieces of a greenish or bright vellow colour; but more commonly in opake grey ones; with only fome streaks of yellow. This last is the fort which is understood by the name Sulphur vivum [E.] though that met with under this name in the shops is no other than the drofs remaining after the fublimation of fulphur. All the forts of fulphur are, when perfectly pure, in no respect different from one another; notwithstanding the preference given by fome to the more uncommon follil forts; these last are of all others the least proper for medicinal purposes, as being the most fubject to an admixture of foreign matters both of the metallic and arfenical kind.

Pure fulphur loofens the belly, and promotes infensible perspiration: it feems to pass through the whole habit, and manifestly tranfpires through the pores of the fkin, as appears from the fulphuforating acid fume. It diffolves reous fmell of persons who have

taken it, and filver being stained exceed in operation, the exhibition in their pockets of a blackish colour, which is the known effect of and an high falivation may be fulphureous fumes. It is a celebrated remedy against cutaneous difeafes, both given internally, and externally applied. It has likewife been recommended in coughs, afthmas, and other diforders of the breast and lungs: in these cases, however, it has no very confiderable effect, unless, as Hoffman obferves, where the difease proceeds from the blood being tainted by ferophulous or feorbutic humours; where this happens, the prudent use of sulphur generally does good fervice, throwing out a plentiful eruption upon the fkin, and by degrees carrying off the peccant matter. The common dose of fulphur rarely exceeds a fcruple, though Geoffroy goes as far as two drams. The trochifci e fulphure of the difpenfatory are one of the most elegant forms for the exhibition of it. It enters fix officinal preparations for external use, and gives name to one of them. Some have imagined that fulphur used externally is dangerous; that as it throws the morbific matter outwards when given inwardly, it must in like manner drive it into the blood when applied externally. This opinion, which is supported by some late writers, has no just foundation: fulphur has nearly the fame effects, whether used internally or externally: in both cases, the eruptions become frequently more copious after the first use of it.

It is remarkable of this concrete, that though itself a medicine of confiderable efficacy, it nevertheless restrains that of some others of the most powerful kind. Mercury is rendered by the admixture of fulphur, inactive; and the virulent antimonial regulus, almost fo: hence, when antimonial medicines

of fulphur abates their violence: checked by the fame medicine. Even the corrofive poifon arfenic, by the addition of fulphur becomes almost innocent; and hence if a fmall proportion of arfenic should be contained in fulphur, it possibly may not receive from thence any poisonous qualities.

SUMACH; [E.] rbus folio ulmi C. B. Common fumach; the feeds. This tree, or shrub, is cultivated in some places on account of the culinary uses of its fruit, and for the purposes of the dyers, &c. Among us, it is met with only in the gardens of the curious. The feeds or berries are of a red colour, in shape round and flat. They are moderately astringent, and have fometimes been exhibited in this intention, but are now become strangers to the shops.

SYMPHYTUM, vide Conso-LIDA.

TACAMAHACCA: [E.] arefin obtained from a tall tree (tacamahacca populo similis, fruëu colore pæoniæ simili J. B.) which grows spontaneously on the continent of America, and in a sheltered situation bears the winters of our own climate. Two forts of this refin are fometimes to be met with. The best, called (from its being collected in a kind of gourd shells) tacamahacca in shells, is somewhat unctuous and foftish, of a pale yellowish or greenish colour, an aromatic tafte, and a fragrant delightful fmell, approaching to that of lavender and ambergris. This fort is very rare: that commonly found in the shops is in semi-transparent grains or glebes, of a whitish, yellowish, brownish or greenish co-

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lour, of a less grateful smell than the foregoing. The first is said to exude from the fruit of the tree, the other from incisions made in the trunk. This refin is rarely employed among us for medicinal purposes: among the Indians, it is of frequent use externally for discussing and maturating tumours, and abating pains and aches of the limbs. The fragrance of the siner fort sufficiently points out its being applicable to other purposes.

TAMARINDUS; [L. E.] Tamarind; the fruit of a tree growing in the East and West Indies, called by C. Bauhine filiqua Arabica que tamarindus. It is a pod refembling a bean-cod, including feveral hard feeds, together with a dark coloured viscid pulp of a pleasant acid tafte: the East India tamarinds are longer than the West India fort; the former containing fix or feven feeds each, the latter rarely above three or four. The pulp of thefe fruits, taken in the quantity of two or three drams, or an ounce or more, proves gently laxative or purgative; and at the same time, by its acidity, quenches thirst, and allays immoderate heat. It encreases the action of the purgative fweets, cafia and manna, and weakens that of the refigous cathartics. Some have supposed it capable of abating the virulence of antimonial preparations; but experience flews, that it has rather a contrary effect, and that all vegetable acids augment their power-

TAMARISCUS; [E.] tamarix oltera folio termiore, five Gallica C. B. The tamarife tree; its bark and leaves. These are moderately all lingent: they are never met with in prescription, and have long been entire drangers to the shops.

TANACETUM; [L. E.] tanacetum vulvare luteum C. B. Tanfy; the leaves [L.] flowers and feeds [E.] Tanfy grows wild by road fides, and the borders of fields, and is frequently also cultivated in gardens both for culinary and medicinal uses: it flowers in June and July. Confidered as a medicine, it is a moderately warm bitter, accompanied with a firong, not very difagreeable flavour; fome have had a great opinion of it in hysteric diforders, particularly those proceeding from a deficiency, or fuppression of the uterine purgations. The leaves and feeds have been of confiderable effeem as anthelmintics: the feeds are lefs bitter, and more acrid and aromatic than those of rue, to which they are reckoned fimilar; or of fantonicum, to which they have been frequently fubitituted.

TAPSUS BARBATUS ; [E.] verbascum mas latisolium luteum C. B. Mullein; the leaves. This is met with by road fides, and under hedges: it is clothed all over with foft downy leaves, and produces long spikes of yellow flowers in July. The tafte discovers in it a glutinous quality; and hence it frands recommended as an emol-Hent, and is among the Italians of great effects in confumptions. The flowers of mullein have an agrecable, honey-like fweetness; an extract prepared from them by rectified spirit of wine tastes extremely pleafant.

TARAKACUM, vide Dana

TARTARUM; [L. E.] Tartar is a faline substance, thrown off from wines, after setmentation, to the sides and bostom of the cask: it proves of a red or white colour,

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and more or less foul or droffy, according to the colour and quality of the wine; the white is generally looked upon as the pureft : of either fort, such as is clean, folid, fomewhat transparent, and has its outfide covered over with small shining crystals, is preferable to such as appears porous, droffy, opake, and leis bright This substance, tho' truly fahne, is fcarce acted upon by cold water; the pureft fort, or fuch as has been purified by art, requires four and twenty times its weight of boiling water to diffolve in : the folutions of both the tartars pass the filter colourless, and shoot, in the cold, into fmall, white, femitransparent crystals. All fuch earths as are foluble in vinegar, and alcaline falts, render tartar more eafily foluble in water: hence the refiners at Montpelier are faid to employ a certain earth for promoting its folution, with fome particular managements for making it fhoot into large cryftals. This addition may occasion a considerable alteration in the falt, infomuch that the finer forts of white tartar are perhaps preferable, on many occafions, to the common crystals. The virtues of tartar are those of a mild, cooling, aperient, laxative medicine. Taken from half an ounce to an ounce, it proves a gentle, though effectual purgative: Angelus Sala relates, that he was cured of an habitual colic, by purging himfelf a few times with fix drams of the crude falt, after many other medicines had been tried to no pur-

TELEPHIUM, vide CRASSULA.

TEREBINTHINÆ. Turpentines; refinous juices extracted from certain trees. There are four kinds of turpentine distinguished in the shops.

TEREBINTHINA CHIA fine CYPRIA [L. E.] Chian, or Cyprus turpentine. This is generally about the confidence of thick honey, very tenacious, clear and almost transparent, of a white colour, with a cast of yellow, and frequently of blue; it has a warm, pungent, bitterish taste; and a fragrant smell, more agreeable than any of the other turpentines.

This juice is the produce of the terebinthus vulgaris C. B. common terebinth, an ever green tree or shrub, which grows spontaneously in the warmer climates, and endures the colds of our own. The turpentine brought to us, is extracted in the iflands whose names it bears, by wounding the trunc and branches a little after the buds have come forth: the juice iffues limpid, and clear as water, and by degrees thickens into the confiftence in which we meet with it. A like juice exuding from this tree in the eaftern countries, inspiffated by a flow fire, is of frequent use, as a masticatory, among the Persian ladies, who (as Kompfer informs us) are continually chewing it, in order to fasten and whiten the teeth, fweeten the breath, and promote appetite.

TEREBINTHINA VENETA [E.] Venice turpentine. This is usually thinner than any of the other fotts, of a clear, whitish, or pale yellowish colour, a hot, pungent, bitterish, disagreeable taste, and a strong smell, without any thing of the fine aromatic slavour

of the Chian kind.

The true Venice turpentine is obtained from the larix folio defiduo, conifera J. B. larch, a large tree growing in great abundance upon the Alps and Pyrenean mountains, and not uncommon in the English gardens. What is usually met with in the shops, under the

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name

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name of Venice turpentine, comes from New England; of what tree it is the produce we have no certain account: the finer kinds of it are in appearance and quality not confiderably different from the true fort above described.

TEREBINTHINA ARGEN-TORATENSIS [L. E.] Strafburgh turpentine. This, as we generally meet with it, is of a middle confiftence betwixt the two foregoing, more transparent, and less tenacious than either; its colour a yellowish brown. Its finell is very fragrant, and more agreeable than that of any of the other turpentines, except the Chian; in tase it is the bitterest, yet the least acrid.

This refin is obtained from the two forts of fir trees mentioned in page 65, which are the most plentiful, and perhaps the only ones that grow spontaneously in Europe. There is another whose refin is much superior to the common turpentines, and has fometimes been brought to us from abroad under the name of BALSA-MUM CANADENSE. This species is the abies minor, pestinatis foliis, Virginiana, conis parvis subrotundis Pluk. Virginian, or Canada fir tree, which, though not a native of this climate, has been found to endure its severest colds.

TEREBINTHINA COMMUNIS [L. E.] Common turpentine is the coarfest, heaviest, in taste and smell the most disagreeable of all the forts: it is about the confistence of honey, of an opake brownish white colour.

This is obtained from the pinus fylvefiris C. B. wild pine, a low unhandsome tree, common in different parts of Europe: this tree is extremely resinous, and remarkably subject to a disease from a redundance and extravalation of

its refin, infomuch that, without due evacuation, it swells and bursts. The juice, as it issues from the tree, is received in trenches made in the earth, and afterwards freed from the grosser impurities by colature through wicker baskets.

All these juices yield in distillation with water, an highly penetrating effential oil, a brittle infipid refin remaining behind. With regard to their medical virtues, they promote urine, cleanse the parts concerned in the evacuation thereof, and deterge internal ulcers in general; and at the fame time, like other bitter hot substances, strengthen the tone of the veffels: they have an advantage above most other acrid diuretics, that they gently loofen the belly. They are principally recommended in gleets, the fluor albus, and the like; and by fome in calculous complaints: where these last proceed from fand or gravel, formed into a mass by viscid mucous matter, the turpentines, by diffolving the mucus, promote the expulsion of the fand; but where a calculus is formed, they can do no fervice, and only ineffectually irritate or inflame the parts. In all cases accompanied with inflammation, these juices ought to be abstained from, as this symptom is increased, and not unfrequently occasioned by them. It is observable, that the turpentines impart, foon after taking them, a violet fmell to the urine; and have this effect, though applied only externally to remote parts; particularly the Venice fort. This is accounted the most powerful as a diurctic and detergent; and the Chian and Strasburgh as corroborants. The common turpentine, as being the most offensive, is rarely exhibited internally: its principal use is in some external applications, among farriers, and

fpirit, as it is called. The dose of these juices is from a scruple to a dram and a half : they are most commodiously exhibited in the form of a bolus, or diffolved in watery liquors by the mediation of the yolk of an egg. Of the diffilled oil, a few drops are a sufficient dose: this is a most potent, stimulating, detergent diuretic, oftentimes greatly heats the constitution, and requires the utmost caution in its exhibition.

TERRA JAPONICA, videJ A-

TERRA LEMNIA et SILE-SIACA, vide Bolus.

THAPSIA; [E.] thapfia five turbith Garganicum semine latissimo J. B. Deadly carrot; the root. This plant does not ill deserve its epithet; a finall dose operating with extreme violence both upwards and downwards. It is an entire firanger to the shops, and met with only in the gardens of the curious.

THEA [E.]; Tea; the leaves of a shrub (thea frutex, folio cerafi, flore rosa fylvestris, &c. Kampf.) cultivated in China. The feveral forts of tea met with among us, are the leaves of the fame plant, collected at different times, and cured in a fomewhat different manner: the fmall young leaves, very carefully dried, are the finer green: the older afford the ordinary green and bohea. The two first have a fensible flavour of violets: the other, of roses: the former is the natural odour of the plant; the latter, as Neuman obferves, is probably introduced by art: fome of the dealers in this commodity in Europe are not ignorant, that bohea tea is imitable

for the distillation of the oil, or by the leaves of certain common plants, artificially tinctured and impregnated with the rofe flavour. The talle of both forts is lightly bitterifh, fubattringent, and fome-what aromatic. The medical vir-tues attributed to these leaves are fufficiently numerous, though few of them have any just foundation : little more can be expected from the common infusions, than that of a diluent, acceptable to the palate and stomach : diuretic, diaphoretic, and other virtues which they have been celebrated for, depend more on the quantity of warm fluid, than any particular qualities which it gains from the tea. This leaf might undoubtedly be fo managed as to produce confiderable effects as an aftringent and corroborant, if there was a scarcity of other medicines to answer these intentions: aqueous and fpirituous extracts from it prove notably aftringent, though not a little difagreeable. Nothing arises in distillation from either fort of tea with rectified fpirit; water elevates the whole of their flavour.

> THLASPI [L. E.] Treacle, or mithridate, mustard; the feeds. Two forts of thlaspi are used promiscuously, thlaspi arvense siliquis latis C. B. and the thlaspi arvense vaccariæ incano folio majus C. B. they both grow wild, the latter most plentifully. These seeds have an acrid biting tafte like common muftard, with which they agree in medical qualities: their principal use is as ingredients in the compofitions whose names they bear.

THUS MASCULUM, vide OLIBANUM.

THUS VULGARE [L. E.] Common frankincense; a solid, brittle refin, brought to us in little glebes or masses, of a brownish,

or yellowish colour on the outside, MINOR, tithymalus foliis pini C. B. internally whitish, or variegated with whitish specks; of a bitterish, acrid, not agreeable tafte, without any confiderable finell. It is fuppoled to be the produce of the tree which yields the terebinthina communis; and to concrete on the furface of the terebinthinate juice foon after it has iffued from the plant.

THYMUS; [E.] thymum vulgare folio tenuiore C. B. common thyme; the leaves. This plant is frequent in our gardens, and flowers in June and July. It has an agreeable aromatic fmell, and a warm pungent tafte; which it imparts by infusion to rectified spirit, and fends over in distillation with water: along with the water arises an essential oil extremely hot and pungent.

THYMUS CITRATUS; [L.] serpyllum, foliis citri odore C. B. Lemon thyme; the leaves. This is found wild in dry mountainous places, but the shops are supplied from gardens. In tafte and finell it is less acrid, and more grateful than the common thyme; its finell in particular, is remarkably different, approaching to that of lemons. It gives over its flavour in distillation both with water and spirit: with the former, an elegant effential oil arises: the distilled spirit is an agreeable aromatic cordial liquor, not inferior to any thing of this kind.

THYMELÆA; [E.] thymelæa foliis lini C. B. Spurge flax; its berries, called grana cnidia.

TITHYMALUS. Spurge; the root. Several forts of spurge are mentioned in catalogues of the materia medica. The Edinburgh college retain only two; (Esula MA-JOR, tithymalus palustris fruticosus C. B. German spurge; and Esula

pine spurge; ours has rejected them

The spurges and grana cnidia are extremely acrid irritating catharties, and operate with fo much violence as to be altogether unfit for internal use.

TILIA; [L. E.] tilia famina folio majore C. B. The lime, or linden tree; its flowers. The lime tree has been much valued on account of its quick growth and pleafant shade: it flowers in July, and loses its leaves soon after. The flowers are made use of chiefly on account of their agreeable flavour. which water extracts from them by infusion, and elevates in distillation. Among the writers on the materia medica, they have the character of an antiepileptic, and a specific in all kinds of spasms and pains. Frederic Hoffman relates. that he knew a chronical epilepfy cured by the use of an infusion of thefe flowers drank as tea.

TINCAR, vide BORAX.

TORMENTILLA; [L. E.] tormentilla sylvestris C. B. Tormentil, or feptfoil; the root. Tormentil is found wild in woods and on commons: it has long slender flalks, with usually seven long narrow leaves at a joint : the root is for the most part crooked and knotty, of a blackish colour on the outfide, and reddish within. This root has an austere styptic taste, accompanied with a kind of aromatic flavour: it is one of the most agreeable and efficacious of the vegetable aftringents, and is employed with good fuccess in all cases where medicines of this class are proper. A tincture made from it with rectified spirit, possesses the whole aftringency and flavour of

rofes.

MI TRAGACANTHE.

TRICHOMANES; [L. E.] trichomanes five polytrichum officina-rum C. B. English black maidenthe herbs called, from the fmallness of their stalks, capillary: it is found wild in different parts of England, upon old walls, and in fludy places. The leaves have a mucilaginous, fweetifh, subastringent tafte, without any particular flavour: they are esteemed useful in disorders of the breast, proceeding from a thickness and acrimony of the juices; and are likewise supposed to promote the expectoration of tough phlegm, and to open obstructions of the viscera. They are ufually directed in infusion or decoction, with the addition of a little liquorice. A fyrup prepared from them has frequently supplied the place of that made from the adianthum verum: fome have fubilituted a fill cheaper ingredient, and perhaps not much to the difadvantage of the medicine : both the maidenhairs yielding little more than a mucilaginous juice, greatly refembling the fubilitute made ufe of. The fyrup brought from abroad has an admixture of orange flower water.

TRIFOLIUM PALUDOSUM [L. E.] trifolium palustre C. B. Marsh trefoil, or buck-beans; the leaves. This plant grows wild in moift marshy places: it has three oval leaves, standing together, up- drink, does excellent fervice in a on one pedicle which iffues from weak lax flate of the flomach and

the root, and loses nothing of either the root; their taste is very bitter. in inspissation; whilst aqueous li- and somewhat nauseous. Marsh quors elevate the whole of the aro- trefoil is an effic acious aperient and matic part : the diffilled water deobstruent, promotes the fluid fefmells agreeably, fomewhat like cretions, and, if liberally taken, gently loofens the belly. It has of late gained great reputation in TRAGACANTHA, vide Gum- fcorbutic and fcrophulous diforders : and its good effects in these cases have been warranted by experience: inveterate cutaneous diseases have been removed by an infusion of the leaves, drank to the quantity hair; the leaves. This is one of of a quart a day, at proper intervals, and continued for fome weeks. Boerhaave relates, that he was relieved of the gout by drinking the juice mixed with

TRISSAGO, vide CHAMEDRYS.

TRITICUM; [L. E.] triticum vulgare glumas triturando deponens J. B. Wheat; the meal or flower, and flarch (prepared from the meal by maceration in fresh parcels of water) and bran. Wheat a common article of our food, is more glutinous and nutritious than most other kinds of grain. The flour, or the ftarch prepared from it, form with water, a foft viscid substance, which has been taken, with good fuccefs, in diarrheas and dyfenteries. Bran contains, besides the husks, or shells of the wheat, a portion of its farinacious matter: this is less glutinous than the finer flower, and is supposed to have a detergent quality: infusions of bran are not unfrequently employed in this intention externally, and fometimes likewife taken inwardly.

BREAD, carefully toafted, and infused, or lightly boilded in water. imparts a deep colour, and a fufficiently agreeable refiringent tafte. This liquor, taken as common

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intestines; and in bilious vomiting and purging, or the cholera morthe use of any other medicine.

LUS HORTENSIS.

TURPETHUM [E.] Turbith; the cortical part of the root of an Indian convolvulus, brought to us in oblong pieces, of a brown or ash colour on the outside, and whitish within: the best is ponderous, not wrinkled, eafy to break, and discovers a large quantity of refinous matter to the eye: its tafte is at first sweetish; chewed, for a little time, it becomes acrid, pungent, and naufeous. This root is a cathartic, not of the fafeit, or most certain kind: the refinous matter, in which its virtue refides, appears to be very unequally diffributed, infomuch that fome pieces, taken from a scruple to a dram, purge violently; whilst others, in larger dofes, have scarce any effect at all. An extract made from the root is more uniform in strength, though not fuperior, or equal, to purgatives more common in the

TUSSILAGO; [E.] tuffilago vulgaris C. B. Coltsfoot; the leaves and flowers. This grows wild in watery places, producing yellow flowers in February and March; these foon fall off, and are fucceeded by roundish leaves, hairy underneath: their taste is herbaceous, fomewhat glutinous and fubacrid. Tuffilago flands recommended in coughs, and other diforders of the breaft and lungs : most rejected it.

TUTIA [L. E.] Tutty; a calx or fublimate of zinc, produced in bus: examples are related in the the furnaces where zinc is fufed Edinburgh effays of feveral cases with other metals, or copper made of this kind cured by it, without iato brafs by calamine the ore of zinc : it is found adhering to certain cylindrical bodies placed in the TUNICA, vide CARYOPHYL- upper part of the furnace for that purpose; from these it receives its tubulated figure. It is moderately hard and ponderous, of a brownish colour, and full of small protuberances on the outfide, fmooth and vellowish within: some pieces have a bluish cast, from minute globules of zinc being thrown up by the heat in its metallic form. Tutty is celebrated as an ophthalmic, and frequently employed as fuch in unguents and collyria. See the article ZINCUM. ..

> VALERIANA HORTENSIS MAJOR; [E.] valeriana major odorata radice J. B. The greater garden valerian; its roots. This is an oblong wrinkled root, with feveral fibres at the bottom, of a brownish or ash colour on the outfide, and whitish within; of an aromatic fmell and tafte, approaching to nard. It is accounted less efficacious as a medicine than the following

VALERIANA SYLVESTRIS; [L. E.] waleriana Sylvestris major montana C. B. valeriana Sylvestris major foliis angustioribus Morison. plant. umbellif. Wild Valerian (the narrow-leaved fort, growing on open, dry, mountainous places) its root. This root confifts of a number of strings, or fibres matted together, issuing from one common head; of a whitish or pale brownish colour: its fmell is strong, like a mixture of aromatics with fetids; the tafte unpleafantly warm, bitpractice however feems to have al- terish, and subacrid. There is another wild valerian, with broader leaves,

colour, met with in watery places. Both forts have hitherto been used indifcriminately, and Linnæus has joined them into one species under the name of valeriana foliis omnibus pimatis. Our college have refrained the shops to the first, which is confiderably the ftrongest, and loses of its quality, if transplanted into fuch foils as the other naturally delights in. The roots, produced in low watery grounds, have a remarkably faint fmell in comparifon of the others, and fometimes fcarce any at all. Wild valerian is a medicine of great use in nervous diforders, and is particularly ferviceable in epilepfies proceeding from a debility of the nervous fystem. It was first brought into esteem in these cases by Fabius Columna, who by taking the powdered root, in the dose of half a epilepfy after many other medicines had been tried in vain. Repeated experience has fince confirmed its efficacy in this diforder; and the present practice lays considerable stress upon it. The common dose is from a scruple to a dram: in infusion, from one to two drams. Its unpleafant flavour is most effectually concealed by a fuitable addition of mace.

VERATRUM, vide HELLE-BORUS ALBUS.

VERBASCUM, vide TAPSUS

VERBENA; [E.] verbena com-

leaves; of a deeper and thining green fibly it has an equal title to them all: to the tafte and fmell it appears almost simply herbaceous.

> VERONICA FŒMINA; vide ELATINE.

VERONICA MAS; [E.] veronica mas supina et vulgatissima C. B. Male speedwell; the leaves. This is one of the veronicæ which produce their flowers in clufters at the joints of the stalks: it is a rough, procumbent plant, not unfrequently met with on dry commons, and in fandy grounds. In talle, fmell, and medical virtues, it is fimilar to the betonica, of which in its place. Those who defire a more particular account of the qualities of this herb, may confult Frederic Hoffman's differtation de infusi veronicæ efficacia præferenda berbæ thee, and the vespoonful, was cured of an inveterate ronica theizan, and veronica polychresta berba of Joh. Francus.

VINCETOXICUM ; [E:] afclepias flore albo C. B. Swallowwort, or tame-poifon; the root. This is a native of the warmer climates: it is fometimes met with in our gardens, but rarely perfects its feeds. It is reckoned by botanists a species of apocynum, or dogsbane; from all the poisonous forts of which it may be diffinguished by yielding a limpid juice, whilft that of the others is milky. The root has a firong fmeil, especially when fresh, approaching to that of valerian, or nard; the tafte is at first sweetish and aromatic, but soon munis flore caruleo C. B. common becomes bitterish, subacrid and nauwild vervain; the leaves and root. feous. This rootis effeemed fudo-This is one of the medicines which rific, diuretic, and emmenagogue, we owe to the superflicion of former and frequently employed by the ages; the virtues it has been cele- French and German physicians as brated for, both as an internal me- an alexipharmac, fometimes as a dicine, and externally as an amulet, fuccedaneum to contrayerva, whence are extremely numerous; and pof- it has received the name of contra-

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it is very rarely made use of : it appears, from its fensible qualities, to be a medicine of much the fame kind with valerian, which is indifputably preferable to it.

VINUM. Wine: the fermented juice of the grape. Among the great variety of wines in common use among us, five are employed in the shops as menstrua for medicinal fimples.

Vinum album; [L.] vinum album Hispanicum [E.] Mountain.

Vinum album Gallicum [E] French white wine.

Vinum Canarinum [L. E.] Canary or fack.

Vinum Rhenanum [L. E.] Rhe-Vinum rubrum [L.] Red port.

The uses of these liquors as men-

flrua and vehicles of the virtues of other medicines, will be given hereafter; in this place we shall consider only their effects on the human body. These are, to chear the spirits, warm the habit, promote perspiration, render the vessels full and turgid, raife the pulfe, and quicken the circulation. The effects of the full-bodied wines are much more durable than those of the thinner : all fweet wines, as canary, abound with a glutinous nutritious fubflance; whilft the others are not nutrimental, or only accidentally fo by strengthening the organs employed in digestion: fweet wines in general do not pass off freely by urine, and heat the constitution more than an equal quantity of any other, though containing full as much spirit: red port, and most of the red wines, have an astringent quality, by which they strengthen

the tone of the stomach and intef-

yerva Germanorum. Among us, tion: those which are of an acid nature, as Rhenish, pass freely by the kidneys, and gently loofen the belly : it is supposed that these last exasperate, or occasion gouty, calculous diforders, and that new wines of every kind have this effect.

> VIOLA; [L. E.] viola martia purpurea flore simplici odoro C. B. The fingle march violet; its flowers [L. E.] leaves and feeds [E.] This is often found wild in hedges and shady places, and flowers in March; the shops are generally supplied from gardens. In our markets we meet with the flowers of a different species, named by botanists viola martia major, birsuta, inodora: these may be distinguished from the foregoing by their being larger, of a pale colour, and of no finell, The officinal flowers have a very pleafant fmell, and a deep purplish blue colour, denominated from them violet. They impart their colour and flavour to aqueous liquors: a fyrup made from this infusion has long maintained a place in the shops, and proves an agreeable and useful laxative for child-

VIPERA [L. E.] The viper, or adder is one of the viviparous reptiles, without feet, about an inch in thickness, and twenty or thirty in length. The poison of this ferpent is confined to its mouth: at the basis of the phangs or long teeth which it wounds with, is lodged a little bag containing the poifonous liquid; a very minute portion of which, mixed immediately with the blood, proves fatal : our viper catchers are faid to prevent the mischiefs otherwise following from the bite, by rubbing oil olive tines, and thus prove ferviceable warm on the part. The flesh of for restraining immoderate secre- the viper is perfectly innocent; and

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cine of extraordinary fervice in fcrophulous, leprous, and other obflinate chronical diforders: its virtues, however, in these cases, are probably too much exaggerated. greatly to be wished that e The viper is undoubtedly an high gave any countenance to. nutritious food; and hence, in fome kinds of weaknesses, and emaciated habits, is not undefervedly looked upon as a good reftorative. To answer any valuable purpofes, fresh vigorous vipers (not fuch as have been long kept alive after they are caught) should be liberally used as food: the wines and tinctures of them can fcarce be a fupposed to receive any considerable virtue from the animal; the is entirely infignificant.

VIRGA AUREA; [E.] wirga aurea angustifolia, minus serrata C. B. Golden rod; the leaves. This is found wild on heaths and in woods, producing spikes of yellow flowers in August. The leaves have a moderately aftringent bitter tafte. diforders proceeding from that caufe.

VISCUS QUERNUS; [E.] viscum baccis albis C. B. Misseltoe; the wood and leaves. This is a bulhy plant, growing on the trunc and branches of different trees: that met with on the oak is generally preferred, perhaps on acoffice has hitherto been performed by the thrush (who feeds on the berries in the winter) in clearing his bill from the feeds that stick about it. This plant was held in veneration by the superstition of former ages: it was hung about

firongly recommended as a medi- the neck to prevent witchcraft, and taken internally to expel poifons. Of late times, it has been celebrated as a specific in epilepsies, palfies, &c. virtues, which it were greatly to be wished that experience

VITEX, vide Agnus CASTUS.

VITIS VINIFERA [E.] The vine tree. The leaves [E.] of this tree were formerly celebrated as aftringents, but have for a long time been entirely difregarded : their taffe is herbaceous with only a flight roughness. - The trunc of the tree, wounded in the fpring, yields a clear, limpid, watery juice: dry flesh brought us from abroad, this tear [E.] of the vine has been accounted excellent for fore eves : and by fome recommended likewife in ardent and malignant fevers, and as a diuretic.-The flowers have a pleafant fmell, which water elevates from them in distillation; along with the water, a fmall portion of an elegant effential oil arifes, possessing in great perfection and hence prove ferviceable in de- the agreeable fragrance of the bility and laxity of the vifcera, and flowers .- The unripe fruit is of a very harsh, rough, sour taste: its expressed juice, called verjuice [E.] was of great efteem among the ancients, and still continues so in some places, as a cooling aftringent medicine: a rob and fyrup were formerly prepared from it .- The ripe fruit, or grapes, properly cured and dried, are the raifins and curcount of its being the most rare. rants of the shops (www passes ma-It may, however, be propagated jores et minores;) by fermentation by art on any trees, by rubbing it affords wine, vinegar, and tartar the berries against the bark : this (vinum, acctum, tartarus) of all which in their places.

> VITRIOLUM. Vitriol is a faline crystalline concrete, composed of metal, and an acid fimilar to those of sulphur and alum. There are but three metallic bodies, which

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folving, or being united with into a crystalline appearance, zinc, copper, and iron : with the first it forms a white, with the fecond a blue, and with the third a green

VITRIOLUM ALBUM [L.E.] White vitriol, or vitriol of zinc; found in the mines of Goflar, fometimes in transparent pieces, but more commonly in form of white efflorescences, which are dissolved in water, and afterwards reduced by evaporation and crystallization into large masses. We rarely meet with this fort of vitriol pure : after the zinc, which is its proper bafis, has been revived by inflammable fluxes, there remains a substance which is attracted by the magnet, and discovers itself, on other trials alfo, to be iron: a folution of the vitriol deposites on standing an ochery fediment, which generally gives a blue tincture to volatile alcalies, and hence appears to contain copper. White vitriol is sometimes exhibited from five or fix grains to a dram, as an emetic: it operates very quickly, and if pure, without violence. Externally, it is employed as an opththalmic, and often made the basis of collyria, both in extemporaneous prescription, and in difpenfatories.

VITRIOLUM CERULEUM [L. E.] Blue vitriol, or vitriol of copper, falfely called Roman vitriol. Greatest part of the blue vitriol at prefent met with in the shops, is faid to be artificially prepared, by uniting copper with the vitriolic acid. This falt has a highly acrid, austere, and very naufeous tafle : it is a firong emetic, too violent to be exhibited with any tolerable degree of fafety. Its princopal use is externally as an escharone; and for stopping hemorrha-

this acid is capable of perfectly dif- ing the blood, and contracting the mouths of the veffels.

VITRIOLUM VIRIDE [L.E.] Geeen vitriol, or vitriol of iron, commonly called copperas; the Roman vitriol of the Italian and other foreign writers. This is prepared in large quantity at Deptford, by diffolving iron in the acid liquor, which runs from certain fulphureous pyritæ exposed for a length of time to the air. When pure, it is fimilar in quality to the officinal

fal martis.

The green and blue vitriols (as well as the white) are in many places found native in the earth; though usually, in this state, neither fort is free from an admixture of the other: hence vitriols are met with of all the intermediate colours betwixt the grafs green of the one and the faphire blue of the other. The acid of these salts has the greatest affinity with zinc, next to this with iron, and with copper the least of all. Hence, folutions of white vitriol, deposite on standing, greatest part of the irony and cupreous matter which they contain, and if some fresh zinc be added, the whole : in like manner, upon adding bright polished iron, to folutions of green vitriol, if it holds any cupreous matter, this will be thrown down. By this means, the white and green vitriols may be perfectly purified from other metallic bodies.

ULMARIA; [E.] ulmaria barba capri floribus compactis C. B. Meadow-fweet, or queen of the meadows; the leaves. This herb. is frequent in moift meadows, and about the fides of rivers : it flowers in the beginning of June, and continues in beauty a confiderable time. The flowers have a very pleafant flavour, which water extracts from gies, which it effects by coagulat- them by infution, and elevates in R

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herbaceous.

URTICA MAJOR VULGA-RIS; [E] urtica racemifera major perennis Rail. Stinging nettle; the leaves and feeds.

URTICA ROMANA; [E.] urtica arens, pilulas ferens semine lini C. B. Roman nettle; the leaves and feeds. Thefe have had fundry virtues attributed to them, which the present practice pays no regard to. The young leaves of the first fort are by fome used in the spring as a wholesome pot-herb.

UVÆ PASSÆ [L.] majores; [E.] Raisins of the fun ; the dried grapes of the witis Damasena

UVÆ PASSÆ minores; [E.] Currants; the dried grapes of the vitis Corinthiaca. The principal use of these is an agreeable sweet; they impart a very pleafant flavour both to aqueous and spirituous menfirua. The feeds or stones are supposed to give a disagreeable relish, and hence are generally directed to be taken out ; nevertheless we have not found that they give any tafte at all.

WINTERANUS CORTEX[E.] Winter's bark; the produce of a tree growing in Jamaica, Barbadoes, &c. called by fir Hans Sloane perielymenum reclum, foliis laurinis, cortice acri aromatico. It was first discovered on the coast of Magelolan, by captain Winter, in the year 1567: the failors then employed the bark as a spice, and afterwards found it serviceable in the scurvy; for which purpose it is, at present alfo, fometimes made use of in diet drinks. The true Winter's bark is not often met with in the shops, canella alba being generally subitituted to it, and by many reckoned to be the fame; there is neverthe-

distillation. The leaves are merely less a confiderable difference hetwixt them in appearance, and a greater in quality: the Winter's bark is in larger pieces, of a more cinnamon-colour, than the canella: and taftes much warmer and more pungent.

> ZEDOARIA [L. E.] Zedoary: the root of an Indian plant brought over in oblong pieces about the thickness of the finger, or in roundish ones about an inch in diameter. Both forts have an agreeable fragrant smell, and a warm, bitterish, aromatic tafte.

Rectified spirit extracts the whole of its warmth and aromatic flavour; leaving the bitter almost entire and capable of being afterwards extracted by water: in like manner, water applied at first takes up chiefly the bitter, leaving the aromatic to be diffolved by fpirit : proof spirit extracts both together. In distillation with water, an essential oil arifes, possessing the finell and slavour of the zedoary in an eminent degree; the remaining decoction is almost simply bitter. Spirit likewise brings over some small hare of its flavour; nevertheless, the spirituous extract is considerably more grateful than the zedoary it-

ZIBETHUM [E.] Civet: a fort unctuous substance; of a white, brown, or blackish colour, brought from the Brazils, the coast of Guinea, and the East Indies; it is met with in certain bags, fituated in the lower part of the belly of an animal faid to be of the cat-kind. The chief use of this drug is in perfumes; it is rarely, if ever, employed for any medicinal purpofes.

ZINCUM, Zinc; a semimetal, differing from all the other bodies of that class, in being inflam-

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meble per fe, fublimable into flowers which afterwards remain fixed in the strongest fire, soluble in every acid, not miscible in fusion with fulphur, changing copper into a yellow metal, brafs. Several productions of this femimetal, though not generally known to be fuch, are kept in the shops; as, its rich ore calamine, the white vitriol, the pure white flowers of zinc called pompholyx, and the more impure fublimate tutty. The preparations of zinc are employed principally in external applications as ophthalmics. The flowers, levigated into an impalpable powder, form with oily substances an useful unquent, and with rose water and the like, elegant collyria, for defluxions of thin sharp humours upon the eyes; they are moderately aftringent; and

act, if the levigation has been duly performed, without acrimony or irritation. Taken internally, they prove emetic.

ZINGIBER : [L. E.] Ginger ; a root, brought from China and the East and West Indies; of a fragrant fmell, and a hot, biting aromatic tafte. Rectified spirit extracts its virtues by infusion, in much greater perfection than aqueous liquors; the latter elevate its whole flavour in distillation, the former little or nothing. Ginger is a very useful spice, in cold flatulent colics, and in laxity and debility of the intestines: it does not heat fo much as those of the pepper kind, but its effects are more durable.



APPEN-

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APPENDIX.

General titles including several simples [E.]

The five opening roots :

Smallage,
Afparagus,
Fennel,
Parfley,
Butchers broom.

The five emollient herbs ;

Marihmallows,
Mallows,
Mercury,
Pellitory of the wall,
Violets.

The four cordial flowers:

Sarage,
Bugloss,
Roses,
Violets.

The four greater hot feeds:

Sanife, Caraway, Cummin, Fennel.

The four leffer hot feeds:

Stone parfley, Smallage, Wild carrot.

The four greater cold feeds :

Water melons, Cucumbers, Gourds, Melons.

The four leffer cold feeds:

Succory, Endive, Lettuce, Purflane.

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General rules for the collection of simples.

2. AROMATIC plants should be collected from warm, dry, fandy foils; FETID from moift and rich ones.

2. VEGETABLES, particularly herbs and flowers, are to be collected in a clear, dry day, as foon as the morning dew is gone off from them.

3. ROOTS are in greatest perfection in the fpring. Biennial roots are to be taken up in the fpring after the feeds were fown; annual ones, before they have fent out any flalk.

4. HERBS are to be gathered when the leaves have come to their full growth; before the

flowers unfold, or at least before they begin to fall off.

5. FLOWERS are to be plucked

when moderately expanded.

6. SEEDS should be collected when growing dry, before they begin to fall off fpontaneoufly.

7. FRUITS are to be gathered when fully ripe.

8. WOODS are to be felled in the

o. BARKS also are most conveniently shaved, or taken off, in the winter, as at this time they separate most freely from the wood.

General rules for the preservation of simples.

1. ROOTS are to be washed clean 2. LEAVES are to be dried in the from dirt, freed from the decayed, or rotten fibres, and hung up in a dry, shady, airy place, till moderately dried.

The thicker roots require to be flit longitudinally, or cut transversely into thin flices, and freed from the pith.

Such roots as lofe their virtue by exficcation, may be preferved in dry fand.

fame manner as roots: if exficcated in the fun, they lofe greatly of their colour, and quality. The leaves of plants, in general, are reduced by exficcation to about one fourth their original weight; the more juicy ones to lefs.

3. FLOWERS preserve their colour and virtues in greatest perfection when dried haltily

by a gentle heat.



PART

PART

Officinal preparations and compositions.

CHAPTER I.

PREPARATIONES SIMPLICIORES.

THE MORE SIMPLE PREPARATIONS.

aqua non dissolvuntur corporum præparatio: the preparation of EARTHY and such other pulverable bodies as will not dissolve in Lapis calaminaris, calamine, pre-wiensly calcined for the use of those

HESE substances are first to be pulverifed in a mortar, and then levigated with a little water, upon an hard and fmooth marble, into an impalpable powder: this is to be dried upon a chalk stone, and afterwards fet by for a few days, in a warm, or at least, very dry place. L.

After this manner are to be prepared, Ærugo, werdegris. L. Antimonium, antimony. L. Chelæcancrorum, crabs claws, L.E.

Corallium, coral. L. E. Creta, chalk. L.

TERREORUM, aliorumque quæ Lapis bezoar, bezoar stone, which is to be moistened in the levigation, with spirit of wine instead of wa-

> who make brass. L. Where this is not to be had, the mineral may be calcined by beating it three times red bot, and quenching it as often in water. E. Lapis hæmatites, blood-flone. L. E.

> Lapis lazuli. E. Margaritæ, pearls. L. E.

Oculi cancrorum, erabs eyes, fo called. L. E.

Oftreorum tefte, oufer-fells, wastes clean from dirt. L. These may also be prepared by exposing them for some days to the sun, and then rubbing them in a marble mortar till they come into a kind of paste; this is to be again dried in the sun. and afterwards rubbed into an impal-

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impalpable powder; the bollow iron planes; for if the common lefiells are preferred, [E.] thefe containing more of the fine white earth, in proportion to the outward rough coat, than the thinner flat ones.

Ovorum teftæ, eggfbells, freed by boiling, from the Jkin that adheres to them. L.

Succinum, amber. L. E.

Tutia, tutty. L. E.

In preparing antimony, calamine and tutty, particular care ought to be taken to reduce them into the most subtile powder possible? L. The finer parts of these powders are to be feparated for use from the groffer, by washing over the former with water, as directed in the following process. Litharge also may be treated in the fame manner. E.

> Polus Armena præparata, Bole Armenic prepared.

Mix powdered bole with a fufficient quantity of water, by ftirring them well together: pour off the water while loaded with the finer parts of the bole, into another veffel : put fresh on the remainder, repeat the agitation, and decant as before, till nothing is left except fand and fmali flones. Mix all the turbid liquors together, and let them rest till the powder has fubfided; then pour off the water, and dry the bole for ule.

Where large quantities of the foregoing powders are to be prepared, it is cultomary to levigate them in mills made for this purpofe. Particular care ought to be had, that these instruments are of sufficient hardness, otherwise they will he abraded by the powders. The hæmatites, a hard iron ore, is most conveniently levigated betwixt two

vigating stones are made use of, the preparation when finished, will contain almost as much of the instrument as of the hæmatites.

It has been customary to moisten feveral powders in levigation, with rose, balm, and other distilled waters: these nevertheless have no advantage above common water, fince in the subsequent exficcation they must necessarily exhale, leaving the medicine possessed of no other virtue than might be equally expected from it when carefully prepared with the cheaper element.

Some few fubftances indeed are more advantageoufly levigated with fpirit of wine. Thus bezoar has the green colour usually expected in this coffly preparation, confiderably improved thereby. The lighter animal fubflances are apt, when moistened with water, to run into a putrid state, which may be prevented by a prudent use of spirit; though this accident never happens unless large quantities are prepared at once, and the weather is very

The caution given above for reducing antimony, calamine and tut-ty, to the greatest subtility possible, demands particular attention. The tenderness of the parts to which the two last are usually applied, requires them to be perfectly free from any admixture of groß irritating particles. The first, when not throughly comminuted, might not only by its sharp needle-like firiæ wound the flomach, but likewife answers little valuable purpose as a medicine, proving either an uscless load upon the viscera, or at best passing off without any other sensible effect than an increase of the groffer evacuations: whilft if reduced to a great degree of finenefs, it turns out a medicine of confiderable efficacy.

The

obtaining these powders of the requifite tenuity, is, to wash off the finer parts by means of water (as above directed for bole; &c.) and continue levigating the remainder till the whole becomes fine enough to remain, for fome time, fuspended in the fluid : the degree of fineness will be in proportion to the length of time that it continues suspended.

This process may likewise be advantageously applied to hæmatites and other hard pulverable bodies of the mineral kingdom or artificial preparations of them; provided they are not foluble in, or specifically lighter than water; of the first kind is verdegris, of the fecond amber. The animal and absorbent powders, crabs claws, crabs eyes, oyftershells, eggshells, chalk, pearl, coral and bezoar, are not well adapted to this treatment; nor indeed do they require it. These substances are readily soluble in acid juices without much comminution: if no acid is contained in the first passages, they are apt to concrete, with the mucous matter usually lodged there, into hard indiffoluble maffes; the greater degree of fineness they are reduced to, the more are they disposed to form fuch concretions, and enabled to enter and obstruct the orifices of the fmall veffels. See page 54.

AXUNGIÆ PORCINÆ, SEVIque OVILLI curatio.

The purification or trying of HOGS Lard and MUTTON SUET. Lond.

Chop them into fmall pieces, and melt them by a gentle heat, with the addition of a little water; then firain them from the mem-

The use of the water is to prevent the fat from burning and turn-

The most successful method of ing black; which it does very effeetually, though it fomewhat prolongs the process, and is likewise apt to be in part imbibed by the fat. The Edinburgh dispensatory directs the fat to be first freed from the fkins, blood veffels and fibres, then washed in fresh parcels of water till it no longer gives the liquor any bloody tinge, afterwards melted, strained, and kept close from the injuries of the air. The shops are usually supplied with fats ready

AXUNGIÆ VIPERINÆ cu-

ratio. The purification of VIPERS FAT. Lond.

Let the fat, feparated from the intestines, be melted by a gentle fire, and then preffed through a thin linen cloth.

The quantity of this fat usually purified at a time is fo fmall, that the heat may be easily regulated fo as to prevent burning, without the addition of water. It is not necesfary to be very curious in picking out the fat; it is fufficient if the heart, liver, and other bloody parts are taken away; the rest of the membranes crifp up while the fat melts, fo as to be eafily feparated by straining.

MELLIS DESPUMATIO.

The despumation or clarifying of HONEY.

Lond.

Let the honey be liquefied in a water-bath, and the fcum which arifes taken off.

The intention of this process is to purify the honey from wax or other droffy matters that have been united with it by the violence of the prefs in its separation from the comb; and from meal and fuch like fubstances, which are fometimes fraudulently mingled with it.

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SCILLÆ COCTIO.
The baking of SQUILLS.
Lond.

Let the fquill (freed from the outer fkin, and the hard part to which the little fibres adhere) be inclosed in a passe made of wheat flour and water, and baked in an oven, till the passe becomes dry, and the fquill soft and tender throughout.

By this process the acrimony of the squill is supposed to be abated. The preparation is as old as the theriaca, and is continued in our dispensatories for no other use than making the troches of squills, which are one of its principal ingredients. The Edinburgh dispensatory prefers to them the squill itself moderately dried.

SCILLÆ EXSICCATIO. The drying of SQUILS. Lond.

Let the fquill, cleared from its outer skin, be cut transversely into thin slices, and dried with a very gentle heat.

By this method, the fquill dries much fooner than when only its feveral coats are feparated, as has been usually directed. It loses in this process, four fifths of its original weight; the parts which exhale appear to be merely aqueous: hence fix grains of the dry root are equivalent to half a dram of it when fresh, a circumstance to be particularly regarded in the exhibition of this medicine. In the preceding editions of our dispensatory, a particular caution was given not to use an iron knife for cutting fquills, but one of wood, ivory or other bone : the foundation of this caution is, that a wound received by an inftrument impregnated by the acrimonious juice of the fquill, proves

extremely painful.

RHABARBARI et NUCIS MOS-CHATÆ torrefactio.

The toasting of RHUBARB and NUTMEG.
Lond.

Toast them with a gentle heat, until they become easily friable.

Nutmegs in their natural flate. are fo foft and unctuous, as fcarce to be at all reducible into powder, a form in which they are occasionally wanted; and rhubarb is very difficultly fo, unless it be throughly dry. The torrefaction renders them eafily pulverable, and as foon as this point is obtained, should be immediately difcontinued, otherwife the drugs will be confiderably injured. This treatment is fupposed by some to increase the aftringency of the subjects, perhaps on no very good foundation: it undoubtedly renders the rhubarb less purgative, and the nutmegs less aromatic.

SPONGIÆ USTIO. 1. burning of SPONGE.. Lond.

Burn the fponge in a close earthen vessel, until it becomes black, and easily friable; then powder it in a glass or marble mortar.

This medicine, now first received in the dispensatory, has been in use for a considerable time; and exhibited with good success against scrophulous disorders and cutaneous foulnesses, in the dose of a scruple. Its virtues depend upon a volatile salt, just formed, and combined with its own oil and an earthy matter: the salt is so far extricated, that if the preparation be ground in a brass mortar, it corrodes the metal, so as to contract a disagreeable taint, and sometimes an emetic quality.

A good deal of address is requifite for managing this process in

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perfection. The sponge should be cut fmall, and beat for fome time in a mortar, that all the stony matters may be got out, which compared with the weight of the fponge when prepared, will fometimes amount to a considerable quantity. The usion should be discontinued as foon as ever the matter is become throughly black. If the quantity put into the veffel at once is large, the outfide will be fufficiently burnt before the infide is affected; and the volatile falt of the former will in part escape, before that in the latter is begun to be formed. The best method of avoiding this inconvenience feems oily matter, which most of the to be, to keep the sponge continually stirring, in such a machine as is used for the roasting of cossee.

CORNU CERVI CALCINA-

The calcination of HARTSHORN. Lond.

Burn pieces of hartshorn in a potter's furnace, till they become perfectly white; then powder and levigate them after the fame manner as the other earthy bo-

The intention here is, totally to burn out and expel the oil, falt, and other volatile parts; so as to leave only a white infipid animal earth. For this purpose, a strong fire, and the free admission of air are necessary. The potter's furnace is directed merely for the fake of convenience: where this is not to be had, any common furnace or flove may be made to ferve : on the bottom of the grate spread fome lighted charcoal, above which lav a row of the horns, then a row of charcoal, not lighted, and thus alternately until the furnace is full. The whole burns vehemently: the vegetable matter is reduced to ash-

es; and the horns burnt to whitenefs, still retaining their original form, by which they are easily distinguished from the other: they ought to be separated as soon as grown cold, to prevent their im-bibing any fixt falt from the vegetable ashes moistened by the air. The horns left after the distillation of the volatile falt and oil of hartshorn are as proper for this use as any other; that process only collecling fuch parts as are here diffipated in the air. Calcined hartshorn is one of the purest of the abforbent powders; as being perfeelly free from any glutinous or others abound with.

PULPARUM EXTRACTIO. The extraction of PULPS.

Lond. Unripe pulpy fruits, and ripe ones if they are dry, are to be boiled in a fmall quantity of water until they become foft: then press out the pulp through a ftrong hair fieve, and afterwards boil it down to a due confistence, in an earthen veffel, over a gentle fire; taking care to keep the matter continually flirring, to prevent its burning.

The pulp of casia fistularis is in like manner to be boiled out from the bruifed pod, and reduced afterwards to a proper confiftence, by evaporating the water.

The pulps of fruits that are both ripe and fresh, are to be pressed out through the fieve, without any previous boiling.

STYRACIS COLATIO. The straining of STORAX.

Boil storax calamita in water until it becomes foft; then preis it

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out betwixt warm iron plates: and feparate the florax, now purified, from the water.

The florax commonly met with stands greatly in need of purification. It contains a large quantity of woody matter; which this procels effectually frees it from, tho' in other respects liable to some inconveniencies. The woody fubstance in some measure defends the florax from the action of the prefs, and retains part of it behind : at the same time that a part of the effential oil of the drug, in which its peculiar fragrance resides, is dissipated by the heat. To prevent as much as possible this last inconvenience, the operator ought carefully to avoid using a greater heat fifting chiefly of dust and farinathan is absolutely necessary; and as foon as the storax is fusficiently foftened, to be expeditious in the flraining of it. It is worth trying, whether this refin does not commuboiled in: benzoine, with which it agrees in its other pharmacentical characters, imparts to water a faline matter fimilar to the fublimed flowers.

Storax may be excellently purified by means of spirit of wine, which this refin totally diffolves in, fo as to pais through a filtre, the impurities alone being left. If the ftorax is afterwards wanted in a folid form, it may be recovered from this folution by gently diffilling off the spirit, which will elevate very little of its flavour, or pouring to it a quantity of water.

OPIUM COLATUM, vel EX-TRACTUM THEBAICUM. STRAINED OPIUM, or the THE-BAIC EXTRACT.

Lond. Take of opium, cut into flices, one pound: diffolve it into the condiffence of a pulp, in a pint of

boiling water, with care to prevent its burning: and whilft it remains quite hot, strongly press it from the feces through a linen cloth: the strained opium is then to be reduced, by a waterbath or other gentle heat, to its original confiftence.

Opium thus foftened by a fmall quantity of water, passes the frainer entire, the feces only being left behind. If it was diffolved in a large quantity of water, its refinous and gummy parts would be separated from one another.

The impurities usually contained in opium are very different from those of the foregoing article; conceous matters, which are fo fine as partly to pass along with it through the pores of the strainer when dilated by the prefs: this manifestly appears upon boiling the strained nicate fomewhat to the water it is opium in water, and afterwards in fpirit; when a confiderable quantity of earthy matter will be left, which is not foluble in either of these menstrua.

> THE OTHER GUMS, as ammoniacum, galbanum, afafœtida and the like, are purified after the fame manner, only here a larger quantity of water may be made use of without injury. If the refinous part happens to fubfide, take it out, and reserve it to be added again towards the end of the inspissation, that it may unite with the rest into one uniform mass.

Any gum that melts eafily, as galbanum, may likewise be purified by including it in a bladder, and keeping it in boiling water, until the gum becomes foft enough to be pressed from its impurities through a canvas strain-

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Chap. 1. Simple Preparations.

In all these processes, care must be had, that the heat be neither too great nor too long continued. otherwise a considerable portion of the effential oils of the gums will be loft. In the straining of opium, this caution is perhaps the leaft necessary, the virtues of this drug refiding more in its fixed, than in the volatile parts: it is neverthelefs expedient, that the fmell of the opium, which affords an ufeful mark of its genuineness, be as much as poffible preferved; this, if the quantity of water was large, would be destroyed by the long evaporation which would then become ne-

In the Edinburgh dispensatory, opium and aloes are ordered to be dissolved in a sufficient quantity of water, the solution strained, and evaporated to the consistence of honey. Ammoniacum, galbanum, opopanax, and sagapenum, are dissolved either in water or vinegar.

MILLEPEDARUM PRÆPARA-RATIO.

The preparation of MILLEPEDES. ed.

The millepedes are to be inclosed in a thin canvas cloth, and sufpended over hot spirit of wine, in a close vessel, till they are killed by the steam, and rendered friable.

Edinb.

Let them be included in a proper vessel, and dried with a very gentle heat. After the same manner Bees are to be prepared.

BUFO PRÆPARATUS.

Prepared TOAD.

Edinb.

Put live toads into an earthen pot, and dry them in an oven moderately heated, till they become pulverable.

SANGUIS HIRCI præparatus.
GOATS BLOOD prepared.

Edinb.

About the beginning of fummer, take blood from any convenient artery of a middle-aged goat, and expose it, in a clean vessel, to the fun, or a moderately heated oven, till sufficiently dried.

CHAP-

CHAPTER II. CONSERVÆ. CONSERVES.

CONSERVES are compositions of recent vegetable matters and sugar. The subject is beat in a marble mortar, with a wooden pessle, first by itself and afterwards with thrice its weight of double refined sugar, until they are united into a smooth uniform mass. Leaves are previously to be picked from their stalks, and slowers from their

This management was introduced for preferving certain famples, undried, in an agreeable form, with as little alteration as possible in their native virtues. Nevertheless, aftringent and mucilaginous bodies have their virtues greatly injured by long keeping with fugar: fome flowers are of fo tender and delicate a texture, as almost entirely to lose their peculiar qualities by the treatment necessary to reduce them into this form: and in general, of the feveral substances that have been made into conserves, there are few which can be thus exhibited to advantage; the quantity of fugar being fo large that the compound cannot be taken in fufficient doses to lay any confiderable stress upon, without naufeating the stomach by their bulk.

Conferves are at prefent confidered chiefly as auxiliaries to medicines of greater efficacy; or as intermediums for joining them together. They are very convenient for reducing into bolules or pills, the more ponderous powders, as mercurius dulcis, the calces of iron, and other mineral preparations; which with liquid or lefs confiftent

matters, as fyrups, will not co-

The shops were formerly incumbered with many conserves altogether infignificant: the few now retained have in general either an agreeable slavour to recommend them, or are capable of answering some useful purposes as medicines. Their common dose is the bulk of a nutmeg, or as much as can be taken up at once or twice upon the point of a knife. There is in general no great danger of exceeding in this particular.

CONSERVA foliorum COCH-LEARIÆ hortenfis. CONSERVE OF the leaves of garden SCURVYGRASS. L. E.

This is the only form that fcurvygrafs in substance can be kept in without the total loss of its virtues. The conferve retains the taste and virtue of the herb for a considerable time: it is taken in scorbutic habits, three or four times a day or oftener; and if duly continued, will sometimes do fervice without any other assistance; though there are few practitioners who depend upon it by itself.

CONSERVA foliorum LUJULÆ.

CONSERVE OF the leaves of

WOODSORREL.

L. E.

This is a very elegant and grateful conferve: in taste it is lightly acidulous, with a peculiar flavour which some resemble to that of green tea. It is taken occasionally, for quenching thirst, and cooling

pers. It may be ufefully joined to the foregoing preparation, whose tafte.

CONSERVA foliorum MEN-THÆ valgaris. CONSERVE OF the leaves of SPEARMINT.

L. E.

The conferve of mint retains the tafte and virtues of the herb. It is given in weakness of the stomach and retchings to vomit; and not unfrequently does fervice in fome cases of this kind, where the warmer and more active preparations of mint would be less proper.

CONSERVA foliorum RUTÆ. CONSERVE OF the leaves of RUE.

This conferve is exhibited, from a dram to half an ounce, in crudities of the primæ viæ, for promoting digestion, and in hysteric diforders: it gently stimulates the folids, attenuates viscid juices, and excites the natural fecretions. Some have had a great opinion of it, taken in a morning, for preventing contagious difeafes.

CONSERVA fummitatum AB-SINTHII maritimi. CONSERVE OF the tops of fea WORMWOOD.

Lond. (Of the leaves of Roman wormwood.) Edinb

The conferve of wormwood has been celebrated in dropfies : Matthiolus relates, that feveral perfons were cured by it of that distemper, without the affidance of any other medicine. Where the diforder indeed proceeds from a viscidity of the juices, or a lax flaccid flate of

the mouth and fauces in hot diftem- the folids, this medicine may be of fome service: as it tends to attenuate the former, and strengthen the virtue it somewhat promotes, at the tone of the latter. It is directed to fame time that it improves the be given in the dose of half an ounce, about three hours before meals.

> CONSERVA florum LAVEN-DULÆ. CONSERVE OF LAVENDER flowers. L. E.

This conserve is not near fo fragrant as the flowers themselves. It is nevertheless a sufficiently agreeable one; and is fometimes exhibited as a mild cordial, and in debilities of the nervous fystem.

CONSERVA florum MALVÆ. CONSERVE OF the flowers of MALLOWS.

This is looked upon as an emollient, and fometimes made use of as fuch in diforders of the breaft and urinary passages. It may be taken in any quantity that the stomach will bear.

CONSERVA florum ROSARUM rubrarum immaturarum. CONSERVE OF the buds of red ROSES. L. E.

This is a very agreeable and useful conserve. A dram or two, dissolved in warm milk, are frequently given as a light reftringent. in weakness of the stomach, and likewife in coughs and phthifical complaints. In the German ephemerides, examples are related of very dangerous phtifics cured by the continued use of this medicine: in one of these cases, twenty pounds of the conferve were taken in the space of a month; and in another, upwards of thirty.

CON-

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CONSERVA florum RORISMA- conferve: the pulp is apt to carry with it fome of the prickly fibres.

CONSERVE OF ROSEMARY

flowers.

Rofemary flowers in great meafure lofe their peculiar fragrance by beating, and hence the conferve has very little of their flavour. Some are therefore accustomed to make this preparation from the leaves of the plant (which retain their virtues under the pessle) or at least to add a portion of these to the flowers. The conserve of rosemary is directed in weakness of the nerves, and as a light cordial.

CONSERVA flavedinis CORTI-CUM AURANTIORUM Hifpalenfium.

GONSERVE OF the yellow rind of Seville ORANGE PEEL.

L. E.

This conferve is a very elegant one, containing all the virtues of the peel in a form fufficiently agreeable both with regard to the dofe and the conveniency of taking. It is a pleafant, warm, flomachic bitter; and in this intention is frequently made use of.

CONSERVA FRUCTUS CY-NOSBATI. CONSERVE OF HIPS.

L.E.

Hips require less sugar for reducing them into a conserve than the substances above enumerated. Twelve ounces of the pulp of the ripe fruit are to be mixed with only twenty ounces of sugar.

The conferve of hips is of some effect as a soft, cooling restringent; three or four drams or more are given at a time, in bilious stuxes, sharpness of urine, and hot indispositions of the stomach. A good deal of care is requisite on the part of the apothecary in making this

with it fome of the prickly fibres, which the infide of the fruit is lined with; if these are retained in the conserve, they will irritate the stomach, so as to occasion vomiting.

CONSERVAPRUNORUM SYL-VESTRIUM. CONSERPE OF SLOES.

Lond.

Let the floes be put into water, and fet over the fire till they grow foft, with care that they do not burft. Then take the floes out of the water, prefs out their pulp, and mix with it thrice its weight of double refined fu-

This preparation is a gentle aflringent, and may be given as fuch in the dofe of four or five drams. The degree of its aftringency will vary according to the maturity of the floes, and the length of time that the conferve has been kept.

NOTE,

In making conferves, the leaves, flowers, &c. are to be reduced into a perfectly fmooth mass, and the fugar pulverized by ittelf and passed through a fieve, before they are mixed with one another.

Some fimples are fearce reducible to the requifite fineness by beating in a mortar; fuch is orange peel. This is most conveniently rasped or grated, then well mixed with the sugar, and set by in a close vesiel for some weeks; when the compound will more easily beat smooth. This peel, and the rose buds, are commonly ground in wooden mills made for that purpose.

Some of the leaves, when very turgid and full of juice, may be fuffered to dry a little before beating; otherwise the conserve turns out too fost and almost liquid.

CHAP-

CHAPTER III.

CONDITA.

PRESERVES.

PRESERVES are made, by fleeping, or boiling recent fimples, first in water, and then in syrup, or folution of sugar. The subject is afterwards either kept moist in the syrup, or taken out and dried, that the sugar may candy upon it; this last is the most usual method.

In this process, some of the valuable parts of the subject are extracted by the liquor, and consequently lost to the preparation; greater regard being here had to palatableness than medicinal efficacy. And indeed most of the preparations of this kind are considered rather as sweetmeats than as medicines; as the business of the confectioner rather than of the apothecary. It would be needless therefore to mention the doses of the several articles, or give particular remarks on the manner of preparing them.

Lond. RADIX ERINGII CONDITA. CANDIED ERINGO ROOTS.

Boil them in water, till the rind will eafily peel off: when peeled, flit them thro' the middle, take out the pith, and wash them three or four times in cold water. For every pound of the roots so prepared, take two pounds of double refined sugar, which is to be dissolved in a proper quantity of water, and set over the sire: as soon as the li-

quor begins to boil, put in the roots, and continue the boiling till they are foft.

After this manner are candied ANGELICA CAULES.

ANGELICA STALKS.

CORTEX AURANTIORUM CONDITUS.

CANDIED ORANGE PEEL.
Steep the fresh peels of Seville oranges in water, which is to be frequently renewed, until they lose their bitterness. Then, having dissolved in water a suitable quantity of double refined sugar, boil the peels in this liquor till they become soft and transparent. After the same manner are candied LIMONUM CORTICES.

LEMON PEELS.

Edinb.

In the fame, or a fimilar manner, may likewife be candied, RADICES ANGELICÆ. Angelica roots.

RADICES HELENII. Elecampane roots.

RADICES SCORZONER Æ.
The roots of Scorzonera.

RADICES SYMPHYTI.

Comfry roots.

CORTICES CITREORUM.

R

AII

All forts of fruits, flowers, and feeds may also be preserved, either by keeping them in syrup, or crusting them over with sugar; but these kinds of preparations scarce belong to the art of pharmacy.

Nutmegs and ginger are brought to us ready candied from the East Indies.

MARS SACCHARATUS.
Sugar'd ficel.

Put any quantity of clean filings of iron into a brafs kettle, fufpended over a very gentle fire. Add to them, by little and little, twice their weight of white fugar, boiled to the confiftence of candy; agitating the kettle continually, that the filings may be crufted over with the fugar, and taking great care to prevent their running into lumps.

This is a very agreeable preparation of steel; but the apothecaries never make it. The confectioners follow the proportions directed here; but they employ, besides, a certain medium, without which, the matter runs into lumps; and of this they make a secret.



CHAP-

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CHAPTER IV.

SUCCI

FUICES.

recent plants, &c. by exprefcluded in a hair bag, and committed to the press.

If over bruifed, a large quantity of the herbaceous matter will be forced out along with the juice. Hempen or woollen bags are apt to communicate a difagreeable flayour; the threads of these likewise fwell in proportion as they imbibe moisture, fo as in great measure to prevent the free percolation of the

Thefe liquors, when newly expressed, are generally thick, viscid, and very impure: by colature, a quantity of grofs matter is feparated, the juice becomes thinner, limpid, and better fitted for medicinal purpofes, though as yet not entirely pure: on standing, it becomes again turbid, and apt to run into a fermentative or putrefactive state. Clarification with whites of eggs renders the juices more perfeetly fine; but there are few that will bear this treatment without a manifest injury to their flavour, tafte and virtue.

The most effectual method of purifying and preferving these liquors, is, to let the strained juices fland in a cool place, till they have deposited their groffer feces, and then gently pass them several times

UICES are obtained from through a fine strainer till perfectly clear; when about one fortieth part fion. The subject is first cut and their weight of good spirit of wine moderately bruifed: then in- may be added, and the whole fuffered to stand as before: a fresh fediment will now be deposited, from which the liquor is to be poured off, strained again, and put into fmall bottles that have been washed with spirit and dried. A little oil is to be poured on the furface, fo as very nearly to fill the bottles, and the mouths closed with leather, paper, or flopt with flraw as the flasks in which Florence wine is brought to us: this ferves to keep out dust, and suffers the air, which in process of time arises from all vegetable liquors, to escape; which air would otherwise endanger the glasses, or being imbibed afresh, render their contents vapid and foul. The bottles are to be kept on the bottom of a good cellar or vault. By this method juices may be preserved for a year or two; and some for a much longer time. Those which are not injured in their virtue by gentle evaporation, are advantageously inspissated to the confistence of a fyrup, of honey, or even to that of a folid extract.

> SUCCI SCORBUTICE. The SCORBUTIC JUICES. Lond.

Take of the juice of

Gar

Garden scurvygrass, two pints; Brooklime, one pint;

Water creffes, one pint; Seville oranges, a pint and quarter.

Mix them together, let them fland till the feces have subsided, and then either pour the liquor off clear, or pass it through a strain-

Edinb.

Take of

Juice of garden fcurvygrafs, oranges, each one pint and a half; water creffes,

brooklime, each one pint; Double refined fugar, ten ounces; Compound horse-radish water; half a pint.

Mix the juices with the fugar, and depurate them according to art : then add the spirituous water.

Both these compositions are of confiderable use for the purposes expressed in the title: the orange juice is an excellent affiftant to the fourvygrafs and other acrid ant scorbutics, which thus mixed, have been found from experience to produce much better effects than when exhibited by themselves. These juices may be taken, from two or three ounces to as much as the flomach can bear, two or three times a day: they generally increase the urinary secretions, and fometimes introduce a laxative habit. Preferved with the cautions above mentioned, they will keep good for a confiderable time: though, whatever care be taken, they are found to answer better when fresh.

ROB BACCARUM SAMBUCI. ROB OF ELDER BERRIES.

berries be inspissated with a gentle heat.

Edinb.

Take two quarts of the jpice of ripe elder berries, and half a pound of refined fugar. Evaporate over a gentle fire, or in a water bath, to the confiftence of honey.

This rob prepared with or without fugar, keeps well; and proves a medicine of confiderable confequence. It is a powerful saponaceous refolvent, opens obstructions of the viscera, promotes the natural fecretions, by floo!, urine and fweat, and by this means does fervice in fundry chronical diforders. The dose is from a dram or two to an ounce or more. A fpoonful, diluted with water, is usefully taken, in common colds, at bed

Succus prunorum filvestrium, five ACACIA GERMANICA

Juice of floes, or GERMAN ACACIA. Edinb.

Let any quantity of the juice of unripe floes be inspissated over a gentle fire.

This is a moderately strong astringent, similar to the Egyptian acacia, for which it is not unfrequently substituted (see page 187.) It is given in fluxes, &c. from a feruple to a dram.

GELATINA feu miva CYDONIORUM. GELLY, or marmalade of QUINCES. Edinb.

Take three pints of depurated quince juice, and a pound of white fugar. Boil them together, according to art.

This is an uteful, cooling, re-Let the depurated juice of elder firingent medicine: it is given in

weakness of the stomach, retchings to vomit, diarrheas and dysenteries, proceeding from an hot indisposition, or sharp bilious humours. The dose is from a dram to half an ounce or more, or as much as can conveniently be taken, at once or twice, upon the point of a knife.

GELATINA BERBERORUM. GELLY OF BARBERRIES. Edinb.

Take a pound of barberries picked clean from the stalks, and the same quantity of white sugar.

Boil them with a gentle heat, to a due consistence; then pass the gelly through a flannel cloth.

GELATINA RIBESIORUM. GELLY OF CURRANTS, Edinb.

is prepared after the same manner. Here the trouble of expression is faved, these fost fruits freely giving out their juice, which incorporates with the fugar, in the process. Both these preparations are gratefully dulco-acid and cooling, and in this intention are occasionally made use of, for moistening the mouth and fauces in febrile or inflammatory distempers. Dissolved in water, they afford an useful diluent drink, of a faponaceous nature, which mingles with the blood or its ferum when thickened (as in fome kinds of fevers) where pure water runs off by the kidneys almost unchanged. By the same qualities, they prove ferviceable likewife in chronical diforders proceeding from obstructions of the vifcera or accompanied with immoderate heat: in bilious fluxes and putrid fcurvies, their liberal and continued use has sometimes had good effects. Boerhaave great-

weakness of the stomach, retchings by commends these kinds of preparations on the stomach, retchings by commends these kinds of preparations in the scorbutic disorders to which seafaring people are particularly subject.

ELATERIUM.

Slit ripe wild cucumbers, and having very lightly pressed out the juice, pass it through a fine hair sieve, into a glazed earthen vessel. After standing for some hours, the thicker part will fall to the bottom, when the thinner is to be poured off, and what liquid matter is still left, separated by filtration. The remaining thick part is to be covered with a linen cloth, and exposed to the sun or other gentle heat till grown throughly dry.

The common method of filtration does not succeed here : for the groffer parts of the juice, falling to the bettom, fink into the paper, and prevent the more liquid from passing through. The filtration therefore must be attempted in another manner, fo as to drain the liquor from the top: this may be effected by placing one end of fome ftrips of woollen cloth, skains of cotton or the like, in the juice, and laying the other over the edge of the vessel so as to hang down lower than the furface of the liquor: thus managed, the separation of the more fluid part fucceeds in perfection.

Elaterium is a firong cathartic, and oftentimes proves violently emetic. It is exhibited, in cases where medicines of the most powerful kind are necessary, from one to four or five grains; and sometimes added in smaller quantities as a slimulus to the weaker purgatives.

R₃

EX-

EXTRACTUM PLANTAGI-

EXTRACT of PLANTANE.

Take any quantity of the juice of plantane. Depurate it, either by fuffering the juice to rest and then decanting off the clear liquor, or by colature, or by clarification with whites of eggs. Afterwards evaporate the juice, in balneo mariæ, to the consistence of honey.

After the fame manner extracts may be made from any acid, or flyptic plant.

The extract of plantane is faid to be a mild aftringent; and as such, has sometimes been given in the dose of a dram or two, in diarrheas, and other disorders where medicines of that class are indicated. The present practice holds it in no great esteem.



CHAP.

CHAPTER V.

EXTRACTA et RESINZE EXTRACTS and RESINS.

EXTRACTS are prepared from certain vegetable fubiliances, fufficiently impregnated with its virtues, the decoction passed through a strainer, and set by till the feces have fubfided: the liquor is then poured off clear, thing either of the tafte, fmell, or and evaporated to a pilular convirtues of the flowers. fiftence; care being taken towards the end of the operation, RESINS may be prepared, nearly that the matter do not burn to the veffel.

This process affords us some of the more active parts of plants, largest share of their bulk. There is a great difference in vegetable fubflances, with regard to their fitness for this operation; fome yielding to it all their virtues, and others fcarce any. Those parts in which the fweet, glutinous, emollient, cooling, bitter, austere, astringent virtues refide, are totally extracted by the boiling water, and remain almost entire upon evaporating it: whilft those which contain the peculiar odour, flavour, and aromatic quality, are either not extracted at all, or exhale along with the menstruum, and may be collected by another process to be spoken of hereafter. Thus gentian root, which is almost simply bitter, yields an extract possessing, in a small volume, the whole taffe and virtues of the root: wormwood, which has a degree of warmth and throng

flavour joined to the bitter, lofes the two first in the evaporation, and gives an extract not greatly diffeby the means of water; which rent from the foregoing; the arois first boiled on the subject till matic quality of cinnamon is distipated by this treatment, its aftringency remaining; whilst an extract made from the flowers of lavender and rofemary, discovers no-

> in the fame manner, by using rectified spirit of wine instead of water.

This menstruum, besides the free from the ufeleis, indifiolable, fweet, bitter, astringent, or purgaearthy matter, which makes the tive matter of plants, diffolves those parts in which their flavour, odour, and aromatic virtues refide; and does not readily carry them off in its exhalation; the heat fufficient to exhale pure spirit, being much less than that in which water confiderably evaporates, or vegetable odours distil. Hence a refin, or rather spirituous extract, of wormwood, contains the warmth and flavour, as well as the bitterness of the herb; one made from cinnamon possesses its aromatic virtue, as well as its aftringency; and one from lavender and rolemary flowers retains the flavour and virtue of the fubiect.

It is observable, that although rectified spirit is the proper menstruum only of the pure volatile oil, and the groffer refinous matter of vegetables, and water only of the mucilaginous and faline; yet

these principles are in almost all ly resinous, and whose virtues conplants fo intimately combined together, that which ever of thefe liquors is applied at first, it will water, though not equal to those take up a portion of whatever is obtained directly foluble only in the other. of spirit. Hence fundry vegetables, extreme-

fift chiefly in their refin, afford neverthelefs very ufeful extracts with obtained by a prudent application

General rules for making EXTRACTS with water.

are used fresh or dry; since nothing that can be preserved in this process, will be lost by drying.

2. The more compact and refinous vegetable matters, should, if possible, be used fresh; as in this state they most readily give out their virtues.

3. Very compact dry substances fhould be reduced into exceeding fmall parts, previous to the affusion

of the menstruum.

4. The quantity of water ought to be no greater than is necessary for extracting the virtues of the fubject. A difference herein will fometimes occasion a variation in the quality of the product : the larger the quantity of liquor, the longer fire will be requisite for evaporating it, and confequently the more of the volatile parts of the subject will be dissipated. A long continued heat likewise makes a confiderable alteration in the matter which is not volatile: fweet fubstances by long boiling with water become naufeous; and the draftic purgatives lofe their virulence; though without any remarkable feparation of their parts.

5. The decoctions are to be depurated by colature; and after-wards fuffered to fland for a day or two, when a confiderable quantity of fediment is usually found at the bottom. If the liquor, poured off clear, be boiled down a little, and afterwards suffered to cool again, it will deposite a fresh sediment, moistened with sweet oil [E.]

1. It is indifferent whether herbs from which it may be decanted before you proceed to finish the evaporation. The decoctions of very refinous fubflances do not require this treatment, and are rather injured by it; the refin fubfiding along with the feculent matter.

6. The evaporation is most conveniently performed in broad shallow veffels: the larger the furface of the liquor, the fooner will the aqueous parts exhale: this effect may likewise be promoted by agi-

tation.

7. When the matter begins to grow thick, great care is necessary to prevent its burning. This accident, almost unavoidable if the quantity is large, and the fire applied as usual under the evaporating pan, may be effectually fecured against, by carrying on the inspissation after the common manner, no farther than to the confistence of a fyrup, when the matter is to be poured into shallow tin, or earthen pans, and placed in an oven, with its door open, moderately heated; which acting uniformly on every part of the liquid, will foon reduce it to any degree of confiftence required. This may likewise be done in balneo mariæ, by fetting the evaporating vestel in boiling water; but the evaporation is here exceeding flow and tedious.

8. Extracts are to be fprinkled with a little spirit of wine, to prevent their growing mouldy [L.] They should be kept in bladders

EXTRA-

EXTRACTUM radicum
ENULÆ CAMPANÆ.

EXTRACT OF the roots of
ELECAMPANE.

Lond.

This extract retains a great share of the virtues of the root: its taste is somewhat warm, and not ungratefully bitterish. It is given, from a scruple to a dram, in a lax state of the sibres of the stomach, and some disorders of the breast.

EXTRACTUM radicum GENTIANÆ. EXTRACT OF the roots GENTIAN. [L. E.]

EXTRACTUM foliorum ABSINTHII. EXTRACT OF the leaves WORMWOOD. [E.]

EXTRACTUM foliorum CENTAURII MINORIS. EXTRACT OF the leaves of LESSER CENTAURY. [E.]

EXTRACTUM florum CHAMÆMELI. EXTRACT OF CHAMÆMEL floruers. [E.]

These extracts are almost simply bitter; the peculiar flavour of fuch of the subjects as have any, being diffipated in the evaporation : the chemists usually prepare the extracts of wormwood and chamæmel flowers, from the decoction which remains in the still after the distillation of their effential oils: and, provided the fill has been perfectly clean, and the liquors not flood too long in it after the distillation, this piece of frugality is not to be difapproved of; fince whether we catch the exhaling vapour, or fuffer it to diffipate in the air, the remaining extract will be the fame.

For the virtues of these preparations, see the articles BITTERS. The dose is from one scruple, or less, to three or sour.

> EXTRACTUM radicum HELLEBORI NIGRI. EXTRACTS OF the roots of BLACK HELLEBORE.

This extract purges with confiderably lefs violence than the crude root; and is perhaps one of the best preparations of hellebore, when intended to act only as a cathartic. The dose is from eight or ten grains to a scruple, or more.

EXTRACTUM foliorum RUTÆ. EXTRACT OF RUE leaves. [L.]

EXTRACTUM foliorum SABINÆ. EXTRACT OF the leaves of SAVIN. [L.]

The virtues of these plants reside chiefly in their volatile parts: nevertheless the extracts contain a greater share of them than might be expected, provided they are prepared with suitable address, according to the general directions.

EXTRACTUM GLYCYRRHIZÆ. EXTRACT OF LIQUORICE.

Lightly boil fresh liquorice roots in water, press the decoction through a strainer, and after the feces have subsided, evaporate it until it no longer slicks to the singers, taking care, towards the end of the operation, to prevent an empyreuma.

It is convenient, before boiling the root, to cut it transversely into small pieces, that it may more readily give out its virtues to light coction: if the boiling is long continued,

tinued, the rich fweet tafte, for Upon powdered jalap, pour some which this preparation is valued, will be greatly injured. For the fame reason, the quantity of water ought to be no larger than is abforlutely necessary to extract the virtues of the root: a quart, or at most three pints, will be fully fufficient for a pound of liquorice. It would be of confiderable advantage to the preparation, and probably (when made in quantity) lefs expenfive to the preparer, to use instead of the decoction, juice of liquorice. preffed out betwixt iron rollers, after the manner practifed abroad for obtaining the juice of the fugar

Large quantities of extract of liquorice have been usually brought to us from Spain, and other foreign countries; but it is very rarely met with in the shops in perfection; the makers of this commodity both at home and abroad, being either very flovenly in its preparation, or designedly mixing it with sand, and other impurities. When made with due care, it is exceedingly fweet, not at all bitterifh, or naufeous, more agreeable in tafte than the root itself, of a pleasant smell, a reddish brown colour, and when drawn out into strings of a bright golden colour; totally foluble in water, without depositing any

This preparation would be very convenient for many purpofes in the shops, if kept in a somewhat fofter confistence than that of an extract. The only inconvenience attending this foft form is, its being apt in a short time to grow mouldy: this may be effectually prevented, by the addition of a fmall portion of spirit of wine.

EXTRACTUM JALAPI. EXTRACT OF JALAP. Lond.

rectified spirit of wine, and with a gentle heat, extract a tincture : boil the remaining jalap in fresh parcels of water. Strain the first tincture, and draw off the spirit. till what remains begins to grow thick: boil the strained decoc-tion also to a like thickness: then mix both the inspissated matters together, and with a gentle fire, reduce the whole to a pilular confistence.

This extract is an ufeful purgative, preferable to the crude root. as being of more uniform flrength, and as the dose, by the rejection of the woody parts, is rendered fmaller: the mean dose is twelve grains. If the spirituous tincture was inspissated by itself, it would afford a refinous mass, which occasions violent griping, and yet does not prove fufficiently cathartic; the watery decoctions yield an extract which operates exceeding weakly : both joined together, as in this preparation, compose an effectual and fafe purge. This method of making extracts might be advantageously applied to fundry other refinous substances, as the dry woods, roots, barks, &c. a fmall quantity of spirit takes up the refin, and much less water than would otherwise be necessary extracts all the other foluble parts. Where the subject has any peculiar flavour, this is readily imbibed by the spirit, and as it does not arise with the menstruum in exhalation, is retained in the extract; whilft if water was applied at first, it is entirely diffipated.

Edinb. Take any quantity of jalap root, very well bruifed, pour upon it as much rectified spirit of wine as will cover it to the height of four fingers, and digeft them together in a fand heat : pour off this tincture, and put to the remaining magma a fufficient quantity of water, with a little falt of tartar: boil them together for an hour; then pass the decoction through a strainer, and afterwards evaporate it to the consistence of honey, mixing in, toward the end of the evaporation, the spirituous tincture, and keeping them continually stirring, that the whole may be reduced into an uniform mass.

Here, the fpirituous tincture is added without any previous infpiffation to the thickened decoction, in order that the refinous and gummy parts may be the more perfectly intermixed. With regard to the intermixed. alcaline falt, half a dram, or two fcruples thereof were, in former editions of the Edinburgh dispensatory, directed to be added to each ounce of every kind of extract, to keep the preparation the longer moist : it feems here principally intended to promote the action of the water as a menstruum upon the root; neverthelefs, water alone is fufficiently able to extract all the medicinal parts which remain in jalap after spirit of wine has duly performed its office. It should feem not quite fo convenient, if the fixt falt be thought an ufeful ingredient, to leave its quantity to be determined at the difcretion of every compounder: fince different quantities will not only alter the dole of the medicine, but vary its action more than may be at first suspected

EXTRACTUM LIGNI CAMPECHENSIS. EXTRACT OF LOGWOOD. Lond.

Take of logwood, reduced to powder, one pound. Boil it in a gallon of water till half the liquor is confumed, repeating the coction with fresh water four times, or oftner: the feveral decoctions are to be mixed together, passed through a strainer, and evaporated to a due consistence.

This wood very difficultly yields its virtue to watery menstrua, and hence the reducing it into fine powder is extremely necessary. The Edinburgh dispensatory directs spirit of wine to be called in aid, as in the foregoing preparation. The extract of logwood has been used for a confiderable time in fome of our hospitals, but is now first received into the pharmacopæia. It has an agreeable sweet taste, with fome degree of affringency; and hence becomes serviceable in diarrhæas, for blunting the acrimony of the juices, and moderately conftringing the intestines and orifices of the smaller vessels: it may be given from a fcruple to half a dram, and repeated five or fix times a day to advantage. During the use of this medicine, the stools are frequently tinged red by it, which has occasioned some to be alarmed, as if the colour proceeded from blood: the prescriber therefore ought to caution the patient against any furprize of this kind.

EXTRACTUM CORTICIS PERUVIANI molle et durum. EXTRACT OF PERUVIAN

EXTRACT OF PERUVIAN

BARK,

foft and hard.

Lord.

Boil a pound of powdered bark in five or fix quarts of water, for an hour or two, and pour off the liquor, which whilft hot will be red and transparent, but on growing cold becomes yellow and turbid. The remaining bark is to be boiled again in the fame quantity of water as before, and this process repeated till the liquor

quor remains transparent when cold. All the decoctions, strained and mixed together, are to be evaporated over a very gentle fire to a due consistence, care being taking to prevent the matter from burning.

This extract is directed to be kept in the shops, both in a foft and a hard form; the first of a proper consistence for making into pills: the other sit for being

reduced into powder.

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Peruvian bark is a very refinous drug: the refin melts out by the heat, but is not perfectly dissolved by the water; hence, in cooling, it separates, renders the liquor turbid, and in part falls to the bottom, as appears manifestly upon examining the fediment by spirit of wine (see the account of this article in page 180. This extract might be made to better advantage by the affiftance of spirit of wine, after the fame manner as that of jalap; and this method the Edinburgh college have directed. But, as the committee observe, all the spirits which can be expected to be employed for this process among us, are accompanied with fome degree of a bad flavour: this adheres most strongly to the phlegmatic part of the fpirit, which evaporating last, must communicate this ill flavour to the extract; a circumstance of very great consequence; as this medicine is defigned for fuch whose flomachs are too weak to bear a due quantity of bark in fubstance. Ten or twelve grains of the hard extract are reckoned equivalent to about half a dram of the bark itself.

EXTRACTUM ligni GUAIACI, molle et durum. EXTRACT OF GUAIACUM

wood, foft and hard. Lond. Boil a pound of fhavings of guaiacum in a gallon of water, till half the liquor is wasted, repeating the operation four times, or oftner, with the fame quantities of fresh water. feveral decoctions, passed thro' a strainer, are to be mixed and inspissated together; when the aqueous parts are almost entirely exhaled, a little rectified fpirit of wine is to be added, that the whole may be reduced into an uniform and tenacious mass. This extract is to be prepared, as the foregoing, in a foft and hard form.

Here the refinous part of the wood which were boiled out with the water, are apt to separate towards the end of the inspissation: hence an addition of spirit becomes necessary, to keep them united with the rest of the matter. The extract agrees in virtue with the wood, see page 135.

EXTRACTUM CATHAR-TICUM. CATHARTIC EXTRACT. Lond.

Take of

Socotorine aloes, an ounce and an half; Colocynth, fix drams; Scammony, half an ounce; Leffer cardamoms, husked, half an ounce;

Proof spirit, one pint.

Having cut the colocynth small, and bruised the seeds, pour on them the vinous spirit, and digest with a gentle heat for four days. Press out the tincture, and dissolve therein the aloes and scammony, first separately reduced to powder: then draw off the spirit, and inspissate the remaining mass to a pilular consistence.

The title of this medicine expresses presses its virtue. It is a very powerful cathartic, and relied on in cases where the life of the patient depends on its taking effect: the dose is from fifteen grains to two feruples. It does not retain fo much of the flavour of the cardamom feeds as might be expected.

In the Edinburgh pharmacopæia, this extract is directed as follows.

under the name of PILULÆ, feu EXTRACTUM. RUDII.

The PILLS or EXTRACT of RUDIUS.

Take of Black hellebore roots, Colocynth,

Socotorine aloes, each two ounces;

Scammony, one ounce; Vitriolated tartar, two drams; Distilled oil of cloves, one dram. Bruife the colocynth and hellebore, pour on them two quarts of water, and boil to the confumption of half the liquor: pass the decoction through a flrainer, and evaporate it to the confiftence of honey; then add the aloes and fcammony, reduced into fine powder : when the mass is taken from the fire, mix into it the vitriolated tartar, and distilled oil.

GUMMI et RESINA ALOES. GUM and RESIN OF ALOES. Lond.

Boil four ounces of focotorine aloes in two pints of water, till as much as possible of the aloes is dissolved. The solution suffered to rest for a night, will deposite the refin to the bottom of the veffel : after which, the remaining liquor, firained, if needful, is to be evaporated, that RESINA CORTICIS PERUVIthe gum may be left.

less purgative, and confiderably

less disagreeable than the crude This alteration is not owjuice. ing, as might be supposed, to the feparation of the refin; for the pure refin of aloes is still less difagreeable, and less purgative, even than the gum; fome have denied that it has any purgative virtue at all, and others afcribe to it an aftringent quality. I have exhibited this refin, divided by trituration with the testaceous powders, in the dose of a fcruple, without observing any effect from it (fee page 74.) The gum feems to be the only part here intended for medicinal use: if the resin is required, it ought to be farther purified by folution in fpirit of wine : for as it is obtained by precipitation from an aqueous folution of impure aloes, all the impurities of the drug, that are not foluble in water, will precipitate along with it.

RESINA JALAPPÆ. RESIN OF TALAP. Edinb.

Take any quantity of jalap root, very well bruifed; pour upon it as much rectified spirit of wine as will cover the root to the height of four fingers, and digest them together in a fand heat, till a tincture is extracted.

Filter this tincture through paper, put it into a glass cucurbit, and diftil off one half of the spirit : pour on the refiduum a sufficient quantity of water; the refin will be precipitated to the bottom : which is afterwards to be dried for use, with a very gentle heat.

After the same manner are pre-

RESINA GUAIACI. RESIN OF GUALACUM. [E.]

The gum of aloes is fomewhat RESIN OF PERUVIAN BARK. Edinb.

RESINA

RESINA SCAMMONII.
RESIN OF SCAMMONY, &c.
Edinb.

All thefe are pure refins, fuch cummy parts as the spirit might have taken up, remaining fulponded in the liquor after the addition of the water, whilst the refin precipitates. This indisfolubility in aqueous fluids, and their tenacious quality by which they adhere to the coats of the intestines, occasion gripes, and other inconveniencies: forbids exhibiting them by themfelves: they may be fitted for use by triturating them with teffaceous powder, or with almonds, into the form of an emulfion, or by diffolying them in spirit of wine, and mixing the folution with a proper quantity of fyrup. Six or eight grains of the refins of jalap, or feammony, managed in this manner, prove powerfully cathartic, without griping, or greatly difordering the body.

In the former editions of this work, it is faid, that refin of jalap is frequently adulterated with common refin; and that this abuse may be discovered by spirit of wine, which dissolves the former, without touching the latter. This criterion, however, is not to be relied on; for there are many cheap
resins which are soluble in spirit of
wine, as well as that of jalap; and
there is not any one which may not
be artfully rendered so.

Edinb.

The refin of guaiacum may be more commodiously made from gum guaiacum, than from the wood.

Gum guaiacum, as it is called, is very impure, and contains, befides it's refin, a large quantity of mucilaginous and earthy matter: this method of purifying it therefore is very necessary. The refin extracted from the wood and from the gum, are in quality the fame: fixteen ounces of the wood yield about three of refin, more or lefs according to the goodness of the wood: the fame quantity of the gum, commonly met with, nine or ten; and the best not above twelve. The bark is fomewhat less refinous than the wood.

CHAP.

CHAPTER VI.

OLEA per EXPRESSIONEM.

OILS by EXPRESSION.

nels of fruits, by pounding them of this kind. in a stone mortar, and then in- OLEUM AMYGDALINUM. cluding them in a canvas bag, which is wrapt in a hair cloth, and committed to the press not heated.

The canvas, if employed alone, would be squeezed so close to the plates of the press as to prevent the oil from running down: by the interpolition of the hair bag, a free passage is allowed it.

The expression of the oil is greatly facilitated by heat: hence those who prepare these oils for mechanical uses, heat the plates of the press confiderably. For medicinal purposes, this is by no means allowable; as the oil becomes lefs foft and palatable, and subject to grow rancid.

Nor must the oils be kept in a warm place after the expression. Exposed but for a few days to a heat no greater than that of the human body, they lofe their emollient quality, become extremely rancid and acrimonious; and in this state, instead of softening and relaxing, irritate and inflame.

So much are these oils disposed to this difagreeable alteration, that they frequently contract an acrimony before their expression from the fubject : hence the unctuous feeds and kernels are often met with very rancid. This observation affords an ufeful caution, to be very careful in the choice of

HESE oils are obtained these substances: almonds are part from certain feeds and ker- ticularly liable to inconveniencies

OIL OF ALMONDS.

L. E. This is prepared from the fweet and bitter almonds indifferently; the oils obtained from both forts being altogether the fame.

OLEUM JUGLANDIUM. OIL OF WALNUTS. [E] OLEUM SEMINUM LINI. OIL OF LINSEED. [L.E. OLEUM SEMINUM SINAPI. OIL OF MUSTARD SEED. [L. E.]

Thefe oils have nothing of the peculiar tafte or flavour of the fubjects from which they are obtained: the oil of multard feed is as foft, infipid and void of pungency as that of fweet almonds, the pungency of the mustard remaining entire in the cake left after the expression. When in perfection, they are all very nearly of the fame quality, and agree in one common emollient virtue. They foften and relax the folids, and obtund acrimonious humours: and thus become ferviceable, internally, in pains, inflammations, heat of urine, hoarfeness, coughs, &c. in glysters, for Inbricating the intestines, and promoting the ejection of indurated feces; and in external applications for tenfion and rigidity of particular parts. They are given inwardly, from half an ounce to three ounces or more.

CHAP-

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CHAPTER VII.

OLEA per DISTILLATIONEM.

OILS by DISTILLATION.

are divided into two classes. The first comprehends such oils as possess the fmell, and fometimes the taffe. of the subject from which they were drawn: these are called effential. The fecond takes in those which bear little or no resemblance to the original vegetable, being fo altered

HE oils obtainable by diffilla- by the process for obtaining them. tion from vegetable matters that they all appear to the fenfes nearly fimilar, agreeing in one common burnt fmell or taffe; whence they are named empyreumatic. The effential oils are obtainable only from a few, the empyreumatic from every kind of vegetable

Class I.

OLEA ESSENTIALIA.

ESSENTIAL OILS.

Effential oils are drawn by diftillation in an alembic, with a large refrigeratory. A quantity of water is added to the subject, sufficient to prevent its burning; and in this water, it is likewife macerated a little time before the diffillation. The oil comes over along with the water; and either fwims on its furface, or finks to the bottom, according as it is lighter or heavier than that fluid. [L.]

All vegetables, as we have obferved above, are not proper for this kind of distillation; some, which if we were to reason from analogy should seem very well sitted for this process, yielding expromifes abundance, are found up-

on experiment to contain but a fmall quantity: the violet and jafmine flower, which perfume the air with their odour, lose their fmell upon the gentlest coction, and do not afford the least perceptible mark of oil upon being diffilled: whilft favin, whose difagreeable fcent extends to no great distance, gives out the largest quantity of almost any vegetable substance known.

Nor are the fame plants equally fit for this operation when produced in different foils or feafons; or at different times of their growth. Some yield thrice as much oil if gathered when the flowers begin to fall off as at any other time; tremely little oil, and others none lavender and rue for instance. Oat all. Roses and chamæmel flow- thers, as sage, afford the largest ers, whose strong and lasting smell quantity when young, before they

have fent forth any flowers: and others, as thyme, when the flow-All fraers have just appeared. grant herbs vield a larger proportion of oil when produced in dry foils and warm fummers, than in the opposite circumstances. On the other hand, some of the difagreeable strong-scented ones, as wormwood, are faid to contain most, in rainy seasons and moist rich grounds.

It has been observed, that herbs and flowers give out a confiderably larger quantity of oil after they have been exposed for some time to the action of a dry air in a shady place, than if committed immediately either to maceration or di-The drying however stillation. must not be too long continued, otherwise the oil will receive a disagreeable alteration in colour and fmell, and likewife a diminution in

quantity. With regard to the proportion of water, if whole plants moderately dried, are used, or the shavings of woods; as much of either may be put into the veffel, as, lightly preffed, will occupy half its cavity; and as much water may be added, as will arise up to two thirds its height. The water and ingredients all together, should never take up more than three fourths of the ftill; there should be liquor enough to prevent any danger of an empyreuma, but not fo much as to be too apt to boil over into the receiver.

tinued fo long, as that the water

quire the maceration to be continued a week or two, or longer; for those of a fofter and loofer texture, two or three days are fufficient; whilft fome tender herbs and flowers fland not in need of any at all, or are

even injured by it.

Where the maceration is long continued, fome fea falt, nitre, or fixt acid liquors (that is, fuch as will not arife along with the oil by the heat employed in the distillation) are generally directed to be' added, in order to prevent putrefaction, which the subjects would otherwife be apt to run into. In the notes on the Edinburgh pharmacopæia, these additions are disapproved of; and the college of London has rejected them. They are certainly rather of differvice than any real use. The refolution here aimed at approaches near to a beginning putrefaction; and faline substances, by retarding this, prolong the maceration far beyond the time that would otherwise be necessary. It is in the power of the operator (as the above mentioned author observes) when he perceives the process coming near this pitch, to put a ftop to it at pleafure, by proceeding immediately to distillation: by this means, the whole affair will be finished in a very little time, with at leaft equal advantage in every other respect; provided the manual operations of pounding, rasping, and the like, which are equally necessary in either case, be scientifically complied with.

Bodies of a very vifcous and The maceration should be con- compact texture are directed in the Edinburgh pharmacopæia, to be may fully penetrate the pores of fermented for some days with a the subject. To promote this ef- little yeast: half their quantity of feet, woods should be thinly shaved water is sufficient for performing across the grain, roots cut trans-the fermentation; so much more versely into thin slices, barks re-as is necessary, is to be added afterduced into coarse powder, and wards, before the distillation. This feeds lightly bruised. Very compact and tenacious substances rethe subject, and the extrication of

ferment, or using too large a quantity of any.

Some chemists pretend, that by the addition of falts and acid fpirits, they have been enabled to gain more oil from certain vege- diffil; otherwise the oil will be extable matters, than can possibly be posed to an unnecessary heat, a cirgot from them without fuch affiftance. Experiments made on pur- as possible to be avoided. Fire pose to settle this point seem to communicates to all these oils a prove the contrary: this at least disagreeable impression, as is eviis constantly found to be true, that where there is any reason to think they yield greater than usual, the quality of the oil is proportionably eafily separated without any addition of this kind. All that faline matters can do in this respect, is, to extricate a gross uncluous subflance: which arising towards the end of the diffillation, mingles with the pure oil, and thus increases the quantity, but at the fame time debases its quality. And indeed, when water alone is made use of, the oil which comes over about the end of the operation is remarkably less fragrant, and of a thicker confiftence, than that which arises at the beginning; diffilled a fecond time, with a gentle heat, it leaves matter behind.

The choice of proper instruments is of great consequence to the performance of this process to advantage. The lighter oils readily pais over the swan neck of the head of the common fill; but it turns out otherwise with the more ponderous. For obtaining these, we would re-

the oil; it rarely happens, how- commend a large low-head, having are needful. Particular care must in this, the oil is detained on its be had not to continue the fermen- first ascent (and thence conveyed tation too long; or to give a bad into the receiver) the advantages of which are fufficiently obvious.

With regard to the fire, the operator ought to be expeditious in railing it at first, and to keep it up during the whole process, of fuch a degree that the oil may freely cumftance which ought as much dent from their being much less grateful when newly distilled, than after they have flood for some time in a cool place: the longer the heat injured. The quantity of true ef- is continued, the greater alteration fential oil in vegetables can by no it will make in them; the more of means be increased; and what is the oil will likewise be thus united really contained in them may be with the water, and confequently the produce defrauded of its due account.

The water indeed always takes up fome portion of the oil, as is evident from the fmell, tafte, and colour which it acquires. It cannot however retain above a certain quantity; and therefore, fuch as has been already used and almost faturated itself, may be advantageoully employed, instead of common water, in a fecond, third, or any future distillation of the same subject. Some late chemical writers recommend the water which remains in the still to be used a fea large quantity of gross refinous cond time; but this should feem less proper, 'as being saturated only with fuch parts of the vegetable as are not capable of arising in diflillation, and which ferve only to impede the action of the water as a menstraum, and to endanger an empyreuma.

After the distillation of one oil, particular care should be had to iı

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duly cleanse the worm before it is employed in the distillation of a different plant. Some oils, those of wormwood and anifeeds for instance, adhere to it so tenaciously, as not to be melted out by heat, or washed off by water: the best way of cleanfing the worm from these, is to run a little spirit of winethrough

Essential oils, after they are distilled, should be suffered to stand for some days, in vessels loosely covered with paper, till they have loft their difagreeable fiery odour, and become limpid: then put them up in fmall bottles, which are to be kept quite full, closely stopt, in a cool place : with these cautions, they will retain their virtues in perfection for many years. Neverthelefs, in process of time, they gradually lofe their flavour, and become groß and thick. Some endeavour to recover them again after they have undergone this change, by grinding them with about thrice their weight of common falt, then adding a large proportion of water and distilling them afresh: the purer part arifes thin and limpid, possesfing a great degree of the pristine fmell and tafte of the oil, though inferior in both respects to what the oil was at first. This rectification, as it is called, fucceeds equally without the falt : the oils when thus altered, are nearly in the same state with the turpentines, and other thickened oily purer oil in distillation with water alone.

Effential oils, confidered as medicines, possess the general qua-lities of pungency and heat; and in cold phlegmatic habits, prove effectual and speedy cordials; almost instantly diffusing a grateful warmth through the whole habit; strengthening and constringing one

fibres, and stimulating them to ftronger and more frequent contractions: the pulse is raised, the circulation quickened, the juices attenuated and rendered more fluid; a mild diaphorefis generally enfues, or an increase of the more sensible fecretions. Hence, in laxity and weakness of the vessels, in a sluggish inactive state of the juices and languid circulation, in deficiencies of the natural evacuations or immoderate discharges proceeding from these causes, in great depreffions, complaints of cold in particular parts, flatulencies, gripes, &c. these generous, invigorating, warm medicines are eminently ferviceable. The qualities, by which in thefe cases they produce the happiest effects, render them equally prejudicial in the opposite circumstances. in bilious temperaments, in great tensity and rigidity of the folids. in all hot, inflammatory, or febrile indispositions; which are always aggravated and fometimes occasioned by them.

Some of these oils are accompanied with an unpleafant flavour: these are principally exhibited in hysteric cases, and as anthelmintics, or for other like purposes. Some are extremely grateful, fo as to be frequently employed for reconciling to the stomach medicines of themfelves difgustful. Others are highly odoriferous, infomuch as to be in common use as perfumes.

It has been customary to employ juices, which readily yield their these oils as correctors for the refinous purgatives; an use which they do not feem well adapted to. All the fervice they can here be of, is, to make the refin fit easier at first on the stomach: far from abating the irritating quality upon which the virulence of its operation depends, these pungent oils superadd a fresh stimulus. See the article cathartics, page 64.

Effen-

Effential oils are never given alone, on account of their extreme heat and pungency; which in some is fo great, that a fingle drop, let fall upon the tongue, preduces a gangrenous efchar. They are readily imbibed by pure dry fugar, and in this form may be conveniently exhibited. Ground with eight or ten times their weight of the fugar, they become foluble in aqueous liquors, and thus may be diluted to any affigned degree. They diffolve likewife in spirit of wine : the more fragrant in an equal weight, and almost all of them in lefs than four times their own quantity: these solutions may be either taken on fugar, or mixed with fyrups, or the like; with water, the il separates.

These oils are likewise employed externally against paralytic complaints, numbness, pains and aches, cold tumours, and in other cases where particular parts require to be heated or stimulated. The toothach is sometimes relieved by a drop of the more pungent ones, received on cotton, and put into the hollow

tooth.

OLEUM ABSINTHII

ESSENTIALE.

ESSENTIAL OIL of the leaves

OF WORMWOOD.

L. E.

This is one of the more ungrateful oils: it fmells strong of the wormwood; and contains the whole of its nauseous taste, but little or nothing of its bitterness, this remaining entire in the decoction left after the diffillation: its colour, when drawn from the fresh herb, is a dark green; from the dry, a brownish yellow. This oil is recommended by Hossman as a mild anodyne, in spasmodic contractions: for this purpose, he directs a dram of it to be disolved in an ounce of

redified spirit of wine, and seven or eight drops of the mixture taken for a dose in any convenient vehicle. Boerhaave greatly commends in tertian fevers, a medicated liquor composed of about feven grains of the oil ground first with a dram of fugar, then with two drams of the falt of wormwood, and afterwards diffolved in fix ounces of the distilled water of the fame plant: two hours before the fit is expected, the patient is to bathe his feet and legs in warm water, and then to drink two ounces of the liquor every quarter of an hour till the two hours are expired : by this means, he fays, all cafes of this kind are generally cured with eafe and fafety, provided there is no schirrosity or suppuration. With us, the oil of wormwood is employed chiefly as a vermifuge, and for this purpose is both applied externally to the belly, and taken internally: it is most conveniently exhibited in the form of pills, which it may be reduced into by mixing it with crumb of bread.

OLEUM SEMINUM ANETHI ESSENTIALE. ESSENTIAL OIL OF DILL SEEDS.

L. E.

This is a very warm oil, of a flavour not very agreeable, refembling that of the feeds. It is fometimes exhibited as a carminative, in flatulencies, colicky pains, hiccups and the like, from one to three or four drops.

OLEUM SEMINUM ANISI
ESSENTIALE.
ESSENTIAL OIL OF
ANISEEDS.
L. E.

This oil possesses the taste and smell of the aniseeds in perfection. It is one of the mildest of the dissilled

filled oils: twenty drops may be taken for a dofe, though common practice rarely goes to far as half rhis number. Its fmell is extremely durable and diffusive: milk drawn from the breast after taking it, is found impregnated with its odour; and possibly, this may be, in part, the foundation of the pectoral virtues usually ascribed to it: in flatulencies and colics, it is said by some to be less effectual than the feeds themselves.

It is remarkable of this oil that it congeals, even when the air is not fenfibly cold, into a butyraceous confidence: and hence in the diffillation of it, the operator ought not to be over folicitous in keeping the water in the refrigeratory too cool: it behoves him rather to let it grow fomewhat hot, particularly towards the end of the process; otherwise the oil, congealing, may fo stop up the worm as to endanger blowing off the head of the full, at least a considerable quantity of oil will remain in it.

OLEUM SEMINUM CARUI ESSENTIALE. FSSENTIAL OIL OF CARAWAY SEEDS.

L. E.

The flavour of this exactly refembles that of the caraway. It is a very hot and pungent oil; a fingle drop is a moderate dofe, and five or fix a very large one. It is not unfrequently made use of as a carminative; and supposed by some to be peculiarly serviceable for promoting urine, to which it communicates some degree of its smell.

OLEUM CARYOPHYLLO-RUM AROMATICORUM ESSENTIALE. ESSENTIAL OIL OF CLOVES.

Oil of cloves is usually described as being "in taste excessively hor

" and fiery, and of a gold yellow colour." (Boerh. proceff. 27.) Such indeed is the composition which we receive under this name from Holland: but the genuine oil of cloves is one of the milder oils. and may be taken with great fafety (duly diluted) to the quantity of eight or ten drops or more: nor is its colour at all yellow, unless it has been long and carelefsly kept, or diffilled by too violent a fire; when in perfection, it is limpid and colourless, of a pleasant, moderately warm and pungent tafte, and a very agreeable fmell, much refembling that of the spice itself. The Dutch oil of cloves contains a large quantity of expressed oil, as evidently appears upon examining it by dutillation. This however cannot be the addition to which it owes its acrimony: a finall proportion of a refinous extract of cloves communicates to a large one of oil a deep colour, and a great degree of acrimony.

OLEUM FLORUM CHAMÆ-MELI ESSENTIALE. ESSENTIAL OIL OF CHAMÆ-MEL FLOWERS. L. E.

This is a very pungent oil, of a flrong not ungrateful imell, refembling that of the flowers: its colour is yellow, with a caft of greenish or brown. It is sometimes given in the dose of a few drops, as a carminative, in hysteric disorders, and likewise as a vermisuge: it may be conveniently made into pills with crumbs of bread.

The oil above described is that obtained from the common garden chamæmel, which is the only fort directed in our dispensatories (see the foregoing part, page 113.) There is another species, more frequent in corn fields than in our gardens, chamæmelum vulgare

degenerates into a yellow like that of the foregoing.

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OLEUM CINNAMOMI. OIL OF CINNAMON. L. E.

This valuable oil is extremely hot and pungent, of a most agreeable flavour like that of the cinnamon itself. In cold languid cases, and debilities of the nervous fystem, it is one of the most immediate cordials and restoratives. The dose is one, two, or three drops: which must always be carefully diluted, by the mediation of fugar,

OLEUM SEMINUM CYMINI ESSENTIALE.

ESSENTIAL OIL OF CUMMIN SEEDS.

L. E.

This is one of the warmer and less pleasant oils. It is employed chiefly in cold, flatulent, hysteric complaints, in dofes of two or three drops. It gives its fmell flrong to the urine, and is supposed peculiarly ferviceable for promoting its discharge.

OLEUM SEMINUM FŒNI-CULI ESSENTIALE. ESSENTIAL OIL OF FENNEL SEEDS.

Edinb.

The oil obtained from fweet fennel feeds is much more elegant and agreeable than that of the common fennel (fee page 130.) It is one of the mildest of these preparations: it is nearly of the same degree of warmth with that of anifeeds; to which it is likewife fimilar in flayour, though far more grateful. It ought, previous to the distillation,

is given, from two or three drops to ten or twelve, as a carminative, in cold indispositions of the stomach; and in fome kinds of coughs, for promoting expectoration.

OLEUM foliorum HYSSOPI ESSENTIALE.

ESSENTIAL OIL OF HYSSOP leaves.

Edinb.

The oil of hystop is moderately acrid, of a firong not very agreeable fmell, exactly refembling the original herb: its colour is yellowish, with a flight cast of green; which in keeping changes to a brownish. It is commended in humoral asthmas, for promoting expectoration, &c. from one to two or three drops; but is rarely made use of. and not often kept in the shops.

OLEUM baccarum JUNIPERI ESSENTIALE.

ESSENTIAL OIL OF JUNIPER berries.

L, E

This oil is a very warm and pungent one, of a strong flavour, not unlike that of the berries. In the dose of a drop or two, it proves a ferviceable carminative and stomachic: in one of fix, eight or more, a stimulating, detergent, diuretic and emmenagogue: it feems to have fomewhat of the nature of the turpentines or their distilled oil; like which it communicates a violet fmell to the urine.

The oil of these berries resides partly in vehicles fpread through the substance of the fruit, and partly in little cells contained in the feeds; when the berry is dry, and the oil hardened into a refinous fubstance, it becomes visible, upon breaking the feeds, in form of little transparent drops. In order therefore to obtain this oil to advantage, we

to bruife the berry throughly; fo or fix. It is likewise made an inas to break the feeds, and entirely lay open the oily receptacles.

OLEUM florum LAVENDULÆ ESSENTIALE: ESSENTIAL OIL OF LAVENDER flowers.

L E.

This oil, when in perfection, is very limpid, of a pleafant yellowish colour, extremely fragrant, pofteffing in an eminent degree the peculiar fmell generally admired in the flowers. It is a medicine of great use, both externally and internally, in paralytic and lethargic complaints, rheumatic pains, and debilities of the nervous fyshem. The dole is from one drop to five

Lavender flowers yield the most fragrant oil, and in confiderably the largest quantity, when they are ready to fall off fpontaneously and the feeds begin to shew themselves: the leaves give out extremely little. The flowers may be separated from the rest of the plant, by drying it a little, and then gently beating it: they should be immediately committed to distillation, and the process conducted with a well regulated gentle heat: too great heat would not only change the colour of the oil, but likewife make a difagreeable alteration in its finell.

OLEUM baccarum LAURI ESSENTIALE. ESSENTIAL OIL OF BAYBERRIES. Edinb.

The oil of bay berries is thin and limpid, moderately pungent, of a firong and tolerably grateful smell. It is given in flatulent colics, hyfleric complaints, and for allaying the pains consequent upon delivery; the dose, from two drops to five

gredient in carminative clyflers; and in some livsteric cases, applied externally.

> ESSENTIA LIMONUM. Il walls Lond.

Oleum stillatitium corticum limonum. Edinb.

ESSENCE OF LEMONS, or the essential oil of lemon peel.

This is a pleafant oil, of a fine fmell, very near as agreeable as that of the fresh peel; it is one of the lightest essential oils we have, perfeetly limpid, and almost colourless. It is taken in doses of two or three drops, as a cordial, in weakness of the flomach, &c. though more frequently used as a perfume. It gives a fine flavour to the fal volatile; and renders the foap pills very agreeable to the flomach.

OLEUM MACIS STILLATITIUM. ESSENTIAL OIL OF MACE: Edinb.

The effential oil of mace is moderately pungent, very fubtile and volatile, of a strong aromatic smell, like that of the spice itself: it is thin and limpid, of a pale yellowish colour, with a portion of thicker and darker coloured oil at the bottom. This oil is celebrated in vomiting, hiccups, colicky pains, &c. both given internally from one to four drops, and applied externally to the stomach and umbilical region. It is however but rarely made use of, and not often met with in the shops.

OLEUM MAJORANA ESSENTIALE. ESSENTIAL OIL OF MARTO-RAM leaves. L.E.

This oil is very hot and pene-8 4 100

trating, in flavour not near fo a- OLEUM NUCIS MOSCHATÆ greeable as the marjoram itself: when in perfection, it is of a pale ESSENTIAL OIL OF NUTMEGS. yellow colour; by long keeping, it turns reddish: if distilled with too great a heat, it arises of this colour at first. It is supposed to be peculiarly ferviceable in obstructions and mucous discharges of the uterus from a cold cause: the dose is one or two drops.

OLEUM MENTHÆ ESSENTIALE. ESSENTIAL OIL OF the leaves of COMMON MINT.

L. E. This oil fmells and taftes strong of the mint, but is in both respects fomewhat less agreeable. It is an ufeful flomachic medicine; and not unfrequently exhibited in want of appetite, weakness of the stomach, retchings to vomit, and other like disorders when not accompanied with heat or inflammation; two or three drops or more are given for a dose. It is likewise employed externally for the same purposes; and is an excellent ingredient in the stomachic plaster of the shops.

OLEUM MENTHÆ PIPERI-TIDIS ESSENTIALE. ESSENTIAL OIL OF the leaves of PEPPER MINT.

Lond. This possesses the fmell, taste and virtues of the pepper mint in perfection; the colour is a pale greenish yellow. It is a medicine of great pungency and fubrility; and diffuses, almost as foon as taken, a glowing warmth through the whole fystem. In colics acand in fome hysteric complaints, it is of excellent fervice. A drop dose.

ESSENTIALE.

L. E. The effential oil of nutmegs pof-

fesses the flavour and aromatic virtues of the spice in an eminent degree. It is fimilar in quality to the oil of mace, but somewhat less grateful to the flomach.

OLEUM ORIGANI ESSENTIALE. ESSENTIAL OIL OF the leaves of ORIGANUM.

L. E.

This oil has a very pungent acrimonious taste, and a penetrating fmell. It has been chiefly employed externally as an errhine, and for eafing pains of the teeth.

OLEUM PULEGII ESSENTIALE. ESSENTIAL OIL OF the leaves of PENNYROYAL.

L. E. This oil in smell and taste, refembles the original plant; the

virtues of which it likewife polfesses. It is given, in hysteric cases, from one to four or five drops.

OLEUM RORISMARINI ESSENTIALE. ESSENTIAL OIL OF ROSEMARY leaves.

L. E.

The oil of rolemary, when in perfection, is very light and thin, pale and almost colourless; of great fragrancy, though not quite fo agreeable as the rolemary itself. It is recommended, in the dose of a few drops, in nervous and hysteric complaints. Boerhaave holds it in great efteem against epilepsies, and suppressions of the uterine purgaor two are in general a fufficient tions, occasioned by weakness and inactivity.

OLEUM

OLEUM LIGNI RHODII ESSENTIALE.

ESSENTIAL OIL OF RHODIUM

wood.

This oil is extremely odoriferous, and principally employed as a perfume, in feenting pomatums and the like. Cuflom has not as yet received any preparation of this elegant aromatic wood into internal use.

OLEUM RUTÆ ESSENTIALE.

ESSENTIAL OIL of the leaves

OF RUE.

L. E.

The oil of rue has a very acrid taffe, and a penetrating smell refembling that of the herb, but rather more unpleasant. It is sometimes made use of in hysteric disorders, and as an anthelmintic; as also in epilepsies proceeding from a relaxed state of the nerves.

Rue yields its oil very fparingly. The largest quantity is obtained from it when the flowers are ready to fall off, and the feeds begin to shew themselves: suitable maceration, previous to the distillation, is here extremely necessary.

OLEUM SABINÆ
ESSENTIALE.
ESSENTIAL OIL OF SAVIN

leaves. L. E.

Savin is one of the plants which the Edinburgh pharmacopæia directs to be lightly fermented before the diffillation: this, however, is not very necessary: for favin yields, without any fermentation, and even without much maceration, a large quantity of oil: the foregoing herb stands more in need of a treatment of this kind. The oil of favin is a celebrated uterine and emmenagogue: in cold phlegmatic habits, it is undoubtedly a medicine of

good fervice, though not capable of performing what it has been usually represented to do. The dose is two or three drops or more.

> OLEUM SASSAFRAS ESSENTIALE, ESSENTIAL OIL OF SASSAFRAS, L. E.

This is the most ponderous of all the known essential oils: it appears limpid as water, has a moderately pungent taste, a very fragrant smell exactly resembling that of the sassarias. It stands greatly commended as a sudorissic, and for purifying the blood and juices: it is likewise supposed to be of fervice in humoural assumants and coughs. The dose is from one drop to eight or ten; though Geoffroy goes as far as twenty.

OLEUM TEREBINTHINÆ.

Lond.

This is distilled in the same manner as the foregoing oils; and is firially an effential one, though not ufually ranked in this class: it is commonly, but improperly as the college observe, called spirit of turpentine. This oil is a very hot stimulating medicine (see page 218.) It is fometimes exhibited as a fudorific and diuretic, in the dose of two or three drops: in larger dofes, it is apt to greatly heat the body, occasion pain of the head, an effufion of the femen and liquor of the proftate glands. It has nevertheless been of late taken in confiderable doses (along with honey or other convenient vehicles) against the sciatica; and, as is said, with good fucceis. Some have recommended it against venereal runnings; but here it has produced mischievous consequences, inflaming the parts and aggravating the

diforder. Externally, it is not unfrequently employed against rheumatic pains, aches, sprains, for difcusting cold tumours, and restraining hamorrhagies.

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After the distillation of the turpentine, there remains in the still a brittle resinous substance, of a yellow colour, called resina slava,

yellow refin. [L.]
The only use of this is in external applications, for giving confishence to plasters, and the like purposes.

Most of the foregoing oils are drawn by our chemits, and easily procurable in a tolerable degree of perfection; those of cinnamon, cloves, nutmegs and mace excepted. These are usually imported from abroad; and are for the most part so much adulterated, that it is difficult to meet with such as are at all sit for use.

Nor are the adulterations of these kinds of preparations eafily difco-The groffer abuses inverable. deed may be readily detected : thus if the oil is mixed with spirit of wine, it will turn milky on the addition of water; if with expressed oils, rectified spirit will dissolve the effential and leave the other behind: if with oil of turpentine, on dipping a piece of paper in the mixture, and drying it with a gentle heat, the turpentine will be betrayed by its fmell. But the more fubtile artists have contrived other methods of fophistication which elude all trials of this kind.

Some have looked upon the specific gravity of oils as a certain criterion of their genuineness; and ac-

cordinly we have given a table of the gravity of feveral in page 6. This however is not to be absolutely depended on; for the genuine oils, obtained from the fame subject, oftentimes differ in gravity as much as those drawn from different ones. Cinnamon and cloves, whose oils usually fink in water, yield, if flowly and warily diffilled, an oil of great fragrancy, which is nevertheless specifically lighter than the aqueous fluid employed in the distillation of it; whilst on the other hand, the last runnings of fome of the lighter oils prove sometimes fo ponderous as to fink in

The commentator on the last edition of the Edinburgh pharmacopæia, recommends diluting the suspected oil with a large quantity of rectified spirit, and then to examine it by the taste and smell, comparing it with some of known goodness. By this means we may not only distinguish whether the oil is mixed with any other; but a judgment may likewise be formed of its degree of goodness when unmixed.

The same author recommends an oil drawn from pimento, as a cheap substitute to those of some of the dearer spices: the slavour of this oil is more agreeable than that of cloves, and does not fall far short of that of nutmegs. It is undoubtedly a very elegant oil, and is afforded by the spice in considerable quantity; forty ounces yield above one: it is of a sine pale colour, and like the oils of some of the eastern spices, sinks in water.

Clafs.

Class 2:

EMPTREUMATIC OILS.

OLEUM BUXI.
OIL OF BOX.
Lond.

Diffil pieces of box wood, in a retort, with a fand heat gradually increased: the oil will come over, along with an acid spirit, which is to be separated by a funnel.

OLEUM GUAIACI.
OIL OF GUAIACUM.
Edinb.

Put any quantity of chips of guaiacum, into an earthen long neck or a glass retort, and distil either in a sand bath or an open sire, increasing the heat by degrees. At sirst an acid liquor will come over, afterwards a light red oil, and at length, in the utmost degree of sire, a thick black oil, which sinks through the other liquors to the bottom of the receiver.

Oils may be obtained after the fame manner from every kind of wood.

The retort may be filled almost up to the neck with chips or small pieces of box or guaiacum, the refuse of the turner. Lute on a glass receiver, with a paste made of linfeed meal and water: fet the retort on the bottom of a deep iron pot, with a little sand under it, and fill up the space betwixt it and the sides of the pot, with more fand. Apply at first a gentle sire, and gradually increase it to the utmost that the surnace is capable of giving. Particular care must be had, not to raise the heat too sast when the sirst reddish oil begins to come over; for at this time, a large

quantity of elastic vapour is extricated from the wood, which, if the fire is urged, or if it is not allowed an exit, will burft the veffels: when the distillation it finished, and the veffels grown cool, unlute the receiver, and feparate the oil from the acid liquor: the method of performing this by the funnel, as directed in the first of the above processes, is as follows. Pour the several liquors into a glass funnel whose stem is stopt by the finger, the ponderous black oil finks lowermost: fuffer this to run out; then close the stem again, and afterwards feparate the acid liquor from the lighter oil in the same manner. They are more perfectly feparated by pouring them into a hollow cone of filtering paper moiflened with water and placed in a funnel; the acid liquor paffes through, and the oil remains on the paper.

The oils obtained by this treatment from different woods and plants are nearly of the fame qualities: they have all a very difagreeable acrid tafte, and a burnt flinking fmell; without any thing of the peculiar flavour, tafte, or virtues of the fubject which afforded them. By redifilling them a number of times along with water, they become less and less disagreeable; and in this flate have been given from ten to twenty drops, as anodynes and diaphoretics. Some have entertained a very high opinion of them in epilepfies, in hysteric and spasmodic disorders: in these cases they may possibly be of some fervice, though their real merit falls far short of what is promised of

them.

them. The present practice rarely employs these oils any otherwise than for external purposes, as the cleaning of foul bones, for the tooth-ach, against some kinds of cutaneous eruptions, old pains and aches, and the like; and for these, not very often.

OLEUM LATERITIUM.

Lond.

Heat bricks red hot, and quench them in oil olive, till they have foaked up all the oil: then break them into pieces small enough to be conveniently put into a retort; and disil with a sand heat gradually increased: an oil will arise, together with a spirit, which is to be separated from it as in the foregoing process.

This preparation has had a place in most dispensatories, under the pompous names of oleum philofophorum, fanctum, divinum, benedictum, and others, as improper as that under which it stands above. It is really oil olive, rendered firongly empyreumatic by heat: the spirit, so called, is no more than phlegm, or water, tainted with the burnt flavour of the oil. It has been celebrated for fundry external purpofes, particularly against gouty and rheumatic pains, deafnets and tingling of the ears, &c. and sometimes likewise given inwardly. But common practice feems to have now entirely rejected this loathfome remedy; and the college of Edinburgh have expunged it from their

OLEUM PETROLEI BARBA-DENSIS. OIL OF BARBADOES TAR.

Lind.

Distil Barbadoes tar with a fand heat; and an oil will arise, together with a spirit which is to be separated from it.

This oil is intended for the fame purposes as the foregoing ones. It is somewhat less disagreeable, tho' very acrid and stimulating. It is remarkable of this oil, that when placed against the eye and the light, it appears of an orange colour; looked at in other positions, blue: by long keeping it loses this property.

OLEUM TEREBINTHINÆ
ÆTHEREUM; & empyreumaticum five BALSAMUM.
The ETHEREAL OIL OF TURPFNTINE, and the empyreumatic

oil or BALSAM.

Diffil the effential oil of turpentine in a retort, with a very gentle fire, until what remains has acquired the confidence of a balfam.

Balfam of turpentine may likewife be obtained from the yellow refin left after the diffillation of the effential oil: upon diffilling this in a retort, at first a portion of thin oil arises, which is to be kept by itself, and afterwards a thick balfam: there remains in the retort a blackish resin, called colophony.

Melt any quantity of turpentine, over a gentle fire, and pour it into a glais retort, of which it may fill one half; then lute on a receiver, and diffil in a fand bath. Apply at first a gentle heat, upon which an acid spirit will come over, and on gradually increasing the fire, a limpid oil commonly called ethereal spirit of turpentine; at length, a yellow oil will arise. In the bottom of the retort, there remains a resinous mass called colopho-

my;

with fuccessive degrees of heat to the highest, gives first a red oil, and afterwards a darker coloured one, which finks through the other liquors to the bottom of the receiver.

These processes are tedious, and accompanied with a good deal of danger; for unless the luting is very close, some of the vapour will be apt to get through, which, if it catches fire, will infallibly burft the vessels. The oil here called etherial does not confiderably differ in specific gravity, smell, taile, or medical qualities, from the cheaper one obtained by the addition of water in the common still: nor are the empyreumatic thin oil and balfam of any great efteem

Edinb.

in practice.

Gum ammoniacum, Caranna, Elemi. Galbanum, Sagapenum, Styrax calamita, Liquid storax, Tacamahacca, &c.

being diffilled after the fame manner as turpentine, yield an tic oil.

It is furprizing that these vege-table productions should retain a place here, fince the use of their empyreumatic oils is generally exploded. Several of them diffilled in an alembic, with a fuitable quantity of water, afford effential oils of great fragrancy, which might undoubtedly be applied to good use as medicines, where the original refinous juice might not be fo convenient or ferviceable.

OLEUM COPAIVÆ COMPO-SITUM.

ny; which if still farther urged COMPOUND OIL OF BALSAM OF COPAIVA.

Lond.

Take two pounds of balfam of Copaiva, and four ounces of gum guaiacum. Distil them in a retort, continuing the operation till a pint of oil is come

This mixture, undistilled, proves a medicine of confiderable efficacy in rheumatic cases, &c. In distillation, the guaiacum gives over little, ferving chiefly for the fame purpose that bricks do in the oleum lateritium. The balfam distilled in a retort, with or without the gum, yields first a light coloured oil, fmelling confiderably of the subject; this is immediately followed by a darker coloured oil, and afterwards by a blue one, both which have little other fmell than the empyreumatic one that distinguishes the oils of this class: their talte is very pungent and acrimonious. This balfam, diffilled with water, yields half its weight or more of an elegant effential oil.

> OLEUM CERÆ. OIL OF WAX. Edinb.

acid liquor and an empyreuma- Melt the wax with twice its quantity of fand, and diffil in a retort placed in a fand furnace. At first an acid liquor arises, and afterwards a thick oil, which flicks in the neck of the retort, unless it be heated by applying a live coal. This may be rectified into a thin oil, by distilling it feveral times, without addition, in a fand heat.

> Boerhave directs the wax, cut in pieces, to be put into the retort first, so as to fill one half of it; when as much fand may be poured thereon as will fill the remaining half. This is a neater, and much

less troublesome way than melting the wax, and mixing it with the sand before they are put into the retort. The author above mentioned greatly commends this oil against roughness and chaps of the skin, and other like purposes; but its disagreeable smell has brought it into disuse.

BALSAMUM ANODYNUM,
vulgo GUIDONIS.
The ANODYNE, commonly called
GUIDO'S BALSAM.
Edinb.

diffelyed by reneating the operaction a third three exertof the falce

Take of Galbanum,

Tacamahacca, each half a pound;

Venice turpentine, one

Put them into a retort, whereof they may fill two thirds, and diffil with a fire gradually increased. Separate, according to art, the red oil or balsam, from the liquor that swims above it.



CHAP.

CHAPTER VIII.

SALES et SALINA.

SALTS and SALINE PREPARATIONS.

NITRUM PURIFICATUM.
PURIFIED NITRE.

Lond.

BOIL nitre in water till it is diffolved; filter the folution thro' paper; and then, after due evaporation, fet it by in a cold place, that the nitre may shoot into

crystals.

Salts dissolved in water, concrete again, upon exhaling a part of the fluid, into folid transparent masses called crystals; which, if the process is skilfully performed, assume a regular figure peculiar to each particular falt : thus the crystals of nitre resemble an hexagonal prism, those of common falt are cubical, whilft fal ammoniac fhoots into thin fibrous plates like feathers. Different circumstances in the operation occasion a variation of the crystals from the standard figure : if the evaporation is performed too hastily, or continued too long; if the liquor is fuddenly removed from the fire into a cold place; if the cold air is immediately admitted to it; if while the crystals are forming, their mutual attraction is disturbed by shaking the vessel; the particles of the diffolved falt will be forced together irregularly, and form only a confused semitransparent mass. The evaporation is generally directed to be continued till a faline pellicle appears upon the furface of the liquor : but if large and beautiful crystals are required, this point is fomewhat too late; for if fo much of the menstruum be taken away that the salt thus begins to concrete in the degree of heat usually employed in evaporation, it will, when removed into a colder place, run haftily and irregularly together. The best mark of the evaporation being carried to a fufficient length is, that fome of the liquor, being dropt upon a cold glass plate, discover small crystalline threads. - These observations are applicable to all the falts in this chapter, where cryftallization is required.

If different falts be diffolved in the fame parcel of water, that which is the most difficult of folution, or requires the largest quantity of the fluid to keep it dissolved, will crystallize first. Thus, if a mixture of tartar, nitre, and common falt, is diffolved in boiling water, the folution strained, duly evaporated, and fet in a cool place, the tartar foon concretes: if this be feparated, and the remaining liquor farther exhaled, the nitre will crystallize next, leaving the common falt still dissolved: by repeating the operation a third time, each of the falts The tartar, is obtained diffinct. and in general the falt obtained by the first crystallization, is perfectly pure; but the nitre retains some fmall admixture of the tartar, and the common falt of the nitre;

which they may be purified from

by again diffolving and crystallizing them apart. And this is the foundation of the method of purifying, or separating different salts from one another by crystallization.

Common nitre usually contains a confiderable proportion of sea salt, which by this process is separated from it. The crystals which shoot first are perfectly pure: but if the remaining liquors be farther exhaled, and this repeated a second or third time, the crystals will be small, imperfect, and tipt with little cubical glebes of sea salt.

If the liquor which is left after the crystallization of a solution of rough nitre, be evaporated to a dry substance, and this calcined for fome time in a crucible; there will remain a white powder, called MAGNESIA ALBA. This has been celebrated as an excellent purgative, in the dose of a dram or two; and infinaller doses, as an alterant, in hypochondriacal and other diforders. This medicine was for some time kept a great secret, under the names of nitrous panacea, count Palmer's powders, il polivere albo Romano, &c. till Hoffman made it public in his Observationes physico chemicæ. It is however a precarious medicine, and by no means equal to the character that has been given of it. It is composed of some of the calcareous earth, employed in the elixation of the nitre (fee p. 166.) united with a fmall portion of the nitrous and marine acids; the quantity of which acids will be different, according to the degree and continuance of the fire in the calcination. Neuman relates, that if common flaked lime be moistened with a little spirit of nitre and fpirit of falt, and then moderately calcined, a powder will be obtained, not differing in any fensible quality, or in medical virtue, from the magnefia.

SAL AMMONIACUS
PURIFICATUS.
PURIFIED SAL AMMONIAC.
Lond.

This is purified by folution in water, filtration and crystallization, after the manner above directed for nitre.

Here the folution and filtration frees the falt from fubstances that are not of the faline kind: and as no falt that we can suppose mingled with it will dissolve in so little water, such falts, if it should have an admixture of any, would crystallize before it.

The volatility of this falt affords another method of purifying it:

FLORES SALIS
AMMONIACI.
FLOWERS OF
SAL AMMOMNIAC.
Edinb.

Take any convenient quantity of dry fal ammoniac in powder; put it into an earthen cucurbit, and having fitted on a blind head, fublime the falt with a fire

gradually increased.

The heat made use of in this process should be no greater than is just sufficient to elevate the sal ammoniac: for in a strong sire, this salt carries up with it substances which of themselves are not volatile. This single sublimation makes no alteration in the quality of the sal ammoniac: if often repeated, it would contract a yellow tinge, and a particular scent, which it had not before.

SAL VITRIOLI. [L.]
Gilla vitrioli. [E.]

Purified white witriol, called SAIT, or GILLA OF VITRIOL.

Diffelve white vitriol in warm water, filter the folution, and evaporate

Chap. 8. Salts and Saline Preparations.

porate it to the confumption of two thirds: fet the remainder in a cold place, for two days, to shoot; and afterwards dry the crystals in the sun. The liquor which remains after the crystallization, may be farther evaporated, and fet to crystallize as before; and this process repeated, until no more falt will shoot.

Lond.

Let a pound of white vitriol be boiled in a proper quantity of water, with an ounce of the flrong spirit or oil of vitriol, until it is dissolved. Then filter the liquor, and after due eyaporation, set it by in a cold place

to crystallize.

Solutions of white vitriol deposite on standing a yellow othery substance; which, if not suffered to separate before the liquor is exhaled, and set to shoot, will foul the crystals. The addition of the acid in the second of the above processes effectually prevents any inconvenience of this kind, by keeping the impure matter, which would otherwise subside, suspended. What this matter is, may be judged from the account which we have given of this kind of vitriol, in page 226.

CRYSTALLI TARTARI. CRYSTALS OF TARTAR. Edinb.

Let powdered white tartar be boiled in twenty times its quantity of water, till perfectly diffolved; and the folution, whilft it continues hot, paffed through filtering paper, and received in a wooden veffel: then expose it for a night or longer to the cold air, that crystals may form themselves, and shoot to the fides of the vessel; the water being now poured off, the crystals are to be collected and dried for use.

The filtration of the folution of tartar through paper fucceeds very flowly, and unless managed with a good deal of address, not at all: for as foon as the boiling liquor begins to grow fenfibly less hot, it deposites most of the tartar all over the furface of the paper, which hinders the remainder from paffing through. Zwelffer, in his animadversions on this process in the Augustan pharmacopæia, directs the folution to be clarified with whites of eggs, and strained only through a linen cloth; he likewise judicioufly orders the veffel to be close covered, and the crystallization performed in a warm place: for if the folution be fuffered to cool very faft, it is in vain to expect any appearance of cryftals; the tartar will inevitably be precipitated to the bottom of the vessel in the form of fand. And indeed, the business of refining and crystallizing tartar is fo very troublefome, and requires fo large an apparatus, that scarce any of the apothecaries, or even of the trading chemists, are at the trouble of it; but either import it ready refined from Holland, or purchale it from some people here who make it their fole bufinels. (See the article TARTAR, page 216.)

CREMOR TARTART. CREAM OF TARTAR. Edinb.

Take any quantity of folution of tartar, made as in the foregoing process, and passed through a filter. Boil it over the fire, till a thick cuticle appears on the surface, which is to be taken off with a wooden skimmer bored full of holes: continue the boiling till a fresh cuticle arises, which is to be taken off as the foregoing, and the operation repeated till the whole

quantity of liquor is thus confumed. Afterwards dry all the cuticles together in the fun.

This process feems inserted only to retain a name long familiar to the shops; for the preparation itself in no respect differs from crystals of tartar reduced to powder.

ALUMEN USTUM. BURNT ALUM.

Lond.

Let alum be put into an earthen, or iron vessel, and calcined as long asit bubbles or fwells up.

Salts retain in crystallization a considerable quantity of aqueous fluid, which by this ustion, as it is called (more properly exsiccation) is dissipated. Alum loses in this process about one fixth its weight; and by the loss of this quantity of phlegm, becomes proportionably stronger and more acrid, infomuch as to be for times used for eating away proud flesh; which it does very mildly, but is faid to have the inconvenience of leaving an hardness upon the part.

VITRIOLUM CALCINATUM. CALCINED VITRIOL. Lond.

Let green vitriol be calcined in an earthen vessel, with an open fire, till it becomes throughly dry; then breaking the vessel, take out the vitriol, and set it by for use, well closed from the air. The vitriol is sufficiently calcined, if it has acquired a red colour at the sides and bottom of the vessel.

This process succeeds tolerably well for small quantities, but does not answer so perfectly for larger. As the action of the fire is exerted first on the external parts of the mais, these will be calcined first, and, where the quantity is large, exhibit the mark of sufficient calci-

nation, whilft the internal part remains almost unchanged: and even if the process is still farther continued, the effect required will not be produced; for the outside growing first hard, prevents the evaporation of the aqueous parts from within.

Edinh

Expose any quantity of powdered green vitriol, in an unglassed earthen vessel; to the action of a moderate fire, till it becomes white; keeping the matter continually stirring to prevent its sticking to the vessel, and acquiring a stony hardness. If this be urged with a more vehement fire, it passes into a deep red substance called colcothar of vitriol.

This method is sufficiently troublesome: for unless the heat be very gentle, and the matter spread very thin over the bottom of a broad shallow vessel, it is almost impossible to avoid melting it, which makes it adhere to the sides of the pan, and renders the previous pulverisation an useless labour.

The method usually practifed by the chemifts is, to place a deep earthen pan, almost filled with vitriol, upon a gentle fire; the vitriol foon liquenes, and by degrees incrustates to the fides of the velfel: the fire may be now increased till the aqueous moisture feems evaporated, when the vitriol will be found to have concreted all into one lump, of a whitish colour, except on the outfide next the pan, (which must be broken to take it out) where it appears yellowish or reddish, according to the continuance and degree of fire. If the vitriol be defired fill farther dephlegmated, this may be commodioufly effected by reducing the mass into a gross powder (which will now no longer melt) and

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a shallow iron pan, till it has gained the degree of dryness required, which may be known from its colour -The principal use of calcined vitriol is for the distillation of the fpirit of vitriol: if employed for this purpose uncalcined, it would melt in the diffilling veffel, and running into a lump, fcarce give out any spirit; and the little obtained would be very weak.

SALES ESSENTIALES. ESSENTIAL SALTS. Edinb.

Sal effentiale Effential falt of Acetofæ, Sorrel. Centaurii minoris, Leffer centaury, Cichorii. Succory. Euphrafiæ, Excbright, Fumariæ, Fumitory, Plantane, Plantaginis, Quercus: Oak.

and of fuch other acid, auftere, -astringent, and bitterish plants as contain but a small quantity of oily matter.

Let the juices of the respective plants, depurated by reft and decantation from the feces, be evaporated till only one third remains, then strained through a flannel bag, and exhaled again till a pellicle concretes upon the furface. Put the liquor into a glass vessel, and a little oil olive being poured upon the top, fet it by in a cellar till plenty of crystals appear formed : these are to be gently washed with water,

and afterwards dried for use. The WATERS of these plants, which are in vain endeavoured to be drawn over by distillation, may be obtained by diffolving a fuitable quantity of their effential falt in common water.

Some pharmaceutical writers diect the plants to be gathered ear-

then calcining it over a firong fire, in very little moment. In order, to make the subject yield its juice readily, it should be chopt to pieces, and well bruifed in a marble mortar, before it is committed to the press: the magma which remains in the bag, still containing no inconfiderable quantity of faline matter, may be advantageously boiled in water, and the decoction added to the expressed juice. The whole may be afterwards depurated together, either by the method above directed, or by running the liquor feveral times through a linen cloth.

> The evaporation should be performed either in shallow glass bafons, or in fuch earthen ones as are of a compact close texture: fuch are those usually called stoneware. The common earthen veffels are subject to have their glasing corroded, and are fo extremely porous as readily to imbibe and retain a good quantity of the liquor: metallic veffels are particularly apt to be corroded by these acid kinds

of juices.

The directions for the time of discontinuing the second evaporation are not fo eafily observed as one could wish. These juices are fo viscid, and abound so much with heterogene matter, of a quite different nature from any thing faline, that a pellicle, or pure faline incrustation upon the surface is in vain expected. Boerhaave therefore, and the more expert writers in pharmaceutical chemistry, with great judgment, direct the evaporation of the superfluous moisture to be continued until the matter has acquired the confistence of cream. If it be now suffered to stand for an hour or two in a warm place, it will notwithstanding the former depurations, deposite a fresh sediment, from which it should be ly in the morning, but this is of warily decanted before it is put in-

to the veffel in which it is defigned to be crystallized.

Some recommend an unglazed earthen veffel, as preferable for this purpose to a glass one; the fmoothness of the latter being supposed to hinder the falt from sticking thereto; whilft the juice eafily infinuating itself into the pores of the former, has a great advantage of shooting its faline spicula to the Others flightly incrustate the fides and bottom of whatever veffel they employ, with a certain mineral falt, which greatly disposes the juice to crystallize, which of itself it is very averse to: but as this addition is, with regard to its medical virtue, quite different from the falt here intended, we forbear

The use of the oil is to preserve the juice uncorrupted, and to prevent it from running into fermentation or putrefaction, during the great length of time which this process requires : as much oil as will fully cover the furface of the liquor, is fufficient for this purpole. The washing of the crystals is intended to cleanfe them from the mucilaginous feculencies which adhere to them : it ought to be performed with the utmost caution, to prevent any of the falt itself from being diffolved. The liquor which remains after the cryftallization, may be depurated by a gentle colature, and after due inspissation fet to shoot again; when a farther yield of crystals will be obtained.

The process for obtaining these sales is very tedious, infomuch as scarce to be completed in less than seven or eight months; and the quantity of salt which the juices afford, is extremely small; hence they are hardly ever made or expected in the shops. The chemists have contrived several methods for expediting the process, emeng

which the two following feem the most remarkable.

Take any quantity of wormwood. carduus benedictus, or the like plants, gently dried in the shade. Pour thereon a fuitable portion of fpirit of wine, and digett them together with a fost heat, till the menstruum has acquired a green colour. This tincture is to be put into a glass cucurbit, and diffilled with the heat of a water-bath, till fo much of the fpirit is come over, as that the remainder may be left of the confiftence of honey. The whole being now fuffered to remain unmoved till grown perfectly cold, beautiful pyramidal crystals will be found to have shot from the fides of the diffilling veffel to wards its centre. Spieffius in Miscell. Berolin. continuat. ii. p. 91, 92.

This gentleman relates likewife, that having made an effence (that is, a faturated tincture) of elecampane roots, with spirit of wine, and kept it unmoved for a year, he found a great number of crystals shot from the bottom of the glass upwards, of the thickness of a quill, and about an inch long.—

The crystals obtained by this method are said to be of the nitrous kind, but of a more subtile taste than common nitre, impressing only an agreeable coolness upon the tongue.

The fecond process is from the celebrated Dr. Stahl:

Take wormwood, brooklime, pellitory, mercury, foapwort, or any other plants of the fame kind, dried quick in a shady place. Cut the herb small, and pour thereon a sufficient quantity of highly rectified spirit of wines digest them together till the mestruum becomes saturated with

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the oil, or refinous parts of the the fire; and triturated with fixe alcalies, exhaled an urinous odour.

plant; then pour off the tinged liquor, add a fresh parcel of spirit, and digeft as before, continuing to add more of the menstruum, till such time as it no longer extracts any colour from the vegetable. The plant thus freed from its oily matter, is to be gently exfectated, and boiled in water, till the liquor has taken up its faline parts: the decoction being then paffed thro' a filter, afterwards evaporated to a due confiftence, and fet by in a cool place, will shoot into faline crystals, which, on examination, prove manifelly nitrous, Stablii fund. chem. pag. 68.

et alibi. The above processes do not very well quadrate with each other: how far they answer what is expected from them, can only be determined by experiments. The latter appears well founded, and poffibly might be advantageoufly applied to such vegetables as abound with oil; for oil fo engages and retains the particles of the falts, as to prevent their uniting and forming cryftals; whence, upon taking it away, by means of spirit of wine, a regular crystallization enfues

The virtues of these preparations have not been sufficiently determined from experience: thus much, however, is certain, that they do not (as has been supposed) possess those of the subjects entire. They appear to be, almost all of them, nearly fimilar, whatever plant they were obtained from; and to be at bottom no more than a very impure fpecies of volatile nitre (that is, a falt made by faturating the spirit of nitre with volatile alcaline falts, and crystallizing the liquor. Those examined by the chemists of the French academy, deflagrated in

SALES ALCALINI FIXI. FIXT ALCALINE SALTS. Sal abfinthii

Salt of wormwood. Edinb.

Let any quantity of wormwood. either fresh gathered, or moderately dried, be put into an iron pan, and, with a gentle fire, reduced into white ashes. Boil these with a sufficient quantity of foring water, filter the liquor, and evaporate it till a dry falt is left behind: this proves of a brown colour; by repeated folution, filtration, and inspissation, it becomes at length pure and white.

Lond.

Let the ashes of wormwood [which the shops are usually supplied with from the country] be put into an iron pot, or any other convenient veffel; and kept red hot over the fire for some hours, often stirring them, that what oily matter remains may be burnt out. Then boil the aftes in water, filter the lev through paper, and evaporate it till a dry falt remains; which is to be kept in a veffel close flopt. After the fame manner a fixt alcaline falt may be prepared from all those vegetables which yield this kind of falt [L.] as bean

These falts are obtained to greater advantage from dry plants than from green ones; they must not however be too dry, or too old; for in fuch case, they afford but a fmall quantity of falt. The fire should be so managed, as that the fubject may burn freely, yet not burst into violent slame: this last circumstance would greatly lessen the yield of the falt; and a very

stalks, broom, &c. [E.]

close smothering heat would have this effect in a greater degree; hence the ashes of charcoal scarce yield any falt, whilst the wood it was made from, if burnt at first in the open air, assorbs a large quan-

If the ashes are not calcined after the burning, a confiderable portion of the oil of the subject remains in them unconfumed; and hence the falt turns out impure, of a brown colour, and somewhat saponaceous. Tachenius, Boerhaave, and others, have entertained a very high opinion of these oily salts, and endeayour as much as possible to retain the oil in them. They are nevertheless liable to a great inconvenience, uncertainty in point of strength, and without promiting any advantage to counterbalance it: if the common alcalies are required to be made milder and less acrimonious (which is the only point aimed at in the making of these medicated falts as they are called) they may be occasionally rendered to by fuitable additions.

Sal tartari.
Salt of tartar.
Lond.

Let any kind of tartar be wrapt up in firong brown paper, first made wet, or included in a proper veffel, and exposed to the fire, that its oil may be burnt out: then boil it in water, and exsiccate into a falt as before.

Edinb.

Wrap up any quantity of white tartar in wetted paper, and calcine it in a reverberatory furnace till it becomes exceedingly white. Then diffolve it in warm water, filter the folution, and evaporate it in a clean iron veffel, till a falt is left behind, perfectly dry, and white as fnow; observing towards the

end of the operation to keep the matter continually flirring with an iron ladle, to prevent its flicking to the bottom of the veffel.

If a ftronger falt of tartar is required, let the white falt be fufed in a a crucible, with the most intense degree of heat, and reverberated for some hours, till it has acquired a greenish or blue

colour.

The white and red forts of tartar are equally fit for the purpose of making fixt falt; the only difference is, that the white affords a fomewhat larger quantity than the other; from fixteen ounces, upwards of four may be obtained. The use of the paper is to prevent the smaller pieces of the tartar from dropping down into the ash hole, through the interffices of the coals, upon first injecting it into the furnace. The calcination of the falt (if the tartar was fufficiently burnt at first) does not increase its strength fo much as is supposed: nor is the greenish or blue colour any certain mark either of its ftrength, or of its having been long exposed to a vehement fire: for if the crucible is perfectly clean, close covered, and has flood the fire without cracking, the falt will turn out white, tho' kept fufed and reverberated ever fo long; whilft, on the other hand, a flight accident, or dextrous management of the process, shall in a few minutes give the falt the colour admired.

The shops were formerly burthened with a great number of these salts, which are now very judiciously rejected; those here retained being abundantly sufficient to answer all the useful purposes that can be expected from these kinds of preparations. All fixt alcaline salts, from whatever vegetable they may be obtained, are nearly one

and

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and the fame thing, and not distinguishable from each other, at least in their effects as medicines: and hence the college of London, in most of the compositions wherein these forts of salts are ingredients, allow any fixt alcaline salt to be made use of.

Some differences indeed are obferved in them as usually prepared; but these depend entirely upon the manner in which the process for obtaining them is conducted, and not on their being produced from different vegetables. Thus a variation in the heat by which the plant is burnt or calcined, occasions a difference in the acrimony of the produce: the more vehement and lasting the fire (to a certain degree) the more acrid is the falt. circumstances of applying the water hot or cold to the ashes, likewife make a confiderable variation: boiling water takes up more of the earthy parts (and of the oily ones, if any remain unconfumed) than cold water: and likewife a kind of neutral falt, of a quite different nature from alcaline ones, though frequently found among the afhes of vegetables, especially such as have been exposed for some time to the air: whilst cold water extracts from them only the pure alcaline falt, unless it be used in too large a quantity, or fuffered to fland too long upon them.

These salts have an acrimonious stery taste. They render vegetable oils and refins, and animal sats, soluble in water; and liquefy all the animal juices, except milk. Taken into the body, they stimulate and deterge the folids, attenuate the sluids, dissolve visid tenacious matter; and by these means, open obstructions of the vessels, and promote all the natural secretions. A dilute solution of them drank in bed, generally

excites a copious fweat: by walking in the cool air, its action is determined to the kidneys: taken for fome time in proper dofes, it proves an excellent remedy for costiveness, especially if a few grains of aloes be occasionally interposed: this medicine has an advantage above all the other purgatives and laxatives, that when the complaint is once removed, it is not apt to return again. These falts are most serviceable in cold phlegmatic habits, and where acidities abound in the primæ viæ: they powerfully abforb acids, and unite with them into mildly aperlent neutral salts. In a colliquated acrimonious state of the fluids. where there is any inflammation. or a tendency to putrescence, they are manifeftly prejudicial. - The dose of these salts is from two or three grains to a dram or more.

LIXIVIUM TARTARI. [L.]

Liquamen falis tartari vulgo oleum tartari per deliquium. [E.] LEY OF TARTAR, or oil of tartar per deliquium.

Let tartar, calcined to whiteness, be set by in a moist place that it may liquefy.

Here only the faline part of the ashes of the tartar liqueses: it is very difficult to separate this from the remaining earth.

Edinb.

Put any quantity of falt of tartar in a flat glafs difh, and expose it to the air, for some days, in a moist place: it will run into a liquor, which is either to be filtered through paper, or separated from the seces by decantation.—

The higher the falt has been calcined, the more readily will it relent in the air.

The folutions of fixt alcaline T 4 falts

falts, effected by exposing them to a moist air, are generally looked upon as purer than those made by applying water directly: for tho' the salt be repeatedly dissolved in water, sittered and exsectated, on being liquested by the humidity of the air, it will fall deposite a portion of earthy matter: this sixivium contains nearly one part of alcaline salts, and three of an aqueous shuid.

LIXIVIUM SAPONARIUM.

Land.

Take equal weights of Russia potash and quicklime. Gradually fprinkle on them as much water as will slake the lime; then pour on more water, stirring the whole together, that the salt may be dissolved: let the ley settle, pour it off into another vessel, and if there is occasion filter it. A wine pint of this ley, measured with the greatest exactness, ought to weigh justification ounces. If it proves heavier, for every dram that it exceeds this weight, add to each pint of the liquor an ounce and an half of water by measure: if lighter, boil it till the like quantity is wasted, or pour it upon fresh lime and ashes.

Quicklime greatly increases the ftrength of alcaline salts; and hence this ley is much more actimonious, and acts more powerfully as a menfiruum on oils, fats, &c. than a solution of the potash alone; the lime should be used fresh from the kiln; by long keeping, even in close vesses, it loses of its strength; such should be made choice of as is throughly burnt or calcined, which may be known by its comparative lightness. All the instruments employed in this process should be either of wood, earthen

ware, or glass: the common metallic ones would be corroded by the ley, fo as either to discolour. or communicate difagreeable quali-ties to it. The liquor is most conveniently weighed in a narrownecked glass bottle, of fuch a fize that the measure of a wine pint may arise some height into its neck, the place being marked with a diamond. A pint of the common leys of our fost foap makers weighs more than fixteen ounces: Dr. Pemberton observes, that their ley will be reduced to the standard here proposed, by mixing it with fomething less than an equal meafore of water.

SAPO AMYGDALINUS. ALMOND SOAP.

Lond.

Take any quantity of fresh drawn oil of almonds, and thrice its quantity by measure of the foregoing foap leys. Digeft them together in fuch a heat that they may but just boil or fimmer, and in a few hours they will unite: after which, the liquor, in boiling, will foon be-come ropy, and in good mea-fure transparent; a little of it fuffered to cool, will appear like gelly. When this happens, throw in by little and little fome common falt, till the boiling liquor loses is ropiness; and continue the coction, till, on receiving fome drops on a tile, the foap is found to coagulate, and the water freely separates from it. The fire being then removed, the foap will gradually arise to the furface of the liquor : take it off before it grows cold, and put it into a wooden mould or frame, which has a cloth for its bottom: afterwards take out the foap, and fet it by till fufficiently dried.

After

may likewise be made with oil olive; but the purest oil must be used, that the foap may be as little ungrateful as possible either to the palate or flomach.

This process is so fully described, as to render any farther directions unnecessary: it is not however to be expected, that the apothecary will be able to prepare this medicine better than the foap-boiler; fince it is fearce possible to make fmall quantities in such perfection as larger ones. The general virtues of foaps have been already delivered in page 199: that prepared after this manner is not different in quality from the first fort there mentioned. The firength of foaps varies confiderably with their age, and the manner in which they have been kept: fresh soap, though apparently of a good consistence, lofes upon being throughly dried, near one third its weight; the whole of which loss is mere water; a circumstance to be particularly attended to, in the exhibition of this medicine. If the exficcation is performed by expofing the foap for a length of time to the air, it will imbibe a portion of the acid floating therein; which will unite with a part of the alcaline falt of the foap into a fubiliance of a quite different kind, diflodging a proportionable quantity of the oil : hence, if foap which has lien long in the air, be employed for medicinal purposes, the external coat should

Soap is decompounded (or the alcaline falt and oil, of which it is composed, separated from one another) by all acids; and hence it does not lather with waters that are in the least faline. In pure water, it dissolves into a milky liquor, which on dropping in some oil of vitriol forms a kind of coa-

After the fame manner, a foap gulum : on adding more of the acid, the liquor becomes clear, the oil of the foap arises to the surface, its alcali uniting with the acid, and forming faline concretions at the bottom. The oil, carefully collected. proves remarkably purer than when it first entered the com-position of the soap; and, like the essential oils of vegetables, dis-solves in spirit of wine: it may posibly be applicable to useful purposes in medicine, as being freed from its groffer matter, extremely pure, and void of the pungency of effential oils.

> Soap distolves likewife, but in finall quantity, in pure spirit of wine: it is remarkable of this folution, that if exposed to a degree of cold, a very little greater than that in which water begins to freeze. it congeals into a folid, extremely pellucid mass.

> The proper menstruum of foap is a proper spirit freed from acid; this diffolves it the most perfectly, and in greatest quantity; three ounces will take up one or more; and in this form foap may, in fome cases, be conveniently exhibited.

" SAPO PURIFICATUS. PURIFIED SOAP.

Slice one pound of dry, hard, Genoa, Alicant, or any other oilfoap, into a clean pewter veffel, and pour upon it two gallons of reclified spirit of wine. Place the vessel in a water bath, and apply fuch a degree of heat as may make the spirit boil, when it will foon dissolve the foap. Let the veffel fland close covered, in a warm place, till the liquor has grown perfectly clear; if any oily matter fwim upon the furface, carefully fcum it off. Then decant the limpid liquor from the feces, and distil off from it all the spirit that will

arise in the heat of a water-bath. Expose the remainder to a dry air for a sew days, and it will become a white, opake, and somewhat friable mass." Prast. chem.

Soap thus purified has little or no fmell, and proves upon examination, not in any degree acrimonious, but quite mild and foft, and confequently well fitted for medicinal purposes.

SAPO TARTAREUS. SOAP OF TARTAR. Edinb.

Take any quantity of falt of tartar, very well calcined and reduced into powder whilft hot : immediately pour upon it, in a broad glass vessel, twice its quantity of oil of turpentine; and let them stand together in a cellar for some weeks, till the oil has penetrated the falt: then add more oil by degrees, till the falt has absorbed thrice its own quantity, and both appear united into a foap; which, if the matter is every day flirred, will happen in a month or two. The effect fucceeds fooner, if the containing veffel be fixed to the fail of a windmill, or any other machine that turns round with great velocity.

This tedious process might be finished in a very little time, by duly attending to a circumstance which our chemists, and the pharmaceutical writers, have in general overlooked; and which many have fupposed to be a means even of preventing fuccess. If the oil be poured upon the pulverized falt whilst very hot, they will immediately unite, with a hisling noise; and by rubbing for a few minutes in a hot mortar, form a truly faponaceous mass, the medicine here intended. If the falt is fuffered to grow cold before the addition of

the oil, it is fcarce possible to unite them, however long the trituration be continued, without the addition of a little water, which in this cafe promotes the effect. The regular, uniform motion above recommended does not answer fo well as agitation or rubbing in a mortar; the different degrees of centrifugal force which the oil and falt acquire when moved circularly, tending to keep them apart. The falt does not retain fo much of the oil as might be expected; far the greatest part of this volatile fluid being dislipated in the process.

This medicine has been greatly celebrated as a diuretic, in nephritic complaints, and as a corrector of certain vegetable fubflances, particularly opium: it was for fome time a great fecret in the hands of its first preparer, Starkey; under the names, of philosophic foap, the vegetable corrector, &c. Its virtues, however, have not been sufficiently warranted by experience; nor is it often met with in the prescriptions of the physician, or the shop of the apothecary.

LAPIS SEPTIQUS feu CAUTE-RIUM POTENTIALE. THE SEPTIC STONE, or PO-TENTIAL CAUSTIC. Edinb.

Let half a pound of quicklime, reduced to powder, be put into a crucible, and throughly calcined: then sprinkle into it the same quantity of potash, and keep the whole in a wind furnace, until the salt slows. Pour out the mass into an iron vessol, add to it a proper quantity of water, and let them steep together for some days; afterwards silter the liquor, and inspissate it to the consistence of a stone.

This caustic is troublesome in making, and its use is likewise at-

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which the following is free from.

CAUSTICUM COMMUNE FORTIUS. The STRONGER COMMON CAUSTIC.

Lond.

Boil any quantity of the foap leys above described, to one fourth part : then, whilft it continues boiling, fome lime that has been kept for feveral months in a glass veffel flopt with a cork, is to be fprinkled in by little and little, till it has absorbed all the liquor, fo as to form a kind of paste: which keep for use in a veffel very closely flopt.

This caustic is preferable to that prepared from alcaline lixivia without the addition of lime in fubflance; as being less apt to liquefy upon the part it is applied to, and spread farther than is intended. The use of keeping the lime is, fomewhat to abate its acrimony.

CAUSTICUM COMMUNE MITIUS. The MILDER COMMON CAUSTIC.

Take fresh quicklime and fost foap, of each equal parts: mix them well together at the time of using.

Lond.

This caustic, notwithstanding the lime is used fresh, proves much milder than the former; the acrimony of the falt being here covered by the oil and tallow by which it is reduced into foap.

SPIRITUS VITRIOLI tenuis, et fortis (oleum dictus E.) atque COLCOTHAR.

Weak and frong SPIRIT or OIL OF VIIRIOL, and COLCO-THAR.

tended with fome inconveniencies Let calcined vitriol be distilled in earthern veffels, with a reverberatory fire, for three days without intermission. What remains in the vessels is called colcothar of vitriol.

Put the diffilled liquor into a glass retort, and place it in a fand furnace : the weak fpirit will come over, the firong (improperly called oil of vitriol) remaining behind.

Edinb.

Take any quantity of green vitriol, calcined to whiteness, and reduced into powder. Fill therewith one half of an earthen retort, place it in a reverberatory furnace, fit on a very large receiver, and lute well the junctures: then proceed to diftillation, gradually increasing the fire to the utmost degree, which is to be kept up as long as any vapours arife.

The phlegm, spirit and oil (so called) may be feparated from each other by committing the whole to distillation in a retort placed in a fand furnace. The phlegm will arise with a small degree of heat, and the spirit with a stronger, leaving the oil

behind.

The vitriol should be calcined till it acquires a yellowish colour inclining to red; if calcined only to whiteness, it will change in the distilling vessels into a hard compact mais, from which the due quantity of acid can never be obtained. though urged with the most vehement fire for a great length of time. A retort is an inconvenient instrument for performing the distillation in: it requires an extraordinary expence of fuel and time to elevate the ponderous acid of vitriol, fo high as the figure of this veffel demands: the veffels usually employed are so contrived that the vapour

vapour passes out laterally, without any afcent; thefe are called longnecks: the junctures of them with the receivers may be luted with Windfor loam moistened with a folution of any fixt alcaline falt, and then beat up with a fmall quantity of horfe-dung. If the fire is fufficiently strong, the distillation will be finished in much less than three days, though vapours will not cease to appear long after this period : when the process has been continued for a certain time, which Boerhaave limits to eighteen hours, the fpirit that arises will not pay the expence : regard however must be had herein to the fize of the furnace, the quantity of vitriol in each distilling vessel, and the degree of heat employed: those who make this commodity in quantity, continue the operation no longer, than till the fames which iffue from the long necks at the greatest diflance from the fire, begin to leffen, and the recipients grow fomewhat clear.

This process is not practicable to advantage without a very large apparatus. Hence it is become a diffinct branch of the chemical bufiness; and considerable works have been erected for it, in fuch parts of the kingdom as fuel can be most easily procured in: some of the furnaces are fo large as to contain an hundred earthern long-necks, or distilling vessels, at once. The metallic part of the vitriol, or colcothar, which remains after the distillation, is ground down in mills, edulcorated with water, and employed as a pigment: in medical virtue, it is not different from fome of the calces of iron to be spoken of hereafter.

The acid spirit, as it arises in the sirst distillation, appears of a dark or blackish colour, and contains a

confiderable portion of phlegm. In the fecond diffillation, the phlegmatic parts arife first, together with the lighter acid, which are kept apart under the name of weak spirit: at the same time, the remaining strong spirit, or oil as it is called, loses its black colour, and becomes clear; and this is the usual mark for discontinuing the distillation. Methods of farther purifying this acid for the nicer uses are described in Practical chemitry

page 144.

The spirit of vitriol is the most ponderous of all the liquids we are acquainted with; and the most powerful of the acids. If any other acid be united with a fixt alcaline falt or earth; upon the addition of the vitriolic, such acid will be diflodged, and arife on applying a moderate heat, leaving the vitriolic in possession of the alcali; though without this addition, it would not yield to the most vehement fire. Mixt with water, it inflant.y conceives great heat; exa to the air, it imbibes its moiflure and foon acquires a notable increase of weight. In medicine, it is employed chiefly as subservient to other preparations: it is likewife not unfrequently mixed with juleps and the like (in fuch quantity as will be sufficient to give the liquor an agreeable tartness) for abating heat, quenching thirft, and promoting the urinary difcharge.

SPIRITUS SULPHURIS
per campanam.
SPIRIT (commonly called OIL)
OF SULPHUR by the bell.
Lond.

Let the fulphur be fet on fire, under a glass vessel fitted for this use, called a bell; and let the acid spirit, which trickles down from

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received in a glass dish placed underneath.

Put any quantity of powdered fulphur into an earthern dish placed upon an inverted crucible: fet them both together upon the bottom of a large earthen vessel, in a moist place screened from the wind: then kindle the fulphur with a red hot iron; and hang over it a glass bell, at such a distance that the flame may not touch it. The vapour of the fulphur will condense in the bell by the cold, and drop down from its fides, like water, into

the veffel placed underneath. The glass usually employed by the chemists differs confiderably from the bell fhape: its belly is fpherical, and has a rim at the bottom turned inwards a little; the upper part ends in a long open ftem: a large receiver, with a hole cut in its bottom, and a long tube inferted into its mouth, would anfwer as well. If the fulphur happens to burn dull, the glafs is taken off, and the matter stirred with an iron wire, or a clean tobacco pipe: as it confumes, fresh quantities are supplied, till all the sulphur defigned for this use is burnt. The condensation of the fumes depends in great measure upon their imbibing aqueous moilture: hence in wet weather, or a damp place, the operation succeeds best. In dry weather, it is customary to moisten the bell, by fuspending it for a little time over the fleam of boiling

This process is sufficiently troublesome, and the yield of acid spirit obtained by it extremely fmall; greatest part of the fumes escaping into the air, partly at the bottom, and partly through the upper aperture of the bell. Several contri-

from the sides of the bell, be vances have been made for preventing this: one of the best commonly known, is that of Mr. Lucas described in the Edinburgh effays; who employs, instead of the bell, a large retort, having a tubulated receiver (with the pipe turned uppermost) adapted to its neck; instead of the large aperture in the bottom of the bell, a small one is made in the bottom of the retort: and thus by diminishing the aperture, enlarging the capacity of the vessels, and lengthening the passage of the fume, a confiderably larger quantity of the fumes are detained than in the common instruments. The commentator on the Edinburgh dispensatory has, by a slight alteration in this apparatus, greatly improved it: he cuts the hole in the fide of the retort, and pours into the bottom an ounce or two of warm water, in the middle of which is placed a shallow stone cup containing the fulphur. The heat of the burning fulphur is foon communicated to the water, fo as to keep it continually rifing in fleam: with this aqueous vapour, the fumes of the brimftone are effectually blended as they afcend; and detained in confiderable quantity, in a much less proportion of phlegm than when the common methods are purfued: for here, the bufinefs of rectification or dephlegmation is carrying on, at the same time that the acid is collecting.

This affair is capable of being much farther improved. In the common method by the bell, in the most favourable circumstances, fcarce above two drams of acid fpirit are obtained from fixteen ounces of fulphur: by Lucas's apparatus, an ounce may be obtained from the fame quantity; and by the other, about two ounces. It is very certain however from experiments, that out of fixteen ounces

and feven drams are pure acid, of fuch strength as to require being diluted with above an equal weight of water, to reduce it to the pitch of common fpirit of fulphur. It follows therefore, that if we could contrive a method of burning fulphur, fo as to preserve all the fumes, we might obtain from it near double its own weight, of an acid of the ordinary strength.

The acid obtained from fulphur is in all respects similar to that of vitriol. The acid of fulphur, united with iron or copper, forms a true vitriol; and the acid of vitriol, combined with inflammable matters, produces fulphur, not distinguifhable from pure common brimflone. The identity of these acids is well known to fome particular persons, who, if we are not greatly mifinformed, fupply us with almost all that is now fold under the name of oil of vitriol, prepar-ed from the fumes of burning fulphur.

SPIRITUS NITRI Glauberi. Glauber's SPIRIT OF NITRE. Lond.

Take three pounds of nitre, and one pound of the flrong spirit, or oil of vitriol. Mix them cautiously and gradually together, under a chimney; and then diffil, at first with a gentle, and afterwards with a fironger heat.

Here the vitriolic acid diflodges the weaker one of nitre, and takes its place. A pound of the former however is fcarce fufficient to expel all the acid from three pounds of nitre: fome direct equal quanti-ties of each. The spirit, in both cases, is in quality the same, the difference in this refpect affecting only the refiduum; which, when the larger proportion of acid is

of fulphur, at least fifteen ounces employed, disfolves readily in water, fo as to be got out without breaking the retort; with the leffer, not; the fmaller proportion is preferred above, left the remaining falt, which is used in medicine,

should prove too acid.

The acid of nitre is next in strength to the vitriolic, and diflodges all but that from alcaline falts or earths. It differs from all the other acids in deflagrating with inflammable matters: if a folution of any inflammable fubftance, as hartshorn, &c. in this acid, be evaporated, as foon as the matter approaches to dryness, a violent detonation enfues. The chief use of this acid is as a menstruum for certain minerals, and as the basis of fome particular preparations, of which hereafter. It has been given likewife diluted with any convenient vehicle, as a diaretic, from ten to fifty drops.

SPIRITUS SALIS MARINI

Glauber's SPIRIT OF SEASALT. Lond.

Take two pounds of fea falt, and the fame quantity of strong spirit, or oil of vitriol. Dilute the acid fpirit with a pint of water, and pour this mixture by little and little on the falt under a chimney; then diffi!, at first with a gentle, and afterwards with a stronger fire.

Edinb. Take of fea falt dried, and powdered two pounds; of oil of vitriol one pound; and as much water as is fufficient to diffolve the falt. Put them into a glass retort, and diftil in a fand heat

to dryneis. It is not needful to dry the falt, fince water is afterwards added to it. The oil of vitriol is most con-

veniently mixed with the water in

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for unless the mixture is made exceeding flowly, it grows fo hot as to endanger breaking a glass one. When this mixture is grown somewhat cool, it may be poured upon the fea falt, already placed in the retort, taking great care to avoid the fumes: instantly lute on a receiver, and proceed to distillation.

The spirit of sea falt is the weakest of the mineral acids, but ftronger than any of the vegetable: it requires a greater fire to diffil it than that of nitre, yet is more readily diffipated by the action of the air. It is used chiefly as a menstruum, for the making of other preparations: fometimes likewife it is given, properly diluted, as an antiphlogistic, aperient, and diuretic, from ten to fixty or feventy drops.

SPIRITUS SALIS. Spirit of falt. Edinb.

Take a pound of fea falt throughly dried, and three pounds of powdered bricks. Mix, and put them into an earthen retort, of fuch a fize that they may fill only one half of it. Place the retort in a reverberatory furnace, adapt to it a large receiver, and lute well the junctures. Let the fire be applied at first very sparingly, and afterwards increafed by degrees, until all the fpirits are driven over in the form of clouds. When the veffels are grown cold, pour out the diffilled liquor into a glass cucurbit, and gently abiliract from it the phlegm, which will leave the spirit pure.

Instead of brickdust, some have used bolar earths and clays. It has been supposed, that these subflances act by difcontinuing and dividing the particles of the falt, to Take two parts of vitriol calcined

an earthen or stone ware vessel; us to enable the fire to expel the fpirit: if this was true, glass or fand would prove equally ferviceable, and the fame intermedium would answer as well for a number of times as at first; the reverse of which, experiments shew to be true. Brick earth, and other sub-flances of this kind, contain a fmall quantity of vitriolic acid, whose known property it is to difengage the acid of fea falt, and which is the only part of them of use in this process. The quantity of spirit therefore, obtained by these intermedia, is only in proportion to that of the acid contained in them, which is extremely fmall. This has occasioned fome to make use of vitriol, as containing a larger quantity of the vitriolic acid; but though vitriol is in this respect greatly preferable to brickdust, or the argillaceous earths; yet in another, it is found less eligible; its metallic part so strongly adheres to the marine acid. as to keep it down after it is feparated from its basis, or else arises along with it, and defiles the product. These methods therefore of extracting the spirit of falt have been for fome time laid afide; the foregoing, in which the pure vitriolic acid itself is used, being in all respects more convenient and advantageous.

AQUA FORTIS. Land.

Take nitre and green vitriol uncalcined, of each three pounds, of the fame vitriol calcined, one pound and an half. Mix them well together, and diffil with a very firong fire, as long as any red vapour arifes.

Edinb. Aqua fortis fimplex. Single aqua fortis.

to whiteness, and one part of powdered nitre. Mix them very well together, and fill therewith an earthen retort to two thirds; then fit on a large receiver, and proceed to diffillation; which is to be performed in the fame manner as directed for spirit of falt

The vitriol here is not liable to the inconvenience mentioned in the foregoing remark: it only occasions a greater heat to be neceffary than when the pure vitriolic acid is used, for the acid of the vitriol must be extricated before it can act on the nitre; the fire, however, must not be extremely strong, otherwise some of the metallic parts of the vitriol will be forced over along with the nitrous acid: the direction of throughly mixing the ingredients ought to be well attended to, for if this is neglected, or but flightly performed, the due quantity of acid will not be obtained. The produce of thefe processes is a spirit of nitre containing fo much more phlegm, or watery moisture than Glauber's fpirit, as the vitriol employed in its preparation does more than an equivalent quantity of oil of vitriol.

> Agua fortis duplex. Double aqua fartis. Edinb.

Take green vitriol calcined to whiteness, clay dried and powdered, and powdered nitre, of each equal parts. Mix them well together, and diffil in an earthen retort as above.

This process has been long received in the shops, but is never-

first, and increase the quantity of the latter; which in order to make the aqua fortis of the firength here intended, should undergo a farther

degree of calcination.

The great demand which there is in fundry bufinefies for agua fortis, has occasioned the preparation of it to become a trade by itself. Hence larger and less expensive instruments than those mentioned above, have been contrived. The common distilling vessel is a large iron pot, with an earthen, or stoneware still-head, to which is adapted a large glass globe, or else a jar made of the same kind of clay as the head. The workmen are not at the trouble either of drying the vitriol, or pounding the nitre, but throw them both promiscuously into the pot, where the fire (which is raifed to a very high degree) foon liquefies, and mixes them together. The aqua fortis, prepared after this manner, is extremely impure, and utterly unfit for many purposes, such in particular are the folution of mercury and of filver: the violence of the fire, employed in the operation, never fails to elevate fome of the metallic parts of the vitriol; the nitre is used rough or unrefined, which containing a portion of sea falt, sends over some of the marine along with the nitrous acid; nor are the ingredients free from bits of wood, or other vegetable matters, which burning in the process foul the fpirit with an empyreumatic oil, giving it, at the fame time, an high colour. If therefore common aqua fortis be employed in any medicinal preparation, it should be purified by theless a very unartful one. The a careful reclification in glass verclay, containing much less acid fels, a fmall quantity of folution than vitriol, is not near fo proper of filver being previously added: an intermedium. It should seem if there is any marine acid in the therefore more eligible to omit the fpirit, the filver will detain it from

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at the bottom of the veffel along for certain mineral substances. with the other impurities.

AOUA FORTIS COMPOSITA. COMPOUND AQUA FORTIS. Lond.

Take fixteen ounces of aqua fortis, and one dram of fea falt. Distil them to dryness.

This is defigned as a menstruum for quickfilver, for the preparation of the red mercurial corrofive, or comes over first be thrown away, red precipitate as it is called; the rest will be the stronger. which the marine acid in this compound liquor renders of a more Put any quantity of the best vineiparkling appearance, and more beautiful to the eye, than when made with the nitrous acid alone.

AQUA REGIA. Edinb.

Put an ounce of powdered fal ammoniac into a large cucurbit, and add to it, by little and little at a time, four ounces of spirit of nitre, or double aqua fortis. Let them stand together in a fund heat, till the fale is entirely diffolved.

The glass in which the mixture is made should be placed under a chimney (to carry up the offensive vapour) and its orifice by no means flopt till fuch time as the falt is perfectly dissolved, and the fumes cease to arise with impetuosity. These cautions are extremely neceffary if the process be conducted according to the directions above. But if the fal ammoniac, finely powdered, be gradually added to the acid spirit (which ought to be of a middle degree of strength between fingle aqua fortis and ilrong fpirit of nitre) the folution will pro-

arifing a fecond time, and keep it and the aqua fortis, is, as menstrua

ACETUM DISTILLATUM, vel SPIRITUS ACETI. DISTILLED VINEGAR, or SPIRIT OF VINEGAR. Lond.

Let vinegar be distilled with a gentle heat, as long as the drops fall free from an empyreuma. If fome part of the fpirit which

gar into a glazed earthen pot, and with the gentle heat of a water bath evaporate about one fourth part of it : then diffil the remainder in an alembic, with a glass head, gradually increasing the fire, as long as the spirit comes off clear.

This process may be performed either in a common still with a condenfing head, or in a retort. The better kinds of wine vinegar should be made use of: those made from malt liquors, however fine and clear they may appear to be, contain a large quantity of a vifcous fubstance, as appears from the fliminess and ropiness to which they are very much subject; this not only hinders the acid parts from arifing freely, but likewife is very apt to make the vinegar boil over into the recipient, and at the fame time disposes it to receive a difagreeable impression from the fire. And indeed, with the best kind of vinegar, if the distillation be carried on to any great length, it is extremely difficult to avoid an empyreuma. The best method of ceed without any inconvenience: preventing this inconvenience is, if and may be finished in a reason- a retort be made use of, to place able compais of time, provided the fand but a little way up the mixture be now and then stir- its sides, and when somewhat more red .- The only use of aqua regia than half the liquor is come over,

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alfo endanger breaking the retort. If the common still is employed, it should likewise be occa- it stands recommended by Boerfionally supplied with fresh vine- haave. gar, in proportion as the fpirit runs off; and this continued, until the quantity of gross matter in the still is fo large, as not to admit of the process being conveniently carried farther. The head of the flill, and the recipient, ought to be of glafs, or stone ware.

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The refiduum of this process is commonly thrown away as useless, though, if skilfully managed, it might be made to turn to good account; the most acid parts of the vinegar still remaining in it. Mixed with about three times its weight of fine dry fand, and committed to distillation in a retort, with a well regulated fire, it yields an exceeding strong acid spirit; together with an empyreumatic oil, which taints the spirit with a dif-This acid is agreeable odour. nevertheless, without any rectification, better for fome purposes (as a little of it will go a great way) than the pure spirit; particularly for making the fal diureticus of the London dispensatory; for there the oily matter, on which its ill flavour depends, is burnt out by the calcination.

The fpirit of vinegar is a purer and flronger acid than vinegar itfelf, with which it agrees in other respects. The medical virtues of

to pour on the remainder a quan- mineral acids confifts in their being tity of fresh vinegar equal to that milder, less stimulating, less dispoof the liquor drawn off: this may fed to affect the kidneys, and probe repeated three or four times; mote the urinary fecretions, or to the vinegar supplied at each time coagulate the animal juices. The being previously made hot; the matter left after the distillation, addition of cold liquor would not though not commonly made use of only prolong the operation, but in medicine, would undoubtedly prove a serviceable detergent, saponaceous acid; and in this light

TARTARUM VITRIO-LATUM. VITRIOLATED TARTAR. Lond.

Dissolve eight ounces of green vitriol in four pints of boiling water: and whilft the liquor continues boiling, throw into it falt of tartar, or any other alcaline falt, till no farther effervescence arifes upon a fresh addition; which generally happens when four ounces, or a little more of the falt have been used. Filter the liquor through paper, and after due evaporation fet it by to crystallize.

Here the acid of the vitriol forfakes the iron which it was before in possession of, to unite with the alcaline falt : particular care ought to be had that the quantity of alcali be fufficient to fully faturate the acid, otherwise it will not deposite all the metal. It is convenient, even after the faturation feems, from the effervescence ceasing, to be compleated, to throw in a little more of the alcali; for by this means the preparation is fecured from containing any metallic matter; whilst the superfluous quantity of alcali can do no prejudice, as it remains uncrystallized. these liquors may be seen in the It is remarkable, that although the fection of acids, page 52, and un- vitriolic acid and fixt alcaline falt der the article ACETUM, page 67. do each readily unite with water, their principal difference from the and firongly attract moisture even

from the air; yet the neutral falt refulting from a mixture of these two, vitriolated tartar, is very difficult of solution, and does not remain suspended in cold water; from hence we are directed to filter the liquor in this process whilst very hot, otherwise great part of the salt will be left upon the paper; a circumstance sufficiently troublesome.

Edinb.

Put any quantity of oil of tartar per deliquium, into a large glass vessel; and gradually drop into it oil of vitriol, diluted with equal its quantity of warm water, till the effervescence ceases. Then filter the liquor, evaporate it till a pellicle appears upon the furface, and set it by in a cold place to crystallize.

This is a very elegant, and one of the least troublesome ways of making this salt. The wholesale dealers in medicine, however, have long thrown both processes aside, and substituted an article which has been almost useless in their shops, the caput mortuum of Glauber's spirit of nitre. See the follow-

ing process.

Fixt alcaline falts, exposed for a length of time to the air, imbibe therefrom (besides aqueous moifture) a portion of vitriolic acid, fo as to yield a pure vitriolated tartar: hence a falt of this kind is frequently found among the potashes brought from abroad. Some have entertained a great opinion of the medical virtues of the vitriolated tartar thus produced by the aereal acid; though experience discovers no difference betwixt it and that skilfully prepared in the All the use we common way. would make of this observation is, that potash, as already containing a portion of the falt required, is at least as fit for this process as the

genuine falt of tartar, but that for other purposes it ought to be purified from its neutral falt; the method of doing which is pointed out by the different solubility of the two, already taken notice of.

Vitriolated tartar is an aperient neutral falt. It is fometimes exhibited in fmall dofes, as a fcruple, or half a dram, for attenuating vifcid juices, and promoting the fluid fecretions: in larger dofes, it proves a mild and fafe catharthic.

NITRUM VITRIOLATUM. VITRIOLATED NITRE.

Lond.

Diffolve in warm water the mafs which remains after the diffillation of Glauber's spirit of nitre: filter the solution through paper, and crystallize the falt.

This falt is very nearly one and the fame thing with the vitrio-lated tartar, to which it has been frequently fubflituted. It confifts of the vitriolic acid, united with the basis of nitre, which differs no otherwise from a fixt alcaline falt, than in containing a minute admixture of a calcareous earth.

SAL CATHARTICUS
GLAUBERI.
The CATHARTIC SALT OF
GLAUBER, commonly called
SAL MIRABILE.

Lond.

Diffolve in warm water the mafs which remains after the diftillation of spirit of sea salt: filter the solution, and crystallize the falt.

Edinb.

If the crystals (obtained as above) prove too sharp, dissolve them again in water, filter the liquor, and cautiously evaporate it to such a pitch only as may dispose the falt to crystallize.

There

There is no great danger of the crystals proving too sharp, even when the spirit of falt is made with the largest proportion of oil of vitriol directed under that process. The liquor which remains after the crystallization is indeed very acid; and with regard to this preparation, it is convenient it should be fo; for otherwise, the crystals will be very fmall, and likewife in little quantity. Where a fufficient proportion of oil of vitriol has not been employed in the distillation of the spirit, it is necessary to add some to the liquor, in order to promote the crystallization of the falt.

The title of this falt expresses its medical virtues. Taken from half an ounce to an ounce, or more, it proves a mild and uteful purgative; and in smaller doses, largely diluted, a ferviceable aperient and diuretic. The shops frequently substitute to it the fal catharticus amarus (fee page 195.) which is nearly of the same quality, but fomewhat more unpleasant, and, as is faid, less mild in operation. They are very eafily diffinguishable from one another by the different effects of alcaline falts upon them, as mentioned in the page above re-

SAL PRUNELLÆ.

Take two pounds of the purest nitre, reduced to powder. Melt it in a crucible, and sprinkle into it, by little at a time, one ounce of slowers of sulphur. When the deslagration is over, pour out the melted salt upon a clean, dry, and warm brass plate, so as to form it into cakes.

Those who prepare fal prunell in large quantities, make use of a clean iron pot instead of a crucible; and when the nitre is melted, and the sulphur deslagrated, take out

the falt with an iron ladle, and pour it into brass moulds kept for this purpose. The previous pounding of the nitre, directed above, may be as well omitted, as occafioning a needless trouble.

This preparation was formerly in great efteem, and is fometimes still ordered in prescription. It is nevertheless built upon an erroneous foundation, which fupposed, that the nitre was purified by the deflagration it undergoes upon injecting a little fulphur on it : from proper experiments it appears, that the fulphur is fo far from depurating the nitre, or tending to its improvement as a medicine, that it really alters fome part of it into a falt, which has quite different properties; and therefore, as far as fo little a quantity of fulphur can go, alters it for the worfe. Hence Boerhaave directs the nitre, intended for making fal prunell, to be purified after the common method, and then melted by itself, and poured out into moulds. The fusion, here, brings the falt into a lefs compafs, by evaporating the aqueous moisture, which has concreted with it in its crystallization.

SAL POLYCHRESTUM.

Salt of many virtues. Edinb.

Take powdered nitre and flowers of fulphur, of each equal parts. Mingle them well together, and inject the mixture, by little and little at a time, into an ignited crucible: after the deflagration ceases, keep the crucible in the fire for an hour. The salt may be purished by dissolving it in warm water, filtering the solution, and exhaling it to dryness.

This falt does not greatly differ from fome that may be afforded at a cheaper a cheaper rate, as is well known in the shops; and little deserves the pompous title which the chemists have given it. It is composed of the acid of the sulphur, and the alcaline basis of the nitre.

SPIRITUS SALIS MARINI
COAGULATUS.
COAGULATED SPIRIT OF
SEA SALT.
Lond.

Drop into Glauber's spirit of salt, a lixivium of any fixt alcaline falt, till all effervescence ceases; then evaporate the mixture to dryness.

This regenerated fea falt (as it is very properly called) is entirely new to books of pharmacy, and might perhaps have been very well spared in this. It does not differ from common falt in any property which a flight addition of the acid fpirit will not give the latter. The regenerated falt affords with the vitriolic acid a fal mirabile, with the nitrous a quadrangular nitre, as common falt does: and again, common falt, when reduced into a like quadrangular nitre, deflagrates with inflammable matters, and forms a pure and perfect alcaline falt .- In the preparation of this falt, the operator must be careful not to exficcate it with too flrong a fire; left, instead of the acidulated falt here intended, he produce one not distinguishable from that used at table.

SAL SEDATIVUS.
Salt of borax called
SEDATIVE SALT.

Put nine cunces of powdered borax into a wide necked retort; pour thereon half an ounce of water; and then add two ounces of oil of vitriol. Place the retort in a proper furnace, and gradually increase the fire till the vessel becomes red hot. The fedative falt will arife into the neck, in form of thin shining plates, which are to be swept out with a feather.

Or,
Dissolve the borax in a sufficient quantity of warm water, and add thereto the oil of vitriol. Evaporate this mixture, till thin plates appear upon the surface; then suffer the fire to decay, and let the vessel stand unmoved till plenty of crystals are formed.

Though the vitriolic acid has been usually directed in this process, any other will answer as well: the matter which remains after the feparation of the fedative falt, is, when this acid is employed, a Glauber's falt; when the nitrous is made use of, a quadrangular nitre; when the marine, a genuine fea falt. The fal fedativus, united with the basis of sea falt (or with an alcali, that has been previously combined with the marine acid) recompofes borax again. This falt appears to the tafte a neutral fait; but examined with alcalies has the properties of an acid, effervefcing, uniting, and crystallizing with them, and destroying their alcaline quality. It dissolves both in water and in fpirit of wine; though not very readily in either. As to its virtues, it is supposed to be a mild anodyne, (whence its name) to calm the heat of the blood in burning fevers, to prevent or remove delirious symptoms, and allay spasmodic affections, whether hypochondriacal or hytterical, at least for a time. dose is from two to twelve grains, in any proper liquor.

TARTARUM SOLUBILE.
SOLUBLE TARTAR.
Lond.

Diffolve a pound of any fixt alcaline falt in a gallon of boiling U 3 water

water; and gradually throw in crystals of tartar, as long as a fresh addition thereof raises any effervescence; which generally ceases before three pounds of the crystals have been used. Then filter the liquor, and after due evaporation, set it by to crystallize; or evaporate it to dryness, and keep the remaining saline mass for use.

Edinb.

Boil crystals of tartar, till they are perfectly dissolved, in ten times their quantity of water; and gradually drop into the folution, whilst it continues boiling, oil of tartar per deliquium, till the effervescence ceases. Filter the liquor whilst hot, and evaporate it till a pellicle appears on the furface, that when removed into a cold place, it may crystallize.

Common white tartar is perhaps preferable for this operation to the crystals usually met with (see the article TARTAR, page 216.) Its impurities can here be no objection; since it will be sufficiently depurated by the subsequent filtration.

The preparation of this medicine by either of the above methods is very eafy; though fome chemists have rendered it fufficiently troublefome by a nicety that is not at all wanted. They infilt upon hitting the very exact point of faturation betwixt the alcaline falt and the acid of the tartar; and caution the operator to be extremely careful, when he comes near this mark, left by imprudently adding too large a portion of either, he render the falt too acid, or too alcaline. If the liquor be fuffered to cool a little before it is committed to the filter, and then properly exhaled and crystallized, no error of this kind can happen, though the faturation should not be

very exactly hit: for fince cryftals of tartar are very difficultly foluble even in boiling water, and when diffolved therein, concrete again upon the liquors growing cold; if any more of them has been employed, than is taken up by the alcali, this fuperfluous quantity will be left upon the filter: and on the other hand, if too much of the alcali has been made use of, it will remain uncrystallized. The crystallization of this falt indeed cannot be effected without a good deal of trouble: it is therefore most convenient to let the acid falt prevail at first, to separate the fuperfluous quantity, by fuffering the liquor to cool a little before filtration, and then proceed to the total evaporation of the aqueous fluid, which will leave behind it the neutral falt required. The most proper veffel for this purpose is a glazed earthen or stone ware one ; iron difcolours the falt.

This falt has long been in efteem both as a medicine as a menftruum. It is a very ferviceable, aperient, attenuates viscid juices, promotes the urinary secretion, and gently loosens the belly: the dose is from ten grains to a dram or two, or more. It is an useful addition to the refinous purgatives, as it promotes their action, and at the same time prevents their griping

quality.

SAL DIURETICUS.

Lond.

TARTARUS REGENERATUS.

Edinb.

The DIURETIC SALT, or

REGENERATED TARTAR,

otherwise called,

TERRA FOLIATA TARTARI.

Edinb.

Put any quantity of dry falt of tartar, powdered, into a large glass vessel; and pour thereon,

by little and little, as much diffilled vinegar as is necessary to faturate it. Filter the liquor, and exhale it, over a very gentle fire, to dryness, taking great care that the matter contract not an empyreuma. On the falt which remains, pour as much more spirit of vinegar as will saturate it; then depurate the liquor again, and carefully exsicate it into a dry salt.

If the common alcalies are made use of for this process, they should be previously purified, by solution and crystallization, from the neutral salt which they generally contain. The distilled vinegar must be perfectly free from any empyreumatic taint: it is not necessary to dephlegmate it, or throw away the first runnings in the distillation, since these contain a portion of the acid (the part here wanted) as well

as the phlegm. It is difficult to hit the point of faturation betwixt the acetous acid, and the alcaline falt. After about fourteen parts of strong distilled vinegar have been gradually poured upon one of the fixed falt, the addition of a little more of the acid will not occasion any further effervescence in the cold; but if the mixture be now ftrongly ftirred and well heated, the effervescence will appear afresh; upon which fome more vinegar is to be added, till it again ceases. The saturation is not as yet complete; for upon exhaling the aqueous parts, the remaining falt still effervesces with fresh vinegar. When so much of the acid has now been added that no marks of fermentation any longer appear, a little more of the vinegar may be poured in before you proceed to the last evaporation; by this means, the faturation of the alcali will be fecured, whillt, if the acid prevails,

the superfluous quantity of it will exhale.

The falt thus prepared, is of a dark brown colour, a peculiar, not ungrateful odour, a penetrating, faponaceous, faline taste, in no wise alcaline or acid. Its brown colour, and faponaceous quality, proceed from the oily parts of the vinegar; the depuration of the salt from which, is not in the foregoing process infished on.

Lond.

Take a pound of any fixt alcaline falt, and boil it, with a very gentle heat, in four or five times its weight of distilled vinegar. When the fermentation ceases, add more distilled vinegar; and proceed with fresh additions thereof, until the vinegar being almost evaporated, fresh vinegar will no longer raise any fermentation; which generally happens by the time that twenty pounds of distilled vinegar have been used. Then slowly exhale to dryness.

Melt the remaining impure falt for a little time, but not too long over, a gentle fire; then diffolve it in water, and filter the folution through paper. If the melting has been duly performed, the filtered liquor will be limpid and colourless as water; but if otherwise, of a brown colour.

Evaporate the limpid folution, with an exceeding gentle heat, in a shallow glass vessel; occafionally stirring the salt as it dries, that its moisture may be the fooner exhaled. Afterwards keep it for use in a vessel very closely stopt; for it will liquely by the air.

This falt ought to be of perfect whiteness; and should totally dissolve both in water and in U 4

fpirit of wine, without leaving any feces. If the falt, though ever fo white, deposites any feces in spirit of wine; the whole of it must be dissolved in this spirit, the solution siltered, and

exficcated again.

We need not here be very folicitous that the vinegar be free from an empyreuma: fuch as is very confiderably empyreumatic (particularly the firong concentrated acid obtained from the caput mortuum of vinegar) answers as well as any other; the oil in which the burnt flavour refides, being feparated by the depuration above di-rected. This purification is indeed fufficiently troublefome: the operator must be particularly careful in melting the falt, not to use too great a heat, or to keep it liquefied too long; a little should be occafionally taken out, and put into water; and as foon as it begins to part freely with its black colour, the whole removed from the fire. In the last drying, the heat must not be fo great as to melt it; otherwife it will not prove totally foluble. If the folution in spirit of wine be exficcated, and the remaining falt liquefied with a very foft fire, it gains the leafy appearance, which has procured it the name terra foliata.

We shall not take upon us to determine whether the pure or impure falt are preserable as medicines; observing only, that the latter is more of a saponaceous nature, the former more acrid, though semewhat more agreeable to the stomach. They are both medicines of great esseate, as to prove either mildy cathartic, or powerfully diurette: sew of the saline deobstruents come up to them in virtue. The dose is from half a scruple to a dram or two.

A bare mixture of alcaline falt and vinegar without exficcation, is not perhaps much inferior as a medicine to the more elaborate falt: I have known two drams of the alcali, faturated with vinegar, occafion ten or twelve flools, in hydropic cases, and a plentiful discharge of urine, without any inconvenience.

SPIRITUS MINDERERI. SPIRIT OF MINDERERUS.

Edinb.

Take any quantity of the volatile alcaline falt of fal ammoniac, and gradually pour upon it diffilled vinegar, till the effervescence ceases; occasionally stirring the mixture, to promote the action of the vinegar on the falt.

This neutral spirit has been for some time held in considerable efteem; and successfully employed as a deobstruent and diaphoretic: it may be so managed as to prove powerfully diuretic; and if given in a considerable dose, gently loosens the belly. The strength of this medicine greatly depends upon that of the vinegar; and therefore its dose can scarce be determined.

SPIRITUS VITRIOLI DULCIS. DULCIFIED SPIRIT OF VITRIOL.

Lond.

Take of the strong spirit or oil of vitiol, one pound; of rectified spirit of wine, one pint. Cautiously mix them together, by little and little at a time; and distil the mixture, until a black froth begins to arise: then immediately remove the whole from the fire, lest this froth should pass over into the recipient, and frustrate the operation.

Edinb.

Salts and Saline Preparations. Chap. 8.

Edinb.

Take four pounds of rectified spirit of wine, and fix ounces of oil latter into the former, by a little at a time; digeft them together for three days; and then distil according to art.

processes, make no variation in the quality of the produce, provided the distillation be duly conducted. The refidua indeed are confider- is colourless as water, very volaably different from one another: tile, inflammable, extremely odothat of the first is extremely acid. rous, in taste somewhat aromatic: and might be employed for the this is the true dulcified spirit of fame purpose again, and this for feveral times fuccessively, instead

The distillation should be performed with an equable and very mixture is to be put into a retort with a very long neck, whose body should be capable of containing at least four times the quantity: fet the retort on a little fand) no more than is just sufficient to keep it steady) in a proper furnace; and adapt to it a large tubulated recipient, in fuch a manner, that its pipe may convey the matter which shall come over, immediately into a vial placed underneath: the juncture of the retort and recipient, is to be luted with a paste made of linfeed meal, and farther fecured by a piece of wet bladder: the lower juncture may be closed only with some fost wax,

that the vial may be occasionally removed with eafe. A gentle fire being now applied, a volatile fpiof vitriol. Cautiously drop the rit soon arises, and condensing upon the fides of the recipient, in ftreight ftriæ, runs down into the vial. After the fire has been kept up for fome time, white vapours The different proportions of the come over, which form either irreacid fpirit to the vinous in these gular streams, or collect into large round drops: on the first appearance of these, the vial must be taken away. The distilled liquor vitriol.

If the distillation be farther conof fresh oil of vitriol; whilst the tinued (another vial being put in residuum of the other has but little place of the former) an acid liquor comes over, of an exceeding pungent fmell, like the fume of burning fulphur: at length a black gentle heat; and not continued fo froth begins hastily to arise, which long as till a black froth begins to prevents our carrying the process appear; for before this time, a farther. On the surface of the fulfulphureous liquor will arife, of a phureous spirit is found swimming very different nature from the spi- a small quantity of OIL, of a light rit here intended. The commen- yellow colour, and a strong and very tator on the Edinburgh pharmaco- agreeable fmell. This oil feems to pæia describes a very convenient be of the same nature with the efapparatus for this purpose. The sential oil of vegetables: it readily and totally diffolves in rectified fpirit of wine, and communicates to fixty times its weight thereof the fame tafte and fmell with the aromatic or dulcified spirit.

Dulcified spirit of vitriol has been for some time greatly esteemed both as a medicine and as a menstruum. Considered in the first light, it promotes perspiration and the urinary fecretion, expels flatulencies, and in many cases eases pains and procures fleep; when made in perfection, it differs not confiderably from a preparation which has been relebrated in Germany under the name of the mineral anodyne liquor of Hoffman;

this last being only somewhat more impregnated with the aromatic oil above mentioned : it may be given, in flatulent colics, &c. from ten to ninety drops, in any convenient vehicle. As a menstruum, it extracts elegant tinctures from fundry vegetables, and diffolves fome refinous matters that are fcarce acted upon by fpirit of wine alone. It is the basis of VIGANI'S VOLA-TILE ELIXIR OF VITRIOL, a medicine which has been in great efteem, and was first communicated to the public in the pharmacopæia reformata: this is prepared by di-gesting some of the spirit upon a finall quantity of mint curiously dried, till it has acquired a green colour. If the spirit, as it frequently does, partakes too much of the a-cid, this colour will not fucceed: in fuch case, it should be carefully rectified by a fecond distillation, from a small quantity of fixt alcaline falt, in the heat of a waterbath. The mint is most commodioufly suspended in the spirit, in a fine linen cloth; this prevents the necessity of filtration, during which the more volatile parts would ex-

If the dulcified spirit of vitriol be re-distilled from twice or thrice its weight of water, and afterwards poured into an equal quantity of fresh water, and the whole well shaken together in a close vessel; the liquor gains a milky appearance, but immediately grows clear again, throwing up to the furface an extremely volatile inflammable fluid, not miscible with water or with any other known liquor. This is called by the chemists æther or ÆTHEREAL SPIRIT OF WINE: it has been hitherto regarded chiefly as a matter of curiofity, though poslibly applicable to useful purposes in medicine: digested in the cold for about an hour upon any vegetable substances, it extracts their essences, or oils, in which their peculiar virtues reside; these may be afterwards separated from it by the affusion of water.

SPIRITUS NITRI DULCIS. DULCIFIED SPIRIT OF NH RE.

Lond.

Take a quart of rectified spirit of wine, and half a pound of Glauber's spirit of nitre. Mix them by pouring the nitrous spirit into the other; and distil with a gentle heat, as long as the liquor which comes over does not raise any effervescence with lixivial salts.

Put three parts of rectified spirit of wine into a large bolt-head, and gradually add thereto one part of spirit of nitre. Digest them to-

fpirit of nitre. Digest them together for two days; and then distil in a sand heat, according to art; taking care, towards the end of the operation, that the retort break not from too great a

heat.

Here the operator must take care not to invert the order of mixing the two liquors, by pouring the vinous spirit into the acid; for if he should, a violent effervescence and heat would enfue, and the matter be dispersed in highly noxious red fumes. The most convenient and fafe method of performing the mixture feems to be, to put the inflammable fpirit into a large glass body with a narrow mouth, placed under a chimney, and to pour upon it the acid by means of a glass funnel, in very small quantities at a time; shaking the vessel as foon as the effervescence enfuing upon each addition ceases, before a fresh quantity is put in: by this means, the glass will heat equally,

qually, and be prevented from breaking. During the action of the two fpirits upon one another, the veffel should be lightly covered; if close flopt, it will burst; and if left entirely open, fome of the more valuable parts will exhale. Lemery directs the mixture to be made in an open vessel; by which unscientifical procedure he ufually loft, as he himfelf observes, half his liquor; and the remainder was not the medicine here intended. The liquors mixed together. should be suffered to rest for at least twelve hours, that the fumes may entirely subside, and the union be in some measure completed. The distillation should be performed with a very flow and well regulated fire; otherwife the vapour will expand with fo much force as to burst the vessels. Wilson seems to have experienced the justness of this observation; and hence directs the juncture of the retort and receiver not to be luted, or but flightly: if a tubulated recipient, with its additional pipe, be made use of, and the distillation performed with the heat of a waterbath, the veffels may be luted without any danger: this method has likewife another advantage, as it afcertains the time when the operation is finished; examining the diffilled spirit every now and then with acaline falts as directed above, is fufficiently troublesome; Distil amber in a sand heat graduwhilst in a water bath, we may fafely draw over all that will arise, for this heat will elevate no more of the acid than what is dulcified by the vinous fpirit.

Dulcified spirit of nitre has been long held, and not undefervedly, in great esteem. It quenches thirst, promotes the natural fecretions, expels flatulencies, and moderately strengthens the stomach: it may be

given from twenty drops to a dram. in any convenient vehicle. Mixed with a fmall quantity of spirit of hartshorn, the spiritus volatilis aromaticus, or any other alcaline spirit, it proves a mild yet efficacious diaphoretic, and often notably diuretic; especially in some sebrile cases where such a falutary evacuation is wanted. A fmall proportion of this spirit added to malt spirits, gives them a flavour approaching to that of French brandy.

SPIRITUS SALIS DULCIS. DULCIFIED SPIRIT OF SALT. Edinb.

This is made with spirit of falt. after the fame manner as dulcified spirit of nitre.

The dulcification of the spirit of falt does not succeed so perfectly, as that of the two foregoing acids, only a minute portion of it uniting with the spirit of wine, and unless the process is skilfully managed. fcarce any. Some have held this spirit in great esteem against weaknefs of the flomach, indigeftion, and the like, following from hard drinking; at present, it is not often made use of, or kept in the shops.

SPIRITUS, SAL, ET OLEUM SUCCINI. SPIRIT, SALT, AND OIL OF AMBER.

Lond.

ally increased: there will come over a spirit, an oil, and a salt fouled with the oil.

The oil distilled again by itself, is divided into a thinner oil which arises; and a thicker part that remains behind, called ballam of amber.

The falt is to be boiled in the diffilled spirit, or in common water, and fet to crystallize; by

this means it is freed from its adhering oil. The oftner this is repeated, the purer it will be. Edinb.

Mix powdered white amber with thrice its weight of clean fand, and put them into a glass retort, of which the mixture may fill one half: then adapt a large receiver, and distil in a fand furnace, with a fire gradually increafed. At first a spirit will come over, with fome yellow oil; then more yellow oil, along with a little falt; and upon raifing the heat, more of the falt, with a reddish coloured oil.

When the distillation is finished, empty the liquor out of the receiver; and having collected together the falt which adheres to the fides, dry it by gentle preffure between the folds of some fpongy paper.

The oil may be feparated from the fpirit by filtration : and afterwards rectified by distilling it from a brine of fea falt.

The falt is to be rectified in the following manner. Grind it well with twice its quantity of fea falt, and put the mixture into a tall and narrow glass cucurbit : fit on a blind-head, and proceed to fublimation in a fand heat, taking care that the oil does not rife. When the vessels are grown cold, fweep out the falt with a feather.

The diffillation of amber may be performed without the use of fand (or any other intermedium) which does little more than take up room in the retort. The chemists generally leave the receiver unluted, that it may be occasionally removed as the falt rifes and concretes in the neck of the retort, from whence it is every now and then to be scraped ing it down into the receiver, crid tafte. Given in a dose of ten

When a grofs thick oil begins to arife, and no more falt appears, the distillation should be stopt. The spirit of amber so called, is no more than a folution of a fmall portion of the falt in phlegm or water; and therefore is very properly employed for diffolving the falt in order to its crystallization. We cannot take upon us to determine whether crystallization or sublimation is absolutely the best method of purifying this falt: the former is certainly the easiest and least expensive; whilst the latter gives the falt a more elegant appearance, and renders it less liable to be adulterated.

Pure falt of amber is of a penetrating, gratefully acid tafte. It diffolves, both in water and in rectified fpirit; and with a proper quantity of the former, shoots into an irregular lump of crystals. Exposed to a fmall heat, in a glass vessel, it first melts, then rifes in a white fume, and concretes again. in the upper part of the glass, into fine white flakes. It effervesces with alcaline liquors, but makes no fensible-commotion with acid ones. Ground with fixt alcaline falts, it does not exhale any urinous odour. By these characters, we conceive, this falt may be readily diffinguished from all the other matters that have been mixed with or vended for it. Salt of amber is accounted aperient, diuretic, and, on account of its retaining some portion of the oil, antihysteric: Boerhaave gives it the character of diureticorum et antihystericorum princeps. Its great price, however, has prevented its coming much into use; and perhaps its real virtues are not equal to the opinion generally entertained of

The rectified oil has a strong biout, to prevent the oil from carry- tuminous fmell, and a pungent, aor twelve drops, it heats, fimulates, and promotes all the fluid fecretions; it is chiefly celebrated in hysterical diforders, and in deficiencies of the uterine purgations. Sometimes it is used externally, in liniments for weak or paralytic limbs, and rheumatic pains.

SPIRITUS, SAL et OLEUM CORNU CERVI. SPIRIT, SALT and OIL OF HARTSHORN.

Diffil pieces of harfhorn by a fire gradually raifed almost to the highest: a spirit, salt and oil will ascend.

If the oil be feparated: and the fpirit and falt diffilled again together, with a very gentle heat, they will both arise more pure. If this be carefully repeated feveral times, the falt will become exceedingly white, the spirit limpid as water, and of a grateful odour.

The falt feparated from the fpirit, and fublimed first from an equal weight of pure chalk, and afterwards from a little rectified spirit of wine, becomes the sooner pure.

Calcined hartshorn is generally made by burning the horns left after this distillation.

After the fame manner, a fpirit, falt and oil may be obtained from every kind of animal fub-flance.

Edinb.

Fill an earthen or coated glass retort up to the neck with pieces of hartshorn; place it in an open fire, and having fitted on a large receiver, distil with a fire gradually augmented. At first a phlegm arises, then a spirit, afterwards an oily falt of a yellow colour, and last of all, a reddish black coloured oil, along with some

more volatile falt: a black coal remains at the bottom of the diftilling veffel, which being burnt in an open fire till it becomes white, is called calcined hartf-

Having poured out of the recipient all the different matters which have come over into it, they may be feparated from one another in the following manner: The oil feparates from the phlegm and spirit in filtration: the two latter will pass through, and the oil remain on the filter.

The phlegm may be feparated from the spirit by distillation in a tall vessel, with a gentle heat: the spirit will come over into the recipient, and the phlegm remain at the bottom of the distilling vessel.

The spirit may be divided into a volatile salt and phlegm, by distilling it in a very tall and narrow cucurbit; the salt will arise, and adhere to the head in a dry form; the phlegm remaining behind.

The falt may be freed from the oil, by fubliming it from fix times its quantity of chalk or calcined bones; for the oil is kept down by these substances, whilst the falt arises.

A fpirit, falt and oil may be diffilled in the fame manner from all the folid parts of animals; from blood, exficcated by a gentle heat; from urine, evaporated to the confiftence of honey, and putrefied; and even from recent urine, infpiffated; in this laft process, it is convenient to mix with the urine four times its quantity of fand, or an equal quantity of any fixt alcaline falt. Urine diffilled with the addition of quicklime, yields only an exceeding pungent spirit.

The chemists usually employ in

distilling vessel being charged with rected. pieces of the horn, a moderate fire concretes in a folid form to the fides of the recipient. If it is required to have the whole of the falt folid and undiffolved, the phlegm should be removed as foon as the falt be-

this process a large iron pot, with mence, as to throw off or burst the an earthen head almost like that of receiver: to prevent this accident, the common still: many of the it is convenient to have a small hole wholefale dealers have these instru- in the luting; which may be ocments very large, and use for their casionally stopped with a wooden recipients a couple of oil jars, the peg, or opened, as the operator mouths of which are luted toge- shall find proper. After the salt ther; the pipe that comes from the has all arisen, a thick, dark cohead enters the lowermost jar, loured oil comes over: the process through a hole made on purpose in is now to be discontinued, and the its bottom. When a large quantity veffels, when grown cold, unluted. of the subject is to be distilled, it All the liquid matters being poured is customary to continue the ope- out of the receiver, the falt which ration for feveral days successively; remains adhereing to its sides, is to only unluting the head occasionally, be washed out with a little water, to put in fresh materials. When and added to the rest. It is conve-only a small quantity of spirit or nient to let the whole stand for a falt is wanted, a common iron pot, few hours, that the oil may the fuch as is usually fixed in fand fur- better difengage itself from the linaces, may be employed; an iron quor, so as to be first separated by head being fitted to it: the receiver a funnel, and afterwards more perought to be large, and a glass or feelly by filtration through wetted rather tin adopter inserted betwixt paper. The salt and spirit are then it and the pipe of the head. The to be farther purified as above di-

The spirit of hartshorn met with is applied, which is flowly increased, in the shops is extremely precarious and raifed at length almost to the in point of strength; the quantity utmost degree. At first, a phleg- of salt contained in it (on which its matic liquor arises; the quantity of efficacy depends) varying according which will be less or greater, ac- as the distillation, in rectifying it, cording as the horns were more or is continued for a longer or shorter less dry: this is succeeded by the time. If after the volatile falt has falt and oil; the falt at first, dif- arisen, so much of the phlegm or folves as it comes over, in the watery part be driven over after it, phlegm, and thus forms what is as is just sufficient to dissolve it, called spirit: when the phlegm is the spirit will be fully saturated, faturated, the remainder of the falt and as strong as it can be made : if the process is not at this instant flopt, the phlegm, continuing to arife, must render the spirit continually weaker and weaker. The distillation therefore ought to be gins to arife, which may be known discontinued at this period, or raby the appearance of white sumes: ther whilst some of the salt still and that this may be done the more remains undiffolved : the fpirit will commodiously, the receiver should thus prove always equal, and the be left unluted, till this first part buyer be furnished with a certain of the process is finished. The criterion of its strength. Very sew white vapours which now arife, have taken any notice of the above formetimes come with fuch vehe-mentioned inconvenience of these kinds

Chap. 8. Salts and Saline Preparations.

except the author of the pharma- efteemed particularly ferviceable in copeia reformata. The purity of the diforders occasioned by the bite the spirit is easily judged from its of that animal; and one drawn clearness and grateful odour.

Volatile falts and spirits in general, are in tafte and finell extremely pungent and acrimonious: applied to the skin, and prevented from exhaling, they inflame the part, and produce the effect of caustics: they liquefy the animal juices, and diffolve the coagula made from them by acids; mixed immediately with acids, they effervesce, and unite into a neutral

With regard to their medical virtues, they stimulate the nervous fystem, attenuate viscid humours, promote a diaphoresis and other natural fecretions, and abforb acidities in the prime viæ. They are par-ticularly useful in lethargic and apoplecticeases; in hypochondriacal and hysterical disorders, and the languors, head-achs, inflations of the flomach, flatulent colics, and other fymptoms with attend them. I my are generally found more ferviceable and aged perfons, and in phlegmatic habit. ... than in the opliquid form, largely diluted with water or other convenient liquors: the dose of the pure falt is from two or three grains to ten, twelve, or more: the spirit is taken from five or fix to thirty or more drops.

kinds of spirits: and no one that ceive specific virtues from the subwe know of has hinted the remedy ject. The falt of vipers has been from the human fcull, in difeases of the head. But modern practice acknowledges no fuch different effects from these preparations, and chemical experiments have shewn their identity. There is indeed, when not fufficiently purified, a very perceptible difference in the fmell, taste, degree of pungency, and volatility of these falts; and in this state, their medicinal virtues vary confiderably enough to deferve notice: but this difference they have in common, according as they are more or lefs loaded with oil, not as they are produced from this or that animal fubfiance. As first distilled, they may be looked upon as a kind of volatile foap, in which the oil is the prevailing principle: in this state, they are much less acrimonious and pungent, than when they have undergone repeated distillations, and fuch other operations as disengage the oil from the falt; for by this means, they lose their faponaceous quality, and acquiring greater degrees of acrimony, become medicines of a posite circumstances. In febrile acrimony, become medicines of a and inflammatory distemptors, they are hurtful; those kinds of temperatures rations, therefore, do not differ rations, therefore, as near fo much from one another, as excepted which are accompanied with a cough, hoarfeners, and a redundance of phlegm. They are most conveniently exhibited in a be added, that the part was part of the may rent states on the maximum states of the maximum s them as loaded with oil, t. d the

These oils, as first distilled, are of themselves too fetid and offensive for medicinal use: by re-The volatile falts and spirits pre- peated rectifications, they become pared from different animal fub- limpid as water, highly volatile, of stances, have been supposed capa- an agreeable fragrant smell, and a ble of producing different effects penetrating taste. Hoffman and upon the human body, and to re- others, bestow an extraordinary

of a distilled animal oil are likewise

to be brought into the account.

character upon the oils thus purified, under the name of OLEUM ANIMALE; and strongly recommend them in epileptic cases and intermittent fevers. Their more fenfible effects are, to promote fweat, and procure a calm gentle fleep, which fometimes continues for twenty hours, and is rarely accompanied with the languor or other inconveniencies which too frequently follow upon the ufe of opiates.

SPIRITUS, SAL, et OLEUM FULIGINIS SPIRIT, SALT, and OIL OF

as directed above for harshorn: to render the spirit and falt pure.

The volatile alt and spirit of foot are, when infliciently purified, not different in quality from those of animal subhances: though by fome preferred in nervous complaints, particularly in epileptic

SPIRITUS et SAL VOLATILIS SALIS AMMONIACI. The VOLATILE SALT and SPIRIT OF SAL AMMONIAC. Lond.

Take a pound and an h 's of any and found of fal fixt alcaline faland four pints of wher. Diftil off with a gentle heat, two pints of spirit.

The volatile falt is made from a pound of fal ammoniac mixed with a strong fire.

Take equal parts of fal ammoniac

and put them into a glass retort, with as much water as is fufficient to diffolve the falts; and distil in a fand heat. The volatile falt will arise first: if the fpirit is wanted, continue the distillation : till this falt is dissolved by the aqueous liquor which comes over after it.

In making the fpirit, it is most convenient to diffolve the fal ammoniac and falt of tartar feparately in water, before they are put into

the retort.

With regard to the falt, chalk is found to answer at least as well as an intermedium, as the more expenfive alcali. The chalk and fall ammoniac should be separately re-Diffil foot after the same manner duced to powder, and then mixed together: when put into the retort, but here more la our is required the furface of the matter may be covered with a little more powdered chalk, otherwise such part of the fal ammoniac as happens to lie uppermost will sublime unchanged. A strong fire is necessary, but it must not be too strong or too suddealy raised; for if it is, a part of the chalk (though of itself not capable of being elevated by gree of heat) will be carried up along with the vibratile falt. M. du Hamel experienced the justness of this observation, and frequently found his volatile falt, when a very intense fire was made use of in the fublimation, amount to more, fometimes one half more, than the weight of the crude fal ammoniac employed; though it is certain, that not three fourths of this concrete are pure volatile falt. When all the falt has fublimed, and the with two pounds of pure chalk, receiver grown cool, it may be and fet to sublime in a retort, taken off, and luted to another refort charged with fresh materials: this process may be repeated, till the recipient appears lined with voand falt of tartar: grind them latile falt to a confiderable thickseparately to powder, then mix, ness; when the vessel must be

Chap. 8. Salts and Saline Preparations. II. broken, in order to get out the s reas is The volatile falt and spirit of fal falts ; ammoniac are the purest of all the The medicines of this kind. They are : if fomewhat more acrimonious than e the those produced directly from animal fubftances; for thefe, it is scarce omes possible, by the common methods of purification, to separate entirely moft from their oil, which gives them amsome degree of a saponaceous quaitely into If quicklime be employed as an intermedium in the distillation of fal ammoniac, a spirit more punl as brifugum, digestivum Sylvii, &c. gent and penetrating than the foreexgoing is obtained, but no concrete falt. Three pounds of quicklime, reexposed to the air till it has fallen xed into powder, may be mixed with one pound of fal ammoniac, and be immediately put into a retort, with two pounds of water: the spirit up-

will arife with a moderate heat. This spirit is held too acrimonious to be given internally, and has therefore been chiefly used for smelling to in faintings, &c. It is an excellent mentiruum for fundry vegetable fubitances (Peruvian bark for instance) which the other spirit extracts little from.

Some have mixed a quantity of this with the officinal spirit; which thus becomes more pungent, fo as to bear an addition of a confiderable proportion of water, without any danger of discovery either from the tafte or fmell: this abuse would be prevented, if the mark formerly laid down of the goodness and strength of these spirits (some of the volatile falt remaining in them undiffolved) was duly attended to. Others have substituted a solution of crude fal ammoniac and fixt alcaline falt, mixed together: this may be discovered by the liquor leaving a neutral falt upon evaporation.

305 The matter which remains in the retort after the distillation of the fpirit, and fublimation of the falt of fal ammoniac, is found to confitt of marine acid united in the one with the fixt alcaline falt, and with the chalk in the other. The caput mortuum, as it is called, of the fpirit of fal ammoniac, diffolved in water, filtered and exficcated, proves fimilar to fea falt, or the fpiritus falis marini coagulatus : and hence we may judge of the extraordinary virtues attributed to it under the names of fal antihystericum, antihypochondriacum, fe-

The caput mortuum of the volatile falt where chalk is employed as an intermedium, exposed to a moift air, runs into a liquor, which proves nearly the fame with a folution of chalk made directly in the marine acid. If calcined shells or other animal limes be mingled with fal ammoniac, a mass will be obtained, which likewife runs in the air, and forms a liquor of the fame kind. This liquor feems to be the fecret of fome late pretenders to a diffolvent of the calculus.

It appears from these processes, that fal ammoniac is composed of a volatile alcaline falt (which arifes in the fublimation) and of marine acid (which remains united with the intermedium.) Upon this principle, which is certainly a just one, some have attempted to prepare this commodity among ourselves; and the Edinburgh pharmacopæia has received a process of this kind, under the title of

> SAL AMMONIACUM FACTITIUM

FACTITIOUS SAL AMMONIAC. Take of human urine, or that of beafts, three quarts; of fea falt, two pounds; of wood foot, one pound. Boil them together into a mais;

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fubliming veffels, and with a fire understood. gradually increased, sublime the falt. This falt may be rendered pure by diffolving it in water, filtering the folution, and evaporating it to dryness; as also by repeated fublimations. It is brought to us ready made from

Here the fea falt is supposed to furnish its acid, and the two other ingredients a volatile alcali. But the acid of common falt is too closely united with its own basis to be separable in this process: this fixt falt appears, if any thing, to be injurious; for if mixed with fal ammoniac itself, it makes it more difficult of fublimation, and even detains a part of it from arifing at all. We nevertheless cannot affirm with a late writer, that by the foregoing process " not a grain of sal ammoniac has ever been pro-" duced," for both the urine and foot yield by themselves a portion of this falt, though very fmall.

SPIRITUS SALIS AMMO-NIACI DULCIS. DULCIFIED SPIRIT OF SAL AMMONIAC. Lond.

Take half a pound of any alcaline falt, four ounces of fal ammoniac, and three pints of proof fpirit of wine. Distil off, with a gentle heat, a pint and an half.

This spirit has lately come much into esteem both as a medicine and a menstruum. It is a folution of volatile falt in rectified spirit of wine; for though proof fpirit is made use of, its phlegmatic part does not arise in the distillation, and ferves only to facilitate the action of the alcaline falt upon the ammoniacal. The virtues and uses

a mass; which put into proper of this spirit will hence be easily

SPIRITUS VOLATILIS FŒTIDUS THE VOLATILE FETID SPIRIT.

Take of

Any fixt alcaline falt, a pound and an half : Sal ammoniac, one pound; Asa fœtida, four ounces; Proof spirit of wine, fix pints. Draw off with a gentle heat,

five pints.

This spirit is designed as an antihysteric, and is undoubtedly a very elegant one. Volatile spirits impregnated for these purposes, with different fetids, have been usually kept in the fhops: the ingredient here made choice of, is the best calculated of any for general use, and equivalent in virtue to them all. The spirit is pale when newly difilled, but acquires a confiderable tinge in keeping.

SPIRITUS VOLATILIS AROMATICUS [L.] Spiritus falinus aromaticus [E.] The VOLATILE (or faline) AROMATIC SPIRIT, commonly called

SAL VOLATILE OLEOSUM. Lond.

Take of

Effential oil of nutmegs, Essence of lemons, each two drams;

Effential oil of cloves, half a dram : Dulcified spirit of sal ammoniac,

Distil them with a very gentle fire.

Edinb.

Take of French brandy, three gallons;

Chap. 8. Salts and Saline Preparations.

Distilled oil of

lavender, an ounce and a half; rosemary, an ounce; marjoram, fix drams; lemon peel, half an ounce; nutmegs, three drams; cloves, two drams; cinnamon, one dram.

Gradually drop the oils into the fpirit, occasionally stirring them together. One half of this mixture is to be referved for making the compound spirit of lavender, as directed hereafter. To the other half add eight ounces of the volatile falt of sal ammoniac; and immediately distil, in balneo mariæ, all two thirds are come over.

Volatile falts, thus united with aromatics, are not only more agreeable in flavour, but likewise more acceptable to the stomach, and less acrimonious, than in their pure state. Both the foregoing

compositions turn out excellent ones. provided the oils are good, and the distillation skilfully performed. Medicines of this kind might be prepared extemporaneously, by dropping any proper effential oil into the dulcified spirit of sal ammoniac, which will readily diffolve the oil without the affistance of distillation: by this method a fal volatile may be occasionally prepared, of any particular flavour, or adapted to particular purpofes. Thus, if a cephalic is required, the oils of marjoram, rofemary, &c. afford a very ferviceable one: in coldness, faintings, and the like, the oil of cinnamon joined to the volatile fpirit, proves a most immediate cordial; and in suppressions of the uterine purgations, the oils of rue or favin effectually promote the discharge. The dose of these compositions is from fix drops to fixty or more.

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X 3

CHAP.

CHAPTER IX.

RESINOSA et SULPHUREA.

RESINOUS and SULPHUREOUS PREPARATIONS.

FLORES BENZOINI.
FLOWERS OF BENZOINE.
Lond.

PUT fome powdered benzoine into an earthen pot placed in fand; and with a gentle heat, sublime the flowers into a conical paper cap fitted to the pot.

Or, the sublimation may be performed in a retort; the flowers will arise with a soft heat, into

If the flowers have any yellow tinge, mix them with tobacco pipe clay, and fublime again.

Edinb.

the neck.

The sublimation is to be performed in a glazed earthen pot, and repeated in the same instruments with fresh parcels of benzoine, till the paper cap becomes foul with oil.

Benzoine, exposed in a retort, to a gentle fire, melts and fends up into the neck white, fhining crystalline flowers, which are followed by an oily substance. On raising the heat a little (a recipient being applied) a thin yellowish oil comes over, intermingled with an acid liquor, and afterwards a thick butyraceous substance; this liquefied in boiling water, gives out to it a confiderable quantity of faline matter (feparable by filtration and properexhalation) which appears in all respects similar to the flowers. It appears therefore, that the whole quantity of flowers which benzoine

is capable of vielding, cannot be obtained by the above processes, fince a confiderable portion arifes after the time that they are discontinued in: the greatest part of the flowers arises with a less degree of heat than what is necessary to elevate the oil; but that if the operation is haftily conducted, or if the fire is not exceeding gentle, the oil will arise along with the flowers, and render them foul: hence in the way of trade, it is extremely-difficult to prepare them of the requifite whiteness and purity; the heat which becomes necessary when large quantities of the benzoine are employed, being so great as to elevate some of the oil along with them. In order therefore to obtain these flowers in perfection, only a fmall quantity of benzoine should be put into the vessel at a time: that this may not be any impediment to the requifite dispatch, a number of shallow, flat bottomed, earthen dishes may be employed, each fitted with a conical paper cap. With these you may fill a fand furnace, having a number of fresh dishes charged in readiness to replace those in the furnace, as foon as the process shall appear finished in them: the refiduum of the benzoine should be scraped out of each of the vesfels, before a fresh parcel is put in.

These flowers, when made in perfection, have an agreeable taste and fragrant smell. They totally

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cold, shooting into faline spicula, which unite together into irregular maffes. By the mediation of fugar. they remain suspended in cold wain great esteem, as pectoral and fudorific, in the dose of half a scruple or more : but the prefent practice rarely makes use of them on account of the offensive oil, which, as ufually prepared, they are tainted with, and from which a fresh sublimation from tobacco pipe clay does not free them fo effectually as might be wished. The observations above related, point out a method of depurating them more perfectly, viz. folution, filtration and crystallization.

FLORES SULPHURIS FLOWERS OF SULPHUR. Lond.

Sublime fulphur in proper veffels: and reduce the flowers, which concrete, into powder, either in a wooden mill, or in a marble mortar with a wooden peffle.

Edinb. Put any quantity of yellow fulphur, grossly powdered, into an earthen cucurbit placed in a fand furnace; and having fitted on a glass blind head, or inverted into it another earthen cucurbit, begin the fublimation with a gentle heat, which may be afterwards increased. The flowers will arise into the uppermost part of the veffels, from whence they are to be swept out for use.

This process is rarely attempted . by the apothecaries, a large apparatus being necessary for performing it to advantage. Those who

dissolve in spirit of wine; and like- prepare the slowers of brimstone wife, by the affiftance of heat, in in quantity, use for the subliming water; but separate again from the vessel a large iron pot capable of latter upon the liquor's growing holding two or three hundred weight; this stands under an arched chamber, lined with glazed tiles. which ferves for the recipient.

This preparation of fulphur makes ter, and thus form an elegant bal-famic fyrup. Some have held them feparates its impurities. At the feparates its impurities. bottom of the fubliming veffel, there remains a ponderous grey coloured mass, composed of fand, earth, stony, and fometimes metallic matters, with a fmall portion of fulphur that has escaped the fubliming heat. This is usually broke in pieces, and vended in the shops under the name of sulphur vivum.

FLORES SULPHURIS LOTI. WASHED FLOWERS OF SULPHUR.

Lond.

Pour upon the flowers as much water as will arife to the height of four fingers above them, and boil them for fome time : then pouring off this water, let some cold be added, and throughly wash the flowers; after which they are to be dried for use.

As the flowers of fulphur are generally fublimed into very capacious rooms, which contain a large quantity of air; fome of those that arife at first, are apt to take fire. and thus are changed into a volatile acid vapour, which, mingling with the flowers that sublime afterwards, communicates to them a notable degree of acidity. In such case, the ablution here directed is abfolutely necessary; for the flowers, thus tainted with acid, fometimes occasion gripes, and may, in other respects, be productive of effects different from those of pure fulphur.

BAL-

BALSAMUM SULPHURIS

fimplex [L.] craffum [E].

Lond.

Boil flowers of sulphur, with four times their weight of oil olive, in a pot lightly covered, until they unite into the confishence of a ballam.

Edinb

Take a pint of linfeed oil, or oil olive, and four ounces of flowers of fulphur. Boil them together over a gentle fire, keeping them continually stirring, till they come to the consistence of a balfam.

Linfeed oil more readily dissolves fulphur than oil olive, and the preparation made with it proves somewhat less disagreeable. The vessel they are boiled in ought to be capable of holding at least three times the quantity of the ingredients. As soon as the oil begins to act upon the sulphur, which happens nearly at the point of coullition, the mixture rarises very much, so as, if not prudently removed from the fire, to run over into the surnace: and as the matter is very susceptible of slame, dangerous consequences may ensure.

Ballamum fulphuris Barbadense.

Ballam of fulphur with

Barbadoes tan.

Lond.

This is made after the same manner as the foregoing, by using Barbadoes tar instead of the oil.

Balfamum fulphuris anifatum, juniperatum, luccinatum, terebinthinatum, &c. Balfams of fulphur, with the diffilled

Ballams of fulphur, with the diffilled oils of anifeed, juniper berries, amber, turpentine, &c.

Take ten ounces of any of these

oils, and two ounces of flowers of fulphur. Digest them for fome days, in a circulatory veffel, placed in a fand heat, until the oil becomes faturated with the fulphur. The vessel being then fussered to grow cold, feparate the balfam from such part of the fulphur as remains undissolved.

These preparations are more conveniently and safely made in a large and tall uncut glass body (its orifice being left open) than in circulatory or close vessels: for when the fulphur and oil begin to act vehemently upon each other, they not only rarify into a large volume, but likewife throw out impetuously great quantities of an elastic vapour, which, if the veffels are closed, or the orifices not fufficient to allow it a free exit, infallibly burft them: Hoffman relates a very remarkable history of the effects of an accident of this kind. In the veffel above recommended, the process may be completed, without danger, in four or five hours, by duly managing the fire; which should be very gentle for fome time, and afterwards increafed so as to make the oil just bubble or boil, in which flate it should be kept till all the fulphur appears to be taken up.

The effential oils employed in these processes undergo a great alteration from the degree of heat, necessary for enabling them to dissolve the sulphur; and hence the balfams have not near so much of their flavour as might be expected. It should therefore seem more eligible to add a proper quantity of the essential oil to the simple balfam: these readily incorporate by a gentle warmth, if the vessel be now and then shaken. Sixteen parts of essential oil, and fix of the balfamum sulphuris simplex, form

a bal-

Chap. 9. Refinous and Sulphureous Preparations.

a balfam more elegant than those made in the foregoing manner, and which retains so much of the slavour of the oil, as is in some measure sufficient to cover the taste of the sulphur, and render it supportable.

The balfams of fulphur have been firongly recommended in coughs, confumptions, and other diforders of the breaft and lungs. But the reputation which they have had in these cases does not appear to have been built upon any fair trial, or experience of their vir-They are manifeffly hot, acrimonious and irritating; and therefore should be used with the utmost caution. They have frequently been found to injure the appetite, offend the stomach and viscera, parch the body, and occafion thirst and febrile heats. The dose of the simple balsam is from ten to forty drops: those with effential oils are not given in above half these quantities. Externally, they are employed for cleaning and healing foul running ulcers: Boerhaave conjectures, that their use in these cases gave occasion to the virtues ascribed to them when taken internally.

HEPAR SULPHURIS. LIVER OF SULPHUR. Edinb.

Take four ounces of flowers of fulphur, and one ounce and an half of powdered falt of tartar. Mix, and melt them in an earthen dish, under a chimney, keeping the matter constantly stirring with a spatula till it has acquired a red colour: care must be had to prevent its taking fire.

It is more convenient to melt the fulphur first by itself, and add the falt of tartar by degrees; than to grind them together, and afterwards endeavour to melt them: for in this case, the mixture will not flow sufficiently thin to be properly united by stirring; and the sulphur either takes fire, or sublimes in slowers, which probably has been the reason why so large a proportion of it has been commonly directed. The quantity of sulphur ordered above, requires, at least, eight ounces of the alcaline salt, to render it perfectly soluble in water, which this preparation ought to be.

Solutions of the hepar fulphuris in water, made with fugar into a fyrup, have been recommended in the fame intentions as the balfams above mentioned: our pharmacopœias nevertheles have deservedly rejected this fyrup, as common practice has almost done the balfams. The hepar, digested in rectified spirit of wine, imparts a rich gold colour, a warm, somewhat aromatic taste, and a peculiar, not ungrateful smeil: a tincture of this kind is kept in the shops, under the name of another mineral.

SULPHUR PRECIPITATUM.

Lac fulphuris.

Edinb.

PRECIPITATED SULPHUR,

commonly called.

LAC SULPHURIS.

Boil flowers of fulphur in water, with thrice their weight of quick-lime, till the fulphur is diffolved. Filter the folution, and drop into it fome of the weak fpirit of vitriol. this will throw down a precipitate, which is to be washed in fresh pareels of water, till it becomes insipid.

Boil the hepar fulphuris, reduced to powder, in four times its quantity of water for three X 4 hours;

hours; adding more water if there is occasion. Then filter the folution whilft hot, and drop into it spirit of vitriol, till the effervescence ceases: a powder will be precipitated to the bottom, which is to be washed with water, and afterwards dried for use.

The method of making this lac, as it is called, with hepar fulphuris, is the most expeditious, and least troublesome, provided the hepar be well made: and, on the other hand, quicklime gives the preparation a more faleable whitenefs. The medicine is nearly the fame in both cases; and not different in quality from pure fulphur itself, to which it is preferred, in unquents, &c. only on account of its colour. The whiteness does not proceed from the fulphur having loft any of its parts in the operation, or from any new matter superadded: for if common sulphur be ground with alcaline falts, and fet to fublime, it arises of a like white colour, the whole quantity of the alcali remaining unchanged; and if the lac be melted with a gentle fire, it returns into yellow fulphur

It might perhaps be more eligible, where alcaline falts are employed in this process, to perform the ablution with boiling water than with cold: for the vitriolic acid used for precipitating the sulphur, forms with the alcali a substance not soluble in cold water (vitriolated tartar) and which consequently will remain united with the sulphur.

AQUA SULPHURATA. SULPHURATED WATER, ufually called, GAS SULPHURIS. Lond.

Take a quart of water, and half a pound of lulphur. Let part of the lulphur be fet on fire in an iron ladle, and suspended over the water in a close vessel: as foon as the sumes subside, some more of the sulphur is to be fired in the same manner; and this repeated till the whole quantity is burnt.

A convenient way of managing this process is, to put the water into a glass receiver, placed on its side; and to have the ladle, containing the burning sulphur, fixed to a plug, made to go freely into the neck of the vessel; the use of the plug is to keep the ladle from dipping into the water: the sumes which issue betwixt it and the glass, may be confined by a cloth thrown round the neck.

This liquor is liable to great uncertainty in point of flrength, as the water will be impregnated with a greater or less quantity of acid, according as the process is more or lefs skilfully managed. It likewise varies greatly after it has been kept for fome time, from what it was when newly prepared: at first, it is highly volatile and pungent, fmelling like the fumes of burning fulphur; in time, the part on which its volatility depends is loft, and the liquor becomes indistinguishable from water acidulated with common oil of vitriol.

TINCTURA SULPHURIS VOLATILIS. VOLATILE TINCTURE OF SULPHUR.

Take of

Flowers of fulphur, fix ounces; Sal ammoniac, one pound;

Quicklime, a pound and a half.

Sprinkle fome water on the lime, and when flaked and fallen into powder, grind it first with the fulphur, and afterwards with the fal ammoniac, in small quantities at a time: then distil the mixture in a retort, with a fire gradually increased. The distilland

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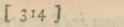
led liquor is to be kept, in a bottle close stopt, for use.

This liquor has a strong offenfive smell, somewhat similar to that
which arises in the precipitation of
lac sulphuris. The vapour in both
cases spreads to a considerable diflance, changes silver or copper utensils of a brown or blackist colour,
and produces disagreeable alterations in many medicinal preparations: to this circumstance therefore due regard ought to be had in
the performance of that process, and
in the keeping of this tincture.

Hoffman has a great opinion of the virtues of this preparation. He fays, a mixture of one part of the tincture with three of fpirit of wine, in a dose of thirty or forty drops, proves a most powerful diaphoretic; and that a liquor composed of this and camphor, surprizingly takes off the pain of the gout by bathing the feet with it. This tincture may be a powerful medicine, but it is certainly a very unpleasant one.



CHAP.



CHAPTER X.

METALLICA.

METALLIC PREPARATIONS.

SECT. I.

Preparations of GOLD.

OLD is the most ponderous and perfect of the metals: it abides fixt and unaltered in the strongest fire; and is not acted upon by alcaline, or any simple acid menstruum. It dissolves in aqua regis alone, into a yellow transparent sluid: this folution stains the skin, &c. purple: the ethereal spirit of wine, and some essential oils, take up the gold from it: alcalies precipitate the metal in sorm of a yellowish mud, which exsiccated, and exposed to a small heat, violently explodes.

As to the medicinal virtues of this metal, experience has sufficiently shewn, that it is not possessed of any valuable ones. In its metallic form, however finely comminuted, it proves inactive; when satiated with acid, corrosive; and in the intermediate states, either infignisheant or unsafe.

AURUM POTABILE. POTABLE GOLD.

Dissolve, with a moderate heat, half a dram of fine gold, in two ounces of aqua regia; and add to the solution one ounce of the essential oil of rosemary. Shake them together, and then suffer them to rest: the acid loses its gold yellow colour; and the oil,

which arises to the surface, becomes richly impregnated therewith. Separate the oil by decantation, and add to it four or five ounces of rectified spirit of wine: digest this mixture for a month, and it will acquire a purplish colour.

There have been many preparations of this kind, contrived by the defigning pretenders to alchemy, and imposed upon the credulous and unwary, as cordials and diaphoretics of inestimable value. The above seems to be one of the best and safest of them; tho' it would be equally serviceable as a medicine, if made without the ingredient, which it receives its name from.

AURUM FULMINANS. FULMINATING GOLD.

Dissolve gold in aqua regia (about four times the weight of the gold will be sufficient) and drop into the solution oil of tartar per deliquium, until the effervescence ceases: let the whole stand for some hours, and the gold will be deposited: then pour off the liquor, wash the precipitated matter with fresh parcels of water, and afterwards exsiccate it for use.

This

This powder requires to be exficcated with the utmost precaution; for in a small heat, it explodes with great violence: the same effect ensues likewise upon strongly rubbing it. This property has given name to the preparation; and is the only one on accommon of which it is at present taken any notice of. It has been recommended indeed, in severs, as a diaphoretic, in the dose of a few grains: its more certain effect, however, is to operate downwards, and that not always with fasety; Konig and Ludovici relate, that in some febrile cases, it has occasioned almost mortal diarrheas. And Stahl (de proexeucrist medica, sect. viii) reports, that the intestines have been found eroded by it.

SECT. II.

Preparations of SILVER.

SILVER is the most permanent in the fire of all the metals after gold. It dissolves in the pure nitrous acid, into a colourless, transparent liquor, intensely bitter and corrosive. This solution exsiccated, furnishes the shops with an useful causific; which has likewise been taken internally in small doses, and mixed with other substances, as an hydragogue; it stains the skin black.

CAUSTICUM LUNARE. THE LUNAR CAUSTIC. Lond.

Let pure filver be diffolved in about twice its weight of aqua fortis, upon warm fand; then gently increase the heat, until a dry mass is left. Melt this in a crucible, that it may be poured into proper moulds, carefully avoiding over much heat, lest the matter should grow too thick.

Causticum lunare, seu lapis infernalis.

The lunar caustic, or infernal stone.

Edinb.

Diffolve fine cupelled filver, by the heat of a fand bath, in three times its weight of fpirit of nitre.

Evaporate the folution, until

two thirds of the moisture are exhaled: then put the matter into a large crucible, and exhale the remaining moisture over a gentle fire. Augment the heat by degrees, until the mass flows like oil, and ceases to sume: then pour it into an iron pipe made for this purpose, previously heated and greased: lastly, let it be dried, and kept for use in a glass vessel close store.

Strong spirit of nitre will dissolve fomewhat more than half its weight of pure filver; and the weaker of the aque fortes, formerly deferibed, proportionably lefs, according to their quantity of pure nitrous acid. Sometimes this spirit contains a portion of the vitriolic, or marine acids; which, however minute, renders it unfit for diffolving this metal, and should therefore be carefully separated before the solu-tion is attempted. The method which the refiners employ, for examining the purity of their aqua fortis, and purifying it, if neces-fary, is, to let fall into it a sew drops of a perfect folution of filver already made: if the liquor remains clear, and grows not in the least turbid or whitish, it is fit for their use; otherwise, they add a

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which immediately turns the whole of a milk white colour: the mixture being then suffered to rest for fome time, deposites a white sediment; from which it is warily decanted, examined afresh, and if need be, farther purified, by a fresh addition of the folution.

In evaporating the liquor, the heat should be very gentle, till fuch time as the matter appears dry, and then quickly raifed fo as to melt it : as foon as it flows thin, pour it into the mould, without waiting till the fumes ceafe to appear, for when this happens, the preparation proves not only too thick to run freely into the mould. but likewise less corrosive than it is expected to be.

In want of a proper iron mould, one may be formed of tempered tobacco pipe clay, not too moift, by making in a lump of it, with a fmooth flick first greafed, as many holes as there is occasion for: pour the liquid matter into these cavities, and when congealed, take it piece is to be wiped from the greafe; and wrapt up in dry foft wife to prevent their corroding or drank immediately after,) purge

fuch, for confuming warts and other fleshy excrescencies, keeping tions against the too liberal, or down fungous flesh in wounds or ulcers, and other like uses. It is and observes, that by its corrosive rarely applied where a deep eschar quality, it weakens the bowels, is required, as in the laying open particularly the flomach; and that of imposthumations and tumours; therefore proper corroborants, as for the quantity necessary for these the rob of juniper berries, ought purpoles, liquefying by the moi- to be occasionally interpoled. flure of the fkin, frreads beyond

fmall quantity more of the folution, the limits in which it is intended to operate.

PILULÆ LUNARES. THE LUNAR PILLS.

Dissolve pure filver in aqua fortis, and after due evaporation, fet the liquor to crystallize. Let the crystals be again dissolved in common water, and mingled with a folution of equal their weight of nitre. Evaporate this mixture to dryness, and continue the exficcation, with a gentle heat, keeping the matter constantly stirring, till no more fumes arise.

Here it is necessary to continue the fire till the fumes entirely cease, as more of the acid is required to be diffipated, than in the preceding process. The preparation is, nevertheless, in taste very sharp, intenfely bitter and naufeous; applied to ulcers, it acts as a caustic, but much milder than the foregoing. Boerhaave, Boyle, and others, greatly commend it in hydropic cases. The former asout by breaking the mould. Each fures us, that two grains of it made into a pill, with crumb of bread and a little fugar, and taken on an paper, not only to keep the air empty stomach, (some warm wafrom acting upon them, but like- ter, fweetened with honey, being discolouring the fingers in handling. gently without griping, and bring This preparation is a strong cau- away a large quantity of water, stic, and frequently employed as almost without the patients perceiving it. He nevertheless caucontinued use of this medicine;

SECT, III.

Preparations of IRON.

I R O N calcines by fire the most easily, and melts the most difficultly of all the metals. Sulphur promotes its fusion, and changes it into a substance not greatly diffimilar to a combination of the metal, with vitriolic acid. All acids dissolve this metal; even the air corrodes it into a rust or calx.

Iron, in its metallic form, or lightly calcined, or combined with vegetable, or with mineral acids, acts in the human body in the fame manner, (but with different degrees of power) by confiringing the fibres. In all these states, it promotes, or reftrains fecretions, where the deficiency or excess proceed from a laxity and debility of the veffels; and, in general, raifes the pulse, and quickens the cir-culation. The calces are the least active preparations, and in most constitutions prove altogether inert: the crude metal, duly comminuted, is more easily foluble in the animal fluids, and if accepent juices are lodged in the prima viæ, foon manifests its operation by nidorous eructations, and the black colour of the alvine feces: if previously combined with faline bodies, it scarce ever fails of taking effect.

CHALYBIS RUBIGO PRÆPARATA. RUST OF STEEL PREPARED. Lond.

Expose filings of sicel to the air, frequently moistening them with vinegar or water, until they change into rust; then grind them in a mortar, and pouring on water, wash over the more subtile powder. The remainder

is to be exposed afresh to the air, and moistened as at first, then triturated and washed again, and the powders that have been washed over, dried, and kept for use.

MARTIS LIMATURA PRÆPARATA. FILINGS OF IRON PREPARED. Edinb.

Set filings of iron, first cleanfed by the magnet, in a moist place, that they may turn to rust, which is to be ground into an impalpable powder.

They may likewife be prepared by moistening them with vine-

gar. The cleanfing of iron filings by means of a magnet is very tedious, and does not answer so well as might be expected; for if they are rufty, they will not be attracted by it, or not fufficiently; nor will they, by this means, be entirely freed from brafs, copper, or other metallic fubilances which may adhere to them. It appears from the experiments of Henckel (Pyritolog. cap. vom eisen im kiess) that if iron be mixed by fusion with even its own weight of any of the other metals or femimetals, regulus of antimony alone excepted, the compound will be vigoroufly attracted by the load stone. - The rust of iron is to be procured at a moderate rate from the dealers in iron, free from any impurities, except fuch as may be washed off by

The ruft of iron is preferable as a medicine to the calces, or croci, made by a flrong fire. Hoffman relates,

relates, that he has frequently given it with remarkable fuccess, in obflinate chlorotic cases accompanied with excessive headachs, and other violent symptoms; and that he usually joined with it pimpinella, arum root, and salt of tartar, with a little cinnamon and sugar. The dose is from four or five grains to twenty or thirty: some have gone as far as a dram; but all the preparations of this metal answer best in small doses, which should rather be often repeated than enlarged.

Lemery shews a method of reducing feel to a very fine powder without rusting it. The filings are put in an unglazed earthen veffel, with fo much water as will fland above them about four inches: the whole is to be well flirred every day, and more water fupplied, as that in the veffel exhales, fo that the steel may remain always covered: by this means, he fays, the filings will, in no long time, fall into an impalpable black powder. If fuffered to remain for a little while uncovered with water, a part changes into ruft.

CHALYBS CUM SULPHURE PRÆPARATUS. STEEL PREPARED WITH SULPHUR. Lond.

Heat the steel, with a very sterce fire, to a strong white heat; and in this state, apply it to a roll of sulphur held over a versel of water: the steel will melt, and fall down in drops, which are to be picked out from the sulphur that runs down with them, and ground into an impalpable powder.

It was supposed in former editions of this work, that this preparation is no other than common brimstone, and that it cortains nothing of the steel. If the steel indeed is not made extremely hot, it

will not melt on applying it to the fulphur; and the latter will run into the water by itself: but if the metal is heated to the degree above directed, it will readily melt, and fall down in drops of a brown colour; whilft the sulphur runs into long yellow strings. The heat, requisite for this purpose, is fearce procurable in the surpose, is fearce procurable in the furnaces of the apothecary; and even if the steel is sufficiently heated at first, it will soon become too cool to be corroded by the sulphur. For this reason, and on account of the offensive summes, which arise very copiously, and are not avoidable by the operator, this process have been generally supplied with a preparation of steel with sulphur made, at an easier rate, in the following manner.

MARS SULPHURATUS. SULPHURATED IRON.

Edinb.

Mix filings of iron with twice their weight of powdered fulphur, and as much water as is fufficient to make them into a passe: fusser this to stand and ferment for six hours; then put it into a crucible, and let it deslagrate: afterwards keep the matter continually stirring with an iron spatula, till it falls into a deep black powder.

If the quantity of this mixture is confiderable, and strongly pressed down, it will ferment so violently as to burst out into slame. The calces, or ores of iron, do not produce this phænomenon.

CROCUS MARTIS APERIENS. OPENING CROCUS OF IRON.

Edinb.

This is made by keeping the foregoing preparation longer over the fire, when it assumes a red colour. colour. It is not different from the ruft of iron, gently calcined in a crucible to rednefs.

CROCUS MARTIS ASTRINGENS. ASTRINGENT CROCUS OF IRON. Edinb.

This is made from the opening crocus of iron, by reverberating it for a long time in the most extreme degree of heat.

These preparations differ from one another in virtue; though the difference is not of fuch a kind as the titles, they have been usually diffinguished by, import. All the preparations of steel act, if they act at all, by an aftringent quality; that above denominated aftringent, has the leaft, if any, effect. The crocus aperiens has a greater chance of entering the habit; and the fulphurated steel will in most constitutions take place (tho' with lefs certainty than the following preparations.) They may be given in form of bolus, electary, or pill, from fix grains to a scruple.

In fome pharmacopæias, the croci of iron are prepared from pure green vitriol. This strongly calcined (or the colcothar remaining after the distillation of oil of vitriol) is the affringent crocus; when less calcined, it is called aperient. These preparations differ little from those above distinguished

by the same appellations.

MARS SOLUBILIS, feu CHALYBS TARTARIZATUS. SOLUBLE or TARTARIZED STEEL. Edinb.

Mix equal parts of iron filings and crystals of tartar, with as much water as is fufficient to reduce them into a mass: this is to be

formed into balls, then baked in an oven, ground into powder. and again made into balls with a fresh parcel of water, and baked in an oven as before. Repeat this operation, till fuch time as the matter will eafily grind into an impalpable power.

This is a very elegant and ufeful preparation of steel, and will in many cases take effect after all the foregoing ones have failed; the falt here joined rendering the metal fufficiently foluble in the animal fluids. It may be given either in a liquid form, or in that of a bolus, &c. in dofes of half a scruple or a fcruple. Dr. Willis is faid to have been the inventor of this preparation, and by his name it has been ufually diffinguished in the shops. The chemists have received another method of preparing iron with tartar; which is as follows:

Take equal quantities of filings of iron, and of white tartar. Grind them together, and put them into a crucible, which is to be fet in a fire strong enough to make the materials red hot; in this state let them continue for fome time. When grown cold, powder the matter in a mortar; and the part which will not pass through a fine fieve, heat and pulverize again; repeating this, until the whole has passed through. Mix the feveral fiftings together, and keep them in a veffel close flopt

from the air.

This preparation is foluble like the foregoing : exposed to the air, it deliquiates like alcaline falts, and therefore is not to be prescribed in any dry form. It is very rarely made use of.

FLORES MARTIALES. MARTIAL FLOWERS.

Take

Take of

Colcothar of green vitriol washed, or of filings of iron, one pound; Sal ammoniac, two pounds.

Mix and fublime in a retort. Grind the flowers with the matter which remains in the bottom of the retort, and repeat the fublimation until the flowers arise of a beautiful yellowish colour.

To the refiduum you may add half a pound of fresh fal ammoniac, and sublime as before; repeating this as long as the flowers arise well coloured.

Edinb.

Take of

Iron filings,

Sal ammoniac powdered, each equal-parts.

Mix them well together, and fuffer them to stand for some time in a moist place: then put them into an earthen cucurbit; fit on a glass head, and proceed to sublimation. First a spirit of sal ammoniac will arise, which may be catched in a receiver; then white slowers, which may be thrown away; and at length yellowish red slowers; these last are to be swept out of the head with a feather, and kept for use.

A tincture of steel may be drawn from the caput mortuum, as also from the flowers.

The success of this process depends principally upon the fire being hastily raised, that the sal ammoniac may not sublime before the heat is become strong enough to enable it to carry up a sufficient quantity of the iron. Hence glass vessels are not so proper as earthen or iron ones; for when the former are made use of, the fire cannot be raised quick enough without endangering the breaking of them. The most convenient instrument is an iron pot; to which may be lu-

ted an inverted earthen jar, having a small hole, in its bottom, to suffer the elastic vapours, which arise during the operation, to escape. It is of advantage to throughly mix the ingredients together, moissen them with a little water, and then gently dry them; and to repeat the pulverization, humectation and exficcation, two or three times or oftner. If this method is followed, the fal ammoniac may be increased to three times the quantity of the iron, or farther; and a fingle fublimation will oftentimes be fufficient to raise flowers of a very deep orange colour.

This preparation is supposed to be highly aperient and attenuating; though no otherwife fo than the rest of the chalybeates, or at most, only by virtue of the faline matter joined to the iron. It has been found of good fervice in hysterical and hypochondriacal cases, and in distempers proceeding from a laxity and weakness of the folids, as the rickets. It may be conveniently exhibited in the form of a bolus. from fix grains to twenty: it is naufcous in a liquid form (unlefs in spirituous tincture) and oceasions pills to fwell and crumble, except fuch as are made of the gums.

LIXIVIUM MARTIS.

Lond.

Let the matter which remains after the sublimation of the martial flowers, be set by in a moist place: it will run into a liquor, which is to be kept for use.

This liquor feems greatly to refemble a faturated folution of iron made in fpirit of falt: its taffe is highly aftringent, and fomewhat fweetish. It may be given in dofes of a few drops, in any convenient vehicle, for the fame intentions as the other chaly beates.

SAL

SAL MARTIS. SALT OF STEEL. Lond.

Take of
Strong fpirit or oil of vitriol,
eight ounces;
Iron filings, four ounces;
Water, two pints.

Mix them together; and after the ebullition ceases, let the mixture stand for some time upon warm fand: then pour off, and silter the liquor; and after proper exhalation, set it by to crystallize.

VITRIOLUM MARTIS, feu SAL CHALYBIS.

VITRIOL of IRON, or SALT of STEEL.

Edinb.

Take of
Oil of vitriol, four ounces:
Water, ten ounces;

Filings of iron, three ounces.

Cautiously mix them together, and digest in a cucurbit for twelve hours, that the metal may be dissolved: filter the solution whilst hot, then evaporate it to a pellicle, and set it in a cold place, until the vitriol has cryssallized at the bottom of the vessel. The liquor poured off from the cryssals, is to be again evaporated till a pellicle forms on the surface, and set to shoot as before: Collect all the crystals together, and dry them on a paper in the shade.

During the diffolution of the iron, a strong sulphureous vapour arises, which on the approach of slame, catches fire, and explodes, so as sometimes to burst the vessel: to this particular therefore, the operator ought to have due regard.

The chemists are feldom at the trouble of preparing this falt according to the directions above given; but in its stead substitute com-

mon green vitriol, purified by folution in water, filtration, and crystallization. The only difference betwixt the two is, that the common vitriol contains fomewhat more metal in proportion to the acid; and hence in keeping, its green colour is debased by a rusty brownish cast. The superfluous quantity of metal may be easily separated. by fuffering the folution of the vitriol to fland for fome time in a cold place, when a brownish yellow ochery sediment will fall to the bottom; or it may be perfectly diffolved, and kept fuspended, by a fuitable addition of oil of vitriol, If the vitriol is suspected to contain any cupreous matter, the first method should be followed; for thus the most minute portion of copper will be feparated. The common English vitriol very rarely contains any metallic fubftance befides

The falt of steel is one of the most efficacious preparations of this metal : and not unfrequently made use of, in cachectic and chlorotic cases, for exciting the uterine purgations, strengthening the tone of the viscera, and destroying worms. It may be conveniently exhibited in a liquid form, largely diluted with aqueous fluids: half a fcruple, diffolved in a pint of water, may be drank at a time, divided into different doses: this quantity gives no very disagreeable taste to the water. If the dofe is increased to half a dram or a dram, it for the most part gently purges; and powerfully promotes urine, especially if the patient walks about in a cool air during the operation. Thefe folutions may be used as succedanea to the natural chalybeate waters, and will in many cases produce similar effects.

SECURITION PRODUCED

SECT.

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SECT. IV.

PREPARATIONS of COPPER.

than iron; and, in its metallic state, does not appear to be acted on by the animal fluids, or to have any confiderable effect in the body. Diffolved, it proves externally an escharotic; internally, a violent purgative and emetic. Acids of every kind dissolve it, and likewise volatile alcalies." With the vegetable, nitrous, and marine acids, it forms a green folution; with the vitriolic acid, and volatile alcalies, a blue.

ÆS USTUM.

Let thin copper plates be stratified in a crucible, with fulphur, nitre, or common falt, and calcined until they are reduced into a

powder.

These preparations consist of copper combined with a fmall portion of faline matter. They were used by the ancients for drying and cleanfing ulcers, and preventing the growth of fungous fiesh: and sometimes likewise internally as an emetic; but have not, for a long time, been taken notice of among us, for any medicinal intention.

CRYSTALLI VENERIS. CRYSTALS of COPPER.

Diffolve pure copper in thrice its weight of aqua fortis, adding the metal to the acid by little and little at a time. Evaporate the liquor by a gentle heat, till one half of it is wasted; then set the remainder in a cool place to crystallize: afterwards dry the cryflals, and keep them in a vial close flopt from the air.

These crystals are strongly cauflic, fimilar to the causticum lunare;

COPPER is less easy of solution but are so much disposed to liquefy, that they are scarce ever made use of, and cannot be long pre-

TINCTURA VENERIS VOLATILIS. VOLATILE TINCTURE of COPPER.

Take of

Copper filings, one dram; Spirit of fal ammoniac, twelve drams.

Let them fland together in a close veffel, frequently shaking it, until the liquor is tinged of a beau-

tiful violet colour.

This tincture, or folution of copper, has been given internally, in the dose of a few drops, as a diu-Boerhaave directs at first three drops to be taken in a morning falling, with a glass of mead, and this dose to be daily doubled till it comes to twenty-four drops: which last quantity is to be continued for fome days: he fays, that by this means, he cured an hydropic person labouring under a confirmed afcites; and that the medicine procured furprizing discharges of urine; that neverthelefs, on trying it in another cafe of the fame kind, it did not answer. See the article CUPRUM, page 120.

ENS VENERIS. Edinb.

Colcothar of blue vitriol well edulcorated with water, and afterwards dried ;

Sal ammoniac, of each equal

Reduce them feparately into pow-

der; then mix, and put them into an earthen cucurbit, so as to fill two thirds thereof. Place the cucurbit in an open fire, and having adapted to it a glass blind head, apply at first a gentle heat, which is to be increased by degrees, and continued as long as the slowers arise of a yellow colour inclining to red: when the vessels are grown cold, let the slowers be carefully swept out with a feather.

This medicine is taken from Mr. Boyle. It has been lately difputed, whether the author prepared it from blue vitriol or from green: for tho' he expresly fays, he used blue or cupreous vitriol, it is affirmed that this will not yield slowers of the colour here required; and it is certain that pure copper will not. It appears however from experi-

ence, that the foreign blue vitriols, the forts used and recommended by Boyle, will afford, with fal ammoniac, a fublimate possessing the qualities he ascribes to his preparation, and not greatly different from the martial flowers already spoken of. The foreign blue vitriols, though manifettly cupreous, are not purely fuch : feveral trials difcover in them a quantity of iron; and fal ammoniac elevates iron much more readily than it does copper. making of this preparation from venereal vitriol, however, is by no means to be recommended; fince in some cases so much of the copper may be raifed, as to give it noxious qualities; and fince it is parable with greater certainty, and at an easier rate, from iron or its

SECT. V.

PREPARATIONS of LEAD.

LEAD readily melts in the fire, and calcines into a dufky powder; which, if the flame is reverberated on it, becomes at first yellow, then red, and at length melts into a vitreous mass. This metal dissolves easily in the nitrous acid, difficultly in the vitriolic, and in small quantity in the vegetable acids; it is also foluble in expressed oils, especially when calcined.

Lead and its calces, whilft undiffolved, have no confiderable effects as medicines. Diffolved in oils, they are supposed to be (when externally applied) anti-inflammatory and deficcative. Combined with vegetable acids, they are notably so; and taken internally, prove a powerful but dangerous styptic.

PLUMBUM USTUM. BURNT LEAD. Edinb.

Melt lead in an unglazed earthen vessel; and keep it continually stirring, with an iron spatula, till it changes into powder.

MINIUM. RED LEAD. Edinb.

This is made by a continuance of the foregoing process. The powder, at first blackish, in a little time becomes yellow, and at length of a very red colour, when it is to be taken from the fire, and kept for use.

The preparation of red lead is fo troublefome and tedious, as foarce Y 2

ever to be attempted by the apo- confined to a few persons, who have this commodity expected to be large quantities of lead at once, upon the bottom of a reverberatory furnace built for this purpose, and fo contrived, that the flame acts upon a large furface of the metal, which is continually changed by the means of iron rakes drawn backwards and forwards, till the fluidity of the lead is destroyed; after which the calx is only now and then turned. It is faid, that twenty pounds of lead gain, in this process, five pounds; and that the calx, being reduced into lead again, is found one pound less than the original weight of the metal.

These calces are employed in external applications, for abating inflammations, cleaning and healing ulcers and the like. Their effects, however, are not very confidera-ble; nor are they perhaps of much farther real use, than as they give confistence to the plaster, unguent,

&c.

CERUSSA. CERUSSE, or WHITE LEAD. Edinb.

Put fome vinegar into the bottom of an earthen veffel, and fufpend over the vinegar very thin plates of lead, in fuch a manner, that the vapour, which arises from the acid, may circulate about the plates. Set the containing vessel in the heat of horse dung, for three weeks; if at the end of this time the plates are not totally calcined, scrape off the white powder, and expose them again to the steam of vinegar, till all the lead is thus corroded into powder.

The making of white lead also is become a trade by itself, and

thecary or chemist; nor indeed is large conveniencies for this purpose. The general method which made by them. The makers melt they follow, is nearly the same with that above described. See the philosophical transactions, No.

> In this preparation, the lead is fo far opened by the acid, as to difcover, when taken internally, the malignant quality of the metal: and to prove externally, when fprinkled on running fores or ulcers, moderately cooling, drying and a-

strictive.

SACCHARUM SATURNI. SUGAR OF LEAD.

Lond.

Boil ceruffe with distilled vinegar, in a leaden vessel, until the vinegar becomes fufficiently fweet: then filter the vinegar through paper, and after due evaporation fet it to crystallize.

Edinb.

Put any quantity of ceruffe, minium, or litharge, into a cucurbit, and pour thereon distilled vinegar, to the height of four inches. Digest them together for some days in a fand heat, till the vinegar has acquired a fweetish taste, when it is to be suffered to fettle, and then poured off. Add fresh vinegar to the remainder, and repeat this process till the menstruum no longer extracts any fweet tafte. Let all the impregnated liquors reft for fome time; and after they have been poured from the feces, evaporate them, in a glass vessel, to the confisence of thin honey; fo that, upon being fet in a cool place, the fugar may shoot into crystals, which are afterwards to be dried in the shade. Exhale the remaining liquor to a pellicle, fet it again in the cold, and more

crystals will shoot; repeat this have ventured upon it internally. any longer obtained.

Ceruffe (especially that fort called flake lead, which is not, like the is put to it, and during the dige- dy, and obstinate constipations. then stirred up with a wooden spatula, to promote its diffolution, and prevent its concreting into a hard mass at the bottom. The strong acid obtained from the caput mortuum of vinegar (see page 289.) may be employed for this process, to better advantage than the weaker though purer acid above directed. If a finall quantity of rectified spirit of wine be prudently added to the folution as foon as it is duly exhaled, and the mixture fuffered to grow cold by flow degrees, the and transparent crystals, which are fcarcely to be obtained by any other method.

efficacious than the foregoing prewhich they are applied to. Some effect at all.

operation till no crystals can be in doses of a few grains, as a styptic, in hæmorrhagies, profuse colliquative fweats, feminal fluxes, the fluor albus, &c. nor has it failed others, subject to adulteration) is their expectations. It very powermuch preferable either to minium fully restrains the discharge; but or litharge, for making the fugar almost as certainly as it does this, of lead: for the corrofion, which it occasions symptoms of another it has already undergone from the kind, often more dangerous than fleam of vinegar, disposes it to dif- those removed by it, and somefolve more readily. It should be times fatal. Violent pains in the finely powdered before the vinegar bowels, or through the whole bostion or boiling, every now and sometimes immediately follow, efpecially if the dofe has been confiderable: cramps, tremors, and weakness of the nerves generally, fooner or later, enfue.

Boerhaave is of opinion, that this preparation proves malignant only in so far as its acid happens to be absorbed in the body; for in such case, he says, " it returns again in-" to ceruffe which is violently poi-"fonous." On this principle, it would follow, that in habits where acidities abound, the fugar of lead would be innocent. But this is far fugar will concrete into very large from being the case. Lead and its preparations act in the body only in fo far as they are combined with ethod. acid: ceruffe possesses the qualities. The sugar of lead is much more of the saccharum only in a low degree; and either of them freed parations, in the feveral intentions from the acid, have little, if any

SECT. VI. PREPARATIONS of TIN,

TIN easily melts in the fire, and calcines into a dufky powder, which by a farther continuance of the heat, becomes white. A mass of tin, heated till it is just ready to melt, proves extremely brittle, fo as to fall in pieces from a blow, and by dextrous agitation into powder. Its

proper menstruum is aqua regia, though the other mineral acids also may be made to dissolve it, and the vegetable ones in fmall quantity. It crystallizes with the vegetable and vitriolic acids; but with the others, deliquiates.

The virtues of this metal are lit-

tle known. It has been recommended as an antihyfteric, antihectic, &c. At prefent, it is chiefly used as an anthelmintic.

STANNUM PULVERATUM. POWDERED TIN. Lond.

Melt the tin, and pour it into a wooden box rubbed in the infide with chalk: then immediately let the box be nimbly shook, and a part of the tin will fall into powder. The remainder is to be melted a second time, and treated in the same manner, till the whole of the metal is thus reduced into powder.

This preparation has been used for fome time as a remedy against worms, particularly the flat kinds, which too often elude the force of other medicines. The general dofe is from a scruple to a dram; some confine it to a few grains. But Dr. Alfton affures us, in the Edinburgh effays, that its fuccess chiefly depends upon its being given in much larger quantities: he exhibits an ounce, on an empty flomach, mixed with four ounces of melaffes ; next day, half an ounce ; and the day following, half an ounce more: after which, a cathartic is administered : he fays the worms are usually voided during the operation of the purge, but that pains of the flomach occasioned by them are removed almost immediately upon taking the first dose of the tin. The experiments on tin, related in page 211 of this work, account fufficiently for its being deflructive to these animals; though not for its being fafe to the patient.

> CALX JOVIS. CALX OF TIN. Edinb.

Melt any quantity of tin in an un-

glafed earthen veffel, and keep it continually flirring, with an iron spatula, until it falls into a

This process is not here intended to be carried so far as the pharmaceutical writers in general direct: it must be discontinued as soon as the metal is reduced into a dusky powder: if calcined to whiteness, the following operation would not succeed. As to the virtues of the calx, we apprehend they are not greatly different from those of the foregoing preperation.

SAL JOVIS.
SALT OF TIN.
Edinb.

Take of the

Calx of tin, any quantity at pleafure:

Aqua regia, diluted with eight times its quantity of water, as much as will be fufficient to cover the calx to the height of fome inches.

Digest them together in a gentle heat of fand, that a solution may be made, which is to be passed through a silter, exhaled to a pellicle, and then set by, in a cold place, for three or sour days to crystallize: pour off the liquor, and dry the crystals for

The calx, which remains undiffolved, may be digested with a fresh parcel of aqua regia as before; and the solution thereof mixed with the liquor that was left after the preceding crystallization. The whole being now duly evaporated, and set in a cold place, a farther yield of crystals will be obtained.

In the last edition of this dispensatory, it was denied that any salt could be obtained by this process. If the tin indeed is highly calcined, aqua regia will not act upon it (though this circumstance is supposed to promote the solution of tin in vegetable acids) nor will any other falt be produced, than what the menstruum furnishes. But if the calcination is continued no farther than directed under the preceding article, this acid will diffolve fome part of the calx: the crystallization indeed does not well succeed: if any appearance of crystals is expected from a solution of tin made in aqua regis, the liquor should not be fet in a cold place, but kept unmoved, in a qua regis, either by volatile alcagentle heat: as it begins to thick- lies or by water alone, is someen, a number of faline concretions times employed as a cosmetic, unform, to the eye manifelly cryincoherent : they must be carefully taken up, put into a warm, dry

This falt feems intended for external purposes. The preparation described in other books of pharmacy under the name of fal jovis, and defigned for internal use, may be commodiously made in the fol-

lowing manner: Dissolve pure tin in a proper quantity of aqua regia, continuing to add the metal, by little and little at a time, till the menstruum will take up no more. Pour the folution into four times its quantity of water, and gradually put to it spirit of fal ammoniac till the effervescence ceases: a white curdly matter will precipitate, which is to be washed with water, and gently dried. Digest this powder in a pewter veffel, with ten times its weight of distilled vinegar, occasionally stirring up the matter from the bottom, till the vinegar has acquired a rough sweetish taste: then evaporate the liquor to the confiftence of a fyrup, add to it about one twentieth its weight of

rectified spirit of wine, and suffer the heat flowly to decrease, that the falt may cryftallize.

The crystals obtained by this method are hard, folid, colourless, transparent, void of acrimony. They have been recommended, in the dose of a few grains, in uterine diforders; but experience has not warranted the virtues attributed to them; nor are either this or the foregoing falt met with in the

The powder precipitated from ader the name of MAGISTERY stalline, but in texture infirm and OF TIN. A whiter, and more elegant, preparation of this kind might be obtained, by diffolving bottle, and well fecured from the the metal in the vitriolic acid, and precipitating with volatile spirits.

AMALGAMA JOVIS. AMALGAM OF TIN. Edinb.

Melt fome tin in a crucible; and heat the same quantity of quickfilver in another crucible, till it begins to fume: then immediately pour the hot quickfilver into the melted tin, and keep them stirring together, with an iron fpatula, until the mass grows cold.

This process is given only as preparatory to the following. Iron ladles are more convenient than crucibles.

AURUM MOSAICUM. MOSAIC GOLD. Edinb.

Take of the Amalgam of tin, fix ounces; Sal ammoniac,

Flowers of fulphur, of each three ounces.

Grind and mix them well together in a marble mortar: put the

mixture into a cucurbit, and apply at first a gentle heat, which is to be raised by slow degrees to the utmost. When the process is sinished, break the vessel; the mofaic gold will be found in the bottom, and the scoriæ, or dross, above it.

AURUM MUSIVUM.

Take of

Tin, one pound; Flowers of fulphur, feven ounces;

Sal ammoniac, Purified quickfilver, of each half

Purified quickfilver, of each half a pound.

Melt the tin by itfelf, add to it the quickfilver, and when the mixture is grown cold, reduce it into powder; mix this with the fulphur and fal ammoniac, and fublime in a matras: the mosaic gold will be found under the sublimed matter, with some dross at the bottom.

This preparation is chiefly valued, and receives its name, from its beautiful, fparkling, gold-like hue. As a medicine, it is at pre-fent little regarded; though formerly held in confiderable effeem, in hysterical and hypochondriacal complaints, malignant fevers, and venereal diforders. It has been recommended in these last from a supposition of its being a mercurial; but none of the mercury made use of is retained in the preparation. It appears from experiments, made for this purpose by Dr. Lewis, and related in his commentary on the Edinburgh pharmacopæia, to be little other than a calx of tin, reducible, by proper fluxes, into its metallic form again: the volatile ingredients, fal ammoniac, fulphur and quickfilver, fublime in the process, partly escaping, and partly forming the scoriæ: the two last are found united together into a cinnabar. Tin calcined by itself gains near as much in weight, as it does by being made into aurum musivum: the golden colour of this preparation is probably owing to a minute portion of fulphur that adheres to it.

SECT. VII.

PREPARATIONS of MERCURY.

MERCURY, or quickfilver, is a ponderous metallic fluid, totally volatile in a ftrong fire, and calcinable by a weaker one (tho' very difficult) into a red powdery fubstance. It dissolves in the nitrous acid, is corroded by the vitriolic, but not acted on by the marine in its liquid flate: it nevertheless may be combined with this last, if skilfully applied in the form of fume. Quickfilver unites by trituration, with earthy, unctuous, refinous, and other like substances, fo as to lose its fluidity: triturated with fulphur, it form a black mass,

which by fublimation changes into a beautiful red one.

The general virtues of the mercurial preparations are, to fuse the juices, however viscid, in the minutest and remote vessels; by this means they prove eminently serviceable in inveterate chronical disorders, proceeding from a thickness and sluggishness of the humours, and obstinate obstructions of the glands. Crude mercury has no effect this way. Resolved into sum, or divided into minute particles, and prevented from re-uniting by the interposition of other

fubstances, it operates very powerfully; unless the dividing body be fulphur, which restrains its action. Combined with a small quantity of the mineral acids, it acts effectually, though in general mildly; with a larger, it proves violently corrosive.

> ARGENTI VIVI PURIFICATIO. PURIFICATION OF QUICKSILVER. Lond.

Diffil quickfilver in a retort; and afterwards wash it with water and common falt, or with vine-

oar.

If a glass retort is made use of for this operation, it ought to have a low body, and a long neck, which should be considerably inclined downwards, fo as to allow the elevated mercury a quick defcent : the receiver should be filled almost to the neck of the retort with water; the use of this is not to condense, but to cool, the distilling quickfilver, lest falling hot upon the bottom, it should crack the glass. The distillation may be more conveniently performed in an iron retort, or pot fitted with a head.

The fire should be raised no higher than is sufficient to elevate the mercury; for certain mineral substances, which are said to be sometimes mixed with it, prove in part volatile in a degree of heat, not much greater than that in which mercury distils. Mr. Boyle relates, that he has known quick-sliver carry up with it a portion even of lead, so as to have its weight very sensibly increased thereby: and this happened tho only a moderate fire was used.

MERCURIUS ALCALIZATUS.

ALCALIZED MERCURY.

Take of Pure quickfilver, three drams

Prepared crabs eyes, five drams; Grind them together in a glass mortar, till the mercurial globules

disappear.

This preparation, which has never been received into the London pharmacopæia, and is now rejected from the Edinburgh, we have inferted here on account of its being still now and then called for. and held by fome in confiderable esteem. It has never come much into common practice, the labour of making it having been a temptation to a grievous abuse in its preparation, viz. the addition of an intermedium, which facilitates the union of the mercury with the crabs eyes, but greatly abates its medical powers. The medicine, when duly prepared, is an ufeful alterative; and may be given, in cutaneous or venereal cales, from two or three grains to a fcruple.

MERCURIUS SACHARATUS.
SUGAR'D MERCURY.
Edinb.

Take

Pure quickfilver,

Brown fugar candy, of each half an ounce:

Effential oil of juniper berries,

fixteen drops.

Grind them together in a glass mortar, until the mercury ceases

to appear.

The effential oil, here added, is a very useful ingredient; as it not only promotes the extinction of the quickfilver, but likewise improves the medicine. The intention, in this and the foregoing process, is only to divide the mercury by the interposition of other bodies; for when thus managed (as already obferved) it has very powerful effects; though whilft undivided it feems

to be altogether inactive. Sugar alone apparently answers this intention; but on the commixture of aqueous fluids, entirely dissolves by itself, leaving the mercury to run together again in its original form: the addition of the oil effectually prevents this inconvenience; for the preparation made as here directed, will totally dissolve in water, without any separation of the quicksilver. The dose of this medicine, as an alterative, is from two or three grains to a scruple.

ÆTHIOPS MINERALIS. ETHIOPS MINERAL. [L. E.]

Take

Purified quickfilver, Flowers of fulphur (unwashed) of each equal weights.

Grind them together, in a glass or stone mortar, until they are united.

The union might be greatly facilated by the affiftance of a little warmth. Some are accustomed to make this preparation in a very expeditious manner, by melting the fulphur in an iron ladle, then adding the quickfilver, and flirring them together till the mixture is completed. Nor does this practice appear to be justly blameable: for the fmall degree of heat here fufficient, cannot reasonably be supposed to do any injury to subflances, which have already undergone much greater fires, not only in the extraction from their ores, but likewise in the purifications of them directed in the pharmacopœia. In the following process, they are exposed in conjunction to a strong fire, without suspicion of the compound receiving any ill quality from it. Thus much is certain, that the ingredients are more perfectly united by heat, than by the degree of triture usually beflowed upon them.

Ethiops mineral is one of the most inactive of the mercurial preparations. Some practitioners have boldly afferted its pofferfing extraordinary virtues; and most people imagine it a medicine of some efficacy. But what benefit is to be expected from it in the common doses of eight or ten grains, or a fcruple, may be judged from hence, that it has been taken in doses of feveral drams, and continued for a confiderable time, without producing any remarkable effect. Sulphur eminently abates the power of all the more active minerals, and feems to be at the fame time restrained by them from operating in the body itself. Boerhaave, who is in general fufficiently liberal in the commendation of medicines, difapproves the ethiops in very flrong terms. "It cannot enter " the absorbent vessels, the lacteals " or lymphatics; but passes di-" rectly through the intestinal tube, " where it may happen to destroy " worms, if it operates luckily. "They are deceived who expect " any other effects from it; at " least I myself could never find "them. I am afraid, it is un-" warily given, in fuch large " quantities, to children and per-" fons of tender constitutions; as " being a foreign mals, uncon-" querable by the body, the more " to be suspected, as it there con-" tinues long, fluggish, and in-" active. It does not raife a fa-" livation, because it cannot come " into the blood. Who knows " the effects of a fubflance, which, " fo long as it remains compound-" ed, feems no more active than " any ponderous infipid earth?"

CINNABARIS FACTITIA.

ARTIFICIAL CINNABAR.

Lond.

Take

Take of

Purified quickfilver, twenty-five ounces,

Sulphur, feven ounces.

Melt the fulphur, and mix into it the quickfilver; if the mixture happens to catch flame, extinguish it by covering the vessel. The matter is afterwards to be reduced into powder, and sub-

limed. It has been customary to order a larger quantity of fulphur than here directed; but this smaller proportion answers better; for the less fulphur, the finer colour is the cinnabar. As foon as the mercury and fulphur begin to unite, a confiderable explosion frequently happens, and the mixture is very apt to take fire, especially if the process is somewhat hastily conducted. This accident, the operator will have previous notice of, from the matter fwelling up, and growing fuddenly confident: as foon as this happens, the veffel must be immediately close covered. During the fublimation, care must be had, that the matter rise not into the neck of the veffel, fo as to block up and burst the glass : to prevent this, a wide-neck bolthead, or rather an oval earthen jar, coated, should be made use of. If the former is employed, it will be convenient to introduce, at times, an iron wire, fomewhat heated, in order to be the better affured, that the paffage is not blocking up; the danger of which may be prevented, by cautioufly raifing the vessel higher from the fire. If the ingredients were pure, no feces will remain : in fuch case, the fublimation may be known to be over, by introducing a wire as before, and feeling therewith the bottom of the veffel, which will then be perfectly fmooth: if any roughness or inequalities are per-

ceived, either the mixture was impure, or the fublimation is not completed; if the later, the wire will foon be covered over with the rifing cinnabar.

The preparers of cinnabar in large quantity, employ earthen jars, which in shape pretty much re-femble an egg These are of different fizes, according to the quantity intended to be made at one fublimation, which fometimes amounts to two hundred weight. The jar is usually coated from the fmall end, almost to the middle, to prevent its breaking from the vehemence, or irregularity of the fire. The greater part, which is placed uppermost, not being received within the furnace, has no occasion for this defence. The whole fecret, with regard to this process, is (1) the management of the fire, which should be so strong as to keep the matter continually fubliming to the upper part of the jar, without coming out at its mouth, which is covered with an iron plate; (2) to put into the fubliming veffel, only fmall quantities of the mixture at a time.

A method is mentioned in the practical chemistry of making cinnabar without sublimation, by agitating or digesting mercury in the volatile tincture of sulphur, already described. We have found a sulphureous liquor more easily parable to have a like effect: the solution for lac sulphuris will, with some address, succeed.

The principal use of cinnabar is as a pigment. It was formerly held in great esteem as a medicine, in cutaneous foulnesses, gouty and rheumatic pains, epileptic cases, &c. but of late, it has lost much of its reputation. It appears to be nearly similar to the ethiops, already spoken of: like this, it is very mild, never occasions a falivation,

or other violent fymptoms (the qualities for which it has been chiefly recommended:) but like this also, it is inactive. Cartheuser relates. that having given cinnabar in large quantities to a dog, it produced no fenfible effect, but was partly voided along with the feces unaltered, and partly found entire in the flomach and intestines upon opening the animal. It is prefumed no one will at this time have recourse to the arguments for the efficacy of cinnabar used so late as the elder Frederic Hoffman, that the archeus, or anima (a visionary superintendant of the vital functions) is pleased with its fine colour as it passes along the intestines, and whilst he has this beautiful object to divert him, ceases from committing disorders in the body.

Cinnabar is fometimes used in fumigations against venereal ulcers in the nose, mouth, and throat. Half a dram of it burnt, the fume being imbibed with the breath, has occasioned a violent falivation. This effect is by no means owing to the medicine as cinnabar: when fet on fire, it is no longer a mixture of mercury and fulphur; but mercury resolved into fume, and blended in part with the volatile vitriolic acid; in either of which circumstances, this mineral, as already observed, has very powerful effects.

MERCURIUS CALCINATUS.

CALCINED MERCURY.

Lond.

Put purified quickfilver into a broad bottomed glass vessel, having a small hole opening to the air; and keep it in a constant heat, in a fand furnace, for several months, until it is calcined into a red powder.

This tedious process might, in all probability, be greatly expedited, by employing, instead of a veffel with a small aperture, a very wide mouthed, flat bottomed glass body, of such a height that the mercury may not escape: by this means, the air, which is essentially necessary to the calcination of all metallic substances, will be more freely admitted. A vessel might be so contrived, as to occasion a continual flux of air over the surface of the mercury.

This preparation is by some highly esteemed in venereal cases, and supposed to be the most efficacious and certain of all the mercurials. It may be advantageously given in conjunction with opiates: a bolus or pill, containing from half a grain to two grains of this calx, and a quarter or half a grain or more of opium, with the addition of some warm aromatic ingredient, may be taken every night. Thus managed, it acts mildly, though powerfully, as an alterative and diaphoretic: exhibited by itself in larger doses, as five or six grains, it proves a rough emetic and cathartic.

MERCURII SOLUTIO.
SOLUTION of MERCURY.
Edinh

Take equal quantities of pure quickfilver and double aqua fortis. Digest them together, in a phial placed in a fand furnace, that a limpid solution may be made.

Aqua fortis diffolves mercury more eafily, and in larger quantity, than any other acid: fixteen ounces, if the menstruum is very strong and pure, will take up eleven or twelve. As the liquor grows cold, a considerable part concretes, at the bottom of the vessel, into a crystalline form. If the whole is wanted to remain suspended, a proper quantity of water should be added after the solution is completed.

This process is given only as preparatory to some of the follow-

ing

caustic, so as scarce to be safely touched. It flains the fkin purple or black.

CALX MERCURII. CALX OF MERCURY. Edinb.

Take any quantity of the folution of mercury, and evaporate it over a gentle fire, till a white dry mass remains.

This calx, or rather falt, of mercurv, is violently corrofive. It is rarely made use of any otherwise than for making the following preparation.

MERCURIUS CALCINATUS.

vulgo PRÆCIPITATUS RUBER. RED CALX OF MERCURY,

commonly called, RED PRECIPITATE. Edinb.

Take any quantity of the calx of mercury, and reverberate it in a crucible, with fuccessive degrees of heat. Its white colour will change first into a brown, and afterwards a yellow; at length, upon increasing the fire, it passes into a deep red.

MERCURIUS CORROSIVUS RUBER. THE RED MERCURIAL

CORROSIVE. Lond.

Take

Purified quickfilver, Compound aqua fortis, of each equal weights.

Mix, and fet them in a broad bottomed veffel, in a fand heat, till all the humidity is exhaled, and the mass has acquired a red colour.

The marine acid in the compound menstruum ordered in this last process, disposes the mercurial

ing ones. The folution is highly calx to assume the bright sparkling look admired in it; which, tho perhaps no advantage to it as a medicine, ought nevertheless to be infifted on by the buyer as a mark of its goodness and strength. As foon as the matter has gained this appearance, it should be immediately removed from the fire, otherwife it will foon lofe it again. The preparation of this red precipitate. as it is called, in perfection, is supposed by some to be a secret not known to our chemists; infomuch that we are under a necessity of importing it from abroad. This reflexion feems to be founded on misinformation : we sometimes indeed receive confiderable quantities from Holland; but this depends upon the ingredients being commonly cheaper there than with us, and not upon any fecret in the manner of the preparation.

This precipitate is, as its title imports, an escharotic, and in this intention is frequently employed by the furgeons, with bafilicum, and other dressings, for consuming fungous flesh in ulcers, and the like purposes. It is subject to great uncertainty in point of firength; more or less of the acid exhaling, according to the degree and continuance of the fire. The best criterion of its strength, as already observed, is its brilliant appearance; which is also the mark of its genuineness: if mixed with minium, which it is fometimes faid to be, the duller hue will discover the abuse. This admixture may be more certainly detected by means of fire: the mercurial part will totally evaporate, leaving the minium behind.

Some have ventured to exhibit this medicine internally, in venereal, scrophulous, and other obstinate chronic diforders, in dofes of two or three grains, and more.

But certainly, the milder mercurials, properly managed, are capable of answering all that can be expected from this; without occafioning violent anxieties, tormina of the bowels, and other ill confequences, which the best management can fcarcely prevent this corrofive preparation from fometimes The chemists have condoing. trived fundry methods of correcting and rendering it milder, by divesting it of a portion of the acid; but to no very good purpose; as they either leave the medicine still too corrolive, or render it fimilar to others, parable at an easier rate.

MERCURIUS CORALLINUS. CORALLINE MERCURY.

Lond. Pour on the red mercurial corrofive, about thrice its weight of rectified spirit of wine, and digest them together, with a gentle heat, for two or three days, frequently shaking the vessel: then fet fire to the fpirit, keeping the powder continually ftirring till all the fpirit is burnt

Here the corrolive becomes fomewhat milder, a part of the acid being diffipated by the heat of the greatly to be doubted;) the preparation nevertheless feems to be scarce sufficiently safe for internal use: a few grains of it generally prove cathartic or emetic, and fometimes occasion violent symp-

ARCANUM CORALLINUM. THE CORALLINE SECRET.

Take five ounces of the red mercurial corrofive, and eight ounces of spirit of nitre: distil off the fpirit in a retort ; return it, with four ounces of fresh, upon the refiduum, and draw it off again as before: repeat this process, with four ounces of new spirit; and at last keep the fire up very flrong, for at least two hours. The powder, which remains in the retort, is to be put into a crucible, and kept of a worm-red heat for feven or eight minutes: then boil it for half an hour, in three pints of pure water : distil from it twelve ounces of tartarized spirit of wine, cohobating the spirit twice: digest it for forty eight hours in a fand heat, with the same quantity of fresh tartarized spirit; raising the fire towards the end, fo as to make the spirit simmer a little: afterwards fuffer the whole to cool, decant off the fririt, and dry the powder for ufe.

This preparation, notwithstanding its pompous name, is a very unthrifty and injudicious one. The cohobation of spirit of nitre upon the corrofive, answers no useful purpose; for whatever the acid communicates, is afterwards diffolved and feparated by the water; if the direction of keeping up a ftrong fire for some time, after the last distillation, is not strictly complied with, all the mercury will burning spirit; (whether the spirit dissolve in the water, and the solutakes up any in the digestion, is tion will prove similar to the folutio mercurii above described.

PULVIS PRINCIPIS. PRINCES POWDER.

Grind eight ounces of the red mercurial corrofive into a fine powder; and digest it with two quarts of water, in an almost boiling heat, for twelve hours, occasionally stirring up the powder from the bottom: then pour off the liquor, and digest the powder in a fresh parcel of water as before: repeating this process a third time. The last wa-

ter being poured off, grind the powder with double its weight of fixt alcaline falt, and digeft it as at first, in fresh waters, till it becomes insipid. Afterwards boil it in spirit of wine; and lastly, pouring off the spirit, dry the powder for use.

Take of

PÁNACEA MERCURII RUBRA. RED PANACEA OF MERCURY. Purified quickfilver, forty ounces; Sea falt, thirty-three ounces; Nitre, twenty-eight ounces; Calcined green visiol fixty-fix

Digest the red mercurial corrosive with eight times its weight of water, for twenty-four hours, shaking the vessel three or four times: pour off the water, dry the powder, and digest it with eight times its weight of spirit of wine, for sisten days. The spirit being then decanted off, burn upon the calx twice its weight of tincture of siphur: afterwards, digest it two or three days longer in fresh spirit of wine; and in the last place, exficcate it for use.

ounces. Grind the quickfilver, in a wooden or stone mortar, with an ounce or more of corrofive mercury fublimate already made, until the former is divided into fmall granules: this mixture is to be ground with the nitre, and afterwards with the fea falt : then add the calcined vitriol, continuing the triture only for a little time longer, left the quickfilver should run together again. Laftly proceed to fublimation. in a glass matras; to which you may adapt a head, in order to fave a little spirit that will come

The three foregoing preparations, have been kept in particular hands as fecrets. At bottom they are all nearly the fame, and much too trivial to deferve the pains taken about them. They are perhaps farther divested of acid, than the mercurinus corallinus of the shops; but have this difadvantage, that the quantity of acid feparated in the troublesome digestions, &c. must vary according to different circumstances in the operation. All the four fland recommended in small doses, two grains for instance, as excellent alterants and diaphoreties: in larger ones, they prove emetic and cathartic.

It has been supposed, that corrofive fublimate participates of all the ingredients employed in this process; though 'tis certain, that it confilts only of mercury and the acid of the fea falt united together. The materials being mixed and exposed to the fire, first the vitriol parts with its acid; which diflodging those of the nitre and marine falt, takes their place. The marine acid, refolved into fume and assisted by the nitrous, dissolves the mercury now also strongly heated. This acid, though it very difficultly acts on mercury, yet when thus once united with it, is more frongly retained thereby than any other acid. The nitrous spirit, therefore. having nothing to retain it (for its own basis, and that of the fea falt are both occupied by the vitriolic: and that which the vitriolic forfook to unite with thefe, has now little affinity with any acid) arifes; leaving the mercury and marine a-

MERCURIUS CORROSIVUS SUBLIMATUS, vel ALBUS. The WHITE MERCURIAL CORROSIVE or CORROSIVE

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cid to fublime together when the made, this form may be easily obheat shall be strong enough to ele- tained by placing the matras no vate them. Some small portion of deeper in the fand, than the surface the marine spirit arises along with of the matter contained in it; and the nitrous; and hence this com-pound acid has been usually employed, instead of the aqua fortis composita, to which it is similar, for making the red corrofive.

It appears therefore, that the vitriol, and the bases of the nitre and fea falt, are of no farther use in this process than as convenient intermediums for facilitating the union of the mercury with the marine acid. They likewife ferve to afford a support for the sublimate

to reft upon, which thus assumes the form it is expected in, that of a placenta or cake.

Take

Calx of mercury (that is, a folution of mercury in aqua fortis, evaporated to a dry white mass.

Edinb.

Decrepitated fea falt, of each equal quantities.

tion.

thod is in all respects the same with man observes, will not arise, in the foregoing; but as the quantity fublimation, along with this merof fixt matter is finall, it difficultly curial preparation; and it cannot assumes the form of a cake. It be mingled therewith afterwards, requires indeed fome skill in the without destroying the form in operator, to give it this appear- which it is brought to us.
ance when either process is fol- Sublimate is a most vi

removing a little thereof from the fides of the glass, as soon as the flowers begin to appear in the neck : when the heat should likewife be fomewhat lowered, and not at all raifed during the whole process. The sublimation is known to be completed by the edges of the crystalline cake, which will form upon the furface of the caput mortuum, appearing fmooth and even, and a little removed

Our apothecaries, and even the chemists, very rarely attempt the making of this preparation themfelves; greatest part of what is used among us, comes from Venice, Holland, and other places. This foreign sublimate has been reported to be adulterated with arfenic; and fundry trials have been made for discovering this dangerous fraud. Barchusen proposes Powder, and mix these well toge- alcaline liquors as an infallible crither; and put them into a ma- terion; if these, he says, change tras, of which they may nearly the fublimate black, it most cerfill one half: place the veffel in tainly contains arfenic: Homberg a fand furnace, and proceed to affirms, that these liquors change fublimation; applying at first a all forts of sublimate black: and gentle heat, and afterwards in- on the other hand, Boulduc decreafing it, till all the fublimate nies that they will change either has arose, in a white crystalline the genuine or adulterated of this mass, to the upper part of the colour. It would be needless here matras: feparate this from the to enquire, how far thefe gentlered scoriæ, and purify it, if men are in the right or otherwise, needful, by a fecond sublima- since the suspicion which gave rife to the controversy, appears to have The sublimate made by this me- little foundation: arienic, as Neu-

Sublimate is a most violent corlowed. When large quantities are rofive, prefently corrupting and deftroying

flroying all the parts of the body it touches. A folution of it in water, in the proportion of about a dram to a quart, is made use of for keeping down proud flesh, and cleanfing foul ulcers: and a more dilute folution as a cofinetic, and for destroying cutaneous infects. But a great deal of caution is requifite even in these external uses of it.

Some have nevertheless ventured to exhibit it internally, in the dose of one tenth, or one eighth of a grain. Boerhaave relates, that if a grain of it be dissolved in an ounce or more of water, and a dram of this folution, foftened with fyrup of violets, taken twice or thrice a day, it will perform wonders in many reputed incurable distempers; but particularly cautions us not to venture upon it, unless the method of managing it is well

Sublimate confifts of mercury united with a large quantity of ma-rine acid. There are two general methods of destroying its corrosive quality, and rendering it mild : combining with it fo much fresh mercury as the acid is capable of taking up, and separating a part of the acid by means of alcaline falts and the like.

> MERCURIUS DULCIS SUBLIMATUS. DULCIFIED MERCURY SUBLIMATE. Lond.

Take of

Purified quickfilver, nine ounces.

The fublimed matter, limed. freed from the acrimonious part at top and fuch mercurial globules as happen to appear diflinct in it, is to be reduced into powder, and fublimed again; and this fublimation repeated fix times.

Edinb.

Take of

Corrofive mercury fublimate, reduced to powder in a glass mortar, four ounces;

Pure quickfilver, three ounces. Mix them exquisitely together in a mortar, until the quickfilver ceases to appear. Put the powder into an oblong phial, of fuch a fize that only one third of it may be filled; and fet the glass in a fand furnace, so as that the fand may reach up to one half its height. By degrees of fire fuccessively applied, almost all the mercury will sub-lime, and adhere to the upper part of the vessel. The glass being then broken, and the red powder which is found in its bottom, with the whitish one that flicks about the neck, being thrown away, let the white mercury be fublimed again three or four times.

If the fublimation is repeated feven times, the preparation is called CALOMELAS or AQUI-LA ALBA.

The trituration of corrolive fublimate with quickfilver is a very noxious operation: for it is almost impossible, by any care, to prevent Corrolive mercury sublimate, one the lighter particles of the former from arifing, fo as to affect the operator's eyes and mouth. It is ne-Having powdered the fublimate, vertheless of the utmost confeadd to it the quickfilver, and quence, that the ingredients are digest them together in a matras, perfectly united before the subliwith a gentle heat of fand, until mation is begun : this may be most they unite; then, increasing the commodiously effected, by the diheat, let the mixture be fub- gestion ordered in the first of the

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above processes. It is indeed still with the rest, by repeating the trinecessary to pulverize the sublimate, before the mercury is added to it: but this may be fafely performed, with a little caution; efpecially, if during the pulverization the matter be now and then fprinkled with a little spirit of wine: this addition does not at all impede the union of the ingredients, or prejudice the fublimation: it will be convenient not to close the top of the subliming veffel with a cap of paper at first (as is usually practifed) but to defer this till the mixture begins to fublime, that the spirit may escape.

The rationale of this process deferves particular attention; and the more fo, as a mistaken theory herein has been productive of feveral errors with regard to the operation of mercurials in general. It is fupposed, that the dulcification, as it is called, of the mercurius corrofivus, is owing to the spicula or sharp points, on which its corro-fiveness depends, being broken and worn off by the frequent fublimations. If this opinion was just, the corrofive would become mild, without any addition, barely by repeating the fublimation; but this is contrary to all experience. The abatement of the corrofive quality of the fublimate is entirely owing to the combination of fo much fresh mercury with it, as is capable of being united; and by whatever means this combination is effected, the preparation will be fufficiently dulcified. Triture and digeftion promote the union of the two, whilft fublimation tends rather to difunite them. The prudent operator therefore, will not be folicitous about feparating fuch mercurial globules as appear diffinct after the first fublimation; he will enture and digestion.

The college of Wirtemberg require their mercurius dulcis to be only twice fublimed; and the Augustan, but once: and Neuman propofes making it directly, by a fingle fublimation, from the ingredients which the corrofive fublimate is prepared from, by only taking the quickfilver in a larger proportion. If the medicine, made after either of these methods, should prove in any degree acrid; water, boiled on it for fome time, will effectually dissolve and separate all that part in which its acrimony confifts. The marks of the preparation being fufficiently dulcified are, its being perfectly infipid to the taste, and indissoluble in wa-

Mercurius dulcis is one of the best and fafest preparations of this mineral. Many of the more elaborate processes are no other than attempts to produce fuch a medicine as this really is: all that mercurials are capable of performing, as fialagogues, diaphoretics or alterants, may be effected by it. The dose, for raising a falivation, is fifteen or twenty grains; taken in the form of a bolus or pills, every night or oftner, till the ptyalifm begins. As an alterant and diaphoretic, it is given in doses of fix, eight, or ten grains; a purgative being occasionally interposed, to prevent its affecting the mouth. It answers, however, much better, when given in fmaller quantities, as one, two, or three grains, every morning and evening in conjunction with fuch substances as determine its action to the fkin, as the extract or refin of guaiacum; the patient at the fame time keeping warm, and drinking liberally deavour rather to combine them of warm diluent liquors. By this method of managing it, obstinate cutaneous and venereal diftempers may be fuccefsfully cured, without any remarkable increase of the senfible evacuations.

PANACEA MERCURII. MERCURIAL PANACEA. Edinb.

Take any quantity of levigated calomel, and four times as much spirit of wine. Digest them together in a fand heat for twenty days, frequently shaking the velfel; then pour off the fpirit, and dry the powder for use.

This preparation differs very little, if at all, from the foregoing; for, as Lemery observes, the spirit of wine does not dissolve any part of the calomel. Some chemists have therefore recommended a proof fuitable for this purpose than rectified spirit: if any part indeed of the calomel remains not sufficiently du cified, this will be dissolved by boiling in water, and confequently the preparation becomes milder; but if the calomel is well made, even water will have no effect upon it: the mercury and spirit of falt being so closely united to each other, as not to admit of any feparation by the means here proposed. Nor indeed does good mercurius dulcis want any of its acid to be taken way, as being already fufficiently fafe and mild in its operaration.

MERCURIUS PRÆCIPITATUS ALBUS. WHITE PRECIPITATE of M. RCURY.

Sublimate corrofive mercury, Sal ammoniac, of each equal weights. Dissolve them both together in water, filter the folution, and precipitate it with a folution of any fixt alcaline falt. Wash the pre-cipitated powder, until it is perfectly fweet (that is, infipid or void of acrimony.)

MERCURIUS PRÆCIPITATUS DULCIS. SWEET PRECIPITATE of MERCURY. Edinb.

Diffolve fublimate corrofive mercury in a fufficient quantity of hot water, and gradually drop into the folution fome spirit of fal ammoniac, as long as any precipitation enfues. Wash the precipitated powder upon a filter, with feveral parcels of warm

The use of the sal ammoniac in foirit, or common water, as more the first of these prescriptions is to promote the folution of the fublimate; which of itsel is difficultly, and scarce at all entirely, foluble in water; for however fkilfully prepared, fome part of it will have an under proportion of acid, and confequently approach to the flate of mercurius dulcis. The chemists. however, to fave the expence of this article, often make a lefs quantity, than above directed, ferve; and take the trouble of boiling the fublimate in feveral fresh parcels of water. A good deal of care is requisite in the precipitation: if too large a quantity of the alcaline liquor be imprudently added, the precipitate will lofe the elegant colour which recommends it in unquents. For internal purpofes this medicine is rarely made use of. nor is it at all wanted : it is fimilar to calomel, but less certain in its effects.

> Mercurius præcipitatus albus. White precipitate of Mercury. Edinb.

Take

Take any quantity of the folution " perhaps the best remedy hitherto of mercury (made in aqua fortis) without any acrimony. The does, powder is then to be put betwixt the folds of paper, and dried with a very gentle heat.

This is a very unfrugal preparation; for fea falt, in whatever proportion it be added, will not precipitate all the mercury: this evidently appears upon adding a fmall quantity of a folution of fixt alcaline falt, or volatile alcaline spirit, to the liquor which remains after the precipitate is fallen, when it will again grow turbid, and let fall a confiderable quantity of fresh precipitate. Homberg observes, that if the acid spirit bears an over proportion to the mercury in the folution, no precipitation at all will follow upon the affusion of the brine of sea falt. If the precipitate be washed too often with hot water, it will all dissolve and pass the filter: the same accident will likewife happen, if the brine employed at first to throw down the mercury, be fuffered to fland too long upon the precipitate.

Some have been accusomed to substitute the foregoing preparation in the place of this; but very injudiciously: the first is so mild, as not improperly to deferve the appellation by which it is diffinguished in the Edinburgh pharmacopœia, dulcis; whilst this last is fo far corrofive, as to be employed by the farriers for the purposes of an escharotic. Internally, it is among us very rarely made use of; notwithstanding the character given

" afforded by mercury." and pour into it, by little and rius dulcis produces all the good eflittle, fome very ftrong brine of fects which this is supposed to do. fea falt, until all the quickfilver with a greater degree of certainty, is precipitated in form of a very and without difordering the conftiwhite powder; which is to be tution, occasioning vomiting, &c. washed upon a filter with warm which this precipitate, in a dose water, till the water comes off of two or three grains, frequently

MERCURIUS PRÆCIPITATUS FUSCUS, vulgo WURTZII. BROWN, commonly called WURTZ'S, PRECIPITATE. Edinb.

Take any quantity of folution of mercury (made in aqua fortis) and gradually drop into it oil of tartar per deliquium, till the effervescence ceases. A powder will precipitate, which is to be edulcorated as the foregoing.

This preparation was in confiderable efteem fome years ago, but at prefent is rarely made use of. It does not differ in strength or effects from the fweet precipitate.

MERCURIUS PRÆCIPITATUS VIRIDIS. GREEN PRECIPITATE of MERCURY. Edinb

Dissolve four ounces of corrosive fublimate mercury (previously reduced to powder) in a quart of

Digest an ounce and a half of copper filings, with eight ounces of spirit of fal ammoniac, in a matras, until a deep blue tincture is extracted.

Filter the tincture, and drop it by degrees into the mercurial fo-·lution: when the precipitate has fallen, evaporate in a fand heat to dryness.

This differs from the fweet preof it by Boerhaave, of being cipitate in containing an admixture

of copper, which renders it an emetic too rough to be used internally with fafety: and hence the prefent practice has almost entirely rejected it.

MERCURIUS EMETICUS FLAVUS. The YELLOW MERCURIAL EMETIC. Lond.

Upon purified quickfilver, contained in a glass vessel, pour double its weight of the strong spirit or oil of vitriol. Heat the liquor by degrees, fo as at length to make it boil, till a white mass remains, which is to be throughly dried, with a strong fire. This mass, on the assussion of warm water, grows yellowish, and falls into powder, which is to be diligently ground with the water in a glass mortar: then fuffer it to fettle, pour off the water, and wash the powder in feveral parcels of fresh water, until it is fufficiently dulcified.

MERCURIUS PRÆCIPITATUS FLAVUS. TURPETHUM MINERALE.

YELLOW PRECIPITATE of MERCURY, or TURPETH . MINERAL.

Edinb. Take four ounces of pure quickfilver, and fixteen ounces of reclified oil of vitriol. Cautioully mix them together, and distil in a retort placed in a fand furnace, to dryness; the white calx, which is left at the bottom, being ground to powder, and thrown into water, immediately grows of a yellow colour; wash this in fresh waters, dry it for use.

The quantity of vitriolic acid in this last prescription, is greatly too large; and even less than that in the first would fusfice. Boerhaave directs this preparation to be made in an open glass, slowly heated, and then placed immediately upon burning coals; care being taken to avoid the fumes. which are extremely noxious. This method will succeed very well, with a little address, when the ingredients are in fmall quantity: but where the mixture is large, it is better to use a retort, placed in a fand furnace, with a recipient containing a fmall quantity of water luted to it. Great care should be taken, when the oil of vitriol begins to bubble, to fteadfly keep up the heat, without at all increasing it till the ebullition ceases, when the fire should be augmented to the utmost degree; for the more perfeetly the mais is exficcated, the greater will the yield of turbith prove.

The edulcoration of this preparation, which is attempted by repeated ablutions with water, does but ill fucceed; especially if the vitriolic acid has been used in too large a proportion, or the mass not been duly exficcated; in either of which cases, great part of the turbith will be taken up by the water: this evidently appears upon pouring into it a little folution of fixt falt, which will throw down a confiderable quantity of yellow precipitate, greatly refembling the turbith, except that it is less violent in operation.

From this experiment, it appears, that the best method of edulcorating this powder is, by impregnating the water intended to be used in its ablution, with a determined proportion of fixt alcaline renewed feveral times, until it falt; for by this means, the washed has loft all its acrimony; then turbith will not only turn out

greater

greater in quantity, but, what is of more confequence, always have an equal degree of fliength; a circumflance which deferves particularly to be confidered, especially in making such preparations as, from an error in the process, may prove too violently corrosive to be used with any tolerable degree of safety.

Turbith mineral is a ftrong emetic, and in this intention operates the most powerfully of all the mercurials that can be fafely given internally, Its action however is not confined to the primæ viæ; it will fometimes excite a ptyalism, if a purgative is not taken foon after it. This medicine is used chiefly in virulent gonorrhæas, and other venereal cases where there is a great flux of humours to the parts; it is faid likewise to have been employed with good fuccels, in robust constitutions, against leprous disorders, and obstinate glandular obstructions: the dofe is from two grains, to fix or eight, though there are fome constitutions which have been much used to mercurials, that bear well even the dose of a scruple. It may

greater in quantity, but, what is of more confequence, always have an as an alterative and diaphoretic, equal degree of flying the acticum-flance which deferves particularly curius calcinatus already spoken of.

This medicine has been of late recommended as the most effectual prefervative against the hydrophobia. There are feveral examples of its preventing madness in dogs that had been bit; and some, of its performing a cure after the madness was begun: from fix or feven grains to a fcruple, may be given every day, or every other day, for a little time, and repeated at the two or three fucceeding fulls and changes of the moon. Some few trials have likewife been made on human fubjects, that had been bit by mad dogs; and in these also, the turbith, used either as an emetic or alterative, had happy effects.

The washings of turbith mineral are used by some, externally, for the itch and other cutaneous soulnesses. In these cases, this mercurial lotion often does some service, but the patient must not be

too free with it.

SECT. VIII.

PREPARATIONS of ANTIMONY.

ANTIMONY is composed of a femimetal, united with sulphur or common brimstone.

If powdered antimony be exposed to a gentle fire, the sulphur exhales; the metallic part remaining in form of a white calx, reducible, by proper fluxes, into a whitish brittle semimetal, called regulus. This is readily distinguished from the other bodies of that class, by its not being soluble in aqua fortis: its proper menstruum is aqua regis.

If aqua regis be poured upon crude antimony, the metallic part will be diffolved; and the fulphur thrown out, partly to the fides of the veffel, and partly to the furface of the liquor, in form of a greyish yellow substance. This, separated and purified by sublimation, appears on all trials the same with pure common brimstone.

The femimetal, freed from the fulphur naturally blended with it, and afterwards fused with common

common brimftone, refumes the appearance and qualities of crude antimony.

It is extremely difficult to determine exactly the proportions of fulphur and femimetal which enter the composition of this concrete; since they can scarce be perfectly separated from one another, without some part of them being lost in the operation. The proportions likewise vary in different antimonies; sixteen ounces of some forts yield ten or eleven of regulus; whilst the same quantity of others scarce

affords eight.

Many celebrated chemists have maintained, that antimony contains, besides its own semimetal and fulphur, a portion of an arfenical fubstance; to which they ascribe the virulent effects produced by fome of the antimonial preparations. But this opinion, how plaufible foever it may appear from the arguments which they bring in support of it, does not feem to have any just foundation. Nothing arfenical has ever been feparated from pure an-The most violent antimonials are rendered inactive, by means which do not lessen the poifonous quality of arfenic; and the most inactive antimonial preparations are rendered virulent, by operations in which arfenic would either be diffipated, or its violence abated.

The antimonial femimetal is a medicine of the greatest power of any known substance whatever: a quantity too minute to be sensible on the tenderest balance, is capable of producing virulent effects, if taken dissolved or in a soluble state. If exhibited in such a form as to be immediately miscible with the animal shuids, it proves violently emetic; if so managed as to be more slowly acted on, cathar-

tic; and in either case, if the dose is extremely small, diaphoretic.

Thus, though vegetable acids extract fo little from this femimetal, that the remainder feems to have loft nothing of its weight; these tinctures, nevertheless, prove in no large doses strongly emetic, and in smaller ones powerfully diaphoretic. The regulus has been cast into the form of pills, which acted as virulent cathartics, though without suffering any sensible diminution of weight in their passage through the body, and this repeatedly, for a great number of times.

This femimetal, divested of the inflammable principle which it has in common with all metallic bodies, that is reduced to a calx, becomes indisfoluble and inactive. The calx nevertheles, urged with a strong fire, melts into a glass, as easy of solution (partially) and as virulent in operation, as the regulus itself: the glass, throughly mingled with such substances as prevent its solubility, as wax, refins, and the like, is again rendered

mild.

Vegetable acids, as we have already observed, dissolve but an extremely minute portion of this femimetal; the folution nevertheless proves powerfully emetic and cathartic. The nitrous and vitriolic acids only corrode it into a powder, to which they adhere fo flightly as to be feparable in good measure by water, and totally by fire, leaving the regulus in form of a calx fimilar to that prepared by fire alone. The marine acid has a very different effect: this reduces the regulus into a violent corrofive, and though it difficultly unites, yet very closely adheres to it, infomuch as not to be feparable by any ablution, nor by fire, the regulus arifing along with it. The

nitrous or vitriolic acids expel the marine, and thus reduce the corrofive into a calx fimilar to the foregoing.

Sulphur remarkably abates the power of this femimetal: and hence crude antimony (in which the regulus appears to be combined with from one fourth to one half its weight of fulphur) proves altogether mild. If a part of the fulphur be taken away, by fuch operations as do not destroy or calcine the femimetal, the remaining mass becomes proportionably more active; the farther the sulphur is separated, the more does the regulus, thus divested of its corrector, exert its virulence.

The fulphur of antimony may be expelled by deflagration with nitre: the larger the quantity of nitre, to a certain point, the more of the fulphur will be diffipated, and the preparation will be the more active. If the quantity of nitre is more than fufficient to confume the fulphur, the rest of it, deslagrating with the inslammable principle of the regulus itself, renders it again

The fulphur of antimony is likewife abforbed, in fufion, by certain metals, and by alcaline falts. These last, when united with sulphur, prove a menstruum for all the metals (zinc excepted) and hence, if the sufficient is long continued, the regulus is taken up, and rendered soluble in water.

REGULUS ANTIMONII
MEDICINALIS.

A MEDICINAL REGULUS OF
ANTIMONY.

Take of

Antimony, eight parts;
Nitre, one part.
Mix, and inject them by little at a time, into a red hot crucible:
when the deflagration ceases,

take the crucible out of the fire, and reduce the matter into powder.

This preparation is fufficiently mild, though confiderably more active than the crude mineral: eighteen or twenty grains will in fome conflitutions operate, though very gently, both upwards and downwards. It is fimilar to one to be described hereafter under the same name.

CROCUS ANTIMONII
MITIOR.
The MILDER CROCUS of
ANTIMONY.

Take of
Antimony, two parts;
Nitre, one part.

Mix, and inject the powder into a red hot crucible. As foon as the deflagration ceases, remove the matter from the fire (without suffering it to melt) and reduce it into powder.

This preparation acts much more powerfully than the foregoing; the increase of the nitre occasioning a greater quantity of the fulphur of the antimony to he diffipated. The London committee received it in their first draught, with the character of an antimonial of mild operation, which had proved a fuccessful medicine in numerous inflances, without any one example of its being unfafe. Some trials however, afterwards reported to them, where the operation of this and the following crocus were compared, induced them to lay this preparation afide. It appears to differ from the other only in being less violent.

CROCUS of ANTIMONY.

Lond.

Take Antimony,

Nitre,

Nitre, of each equal weights.
Reduce them feparately into powder; then mix, and inject them into a crucible heated to a white heat, that the mixture (after deflagration) may melt. Then pour it out, feparate the fcoriæ, and referve the matter underneath them for use: it proves different in colour according to the continuance of the heat; the longer it has been kept in susion, the vellower it will be.

CROCUS METALLORUM. CROCUS of METALS. Edinb.

The mixture of antimony and nitre, made as above, is to be injected into a red hot crucible; and when the detonation is over, feparate the reddish metallic matter from the whitish crust, and edulcorate it with water.

Here the antimonial fulphur is totally confumed, and the metallic part left divested of its corrector. These preparations, given from two to fix grains, act as violent emetics, greatly disordering the constitution. Their principal use is in maniacal cases; as the basis of some other preparations; and among the farriers, who frequently give to horses an ounce or two a day, divided into different doses, as an alterative; in these and other quadrupeds, this medicine acts chiefly as a diaphoretic.

The chemifts have been accuftomed to make the crocus with a less proportion of nitre than directed above; and without any farther melting, than what ensues from the heat that the matter acquires by deflagration, which, when the quantity is large, is very considerable: a little common salt is added to promote the suspense of the mixture is put by degrees into an iron pot, or mortar, somewhat

heated, and placed under a chimney: when the first ladle-full is in, a piece of lighted charcoal is thrown to it, which sets the matter on fire: the rest of the mixture is then injected by little and little: the deslagration is soon over, and the whole appears in perfect suffion: when cold, a considerable quantity of scorie are found upon the surface; which scorie are easily knocked off with a hammer. The crocus prepared after this manner is of a redder colour, than that of the first of the above processes.

CROCUS ANTIMONII LOTUS. WASHED CROCUS OF ANTIMONY. Lond.

Reduce the crocus into a very fubtile powder, and boil it in water: then, throwing away this water, wash the powder several times in fresh warm water, until it becomes perfectly infipid.

This process is designed chiefly to fit the crocus for the preparation of emetic tartar, of which hereafter. Cold water would not extract the faline matter; for we have already seen, that sulphur and nitre, deslagrated together, form a falt not dissoluble in cold water.

EMETICUM MITE ANTIMONII. A MILD ANTIMONIAL EMETIC.

Take of

Antimony, one part; Nitre, two parts.

Grind them together, and throw them by little and little into a red hot crucible: when the deflagration is over, the remaining matter, which proves white, is to be washed for use.

The quantity of nitre is here fo large, as to confume not only the fulphur

fulphur of the antimony, but likewife great part of the inflammable principle of the regulus. Boerhaave, from whom we have taken this preparation, informs us, that it is fo mild as often to occasion only fome light nausea and gentle vomiting, with a large discharge of faliva, and thick urine. Its effects feem to be nearly the same with those of the regulus medicimalis.

CALX ANTIMONII. CALX OF ANTIMONY.

Take of

Antimony, one part, Nitre, three parts.

Let the powdered antimony be well mixed with the nitre, and gradually injected into a crucible, heated to a light white heat; the matter being afterwards taken from the fire, is to be washed with water, both from the falt which adheres to it, and from the groffer part that is less perfectly calcined.

ANTIMONIUM DIAPHORETICUM DIAPHORETIC ANTIMONY. Edinb.

Take of Antimony, half a pound,

Nitre, a pound and a half. Reduce them feparately into powder, then mix, and inject them, by a spoonful at a time, into a red hot crucible: when the detonation is over, let the white mass be calcined in the fire for half an hour longer; then powder, and keep it in a glass vessel closely stopt. This calx, unwashed, is called ANTIMO-NIUM DIAPHORETICUM NITRATUM, nitrated diaphoretic antimony.

The foregoing calx, digested for a nitre in as much water as

will rife above it some inches. and then washed in fresh parcels of water five or fix times, is named ANTIMONIUM DIA-PHORETICUM DULCE, edulcorated diaphoretic antimony.

The feveral washings, mixed together, filtered, and evaporated over a gentle fire till a cuticle forms on the furface, yield in the cold, cryftals, called NI-TRUM STIBIATUM, antimoniated nitre.

The calx of antimony, when freed by washing from the faline matter, is extremely mild, if not altogether inactive. Hoffman, Lemery, and others affure us, that they have never experienced from it any fuch effects as its usual title (that under which it stands in the last of the above processes) imports; Boerhaave declares, that it is a mere metallic earth, entirely destitute of all medicinal virtue: and the committee of the London college admit that it has no fenfible operation. The common dose is from five grains to a fcruple, or half a dram; though Wilson re-lates, that he has known it given by half ounces, and repeated two or three times a day, for feveral days together.

Some report, that this calx, by being kept for a length of time, contracts an emetic quality: whence it has been concluded, that the powers of the reguline part are not entirely destroyed; that the preparation has the virtues of other antimonials which are given as alteratives, that is, in fuch fmall doses as not to stimulate the primæ viæ; and that therefore, diaphoretic antimony, as it is certainly among the mildest preparations of that mineral, may be useful for children, and fuch delicate constitutions where the stomach and intestines are easily affected. The

observa-

these conclusions are drawn, does not appear to be well founded: Ludovici relates, that after keeping the powder for four year, it proved as mild as at first: and the Strasburgh pharmacopæia, with good reason, suspects, that where the calx has proved emetic, it had either been given in fuch cases as would of themselves have been attended with this fymptom (for the great alexipharmac virtues, attributed to it, have occasioned it to be exhibited even in the more dangerous malignant fevers, and other diforders, which are frequently accompanied with vomiting) or that it had not been sufficiently calcined, or perfectly freed by ablution from fuch part of the regulus as might remain uncalcined.

It has been observed, that when diaphoretic antimony is prepared with nitre, abounding with sea filt, of which all the common nitre contains some portion, the medicine has proved violently emetic. This effect is not owing to any particular quality of the sea falt, but to its quantity, by which the proportion of the nitre to the an-

timony is rendered lefs.

The nitrum flibiatum differs little from fal polychrest.

CFRUSSA ANTIMOMII. CERUSSE OF ANTIMONY.

Take of

Regulus of antimony, one part; Nitre, three parts.

Deflagrate them together, as in the

foregoing process.

The result of both processes appear to be altogether the same. It is not necessary to use so much nitre here, as when antimony itself is employed; for the sulphur which the crude mineral contains, and which requires for its dissipation nearly an equal weight of nitre to the antimony, is here already se-

observation, however, from which parated. Two parts of nitre to these conclusions are drawn, does one of the regulus are sufficient.

REGULUS ANTIMONII MEDICINALIS. MEDICINAL REGULUS OF ANTIMONY.

Take of

Antimony, five parts; Common falt, four parts; Salt of tartar, one part.

Grind them together, and inject the mixture into a red hot crucible, and when it flows fufficiently thin, pour it into a cone, smoked and heated: gently shake the cone, or strike it on the sides, that the regulus may sink to the bottom. This regulus, freed from the scoriæ, appears bright like polished steel; powdered, it assumes a reddish or purple colour.

This medicine is fimilar in quality to one made with one eighth of nitre, already described: in both processes, the antimony is freed from a finall portion of its fulphur, which is diffipated in flame by the nitre, and absorbed by the alcaline falt. This preparation is greatly celebrated by Hoffman, and other German phyficians, in fundry obstinate chronical disorders, and esteemed one of the best antimonials that can be given with fafety as alterants: it operates chiefly as a diaphoretic, and fometimes, though rarely, proves emetic. The dole is from three or four grains to twenty.

This regulus, reduced into a fubtile powder, is the genuine FE-BRIFUGE POWDER of Craanius (Pharm. Boruso - Brandenburg, edit. 1734. pag. 107.) and has been greatly commended in all kinds of fevers, both of the intermittent and continual kind, (Pharm. Argent. 1725. pag. 252.) A dose or two have frequently removed

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these disorders, by occasioning either a salutary diaphoresis, or acting mildly by stool or vomit. The colour of the levigated powder is a purplish brown. The antimonial emetic of Boerhaave already mentioned, which is white, is nearly similar to it.

The common falt is of no farther use in the process, than as it serves to promote the sussing, and even for this it is not necessary. The medicine proves rather more mild and certain in operation, if prepared

without it.

REGULUS ANTIMONII. REGULUS OF ANTIMONY. Edinb.

Take

Antimony,

Nitre,

Crude tartar, of each equal parts. Grind them feparately into a powder, then mix, and rub them all together. Inject the powder, at feveral times, into a red hot crucible, taking care to break the cruft, which forms on the furface, with an iron rod: when the detonation is over, let a flrong fire be made, that the matter may flow like water, then pour it out into a warm greafed cone, which is to be gently flruck on the fides, that the regulus may feparate and fall to the bottom; when grown cold, let the regulus be cleared from the feoriæ that lie a-top of it.

In this process, an alcaline salt is produced from the nitre and tartar; in such quantity, as entirely to absorb the sulphur of the antimony: the alcali, thus sulphurated, will take up more or less of the reguline part, according to its quantity, and the continuance of the sulphurated.

As the ingredients are above proportioned, the yield of regulus proves extremely small, and if the suspense of perceptible, almost the whole of it being taken up into the scoriæ: in order to obtain the largest quantity, the nitre ought to be diminished one half. It is convenient to rub the nitre and tartar together, and deslagrate them in an iron ladle or pan, before their mixture with the antimony; for by this means, the loss of some part of the antimony, which otherwise happens from the vehemence of the deslagration, will be prevented, a smaller crucible will serve, and less time and labour complete the process.

The mixture of nitre and tartar deflagrated together, will reduce any of the antimonial calces (as the diaphoretic antimony, ceruffe, or antimony calcined by itself) into regulus; the oily matter of the tartar fupplying the inflammable principle, which all calces require for their revival into a metallic form: and the alcaline falt promoting their fusion. It is the common reducing flux of the chemists; by whom it is called, from its colour, the black flux. The largest yield of regulus, hitherto obtained from antimony, has been got by calcining it without addition, as directed hereafter for making glafs of antimony, and reviving the calx by fusion, with this, or other like compositions. Mr. Geoffroy, who first communicated this method to the French academy, feems to look upon foap (the fubstance he happened to make use of himself) as the only one that will succeed: but the effects of this are not different from those of the foregoing flux. Both confift of an alcaline falt, and an inflammable (not fulphureous) fubstance, which are the only materials here necessary.

REGULUS ANTIMONII MARTIALIS.

MAR.

MARTIAL REGULUS OF ANTIMONY. Edinb.

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Antimony, Nitre,

Crude tartar, of each one pound; Small pieces of iron, half a pound.

Heat the iron in a crucible to a white heat: then gradually add the other ingredients, first powdered and mixed together, and proceed in the same manner as in the foregoing process.

in the foregoing process.

The nitre might here be diminished to one fourth its weight, and the tartar to half that quantity. The pieces of iron may be small nails; the filings of the metal, lying closer together, are not so readily acted upon by the antimony.

REGULUS ANTIMONII STELLATUS. STELLATED REGULUS OF ANTIMONY. Edinb.

This is made by melting the martial regulus feveral times with fresh nitre and tartar.

The fimple regulus of antimony is more readily made to exhibit a starry appearance on its furface, than the martial; which it will alfo do by one, as well as by any number of fusions: the phænomenon entirely depends upon the regulus being pure, brought into extreme thin-fusion, and cooled flowly in the cone, without flaking or moving it. If the martial regulus is employed, it is convenient to add fome fresh antimony (about one fourth the weight of the regulus) to absorb such part of the iron · as may be retained in it: when the whole is in perfect fusion, inject, at times, about one eighth of nitre, or fixt alcaline falt, previoufly dried, and made very hot.

The three foregoing reguli are at present rarely, if ever, made use of in medicine: the emetic cups, and perpetual pills, formerly made from them, have long been laid aside as precarious and unsafe. The scoriæ, produced in the several processes, afford medicines less violent, some of which are in considerable esteem. These scoriæ consist of the sulphur of the antimony united with an alcaline salt, and a part of the regulus taken up by this compound, and rendered soluble in water.

SULPHUR AURATUM
ANTIMONII.
GOLDEN SULPHUR OF
ANTIMONY.
Edinb.

Let the scoriæ of regulus of antimony be reduced into powder, whilst warm, and then boiled for a considerable time in thrice their quantity of water. Filter the yellowish red solution, and drop into it a proper quantity of spirit of vitriol: a powder will precipitate, which is to be washed with water, till perfectly edulcorated and freed from its ill smell.

SULPHUR ANTIMONII
PRÆCIPITATUM.
PRECIPITATED SULPHUR OF
ANTIMONY.

Lond.

Take of Antimony, fixte

Antimony, fixteen ounces, Tartar, a pound, Nitre, half a pound.

Let these be reduced separately into powder, then mixed, thrown by degrees into a red hot crucible, and melted with a strong fire. Pour out the matter into a conical mould; the metallic part, commonly called regulus of antimony, will sink to the bottom,

bottom, the scoriæ swimming above it. Dissolve these scoriæ in water, silter the solution thro' paper, and precipitate the sulphur by dropping in some spirit of sea salt: lastly, wash the sulphur from the salts, and dry it for use.

These preparations are not firictly fulphurs: they contain a confiderable quantity of the metallic part of the antimony, which is reducible from them by proper fluxes. That made by the first of the above processes contains greatest part of the femimetal; for as we have already feen, very little, fometimes fcarce any at all, separates in the fusion. The quantity of regulus taken up in the fecond also will be different, according to the degree of fire employed, and the length of time that the fusion is continued. These medicines, therefore, must needs be liable to great variation in point of strength, and in this respect there is not perhaps any of the antimonials more precarious; notwithstanding the affertion in the last edition of this work, that they are the most certain of them.

These preparations prove emetic when taken on an empty flomach, in a dose of four, five, or fix grains; but in the present practice, they are scarce ever prescribed in this intention; being chiefly used as alterative deobstruents, particularly in cutaneous diforders. Their emetic quality is easily blunted by making them up into pills with refins or extracts, and giving them on a full flomach: with thefe cautions, they have been increased to the rate of fixteen grains a day, and continued for a confiderable time, without occasioning any diflurbance upwards or downwards. As their strength is precarious, they should be exhibited at first in very fmall doses, and increased by degrees according to their effect.

A composition of the sulphur auratum, with mercurius dulcis, has been found a powerful, yet safe, alterative in cutaneous diforders : and has completed a cure after falivation had failed: in venereal cases likewife, this medicine has produced excellent effects. A mixture of equal parts of the fulphur and calomel (well triturated together, and made into pills with extracts, &c.) may be taken from four to eight or ten grains, morning and night; the patient keeping moderately warm, and drinking after each dose, a draught of a decoction of the woods, or other like liquors. This medicine generally promotes perspiration, scarce occasioning any tendency to vomit or purge, or at all affecting the mouth. See the Edinburgh effays, vol. i. and the Acta natur. curiof. vol. v.

KERMES MINERALIS. KERMES MINERAL.

Take of

Antimony, fixteen ounces;
Any fixt alcaline falt, four ounces;

Water, one pint.

Boil them together for two hours, then filter the warm liquor; as it cools, the kermes will precipitate. Pour off the water, and add to it three ounces of fresh alcaline falt, and a pint more of water: in this liquor boil the remaining antimony as before: and repeat the process a third time, with the addition of only two ounces of alcaline falt, and another pint of water; filtering the liquor as at first, and collecting the powders which subside from them in cooling.

This medicine has of late been greatly efteemed in some places,

under

under the names Kermes mineral, hundred small pills; of which one, pulvis Carthufianus, poudre des Char-treaux, &c. It was originally a preparation of Glauber, and for fome time kept a great fecret, till at length the French king purchafed the preparation from M. de la Ligerie, for a confiderable fum, and communicated it to the public in the year 1720. In virtue it is not different from the fulphurs abovementioned; all of them owe their efficacy to a part of the regulus of the antimony, which the alcaline falt, by the mediation of the fulphur, renders foluble in water.

PANACEA ANTIMONII. PANACEA OF ANTIMONY. Take of

Antimony, fix ounces: Nitre, two ounces: Common falt, an ounce and a half;

Charcoal, an ounce. Reduce them into a fine powder, and put the mixture into a red hot crucible, by half a spoonful at a time, continuing the fire a quarter of an hour after the last injection: then either pour the matter into a cone, or let it cool in the crucible, which when cold must be broke to get it out. In the bottom will be found a quantity of regulus; above this, a compact liver - coloured fubflance; and on the top, a more fpongy mais: this last is to be reduced into powder, edulcorated with water, and dried, when it appears of a fine golden

This is supposed to be the basis of LOCKYER'S PILLS,

two, or three, taken at a time. are faid to work gently by flool and vomit. The compact livercoloured substance, which lies immediately above the regulus, operates more churlishly.

> VITRUM ANTIMONII. GLASS OF ANTIMONY. Edinb.

Take of

Antimony reduced to powder. one pound.

Calcine it over a gentle fire, in an unglazed earthen veffel, keeping it continually flirring with an iron spatula, until the fumes cease, and the antimony is reduced into a grey powder. Melt this powder in a crucible, with an intense fire, and pour out the liquid matter upon an heated copper plate.

The calcination of antimony, to fit it for making a transparent glass, succeeds very slowly, unless the operator be very wary and circumfpect in the management of it. The most convenient vessel is a broad shallow dish, or a smooth flat tile, placed under a chimney. The antimony should be the purer fort, fuch as is usually found at the apex of the cones: this, grossly powdered, is to be evenly spread over the bottom of the pan, fo as not to lye above a quarter of an inch thick on any part. The fire should be at first no greater than is just fufficient to raise a fume from the antimony, which is to be now and then flirred: when the fumes begin to decay, increase the heat. taking care not to raife it fo high which was formerly a celebrated as to melt the antimony, or run purge. Ten grains of the powder, the powder into lumps: after fome mixed with an ounce of white time the vessel may be made red fugar candy, and made up into a hot, and kept in this ftate, until mass with mucilage of gum traga- the matter will not, upon being canth, may be divided into an stirred, any longer sume. If this

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part of the process be duly conducted, the antimony will appear in an uniform powder, without any lumps, and of a grey colour.

With this powder, fill two thirds of a crucible, which is to be covered with a tile, and placed in a wind furnace. Gradually increase the fire, till the calx is in perfect fusion, when it is to be now and then examined by dipping a clean iron wire into it: if the matter, which adheres to the end of the wire, appear fmooth and equally transparent, the vitrification is completed and the glass may be poured out from an hot smooth stone, or copper plate, and fuffered to cool by flow degrees, to prevent its cracking and flying in pieces.

The glass of antimony usually met with in the shops, is faid to be prepared with certain additions; which may perhaps render it not fo fit for the purposes here defigned. By the method above directed, it may be eafily made, in the requifite perfection, without any addition.

The calcined antimony is faid by Boerhaave to be violently emetic; but this does not appear from experience, and feems to have been an over hally conclusion from the known qualities of the glafs, which is extremely virulent, infomuch as to be unfafe for internal use : combined with wax or refins, it becomes mild.

> VITRUM ANTIMONII CERATUM. CERATED GLASS OF ANTIMONY. Edinb.

Take of Yellow wax, a dram; powder, an ounce.

Melt the wax in an iron veffel, and der being every time exquifitely

glass: detain the mixture over a gentle fire for half an hour, keeping it continually flirring; then pour it out upon a paper, and when cold, grind it into powder.

The glass melts in the wax, with a very foft heat: after it has been about twenty minutes on the fire, it begins to change its colour, and in ten more, comes near to that of Scotch fnuff, which is a mark of its being sufficiently prepared: the quantity fet down above, loses about one dram of its weight, in the process.

This medicine has for fome time been greatly effected in dyfenteries: several examples of its good effects in these cases, may be seen in the fifth volume of the Ebinburgh effays, from which the above remarks on the preparation are taken. The dose is from two or three grains to twenty, according to the age and strength of the patient. In its operation, it makes fome persons sick and vomit; it purges almost every one; though it has fometimes effected a cure, without occasioning any evacuation or fickness.

Mr. Geoffroy gives two pretty fingular preparations of glass of antimony, which feem to have force affinity with this. One is made by digefling the glafs, most subtilely levigated, with a folution of mastich made in spirit of wine, for three or four days, now and then shaking the mixture; and at last evaporating the spirit, so as to leave the mastich and glass exactly mingled. Glass of antimony thus prepared, does not prove emetic, but acts merely as a cathartic, and that not of the violent kind.

The other preparation is made Glass of antimony, reduced into by burning spirit of wine upon the glass three or four times, the powinject upon it the powdered rubbed upon a marble. The dose Chap. 10.

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ely ofe 20 Metallic Preparations.

353 BUTYRUM ANTIMONII. BUTTER OF ANTIMONY. Edinb.

of this medicine is from ten grains to twenty or thirty: it operates mildly both upwards and downwards, and fometimes proves fudo-

ANTIMONIUM CATHARTICUM. THE PURGING ANTIMONY

of Willon. Take four ounces of glass of antimony, finely powdered, and gradually pour thereon twelve ounces of oil of vitriol; diffil in a fand heat; and wash the powder, which remains in the bottom of the retort, till all its acrimony is loft: then dry it, and grind it with an equal weight of Glauber's cathartic falt, and a double quantity of vitriolated nitre. Let this mixture be kept a quarter of an hour in gentle fusion, in a crucible; and afterwards pulverized, washed, and dried for use.

Mr. Wilfon, the inventor of this preparation, informs us, that it is the most certain antimonial purge he ever met with; that it operates without nauseating the stomach; and that by the ute of this powder only, he knew three confirmed poxes cured. His dose is from two grains to ten.

CAUSTICUM ANTIMOMIALE. THE ANTIMONIAL CAUSTIC.

Take of

Crude antimony, one pound; Corrofive mercury fublimate, two pounds.

Reduce them feparately into powder; then mix, and distil them necessary. in a wide-necked retort, with a

Take

Crude antimony, Corrofive mercury fublimate, of

each equal parts.

Grind them first separately, then throughly mix them together, taking the utmost care to avoid the vapours. Put the mixture into a coated glass retort (having a short wide neck) so as to fill one half of it: the retort being placed in a fand furnace, and a receiver adapted to it, give first a gentle heat, that only a dewy vapour may arife: the fire being then increased, an oily liquor will afcend, and congeal in the neck of the retort, appearing like ice, which is to be melted down by a live coal cautiously applied. This oily matter is to be rectified in a glass retort, into a pellucid liquor.

These processes are extremely dangerous, infomuch that even the life of the operator, though tolerably versed in common pharmacy. may be affected for want of taking due care herein. Boerhaave relates that one, who from the title he gives him, is not to be supposed inexpert in chemical operations, or unacquainted with the danger attending this, was fuffocated for want of proper care to prevent the burfting of the retort. The fumes which arife even upon mixing the antimony, with the fublimate, are highly noxious, and fometimes iffue fo copiously and fuddenly, as very difficultly to be avoided. utmost circumspection therefore is

The caustic, or butter as it is gentle fand heat. The matter, called, appears to be a folution of which arises into the neck of the the metallic part of the antimony retort, is to be exposed to the in the marine acid of the subliair, that it may run into a liquor. mate; the fulphur of the antimony,

and the mercury of the fublimate, remain at the bottom of the retort, united into an ethiops. This folution does not fucceed with spirit of falt in its liquid state; and cannot be effected unless (as in the case of making sublimate) the acid is highly concentrated, and both the ingredients violently heated. If regulus of antimony was added in the distillation of spirit of sea salt, a like solution would be made.

When the congealed matter that arifes into the neck of the retort, is liquefied by the moisture of the air, it proves less corrofive than when melted down and rectified by heat; though it feems, in either cafe, to be fufficiently flrong for the purpofes it is intended for. It is remarkable, that though this faline concrete, readily and entirely diffolves by the humidity of the air, it nevertheless will not disfolve on putting water to it directly: even when previously liquefied by the air, the addition of water will precipitate the folution.

CINNABARIS ANTIMONII. CINNABAR OF ANTIMONY. Lond.

Let the matter, which remains in the retort after the diffillation of the caustic, be sublimed in a coated matras, in an open sire.

Edinb.

As foon as red vapours begin to appear, in the distillation of the butter, change the receiver, without luting the junctures; and increase the fire until the retort becomes intensely red hot: in an hour or two, the whole of the black powder will be sublimed, and its colour changed into red. Then break the retort, and diligently separate the cinnabar, which will be found in the neck, from the black drossy-matter.

The cinnabar of antimony is composed of the fulphur of the antimony, and the mercury of the fublimate, which are perfectly the fame with the common brimftone and quickfilver, of which the cinnabaris factitia is made. The antimonial cinnabar therefore, whose ingredients are laboriously extracted from other fubstances, is not different from the common cinnabar, made with the fame materials procured at a much cheaper rate. The former indeed is generally of a darker colour than the other, and has somewhat of a needled appearance like that of antimony itself; from whence it has been supposed to participate of the metallic part of that mineral. But it appears from experiment; that both the colour and needled form are entirely accidental, and owing to the mixt containing a larger proportion of fulphur, and being fublimed in a more languid manner.

MERCURIUS VITÆ. MERCURY OF LIFE. Edinb.

Take of

Rectified butter of antimony, as much as you please:

Pour to it a fufficient quantity of fpring water, and an exceeding white powder will be precipitated: edulcorate this by repeated affusions of warm water, and dry it by a flow fire.

This powder has not, as its name should seem to imply, any thing of mercury in its but is solely composed of the reguline part of the antimony, corroded by the acid spirit of sea salt; which acid is so closely united, as not to be separable by any ablution with water. Le Mort directs some alcaline salt to be dissolved in the water, in order to obtund the acid: seeveral other methods also have been

contrived for correcting and abating the force of this violent emetic; but they either leave it fill virulent, or render it inert.

BEZOARDICUM MINERALE. BEZOAR MINERAL. Edinb.

Take any quantity of butter of antimony newly rectified, and gras dually drop into it spirit of nitre, till the effervescence ceases. Draw off the spirit in a glass vessel, placed in a fand heat, till a dry powder remains behind: add to this a little fresh spirit of nitre, and again exficcate it. Repeat this a third time : then commit the powder in a crucible to a naked fire, till it has received an almost white heat, and detain it in this state for half an hour.

This preparation may be easier made, and with greater fafety to the operator, by dropping the butter of antimony into three or four times its weight of spirit of nitre, and distilling the mixture in a re-tort, until a dry white mass is left behind, which is afterwards to be calcined, as above directed. It may likewife be made by diffilling fpirit of nitre from the mercurius vita, and calcining the remainder; or by deflagrating the mercurius vitæ with thrice its weight of pure nitre. This last method, proposed by G. Wolfig. Wedelius, is followed by the Augustan college.

Bezoar mineral was formerly held in great effeem as a diaphereric; but its reputation is at prefent almost lost. It is not different in medical virtue, or in any fentible quality, from the calces of antimony made directly by deflagra-

rendered indolent by the corrofive fpirit of nitre: how this happens will be eafily understood, upon confidering that the nitrous acid expels the marine (to which the caustic quality of the butter is owing) and is itself expelled from most metallic fubstances by fire.

TARTARUM EMETICUM. EMETIC TARTAR.

Lond.

Take of

Washed crocus of antimony, Cryftals of tartar, each half a pound.

Water, three pints.

Boil them together for half an hour; then filter the liquor, and after due evaporation, fet it by to crystallize.

Edinb.

Take of

Cream of tartar, four ounces: Glass of antimony powdered, two

Boil them together in four pints of water, for ten hours, flirring them frequently with a spatula, and adding more water as there is occasion. Filter the liquor whilst warm; and evaporate it, either to drynefs, or only till a pellicle forms, that it may shoot into crystals.

This preparation has been ufually made with the unwashed crocus of antimony: by employing, as here directed, the washed crocus, or the glass, it proves of a whiter colour. and likewife more certain in ftrength; though it will fill be fomewhat precarious in this laft respect, if the crystallization is complied with: for fome of the tartar, even though the operation tion with nitre, fome of which have is performed with a good deal of generally supplied its place in the care, will be apt to shoot by itself. shops. It appears at first pretty retaining little or nothing of the extraordinary, that the violent cau- crocus. It should feem therefore Ric, butter of antimony, should be more eligible, as soon as the solu-

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to the total evaporation of the liquor, or at leaft to evaporate lower than is usual for crystallization, that the whole may shoot at once.

The title of this medicine exprefies its principal operation. It is one of the best of the antimonial emetics, acting more powerfully than the quantity of crocus contained in it would do by itself, though it does not fo much ruffle the constitution. And indeed antimonials in general, when thus rendered foluble by vegetable acids, are more fafe and certain in their effects, than the violent preparations of that mineral exhibited by themfelves; the former never varying in their action from a difference in the

tion has paffed the filter, to proceed food taken during their ufe, or other like circumstances, which occafioning more or lefs of the others to be dissolved, make them operate with different degrees of force. Thus crude antimony, where acid food has been liberally taken, has fometimes proved violently emetic: whilft, in other circumstances, it has no fuch effect.

The dose of emetic tartar, when defigned to produce the full effect of an emetic, is from four to fix or eight grains. It may likewife be advantageously given in smaller doses, half a grain for instance, as a diaphoretic and alterative in cutaneous diforders; and added, in the quantity of a grain, as a stimulus to vegetable cathartics.

SECT. IX.

PREPARATIONS of BISMUTH.

THIS femimetal refembles in appearance the regulus of antimony; but differs greatly from it, in its pharmaceutical properties and medical qualities. It melts in a very small heat, long before ignition; and totally diffolves, with great effervescence, in aqua fortis, which only corrodes the antimonial femimetal. As a medicine, it feems, when pure, to have little or no effect; though some preparations of it were formerly accounted diaphoretic. At present, only one preparation comes under the notice of the apothecary or chemist; and that designed for external use.

MAGISTERIUM BISMUTHI. MAGISTERY OF BISMUTH.

Diffolve bifmuth in a proper quantity of aqua fortis, without heat,

adding the bismuth by little and little at a time. Pour the folution into fixteen times its quantity of fair water; it will grow milky, and on standing for some time, deposite a bright white precipitate: the addition of fpirit of wine will expedite the precipitation. Wash the powder in fresh parcels of water; and dry it in a shady place betwixt two

papers.

This preparation is of fome esteem as a cosmetic, which is the only use it is now applied to. The diaphoretic virtues, attributed to it when taken internally, have very little foundation, and by the prefent practice are not at all regarded. It was proposed to be received in our pharmacopœia at the late revifal, but was found much too infignificant to be admitted there.

SECT.

SECT. X.

PREPARATIONS of ZINC.

THIS femimetal melts in a fed heat; and if the air is admitted, flames, and sublimes into light, white, downy flowers; if the air is excluded, it arises, by a strong fire, in its metallic form. Sulphur, which unites with, or fcorifies all the other metals except gold, does not act on zinc. Acids of every kind dissolve it.

Zinc, its flowers or calces, and folutions, taken internally, prove ftrong and quick emetics; in small doses, they are faid to be diaphoretic. Externally, they are cooling, astringent, and desiccative.

PURIFICATIO ZINCI. PURIFICATION OF ZINC.

Melt zinc, with a heat no greater than is just sufficient to keep it sluid. Stir it strongly with an iron rod, and throw in alternately pieces of sulphur and of tallow, the first in largest quantity. If any confistent matter, or scoriæ, forms on the top, take it off, and continue the process, until the sulphur is found to burn freely and totally away on the surface of the sluid zinc.

Zinc usually contains a portion of lead, which this process effectually separates. Sulphur united with lead forms a mass, which does not melt in any degree of fire that zinc is capable of sultaining.

FLORES ZINCI. FLOWERS OF ZINC.

Let a large and very deep érucible, or other deep earthen vessel, be placed in a furnace, in an inclined fituation, only half upright. Put a small quantity of zinc into the bottom of the vessel, and apply a moderate fire, no greater than is necessary to make the zinc slame: white slowers will arise, and adhere about the sides of the vessel, like wool. When the zinc ceases to slame, fir it with an iron rod, and continue this operation till the whole is sublimed.

These slowers should feem preferable, for medicinal purposes, to tutty, and the more impure sublimates of zinc, which are obtained in the brass works; and likewise to calamine the natural ore of this femimetal, which contains a large quantity of earth, and frequently a portion of heterogeneous metallic matter.

SAL feu VITRIOLUM ZINCI.

SALT or VITRIOL OF ZINC.
Dissolve purised zinc, by a gentle heat of sand, in a mixture of equal parts of oil of vitriol and water. Filter the solution, and after due evaporation, set it to crystallize.

This falt is an elegant white vitriol. It differs from the common white vitriol, and the fal vitrioli of the shops, only in being purer, and perfectly free from any admixture of copper, or such other foreign metallic bodies, as the others generally contain.

A a 3

SECT

SECT. XI.

COMPOUND METALLIC PREPARATIONS.

THE MEDICAMENTOSUS.

THE MEDICINAL STONE.

Lond.

Take of
Litharge,
Bole armenic, or French bole,
Alum, each half a pound;
Colcothar of green vitriol, three
ounces;
Vinegar, a quarter of a pint.

Mix, and exficcate them till they grow hard.

Edinb.

Take of
Colcothar of vitrio!,
Litharge of gold,
Bole armenic,
Alum, each equal parts;
Strong vinegar, as much as will
cover them to the height of
four inches

Digest these ingredients together, for four days, in an earthen pan; then set them over the fire, that all the humidity may evaporate; after which, calcine the semaining mass with a strong heat.

This preparation is employed externally as an aftringent, for fastening loose teeth, preserving the gums, healing and drying up uleers and wounds, and repressing defluxions of thin acrid humours upon the eyes. It is sometimes used in injections for checking a gonorrhoea, after the virulence is expelled. A preparation much resembling this is said, in the memoirs of the French academy, to be greatly esteemed among the surgeons in the army as a vulnerary.

SPECIFICUM ADSTRINGENS MAETZII.

An astringent preparation taken from Maetz; which has been fold under the name of

COLBATCH'S STYPTIC POWDER.

Take of Sugar of lead

Iron filings, as much as you please;

Spirit of falt, as much as will rife above the filings three or four inches.

Digest them together with a gentle heat, till the spirit ceases to act on the metal; then pour off the liquor, evaporate it to one half, and add thereto an equal weight of sugar of lead. Continue the evaporation, with a small heat, until the matter remains dry, and assumes a red colour.

If the process is slopt as soon as it becomes dry, it has exactly the appearance of Colbatch's powder. It must be kept close from the air, otherwise it deliquiates.

This is faid to be the flyptic, with which fo much noise was made some time ago, by the author of the novum lumen chirurgiæ; and for the fale of which, a patent was procured; only in that was used oil of vitriol, instead of the spirit of salt in this, a difference not very material. The prepation stands recommended in all kinds of hemorrhagies and immoderate fluxes, both internally and externally: the dofe is from four grains to twelve. It is undoubtedly an efficacious flyptic, but for internal use a dangerous one. See the article LEAD, and its preparalions.

ANTI-

ANTIHECTICUM POTERII.

POTERIUS's ANTIHECTIC.

Edinb.

Take of Martial regulus of antimony, fix

Fine tin, three ounces.

Melt these together in a crucible; then pour them out into a warm greafed mortar, and when the mass is grown cold, grind it into a powder. Add to this thrice its weight of pure nitre, and deflagrate the mixture in a crucible, throwing in only a fpoonful at a time; then calcine it [that is, keep it in fusion] for an hour; and having afterwards ground it into an impalpable powder, pour thereon a fufficient quantity of warm water flir them well together with a peffle, till the water grows milky, which thus loaded with the finer parts of the powder, is to be poured off, and fresh water put to the remainder: repeat this operation, till nothing but indiffoluble feces remains behind. Suffer all the milky liquors to rest; a powder will fall to the bottom, which is to be washed with repeated affusions of warm water, and laftly dried for use.

The regulus of antimony should be melted before the tin is added to it; for if they are both put into the crucible together, a part of the tin will be dislipated by the heat requisite for the fusion of the

regulus.

The chemists have been greatly divided with regard to the proportion which these two ingredients ought to bear to one another. Some vary so much from the above prescription, as to order two parts of the antimonial regulus to one of tin; others, no more than one part of the former to six of the latter, Nor have they agreed up-

on the colour which this preparation ought to have; some preferring that which is perfectly white; whilft others look upon a bluish tinge as a mark of the proportions having been duly observed, and the operation regularly performed: in the process above, it seems intended to be white; for without the observance of certain encheireses, not there mentioned, as particularly calcining the powder after the ablution, it will scarce have any thing of a bluish cast.

Practical physicians do not differ less in the accounts which they give of the virtues of this celebrated medicine. Some extol it as an excellent diaphoretic, &c. others are ready to vouch, that it has done most eminent service in hectical cases; whilst many, of no fmall note, are not only confident that it has none of the virtues attributed to it, but utterly condemn it as unfafe, and capable of producing the very diforders faid to be remedied by its use. This affair probably will not be fatisfactorily determined, till the virtues of calx of tin and calx of antimony (which this medicine is a mixture of) shall be better afcertained than they are at prefent. In the mean time, the use of the antihectic is in common practice laid afide; and is not likely to be ever introduced again.

BEZOARDICUM JOVIALE.

BEZOAR with TIN.

Edinb.

Take of
Regulus of antimony, three
ounces;
Pure tin, two ounces;

Corrofive fublimate mercury, five

Melt the regulus of antimony in a crucible, and put to it the tin, fo as to make a new regulus; to A a 4 which,

which, after being levigated, add the corrofive sublimate, and distil the mixture in a retort. Let the butter which arises in this process, be fixed by three repeated distillations with thrice its own quantity of spirit of nitre. The powder is then to be calcined; thrown, whilst ignited, into a proper quantity of spirit of wine; and afterwards dried for use.

This preparation is not greatly different from the foregoing. The butter feems to contain more of the tin, than of the antimonial regulus, united with the marine acid of the fublimate: the nitrous fpirit expels the marine, and is itself afterwards expelled in the calcination; leaving the powder a mere calx, fimilar to one prepared from the fame ingredients in a less troublesome manner, either by fire alone, or by deflagration with nitre.

ÆTHIOPS ANTIMONIALIS. ANTIMONIAL ETHIOPS.

Let equal quantities of antimony and fea falt be fluxed together in a crucible for an hour; when grown cold, a regulus, (improperly fo called) will be found in the bottom; which is to be feparated from the fcoriæ that lie above it, and ground with an equal weight of purified quickfilver, until they are united.

This medicine is faid to be of remarkable efficacy in venereal cases of long standing, in cancerous tumours, fcorbutic and fcrophulous diforders, obstinate glandular obstructions, and fundry other chronical distempers which elude the force of the common medicines. A few grains may be given at first; and the dose gradually increafed, according to its operation, to a scruple or more. It acts chiefly by promoting perspiration: in some conflitutions, it proves purgative; and in others, if the dofe is confiderable, emetic.

Sundry other preparations of this kind have of late been held by fome people in confiderable effect, though not taken notice of by common practice. They have been generally composed of mercury united by triture either with crude antimony, the medicinal regulus, or the golden or precipitated fulphur.



CHAP.

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CHAPTER XI.

AQUE SIMPLICES STILLATITIE.

SIMPLE DISTILLED WATERS.

ATER, diffilled over from certain plants, &c. by a boiling heat, becomes more or lefs impregnated with their flavour and virtue. The diffillation is performed in the fame kind of inftruments as that of effential oils already fpoken of (chap. vii.) and the diffilled liquor owes the qualities it acquires, to a portion of the oil of the fubject elevated and mingled with it

The virtues, capable of arifing in this process, are those only which consist in warmth, pungency, and smell or slavour; and hence such substances as are eminently endued with these, are the proper subjects for distilled waters to be drawn from; such are, spices, warm feeds and berries, fragrant herbs, flowers, and fruits, and some of the actid plants. Cathartic, emetic, astringent, bitter, sweet, cooling, emollient, nutritious qualities, are in vain expected to come over the helm.

Some vegetable matters, even of the more odoriferous kind, undergo fuch an alteration from the aqueous medium, and the degree of heat necessary in this operation: that though the subject loses all its fragrance, yet the distilled liquor has little or nothing of it, but proves both in smell and taste disagreeable.

In order to collect the volatile

virtues of these kinds of vegetables. the chemists have contrived another process; which Boerhaave seems particularly fond of. The subject is included in proper veffels, without any additional matter, and exposed to a heat no greater than that of the fummer's fun: the vapour, which arises in this degree of warmth, and condenses in the receiver, is supposed to contain the more fragrant, fubtile and aromatic parts of the plant; and to be in reality, the effluvia that would exhale from it in the open air caught and collected by the means of art.

This process however, is, upon trial, found defective; the liquors obtained by it proving greatly different in fmell from the natural effluvia of the fubject. And indeed the principle, it is founded upon, appears to be erroneous: it is not the fun's heat alone, that raifes, and impregnates the air with, the odorous effluvia of vegetables; this fluid itself, as a menstruum, dif-folves and imbibes them. Tis when the air is humid, not when it is warmest, that odoriferous herbs and flowers diffuse their fragrance : exficcated in a warm dry air, they in good measure retain the flavour which an humid one, tho' cool, would totally rob them of.

The natural effluvia of vegetables therefore, which may be looked upon as an infusion of them

made in air, may have very different effects from those parts of them which are capable of being elevated in distillation. Thus, though the effluvia of poppies should procure fleep or bring on lethargic diforders, and those of the walnut tree bind the belly, (as they are reported to do) it is not to be expected that their distilled waters should do the like. Lemery relates, from his own knowledge, that feveral perfons were purged, by flaying long in a room where damask roses were drying; an effect daily experienenced from aqueous infusions of these flowers, but never from their distilled water.

Many have been of opinion, that diffilled waters may be more and more impregnated with the virtues of the subject, and their strength increased, to any assigned degree, by cobobation, that is, by redistil-

ling them a number of times from fresh parcels of the plant. Experience however, shews the contrary; a water skilfully drawn in the first dillation, proves on every repeated one, not stronger, but more difagreeable. Aqueous liquors are not capable of imbibing above a certain quantity of the volatile oil of vegetables, and this they may be made to take up by one, as well as by any number of diffillations: the oftener the process is repeated, the ungrateful impression which they generally receive from the fire even at the first time, becomes greater and greater. Those plants which do not yield at first waters fufficiently ftrong, are not proper subjects for this process. fince their virtues may be obtained much more advantageously by o-

General rules for the distillation of the officinal simple waters.

T

Plants and their parts ought to be fresh gathered. [E.]

Where they are directed fresh, fuch only must be employed; but some are allowed to be used dry, as being easily procurable in this state at all times of the year, though rather more elegant waters might be obtained from them whilst green. [L.]

Many pharmaceutical writers direct all the plants defigned for the diffillation of fimple waters, to be previously dried. Such are indisputably most proper where the effential oil is required by itself; but not when it is wanted to be combined with an aqueous fluid. In green herbs, the oil is already blended with a fluid of this kind; as the subject dries, it separates, and concretes diffinct.

II.

Having bruifed the subject a little, pour thereon thrice its quantity of spring water: this quantity is to be diminished or increased, according as the plants are more or less juicy than ordinary. [E.]

When fresh and juicy herbs are to be distilled, thrice their weight of water will be fully sufficient: but dry ones require a much larger quantity. In general, there should be so much water, that after all intended to be distilled has come over, there may be liquor enough left to prevent the matter from burning to the still.

III.

The diffillation may be performed in an alembic with a refrigeratory, the junctures being luted, [E.]

The

The heat should be sufficient to make the water boil, and the liquor distil in an almost continued stream. If it is considerably greater, the liquor will be apt to boil over, and the herb to be thrown up into the head, so as to foul or block up the worm; if weaker, the virtue of the plant will be imperfectly elevated.

IV.

The diffillation is to be continued as long as the water which comes over is perceived to have any fmell or tafte of the plant [E,]

Plants differ so much according to the soil and season of which they are the produce, and fikewise according to their own age, that it is impossible to fix the quantity of water to be drawn from a certain weight of them, to any invariable standard. The distillation may always be continued as long as the liquor runs well flavoured of the subject; and no longer.

If the herbs are of prime goodness, they must be taken in the weights prescribed. But when fresh ones are substituted to dry, or when the plants themselves are the produce of unfavourable seasons, and weaker than ordinary, the quantities are to be varied according to the discretion of the artist. (L.)

After the odorous water, alone intended for use, has come over, an acidulous liquor arises, which has sometimes extracted so much from the copper head of the still, as to prove emetic. To this are owing the anthelmintic virtues attributed to certain distilled waters,

V

Those plants which abound with an aromatic fragrant oil, should be committed immediately to distillation. But such as contain a

more fixt oil, or owe part of their virtues to a faline matter though volatile, ought first to undergo an imperfect fermentation, with the addition of yeast; that is, they should be distilled as foon as the fermentatian is begun, without staying till it is finished [E.]

The principle, upon which certain vegetable substances are directed to be slightly fermented, is certainly just: for the fermentation somewhat opens and unlocks their texture, so as to make them part with more in the subsequent distillation, than could be drawn over from them without some affistance of this kind. Those plants, however, which require this treatment, are not proper subjects for simple waters to be drawn from; their virtues being obtainable to better advantage by other processes.

VI

If any drops of oil fwim on the furface of the water, they are to be carefully taken off. [E.]

VII.

That the waters may keep the better, about one twentieth part their weight of proof spirit, may be added to each, after they are distilled. [L.]

With regard to the general virtues of these preparations, they have been supposed by some to possess those of the simples which they are distilled from, entire. This rule indeed may in some cases obtain; but most of the waters which have been usually kept in the shops, are exceptions to it. The greatest number of them are at pesent considered only as agreeable diluters, or as vehicles for medicines of greater efficacy; very sew are depended on, in any intentions of consequence, by themselves.

AQUA

AQUA ALEXETERIA SIMPLEX. SIMPLE ALEXETERIAL WATER.

Take of

Spearmint leaves, fresh, a pound and a half; Sea wormwood tops, fresh;

Angelica leaves, fresh, each one pound;

Water, as much as is sufficient to prevent an empyreuma.

Draw off by distillation three gallons.

Edinb.

Take of

Elder flowers,
Scordium leaves, each two
pounds;
Angelica leaves

Balm, Spearmint,

Rue, each half a pound; Water, three gallons.

Let the water be poured on the other ingredients, fresh gathered; and distil according to art.

These waters, particularly the first, are sufficiently elegant with regard to taste and smell; though few expect from them such virtues as their title seems to imply. They are used occasionally for vehicles of alexipharmac medicines, or in juleps to be drank after them, as coinciding with the intention; but in general are not supposed to be themselves of any considerably efficacy.

AQUA SEMINUM ANETHI. DILL SEED WATER.

Lond.

Take of

Dill feeds, a pound and a half; Water, as much as is sufficient to prevent an empyreuma.

Draw off by distillation one gallon.
This water, which turns out pretty strong of the dill feeds, is some-

times employed as the basis of carminative juleps. It is similar in flavour to a water drawn from caraway feeds, but less agreeable.

AQUA ANGELICÆ. ANGELICA WATER. Edinb.

Take of

Angelica leaves, fresh, any quantity; Water, three times as much.

Water, three times as much.

Diffil as long as the liquor runs well
flavoured of the plant.

This water is among us very rarely made use of. It imells and tastes considerably of the angelica, but does not prove so agreeable as might be expected.

AQUA ARTEMISIÆ. MUGWORT WATER, Edinb.

Take of

Mugwort leaves, fresh, as much as you please;

Water, a sufficient quantity; Yeast, a little.

Let them stand together in a warm place, till they begin to ferment; and then distil according to art.

Mugwort water has been held by many in great effeem as an uterine; but the herb itself has little title to that class, and the distilled water less. It is at present scarce ever called for, or kept in the shops.

AQUA CORTICUM AURANTIORUM SIMPLEX. SIMPLE ORANGE PEEL WATER.

Lond.

Take of Yellow peel of Seville oranges, dried, four ounces;

Water, as much is fufficient to prevent burning.

Distil off one gallon.

This water proves very weak of the orange peel. It is defigned for a dia diluter, in fevers, and other diforders where the stomach and palate are subject to receive quick difgust; in which cases (as the committee observe) cordial waters, espetinued, ought to be but lightly impregnated with any flavour however agreeable.

"AQUA CARDUI BENEDICTI. CARDUUS WATER. Edinb.

This is prepared from the leaves of carduus benedictus, after the fame manner as the aqua arte-

milia. This water has been looked upon as a sudorific and alexipharmac; and in this intention is fill frequently prescribed, by foreign phyficians, in juleps and draughts. Among us, it has long been disused, and held entirely infignificant; this plant, however, opened by fermentation, giving nothing valuable o-ver the helm. The decoction, which remains after the distillation, duly depurated and inspissated, proves a medicine of some use: it is a moderately strong bitter, similar to the extract of carduus already spoken of: in keeping, a confiderable quantity of effential falt will fometimes shoot in it.

AOUA CASTOREI. CASTOR WATER.

Lond.

Take of

Russia castor, one ounce;

Water, as much as will prevent burning.

Draw off two pints.

Castor yields almost all its flavour in distillation to water; but treated in the fame manner with fpirit of wine, gives over nothing. fpirit of castor formerly kept in the shops, had none of the smell or virtues of the drug; whilft the

water here directed proves when fresh drawn very strong of it.

It is remarkable, that the virtues of this animal fubiliance refide in a volatile oil, analagous to the effencially if their use is to be long con- viial oils of vegetables: some are reported to have obtained, in diffilling large quantities of the drug, a fmall portion of oil, which fmelt extremely firong of the caftor, and diffused its ungrateful scent to a great distance.

This water is made use of in hysteric cases, and some nervous complaints; though it has not been found to answer what many people expect from it: it loses greatly of its flavour in keeping.

> AOUA CERASORUM NIGRORUM. BLACK CHERRY WATER. Edinb.

Let any quantity of black cherries be bruifed, fo as that the stones may be broken; and then diflilled, according to art, with only a fmall proportion of wa-

This is a very grateful water, and has long maintained a place in the shops. It has frequently been employed by physicians as a vehicle, in preference to the other distilled waters; and among nurses, and others who have the care of young children, has been the first remedy against the convulsive diforders to which children are fo often subject.

This water has nevertheless of late been brought into difrepute, and by fome looked upon as poifonous. They observe, that it receives its flavour principally from the cherry flones; and that thefe kernels, like many others, bear a refemblance in tafte to the leaves of the lauro-cerafus, which have fome time past been discovered to yield, by infusion or distillation,

the most sudden poison known: Some physicians of Worcester have lately found, by trial purposely made, that a dissilled water very strongly impregnated with the slavour of the cherry kernels (no more than two pints being distilled from fourteen pounds of the cherry stones) proved in like manner poisonous to brutes: the committee of the London college repeated the same experiment, and found the effects agreeable to those gentlemens report.

It by no means follows from these trials, nor after such long experience can it be imagined, that black cherry water, when no stronger than the shops have been accustomed to prepare it, is unsafe. These kernels, as the committee observe, plainly resemble opium, and fome other things, which poifon only in too great quantity; the water from the very laurel leaves is harmless when duly diluted; and even spirit of wine proves a poison of a kind not greatly different, if drank to a certain degree of excess. Nor can it be concluded from the trials with the flrong black cherry water on dogs, &c. that even this will have the fame effects in the human body: the kernels of many forts of fruits being, in fubstance, poisonous to brutes, though innocent to man.

It is possible, however, that this water in any degree of strength may not be altogether safe in the tender age of infants, where the principles of life are but just beginning as it were to move: 'tis possible, that it may here have had pernicious effects, without being suspected; the symptoms it would produce, if it should prove hurtful, being such as children are often thrown into from the disease which it is imagined to relieve. On these considerations, the Lon-

don college have chose to lay it aside; especially as it has been too often counterfeited with a water distilled from bitter almonds, which are known to communicate a poifonous quality.

AQUA CINNAMOMI SIMPLEX. SIMPLE GINNAMON WATER.

Take of

Cinnamon, one pound;
Water, as much as will prevent
burning.
Diffil off a gallon.

AQUA CINNAMOMI SINE VINO. CINNAMON WATER WITHOUT WINE. Edinb.

Take of

Cinnamon, one pound;
Water, a gallon and a half.
Steep them together for two days;
and then diffil off the water, till
it ceases to run milky.

This is a very grateful and ufeful water, possessing in an eminent degree the fragrance and aromatic cordial virtues of the spice. Great care should be had, in the choice of the cinnamon, to avoid the too common imposition of casia being substituted in its room: this latter yields a water much less agreeable than that of cinnamon, and whose share that the drugs may be easily distinguished from one another by the marks laid down under the respective articles in the first part.

The virtues of all these waters depend upon their containing a portion of the oil of the subject. The oil of cinnamon is extremely ponderous, and arises more difficultly than that of any of the other vegetable matters from which simple waters are ordered to be drawn.

This

This observation directs us, in the distillation of this water, to make use of a quick fire, and a low vessel. For the same reason, the water does not keep so well as might be wished; the ponderous oil parting from it in time, and falling to the bottom, when the liquor lose its milky hue, its fragrant smell, and aromatic taste. Some recommend a small proportion of sugar to be added, in order to keep the oil united with the water.

AQUA CHAMÆMELI. CHAMEMEL WATER. Edinb.

This it diffilled from chamemel flowers, first slightly fermented, after the same manner as the aqua artemiss.

Chamemel flowers fland little in need of being fermented : they give over, without any fermentation, as much as that process is capable of enabling them to do. In either cafe, the fmell and peculiar flavour of the flowers arife, without any thing of the bitterness; this remaining behind in the decoction : which, if duly depurated and inspissated, yields an extract fimilar to that prepared from the flowers in the common manner. The diffilled water has been used in flatulent cholies, and the like, but is at prefent held in no great esteem.

AQUA FŒNICULI. FENNEL WATER. Lond.

Take of

Sweet fennel feeds, one pound;
Water, as much as is fufficient
to prevent an empyreuma.
Diffil off one gallon.

ylogony Edin

Take of Fennel leaves, fresh, any quantity;

Water, three times as much.

Distil as long as the water runs well flavoured.

The first of these waters is a fufficiently grateful one, and the other is not unpleafant : the leaves should be taken before the plant has run into flower: for after this time, they are much weaker and less agreeable. Some have obferved, that the upper leaves and tops, before the flowers appear, yield a more elegant water, and a remarkably finer effential oil, than the lower ones; and that the oil obtained from the one swims on water, whilft that of the other finks. No part of the herb, however, is equal in flavour to the feeds.

AQUA HYSSOPI. HYSSOP WATER. Edinb.

This is diffilled from the fresh leaves of hyssop, after the same manner as the water of fennel leaves.

Hyffop water has been held by fome in confiderable efteem as an uterine and a pectoral medicine. It is directed in the Edinburgh pharmacopœia, for making up the black bechic troches. Few at prefent expect any fingular virtues from it, nor is it often made use of, or met with in the shops.

AQUA MELISSÆ. BALM WATER. Edinb.

This is prepared by diffilling the green leaves of balm, as in the foregoing process; and afterwards cohobating the diffilled liquor upon fresh quantities of the herb.

Boerhaave has a very high opinion of this water: he fays, he has experienced in himfelf, extraordinary effects from it taken on an empty flomach; that it has fcarce

its

its equal in hypochondriacal and hyfterical cases, the chlorosis, and palpitation of the heart, as often as these diseases proceed from a disorder of the spirits rather than from any collection of morbisic matter.

For our own part, we have already given our opinion with regard to the cohobation of these liquors; and shall here only obferve, that whatever virtues are lodged in balm, they may be much more perfectly and advantageously extracted by cold infusion in aqueous or spirituous menstrua: in this process, the liquor suffers no injury from being returned on fresh parcels of the herb; a few repetitions will load it with the virtues of the fubiect, and render it very rich. (See chap xiii.) The impregnation here is almost unlimited; but in distilled waters, it is far otherwife.

AQUA MENTHÆ. MINT WATER. Edinb.

Take of

Spearmint leaves, fresh, any quantity;

Water, three times as much.

Diffil as long as the liquor which
comes over has any tafte or fmell
of the mint.

AQUA MENTHÆ VULGARIS SIMPLEX.

SIMPLE SPEARMINT WATER.

Take of

Spearmint leaves, dried, a pound and a half;

Water, as much as is fufficient to prevent burning.

Draw off by distillation one gallon.

These waters smell and taste very strong of the mint; and prove in many cases an useful stomachic.

Boerhaave commends them (cohobated) as a present and incompara-

ble remedy, for strengthening a weak stomach, and curing vomiting proceeding from cold viscous phlegm; as also in lienteries.

AQUA MENTHÆ
PIPERITIDIS SIMPLEX.
SIMPLE PEPPER MINT
WATER.
Lond.

Take of

Pepper mint leaves, dry, a pound and a half;

Water, as much as will prevent an empyreuma.

Draw off by distillation one gallon.

This is a very elegant and useful water: it has a warm, pungent taste, exactly resembling that of the pepper mint itself. A spoonful or two, taken at a time, warm the stomach, and give great relief in cold, statulent colics. Some have substituted a plain infusion of the leaves, which is not greatly differ-

AQUA PETROSILINI. PARSLEY WATER. Edinb.

ent from the distilled water.

This is diffilled from the fresh leaves of parsley, after the same manner as the aqua menthe.

This water is fcarce ever called for, or kept in the shops. Parsley yields little virtue in distillation; and the leaves are not the part that yield most. The feeds give a considerable share of slavour, which is not disagreeable.

> AQUA PIPERIS JAMAICENSIS. WATER OF JAMAICA PEPPER.

Lond.

Take of

Jamaica pepper, half a pound; Water, as much as will prevent bourning.

Distil off one gallon,

This

This is the only officinal preparation, in which Jamaica pepper is an ingredient. The distilled water is a very elegant one, and has of late come pretty much into use: the hospitals employ it as a succedaneum to the more costly spice waters.

AQUA PULEGII SIMPLEX. SIMPLE PENNY-ROYAL WATER.

Lond.

Take of

Pennyroyal leaves, dry, a pound and a half :

Water, as much as will prevent burning. Draw off by diffillation one gallon.

AOUA PULEGII VULGARIS. WATER of COMMON PENNY-ROYAL. Edinb.

Take of

Penny-royal leaves, fresh, any quantity;

Water, three times as much. Diffil as long as the water comes off well flavoured of the herb.

These waters possess, in a confiderable degree, the fmell, tafte, and virtues of the penny-royal. They are frequently taken in hyfteric cases, and not without good effects.

> AQUA ROSARUM DAMASCENARUM. DAMASK ROSE WATER.

Take of

Damask roses, fresh gathered, fix pounds;

Water, as much as will keep them from burning. Diffil off a gallow of the water.

Edinb.

Take three parts of water to one of

as the water which comes over has any fmell of the flowers.

This water is principally valued on account of its fine flavour, which approaches to that generally admired in the rose itself. The purgative virtue of the rofes remains entire in the liquor left in the still. which has therefore been generally employed for making the folutive honey and fyrup, instead of a decoction or infusion of fresh roses prepared on purpose : and this piece of frugality the college have now admitted. A diffilled water of red rofes has been fometimes called for in the fhops; and fupplied by that of damask roses, diluted with common water: this is a very venial fubilitution; for the water drawn from the red rofe has no quality which that of the damask does not possessi in a far superior degree; neither the purgative virtue of the one, or the aftringency of the Qther, arifing in distillation.

> AQUA RUTÆ. RUE WATER. Edinb.

This is to be distilled from the fresh leaves of rue, and cohobated on fresh parcels of them, after the fame manner as the aqua meliffa.

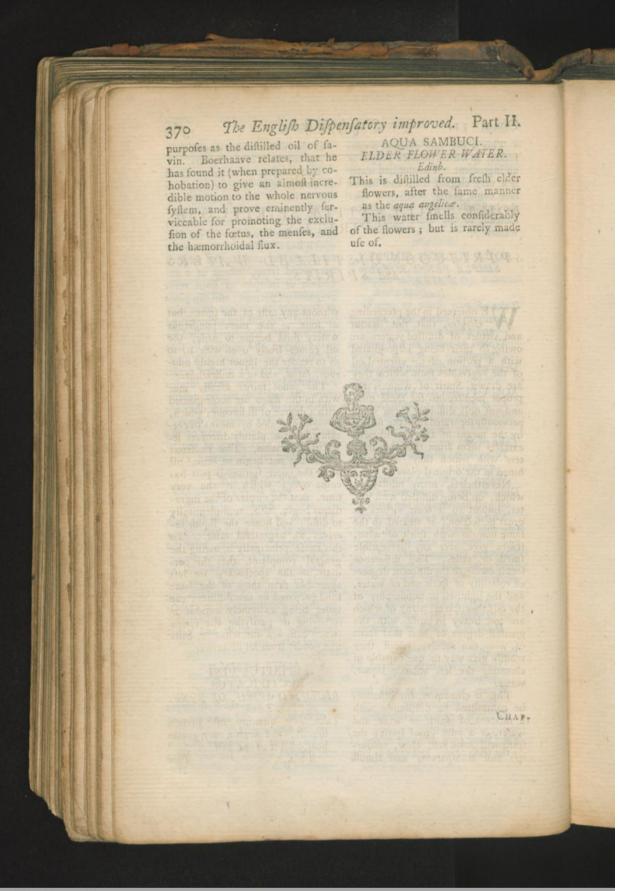
Rue gives over in this process the whole of its fmell, and great part of its pungency. The distilled water flands recommended in epileptic cases, the hysteric passion, for promoting perspiration and other natural fecretions.

> AQUA SABINÆ. SAVIN WATER.

Edinb.

This is distilled from the fresh leaves of favin, after the fame manner as the aqua angelicae.

This water is by fome held in the fresh roses; and distil as long considerable esteem for the same Bb



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CHAPTER XII.

AQUÆ STILLATITIÆ SPIRITUOSÆ, et SPIRITUS.

SPIRITUOUS DISTILLED WATERS and SPIRITS.

chapter, that the flavour and virtues of distilled waters are owing to their being impregnated with a portion of the essential oil of the vegetables from which they are drawn. Spirit of wine is the proper menstruum for these oils; and not only disiolves them when previously separated from the subject by the means of art, but likewise extracts them from the other matters with which they are combined in the original plant.

Nevertheless, many substances, which, on being distilled with water, impart to it their virtues in great perfection; if treated in the same manner with spirit of wine, scarce give over any perceptible smell or taste. This difference seems owing to the different degrees of volatility of spirit and of water, and the lightness or ponderosity of the oils themselves; many of which are too heavy to arise with the greatest degree of heat that spirit of wine can receive, whilst they readily give way to one capable of elevating the less volatile liquor, water.

Thus if cinnamon, for instance, be committed to distillation with a mixture of spirit of wine and water, or a pure proof spirit; the spirit will arise sirth, clear, colourless and transparent, and almost

E observed in the preceeding chapter, that the slavour as soon as the more ponderous watery fluid begins to arise, the oil comes freely over with it, so as to render the liquor highly odothe vegetables from which they

The proof fpirits ufually met with in the fhops are accompanied with a degree of ill flavour; which, though concealed by means of certain additions, plainly discovers itfelf in distillation. This nauseous relish does not begin to arise, till after the purer spirituous part has come over; which is the very time, that the virtues of the ingredients begin, also, most plentifully to diffil: and hence the liquor receives an ungrateful taint. To this cause principally is owing the general complaint, that the cordials of the apothecary are lefs agreeable than those of the same kind prepared by the distiller; the latter being extremely curious in rectifying or purifying the spirits (when defigned for what he calls fine goods) from all ill flavour.

SPIRITUS VINI
RECTIFICATUS.
RECTIFIED SPIRIT OF WINE.
Edinb.

Take any quantity of French brandy, and with a very gentle heat diffil it to one half.

B b 2 This

powder, and then distilled in a glafs cucurbit, with a very gentle heat, becomes ALCOHOL.

French brandy is rather too dear an article in this country, for distillation; nor is the spirit obtained from it any ways preferable to one procurable from cheaper liquors. The coarfer inflammable fpirits may be rendered perfectly pure, and fit for the nicest purposes, by

the following method.

If the spirit is exceedingly foul, mix it with about an equal quantity of water, and diftil with a flow fire; discontinuing the operation as foon as it begins to run milky, and difcovers, by its naufeous tafte, that the impure and phlegmatic part is arising. By this treatment, the spirit leaves a considerable portion of its foul oily matter behind it in the water, which now appears milky and turbid, and proves highly difagreeable in tafte. If the fpirit was not very foul at first, this ablution is not necessary; if extremely fo, 'twill be needful to repeat it.

As vinous spirits arise with a less degree of fire than watery liquors, we are hence directed to employ, in the diffillation of them, a heat olefs than that in which water boils : and if due regard be had to this circumstance, very weak spirits may, by one or two wary diftillations, be tolerably well freed from their aqueous phlegm; especially if the diffilling veffels are of fuch a height, that the fpirit, by the heat of a water bath, may but just pais over them: in fuch case, the for a little way along with the fpirit, will condense and fall back

This rectified spirit, being digest- have been contrived for this pured for two days with one fourth pose, and carried in a spiral or its quantity of dry falt of tartar in ferpentine form, to an extraordinary height. The spirit, ascending through thefe, was to leave all the watery parts it contained, in its passage, and come over perfect-ly pure and free from phelgm. But these instruments are built upon erroneous principles, their extravagant height defeating the end it was defigned to answer: if the liquor is made to boil, a confiderable quantity of mere phlegm will come over along with the spirit; and if the heat is not raifed to this pitch, neither phlegm nor spirit will distil. The most convenient instrument is the common still, betwixt the body of which, and its head, an adopter or copper tube may be fixed.

The fpirit being washed, as above directed, from its foul oil, and freed from the greatest part of the phlegm, by gentle distillation in a water bath; add to every gallon of it a pound or two of pure, dry, fixt alcaline falt. Upon digefting these together for a little time, the alcali, from its known property of attracting water and oils, will imbibe the remaining phlegm, and fuch part of the difagreeable unctuous matter as may still be left in the spirit, and fink with them to the bottom of the vessel. If the fpirit be now again gently drawn over, it will arise entirely free from its phlegm and naufeous flavour; but some particles of the alcaline falt are apt to be carried up with it, and give what the workmen call an urinous relish: this may be prevented by the addition of a small proportion of any fixt acid liquor, phlegmatic vapours, which arise or rather of an acid falt, as vitriol, or alum.

The spirit obtained by this means again before they can come to the is extremely pure, limpid, perfecthead. Very pompous influments ly flavourlefs, and fit for the finest

purpofes.

Distilled Spirits. Chap. 12.

in this flate is supposed to be a more powerful menstruum for certain substances than the pure spirit.
This alcalized spirit is called TARTARIZED SPIRIT OF WINE.

rectified, or proof spirits of the shops are made use of. If the rectified spirit be distilled afresh from dry alcaline falt, with a quick fire, it brings over a confiderable quantity of the falt, and

purposes. It may be reduced to

the strength commonly understood

by proof, by mixing twenty ounces of it (by weight) with feventeen ounces of water. The distilled cordials made with these spirits,

prove much more elegant and agreeable, than when the common The general virtues of vinous fpirits have been already mentioned in the preceding part : the fpirits impregnated with the volatile oils of vegetables, to be treated of in this chapter, have joined to those, the aromatic, cordial, or other virtues which refide in the oils.

SECT. I.

DISTILLED SPIRITS.

SPIRITUS RORISMARINI. SPIRIT of ROSEMARY. Lond.

Take of

Rosemary tops, fresh gathered, a pound and a half; Proof spirit, one gallon.

Distil in the heat of a water bath, tlll five pints are come over.

AQUA REGINÆ. HUNGARIÆ. HUNGARY WATER. Edinb.

Take of

Rosemary flowers, just gathered, two pounds;

Rectified spirit of wine, half a gallon.

Put them together, and immediately diftil in a water bath.

This spirit is very fragrant, infomuch as to be in common use as a perfume. It is difficult to make it in the requisite perfection: the vinous fpirit should be extremely Take of pure; the rosemary tops gathered Lavender slowers, fresh gather-when the slowers are full blown ed, a pound and a half; upon them, and committed imme- Proof spirit, one gallon. diately to distillation, particular Draw off, by the heat of a balcare being taken not to bruife or neum, five pints. press them. The best method of

managing the process therefore feems to be, to first place the spirit in the still, and then set in, above the liquor, an iron hoop, with a hair cloth stretched over it : upon this lightly lay the flowers, and apply a gentle heat just sufficient to raife the spirit. Probably the superiority of the French Hungary water, to that prepared among us, is owing to fome skilful manage-ment of this kind, and employing a perfectly pure spirit.

In the Wirtemberg pharmacopæia, fome fage and ginger are added, in the proportion of half a pound of the former, and two ounces of the latter, to four pounds of the rofemary.

SPIRITUS LAVENDULÆ SIMPLEX. SIMPLE SPIRIT OF LAVENDER.

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The same cautions are to be obferved here, as in the distillation of the foregoing spirit. Both of them, when made in persection, are very grateful and fragrant: they are frequently rubbed on the temples, &c. under the notion of refreshing and comforting the nerves; and likewise taken internally, to the quantity of a tea spoonful, as a cordial.

SPIRITUS LAVENDULÆ COMPOSITUS COMPOUND SPIRIT of LAVENDER. Lond.

Take of

Simple spirit of lavender, three pints;

Spirit of rolemary, one pint;

Nutmegs, each half an ounce; Red faunders, three drams. Digest them together, and then

firsin out the spirit for use.

The digestion should be performed without heat, and not too long continued; otherwise the slavour of the spirit will be considerably

injured.

Edinb.

Take of the diffilled oils of
Lavender, an ounce and a half;
Rosemary, an ounce;
Marjoram, fix drams;
Lemon peel, half an ounce;
Nutmegs, three drams;
Cloves, two drams;

Cinnamon, one dram.

Gradually drop these oils into three gallons of French brandy, occationally stirring them together.

One half of this mixture is to be referved for making the sal volatile, as it is called (see page 307.)

Distil the other half in balneo marize to two thirds; and in the spirit which comes over, suspend the following ingredients, tied up in a linen cloth: viz. of

Red faunders, one ounce; English fastron,

Cochineal, each two drams;
To which, if you would have the fpirit perfumed, add of Ambergris, a fcruple;

Musk, half a scruple.

The red faunders is of no farther use in these compositions than as a colouring ingredient. If a yellow fpirit was liked, the yellow faunders would be an excellent article, as it not only communicates a fine colour, but likewife a confiderable share of medicinal virtue. A spirit distilled from the flowers of lavender and fage, in due proportion, and digested in the cold for a little time with fome cinnamon, nutmegs, and yellow faunders, proves a very elegant and and grateful one. Where essential oils are employed, as in the fecond of the above processes, particular care must be had in the choice of them: for on their goodness, that of the medicine depends: perhaps fewer oils might have ferved the purpofe, and those might have been proportioned more to the advantage of the preparation: but that could not be done without increasing the price, a circumstance to be carefully avoided, to prevent fophistication; it may be made richer. of the oil of cinnamon for instance, in extemporaneous prescription. The compound spirit of lavender of the former London pharmacopæia is as follows:

Lavender flowers, one gallon; Sage flowers, Rotemary flowers,

Betony flowers, each one handful;

Borage flowers,
Euglofs flowers,
Lilies of the valley,
Cowflips, each two handfuls;
Balm leaves,

Fever-

Feverfew leaves, Orange tree leaves, Orange flowers, Stæchas flowers.

Bay berries, each one ounce; French brandy, four gallons.

Pour the brandy on the other ingredients fresh gathered, and after suitable digestion, draw off in balneo mariæ two gallons and a half. To this spirit add the following ingredients.

Citron peel, Yellow faunders, each fix drams; Cinnamon.

Nutmegs, Mace,

Leffer cardamom feeds, Cubebs, each half an ounce; Aloes wood, one dram.

Digest these together for twenty four hours; then filter the spirit, and suspend in it the following ingredients (where they are judged proper) tied up in a thin linen cloth; viz. of

Musk, Ambergris,

Saffron, each half a fcruple; Red rofes dried,

Red faunders, each half an ounce.

All these spirits are grateful reviving cordials: the first, though considerably the most simple, is not inserior in elegancy to either of the others. This medicine has long been held in great esteem, under the name of PALSY DROPS, in all kinds of languors, weakness of the nerves, and decays of age. It may be conveniently taken upon sugar, from ten to eighty, or an hundred drops.

SPIRITUS et EXTRACTUM
CROCI.
SPIRIT and EXTRACT of
SAFFRON.

Take of Saffron, four ounces; Rectified spirit of wine, fix pints-Digest the saffron with four pints of the spirit in a gentle warmth, for two or three days; then pour off the tincture, add the remainder of the spirit, and distil as before. Mix both tinctures together, and digest in balneo maria, until the residuum appears of the consistence of oil.

The diffilled spirit stands recommended in the former editions of this work, as one of the greatest cordials which medicine can produce; and is said to have the advantage of being at the same time a noble alexipharmae, and disposing the patient to sweat if duly encouraged; an effect which sew of the other cordial spirits produce may be taken from a dram to an ounce, or more, for a dose in any proper vehicle.

The extract, or thick oily fiquid remaining after the distillation of the spirit, is greatly commended by Boerhaave in the same intentions: he says, it possesses such exhilirating virtues, that if used a little too freely, it occasions an almost perpetual and indecent laughing; that it tinges the urine of a red colour, that it mingles with water, spirit, and oil, but is most conveniently taken in canary, or other rich

Both medicines are undoubtedly ferviceable cordials, particularly the extract, which is vastly stronger of the virtues of the fastron, than the distilled spirit. The fastron remaining after the operation still retains some of its virtue, and may be employed, for extracting a fresh tincture from, for inferior purposes. If digested in a fresh quantity of spirit of wine, it will be totally deprived of its colour, &c. and reduced into insipid, white silaaments.

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AOUA ODORIFERA. An ODORIFEROUS SPIRIT. called SWEET HONEY WATER.

Take of Honey,

Coriander feeds, each one pound: Cloves, an ounce and a half; Nutmegs,

Benzoine,

Storax, each an ounce; Venelloes, in number four: Yellow rind of three lemons: French brandy, one gallon.

Digest these ingredients together for forty eight hours; and then diftil off the spirit in balneo mariæ. To one gallon of this fpirit, add

Orange flower water,

Rofe water, of each one pound and a half;

Ambergris,

Musk, of each five grains.

First grind the musk and ambergris, with fome of the water, and afterwards put all together, in a large matras; shake them well, and let them circulate for three tidays and nights in a gentle heat; then fuffer them to cool, filter the liquor, and keep it close flopt up for ufe.

Another.

Take of

Coriander feeds, one pound; Lemon peel, fresh, Nutmegs, each four ounces:

Ambergris,

Musk, each five grains;

Bruise the nutmegs and coriander feeds, and put them, with the lemon peel and the spirit, into a fmall ffill placed in balneo mariæ: tie a thin cloth over the mouth, and fprinkle thereon the ambergris and mulk, reduced into fine powder: lute on the head, let the whole fland in digestion for twelve hours, and then distill as much as a boiling heat of the bath can force over, tion both with water and pure spi-

To this add, of Rose water, one pint: Orange flower water, half a pint.

These compositions are designed rather as perfumes than as medicines; though for fuch as can bear their fragrance, they might be used to advantage in this last intention. The music and ambergris do not communicate fo much of their fmell as might be expected; and ferve chiefly to heighten the flavour of the other ingredients; which these perfumes excellently do, when employed in very fmall proportion, to all the odoriferous fimples, with out imparting any thing perceptible of their own. Both the foregoing spirits are very agreeable : a few drops of either give a fine flavour to a large quantity of other liquor. Mr. Wilson, from whom the first is taken (Pract. Chem. page 354) tells us, that he often made it for king James II, and that it gives one of the most pleasant scents that can be finelt to. The other is a reform of it, made by the commentator.

SPIRITUS COCHLEARIÆ. SPIRIT of SCURVYGRASS. Edinb.

Take of

Scurvygrafs, ten pounds: Reclified spirit of wine, five pints.

Let the herb, fresh gathered and bruifed, be steeped in the spirit for twelve hours; then, with the heat of a water bath, distil off five pints.

This spirit is very strong of the scurvygrass, and may be given in those cases where the use of this herb is proper, from twenty to an hundred drops. The virtues of scurvygrafs refide in a very fubtile, volatile oil, which arises in distilla-

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rit, and if the liquors are exposed to the air, foon exhales from both. The spirit, newly distilled, is extremely pungent, but if long kept, even in close vessels, becomes remarkably less fo.

The makers of this spirit have frequently added to the fcurvygrafs a quantity of horse radish root, and fometimes substituted to it one drawn entirely from the horse radish: the flavour of these two fimples being fo much alike, that their diffilled spirits are scarce diflinguishable from one another. Here it may be observed, that tho' arum and dracunculus are usually ranked in the same class with the two foregoing vegetables, and looked upon as fimilar to them: this process discovers a remarkable difference: whilft the former yield all their pungency in distillation both to water and spirit, the latter give over nothing to either, and yet their virtues are destroyed in the operation.

SPIRITUS COCHLEARIÆ AUREUS.

GOLDEN, or PURGING SPIRIT of SCURVYGRASS.

Take of

Spirit of scurvygrass, one pound;

Gamboge, one ounce.

Dissolve the gamboge in the spirit, and if any fediment falls to the bottom, carefully decant the tinged liquor from it.

This spirit is otherwise made with feammony, or refin of jalap, in-

stead of gamboge.

This has been in great esteem among the common people, and strongly recommended by the venders, in all kinds of fcorbutic diforders. It is nevertheless a very indifferent medicine, and little deferves the pompous title given it. It may be taken from twenty to fixty drops, either upon fugar, or mixed with fyrup.

AOUA ANHALTINA. ANHALT WATER.

Take of Turpentine, fix ounces; Olibanum, one ounce;

Aloes wood, three ounces; Cloves,

Cinnamon, Cubebs.

Rosemary flowers,

Galangal, Mastich,

Nutmegs, each fix drams; Saffron, two drams and a half;

Bay berries,

Fennel feeds, each half an ounce; Spirit of wine, five pints.

Pulverize those ingredients which require fuch treatment, and digelt the whole with the spirit for fix days; then diffil with an exceeding gentle heat, in balneo mariæ: the liquor which runs clear, is to be separated from the turbid, and kept by itself.

Where the addition of musk is required, fifteen grains thereof are to be tied in a bag, and fufpended in the head of the still,

We have inferted this composition from the Brandenburgh pharmacopæia, on account of its being held, in some places, in great esteem. It is rubbed on weak or paralytic limbs, against catarrhs, old pains and aches, &c. and likewife given internally, in dofes of half an ounce, for ftrengthening the fromach, discussing flatulencies, relieving colicky pains, and promoting the uterine purgations. It is very unpleasant to the palate; the aromatics, though fufficiently numerous, and in confiderable quantity, not giving over near enough to cover the strong slavour of the turpentine: there are not many of them, indeed, that give over any thing at all.

SECT.

DISTILLED SPIRITUOUS WATERS.

BY distilled spirits are underflood fuch as are drawn with a fpirit that has been previously rectified, or which is reduced nearly to this ffrength in the operation: by spirituous waters, those in which the fpirit is only of the proof firength, or contains an admixture of about an equal measure of water. These last have been usually called compound waters, even when distilled from one ingredient only; as those on the other hand, which

are drawn by common water, tho' from a number of ingredients, are named fimple; the title fimplex, here, relating not to simplicity in respect of composition, but to the vehicle being plain water. The Edinburgh pharmacopæia denominates those waters simple which are drawn from a fingle ingredient, whether the vehicle be common water, or spirituous water, and all those compound, which are distilled from more than one.

General rules for the distillation of spirituous waters, from the Edinburgh pharmacopaia.

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fpirit; and the other runnings, to be more regarded than their fineness or fightliness.

If the distillation is skilfully managed, the heat equable, and all

along gentle, and no more drawn The plants and their parts ought to off than the quantity directed, be moderately and newly dried, most of the waters will appear except fuch as are ordered fresh fusficiently bright and fine : some of them which look turbid just after they are drawn, will, on After the ingredients have been standing for a few days, become steep'd in the spirit for the time clear and transparent. The pracprescribed, add as much water tice here forbid, of faving some of as will be sufficient to prevent an the first runnings apart, is certainly very injurious to the composition; the water being not only robbed by The liquor which comes over first it of some of the more volatile in the distillation, is by some parts of the ingredients, but likekept by itself, under the title of wife rendered permanently milky, as wanting the spirit which, by which prove milky, fined down dissolving the oil of the ingredients by art. But it is better to mix all that gives this appearance, would the runnings together, without make the liquor transparent. Nor fining them, that the waters may is the method of fining the tur-possess the virtues of the plant bid waters by alum, &c. less culentire; which is a circumstance pable; for these additions produce their effects only by feparating from the liquor what it had before gained from the ingredients.

AQUA

Chap. 12. Distilled Spirituous Waters.

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AQUA ABSINTHII
COMPOSITA.
COMPOUND WORMWOOD
WATER.

Take of
Calamus aromaticus,
Orange peel, fresh,
Cinnamon, each four ounces;
Roman wormwood, half a pound;
Mint, three ounces;
Lesser cardamoms,
Mace, each one ounce;
French brandy, two gallons.

Having bruifed the feeds and spices, and cut the other ingredients, pour on them the brandy, and after steeping them together for the space of four days, distill off two gallons.

This water has been frequently prescribed as a stomachic, along with bitter infusions; and for this purpose it is the least unfit, (as being the most elegant and least unpleafant) of all the wormwood waters that the shops have been usually furnished with. It is nevertheless too ungrateful an addition to the fine bitters of our new pharmacopceia; and cannot be supposed to contribute any thing to their virtue, which more agreeable spirituous waters would not equally do. Some have expected wormwood water to be itself a bitter; but only the fmell and flavour of the wormpood arifes in this process, those parts in which its bitterness refides remaining behind in the still.

In former editions of the London pharmacopeia there were two wormwood waters, which in fome fhops are still retained, and occationally called for. In the edition preceding the present, they are directed as follows:

AQUA ABSINTHII MINUS COMPOSITA.

WORMWOOD WATER LESS COMPOUNDED.

Take of
Common wormwood leaves, dried two pounds;
Leffer cardamom feeds, two

Coriander feeds, half a pound;
French brandy, four gallons.
Let them fleep together for fome time, and then difil off four gallons.

AQUA ABSINTHII MAGIS COMPOSITA. WORMWOOD WATER MORE COMPOUNDED.

Take of Sea wormwood, Common wormwood, each, dried, one pound;

Sage, Balm, each dried, two handfuls : Galangal, Ginger, Calamus aromaticus, Elecampane roots, Sweet fennel feeds, Coriander feeds, each three drams: Cinnamon, Cloves. Nutmegs, each two drams; Lesser cardamom feeds, Cubebs, each one dram; French brandy, twelve pints. Having cut or bruifed the ingre-

Having cut or bruifed the ingredients, which require that treatment, fleep them for fome time in the brandy, and afterwards draw off by distillation twelve pints.

AQUA ALEXETERIA
SPIRITUOSA.
SPIRITUOUS ALEXETERIAL
WATER.
Lond.

Take of

Spear

Spearmint leaves, fresh, half a treacle water, which in the Edin-

Angelica leaves, fresh.

Sea wormwood tops, fresh, each four ounces;

Proof spirit, one gallon : Water as much as will prevent burning.

Diffil off one gallon.

This is a tolerably pleafant water: it is looked upon as as alexipharmac and stomachic, and in these intentions is not unfrequently made use of in juleps, &c.

AQUA ALEXETERIA SPIRITUOSA cum ACETO. SPIRITUOUS ALEXETERIAL WATER with VINEGAR.

Take of

Spearmint leaves,

Angelica leaves, each half a pound ;

Sea wormwood tops, four ounces; Proof spirit, one gallon; Water, as much as is sufficient to

prevent burning; Vinegar, one pint.

Distil the fresh herbs with the spirit and water, drawing off one gallon; and add to this the vinegar.

Angelica, after trial of fundry other materials, has been found the most effectually to remove the difagreeable flavour which the vinegar would otherwise communicate; and therefore this plant is ordered in a larger proportion here than in the other alexeterial waters. Perhaps it would be more eligible to add the vinegar occasionally; for when mixed with the liquor at first, it is apt to throw down, upon keeping, some of the more valuable parts which the water received from the herbs.

This water is given in the room of the AQUA THERIACALIS or burgh pharmacopæia is thus di-

Take of

Butterbur, Angelica.

Masterwort, roots, each half a pound:

Zedoary, four ounces; Scordium leaves,

Rue leaves, each fix ounces: Theriaca, one pound;

French brandy, three gallons; Distilled vinegar, half a gallon.

Let the roots, leaves and theriaca be steeped in the spirit for four days; then distil off two gallons and a half; to which add the di-

stilled vinegar.

This water is ordered not to be drawn fo low as the other diffilled waters, and with great judgment; for the addition of the vinegar confiderably weakens it, and if drawn low, renders it very unlightly. It is left to the choice of the operator, to employ either Andromachus's or the Edinburgh treacle; the latter is the best of the two, but neither of them are proper fubjects for diffillation; for besides that three parts in four are honey, which yields nothing, they contain feveral other ingredients that afford as little.

The AQUA THERIACALIS of the former London pharmacopœia is as follows:

Take of

Juice of green walnuts, four pints ; Rue, three pints; Carduus,

Balm, each three pints; Butter bur roots, fresh, a pound

and a half; Burdock roots, fresh, one pound; Angelica roots,

Maiterwort roots, fresh, each

half a pound ; Scordium, fresh, four handfuls;

Venice

Venice treacle and Mithridate, kept for fome time, each eight ounces;

Lemon juice, two pints; French brandy, a gallon and a

Draw off by distillation three gallons and a half, then add half a gallon of diffilled vinegar.

The predominant flavour of this water is from the rue and angelica; the rest contribute only enough to render the whole more offensive. What qualities it can receive from the numerous ingredients of the imagined all-powerful theriaca, may be estimated by this, that the whole species of that electary employed in half an ounce of the water, its usual dose, amounts not to a single grain; the mithridate, with which our pharmacopæia by the advice of Sir Theodore Mayerne had the honour of enriching the composition, being also just of the same importance in it. In short, if any composition in the shops partakes of apcient superstition, it is this.

The three foregoing composi-tions are the only distilled waters in which the heat of the spirit is tempered by the addition of vinegar, an ingredient which renders them ferviceable in many cases where spirituous liquors alone would be improper. The treacle water has long been held in great esteem as a fudorific and alexipharmac; and that which the London college have now directed in the room of it, though far more simple and elegant, is not inferior in efficacy.

AQUA SEMINUM ANISI COMPOSITA. COMPOUND ANISEED WATER. Lond.

Take of Anifeeds, Angelica feeds, each half a pound; Proof spirit, one gallon;

Water, as much as is fufficient to prevent burning.

Draw off by distillation one gallon. This is a very elegant anifeed water, the angelica feeds greatly improving the flavour of the anife: it is apt to turn out milky, if drawn fo low as here ordered.

AQUA CORTICUM AURAN-TIORUM SPIRITUOSA. SPIRITUOUS ORANGE PEEL WATER. Lond.

Take of Outer rind of Seville orange peel, dried, half a pound; Proof spirit, one gallon; Water, as much as is fufficient to prevent an empyreuma. Distil off one gallon.

This is considerably stronger of the orange peel than the simple water. It is used as a cordial, stomachic and carminative.

AQUA BRYONIÆ COMPOSITA. COMPOUND BRYONY WATER. Edinb.

Take of Bryony roots, one pound; Wild valerian root, four ounces; Pennyroyal, Rue, each half a pound; Mugwort leaves, Feverfew flowers, Savin tops; each one ounce; Orange peel, fresh, Lovage feed, each two ounces; French brandy, two gallons and a half.

Having cut or bruifed those ingredients which require fuch treatment, steep them in the brandy four days: then draw off by distillation two gallons and a half of liquor. This

Bby

This composition is defigned for an antihysteric, and too frequently perhaps employed as fuch. Many, by the use of this and other like waters, under the notion of medicines, have been betrayed into the pernicious habit of drinking drams: whereas, however fpirituous liquors may give a temporary relief to the languors of hyflerical and hypochondriacal perfons, none fuffer fo foon the ill effects attending the constant use of them. The unpleasant flavour of this water renders it exceptionable also as a vehicle of other antihysteric medicines, which in general are of themfelves fufficiently ungrateful: a fmall augmentation in the dofe of the medicines themselves (as the London committee observe) would abundantly compensate any affiftance to be expected from this water, and leave room for the use of a more agrecable vehicle.

AQUA SEMINUM CARDAMOMI. CARDAMOM SEED WATER. Lond.

Take of Leffer cardamom feeds, freed from the hufks, four ounces; Proof spirit, one gallon;

Water, as much as is fufficient to prevent burning.

Diffil off one gallon

This water is a grateful cordial and carminative, the cardamom hulks, for these communicate noquantity of them must be taken.

AQUA SEMINUM CARUI. CARAWAY WATER. Lond.

Take of minon Caraway feeds, half a pound; Proof spirit, one gallon;

Water, as much as will prevent burning. Wah nwords

Diffil off one gallon, works at

This is a cordial in common use: it contains the flavour of the caraway feeds in perfection.

AQUA CINNAMOMI SPIRITUOSA. SPIRITUOUS CINNAMON WATER. name and Lond, whom yllsup Take of a succession out mort out

Cinnamon, a pound; minor out Proof spirit, a gallon; buttergong Water, fo much as will prevent burning

Draw off by distillation one gallon.

AQUA CINNAMOMI CUM VINO. CINNAMON WATER WITH WINE. Edinb.

Take of

Cinnamon, one pound; French brandy, one gallon; Let them steep together for two days, and then diffil off one

gallon.
This is a very agreeable and useful cordial water, but not so flrong of the cinnamon as might be expected; for very little of the virtues of the spice arise till after the pure spirituous part has distilfeeds giving over in this process led. Hence in the former editions the whole of their flavour. It is of the London pharmacopæia, the not perhaps very necessary to be distillation was ordered to be proat the trouble of feparating the tracted till two pints more, than here directed, were come over. By thing difagreeable: If employed this means, the whole virtue of the unhusked, a proportionably larger cinnamon was more frugally than judiciously obtained; for the difagreeable flavour of the feints of proof spirits, and the acidulous liquor arising from cinnamon as well as all other vegetables when their diftilChap. 12. Distilled Spirituous Waters.

COMPOUND JUNIPER WATER. Lond.

distillation is long continued, gave an ill relish to the whole; at the same time that the oil which was extracted from the spice, was by this acid thrown down.

The author of the pharmacopœia reformata proposes making this water by mixing the aqua cinnamomi simplex with somewhat less than an equal quantity of rectified spirit: on shaking them together, the liquor loses its milky hue, soon becomes clear, and more elegant than the water distilled as above: it is equally strong of the cinnamon, and free from the nauseous taint which the common proof spirits are impregnated with.

AQUA EPIDEMIA.

PLAGUE WATER.

Edinb.

Take of MONAMAN AU

Masterwort roots.

Butter bur roots, each four ounces;
Virginian fnakeroot,
Zedoary, each two ounces;
Angelica feeds,

Angelica feeds,
Bay berries, each three ounces;
Scordium leaves, fix ounces;
French brandy, two gallons.

Pour the brandy on the other ingredients first cut or bruised; digest for four days; and then draw off by distillation two gallons.

This water is not a little unpleafant, though it fearce has any advantages to conterbalance that inconvenience. The alexipharmac virtues formerly attributed to it, and implied in its title, are not now expected from it. It loft at the late revifal, almost as many ingredients as are now retained in it, though some of those which are fill left, might be dispensed with.

AQUA JUNIPERI COMPOSITA. Take of
Juniper berries, one pound;
Sweet fennel feeds,

Caraway feeds, each an ounce and a half;

Proof spirit, one gallon;

Water, as much as is fufficient to prevent burning.

Diftil off one gallon.

This water, mixed with about an equal quantity of the rob of juniper berries, proves an useful medicine in catarrhs, debility of the stomach and intestines, and difficulty of urine. The water by itself is a good cordial and carminative: the fervice, which this and other spirituous waters do in these intentions, is too commonly known; though the ill consequences that follow their constant use, are too little regarded.

AQUA MENTHÆ PIPERITI-DIS SPIRITUOSA. SPIRITUOUS PEPPER MINT WATER. Lond.

Take of

Pepper mint leaves, dry, a pound and a half: Proof fpirit, a gallon;

Water, as much as is sufficient to prevent an empyreuma.

Draw off by distillation one gallon.

This water is made use of in slatulent colics and other like disorders; in which it oftentimes gives immediate relief. It is not near so strong of the pepper mint as the simple water, though the same quantity of the herb is employed in both.

AQUA MENTHÆ VULGARIS SPIRITUOSA. SPIRITUOUS SPEARMINT WATER. Lond.

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Take of

Spearmint leaves, dry, a pound and a half;

Proof spirit, a gallon; Water, as much as will prevent

burning.
Distil off one gallon.

This water also is considerably weaker of the mint than the simple water: Nevertheless, if the spirit be good, the medicine turns out a very elegant one, and preferable, in weakness of the stomach, retching to vomit, and the like, to many more elaborate preparations. Where the disorder is not accompanied with heat or inflammation, half an ounce of this water rarely fails of giving relief.

AQUA MIRABILIS. Edinb.

Take of

ake of
Cinnamon, two ounces;
Lemon peel, one ounce;
Angelica feeds,
Leffer cardamom feeds,
Mace, each half an ounce;
Cubebs, two drams;
Balm leaves, fix ounces;
French brandy, one gallon.

Pour the brandy on the other ingredients bruifed; and after digesting them for four days, draw off by distillation one gallon.

This water is very rich of the fpices; and proves a pleafant, warm, cordial and carminative. In those who have not, by frequent use, deprived themselves of the benefit of these kinds of liquors, it gives present relief in languors, flatulencies, colicky pains, and other like complaints. It would not, however, be less agreeable or efficacious, if its ingredients were somewhat sewer: it has already lost half a dozen useles ones, and perhaps might still spare the angelica, mace, cubebs, and balm, if the proportions of the other ingre-

dients were varied a little. Some have substituted Jamaica pepper to them all, in the proportion of two ounces to a gallon of spirit: and if the spirit be good, the water made in this manner is not easily distinguishable from the other. The simple water of this spice is far less elegant than a spirituous one.

AQUA NUCIS MOSCHATÆ. NUTMEG WATER.

Lond.

Take of

Nutmegs, two ounces; Proof spirit, a gallon; Water, as much as will prevent burning.

Draw off by diffillation one gallon. This water (with the addition only of fome hawthorn flowers, an article of very little fignificance) was formerly celebrated in nephrotic diforders, under the name of AQUA NEPHRITICA. At prefent, it is regarded only as an agreeable spirituous liquor, lightly impregnated with the nutmeg flavour.

AQUA PETROSELINI COMPOSITA. COMPOUND PARSLEY WATER. Edinb.

Take of

Parfley roots, four ounces; Horse radish, fresh, three ounces; Juniper berries, six ounces; St. John's wort tops, Biting arsmart leaves, Elder slowers, each two ounces; Wild carrot feeds, Sweet fennel seeds, Parsley seeds, each one ounce and a half; French brandy, two gallons.

French brandy, two gallons.

Having cut or bruifed those ingredients which require such treatment, steep them four days in the

the brandy, and then diffil off practice pays little regard to it, two callons and rarely prescribing it any other-

This is intended for an aperient and diuretic, and for these purpofes has been by fome held in confiderable efteem. At prefent, it is rarely called for, and not often kept in the shops; the compound horfe-radish water being more frequently prescribed, as the more efficacious medicine, in the intentions for which this is defigned. For this reason, though the compofition contains fome exceptionable articles, it has not been thought worth while to make any farther alteration than increasing the quantity of the juniper berries, which are the best ingredient in it.

AQUA PŒONIÆ COMPOSITA. COMPOUND PEONY WATER. Edinb.

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Peony roots, two ounces:
Wild valerian roots, an ounce
and a half;

White dittany roots, one ounce; Peony feeds, fix drams;

Lilies of the valley, fresh, four ounces;

Lavender flowers,

Rosemary flowers, each two ounces;

Betony, Marjoram, Rue,

Sage, tops, of each, one ounce. French brandy, a gallon and a half.

Cut or bruife those materials that require such treatment, steep them four days in the brandy, and then distil over a gallon and a half of liquor.

This water has been distinguished by the title of AQUA ANTI-EPILEPTICA; and recommended in all kinds of epilepsies and nervous complaints. The present practice pays little regard to it, and rarely prescribing it any otherwise than as a vehicle, and as such not often. The ingredients from which it receives its name, the peony roots and seeds, communicate little or nothing to the water; whatever virtues these are possessed of, remain behind in the decoction: nor are these the only exceptionable articles; the dittany, betony, and some others, though of the aromatic kind, assort so little as not to deserve a place among more powerful ingredients.

The compound peony water of the former London pharmacopæia thus directed:

Take of

Lilies of the valley, fresh gathered, one pound; Lime slowers, half a pound;

Peony flowers, four ounces;

Male peony root, two ounces and a half; White dittany root,

Long birthwort, each half an ounce:

Missetoe of the oak, Rue, each two handfuls; Peony seeds, husked, ten drams;

Rue feeds, three drams and a half;

Russia castor, Cubebs,

Mace, each two drams;

Cinnamon, an ounce and a half;

Rolemary flowers, fix pugils; Stæchas flowers,

Lavender flowers, each four pu-

Betony flowers, Clove-july flowers,

Cowflips, each eight pugils; Juice of black cherries, four

French brandy, two gallons and a half:

After proper maceration, distil off four gallons.

c This

This water, though very injudicious in its composition, is still kept in some shops, and supposed to be a good assistant in epileptic and other nervous cases.

AQUA PULEGII SPIRITUOSA. SPIRITUOUS PENNYROYAL WATER. Lond.

Take of
Pennyroyal leaves, dry, a pound
and a half;
Proof fpirit, a gallon;
Water, as much as will prevent
burning.
Diffil off one gallon.

This water has a good fhare of the flavour of the pennyroyal, and is pretty much in use as a carminative and antihysteric.

AQUA RAPHANI COMPOSITA. COMPOUND HORSE RADISH WATER.

Take of
Garden scurvygrass leaves, fresh,
four pounds;
Horse-radish root fresh,
Orange peel, fresh, each two
pounds;
Nutmegs, nine ounces;
Proof spirit two gallons;
Water a sufficient quantity to prevent burning.
Draw off by distillation two gallons.

Edinb.

Take of
Horse-radish, fresh, three pounds;
Garden scurvygrass,
Water cresses, each, fresh, two
pounds:
Orange peel,
Lemon peel, each, fresh, three

Lemon peel, each, hen, due ounces;
Canella alba, four ounces;
Nutmers, one ounce;

Nutmegs, one ounce; French brandy, three gallons.

Pour the brandy on the ingredients cut and bruised, and after steeping for two days, draw off three gallons of liquor.

Both these waters are very elegant ones, and as well adapted for the purposes of an antiscorbutic, as any thing that can well be contrived in this form. The committee of the London college observe, with regard to the first, that the horse-radish and scurvy grass join very well together, giving a fimilar flavour, though not a little difagreeable; that the nutmeg fuppresses this flavour very successfully, without fuper-adding any of its own; and to this, orange peel (no incongruous ingredient to the intention of the medicine) adds a flavour very agreeable. Arum root has generally had a place in this water, but is here deservedly thrown out; for it gives nothing of its pungency over the helm, notwithstanding what is afferted, in former editions of this work, to the contrary. Mustard feed, though not hitherto, that we know of, employed in these kinds of compofitions, should feem to be an excellent ingredient: it gives over the whole of its pungency, and is likewife less perishable than most of the other substances of this class: this feed wants no addition, unless fome aromatic material to furnish an agreeable flavour.

AQUA MELISSÆ
COMPOSITA.
COMPOUND BALM WATER,
commonly called,
EAU DE CARMES.

Take of
Balm leaves, fresh, four ounces;
Lemon peel, fresh, two ounces;
Coriander feeds,
Nutmegs, each one ounce:
Angelica root,
Cinnamon,
Cloves,

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Chap. 12: Distilled Spirituous Waters.

Cloves, each half an ounce; Balm water, one pint; Proof spirit, two pints.

Powder the dry ingredients, and digest them with the spirit in a close vessel, for two or three days; then add the balm water, and distil in balneo almost to dryness.

This water is an elegant cordial, all the ingredients giving over to it great share of their slavour; the balm, though it seems intended as the principal, yields the least. The preparation has of late been greatly esteemed in most parts of Europe; and strongly recommended by the venders as being more strengthening and reviving than the common cordials: but, like other medicines whose composition has been kept a fecret, its virtues have been greatly exaggerated.

AQUA VULNERARIA, feu AQUA CATAPULTARUM. ARQUEBUSADE WATER.

Pharm. Argent. Take of Comfry, leaves and roots. Sage, Mugwort, Bugloss, each four handfuls : Betony, Sanicle, Ox-eye daify, Common daify, Greater figwort, Plantane, Agrimony, Vervain, Wormwood. Fennel, each two handfuls:

St. John's wort,
Long birthwort,
Orpine,
Veronica,
Leffer centaury,
Milfoil,
Tobacco,
Moufe-ear,
Mint,
Hyslop, each one handful:

Wine, twenty-four pounds.

Having cut and bruifed the herbs, pour on them the wine, and let them stand together in digestion, in horse-dung or any other equivalent heat, for three days; afterwards distil in an alembic with a moderate fire.

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This celebrated water has been for fome time held in great efteem, in contusions, for refolving coa-gulated blood, discussing the tumours that arife on fractures and diflocations, for preventing the progress of gangrenes, cleansing and healing ulcers and wounds, particularly gun-shot wounds. Mr. Lemery has been at the pains of writing a whole treatife on it; in which he confiders each of the ingredients fingly, and supposes the water to policis their united virtues. But here this eminent chemift, relying more on hypothetical reasoning than the experiments which that art requires, happened to be mislaken; for the virtues of most of the herbs, admitting them to be as great as he would have them, refide in fuch parts as are not capable of being elevated in this process.

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CHAPTER XIII.

DECOCTA et INFUSA. DECOCTIONS and INFUSIONS.

Under this head are comprehended decoctions and infusions in aqueous liquors only: those made in wine, vinegar, vinous spirits, and in oils, will be treated of hereaster.

VATER extracts the gummy, mucilaginous and faline parts of vegetables; and hence becomes the proper menstruum for the glutinous and acefcent plants. Its action, however is not confined to these: the refinous and oily principles, though of themselves not foluble in water, are in most plants fo intimately blended with the gummy and faline, as to be readily taken up along with them. Several of the refinous eathartics, most of the aromatic herbs, all the bitters, astringents, sweets, yield to water their fmell, tafte and medicinal virtues.

The action of this menstruum varies, according as it is applied cold or hot, continued for a longer or shorter time, as the subject itself is more or less refinous, fresh or dry, of a loose or compact texture.

Aromatic herbs, and the leaves of plants in general, yield their virtues most perfectly when moderately dried. The cold element extracts from these, in a few hours, the lighter, more fragrant and agreeable parts; and then begins to take up the grosser and more ungrateful; the liquor, poured successively on fresh parcels of the herb, becomes stronger, richer, thick, unctuous, balfamic: and

herein these preparations have the advantage of distilled waters, which are not mended by a like treatment. These faturated insusions are undoubtedly applicable to valuable purposes in medicine, as they contain, in a small compass, the finer, more subtile and active principles of the vegetable, in a form readily miscible with the sluids of the human body.

The compact, refinous woods, roots and barks, give out their virtues most freely whilst fresh. Dry, they yield little to cold or moderately warm water, and require the force of it boiling. By this procefs, the groffer, more fixt faline and mucilaginous parts are disfolved, the refinous melted out, the volatile diffipated, and the virtues depending on them loft. The fpices which we receive from abroad, the warm feeds of our own growth when dry, fcarce give out their virtues, without fuch a degree of heat as will diffipate them.

Water extracts likewise the gelatinous parts of animals; whence glues, gellies, broths, &c. and takes up some part of calcined calcareous earths

Water may be tinged by vegetable matters of every colour except green; though every vegetable al

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Chap. 13.

Decoctions and Infusions.

will not yield its colour to water: ers (except the yellow ones) to a almost all flowers impart their own colour; leaves, woods and roots, change the infusions of most flow- fomewhat promote it.

red; and alcalies to a green; the former impede the action of the generally a different one. Acids water as a menstruum, the latter

General rules for making decoctions, from the Edinburgh pharmacopæia.

Vegetable fubstances ought to be moderately and newly dried, unless they are expressly ordered otherwise. They ought likewise to be cut and bruifed, before the menstruum is poured on

II.

Woods, roots, feeds, and all those ingredients which are dry and of a compact texture, are to be put in first; and the others added towards the end of the boiling: among thefe last, liquorice is to be reckoned.

III.

All decoctions are to be firained. and after refting for fome time, poured off from the feces; unless they are ordered to be turbid; and even in this case, they ought to be passed through a coarfe strainer.

> DECOCTUM ALBUM. The WHITE DECOCTION.

Take of

Calcined hartshorn, prepared, two ounces; Gum Arabic, two drams;

Water, three pints.

Boil them till only two pints remain, and then strain off the liquor.

Edinb.

Take of Calcined hartshorn, prepared, one ounce ;

Common water, three pints; Simple cinnamon water, one ounce;

White fugar, two drams.

Boil the hartshorn in the common water till only two pints remain; to this decoction, unftrained, add the other ingredients, and mix the whole together.

These decoctions are used as common drink in acute difeafes attended with a loofeness, and where acrimonious humours abound in the primæ viæ. The gum is added in the first prescription, in order to render the liquor lightly glutinous, and thus enable it to fuffain more of the calx; which is the ingredient that the colour, but probably not the virtue, of the medicine de-pends upon. Calcined hartshorn has no quality from which it feems capable either of constringing or ftrengthening the veffels, giving a greater degree of confiftency to thin fluids, or obtunding acrimonious humours. It blunts and abforbs acid juices : but acrimony and acidity are extremely different: there are few (perhaps none of the acute) diforders of adults attended with the latter; and few of infants are unaccompanied therewith. Some have proposed starch as an ingredient in these kinds of decoctions : a finall quantity of this should seem to be a very uleful one.

> DECOCTUM ALBUM COMPOSITUM. Cc3 COM

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COMPOUND WHITE DECOCTION. Edinb.

Take of

Calcined hartfhorn, fix drams; Crabs eyes, three drams;

Comfry roots,

Tormentil roots, each two drams; Common water, three pints ; Simple cinnamon water, one ounce :

meconium, half an Syrup of

ounce.

Boil the roots and powders in the common water, till fuch time as the liquor, when firsined, will amount only to a quart : to this whilst turbid, add the cinnamon water and the fyrup, and mix

them all well together.

This is a very well contrived composition for the purposes of a mild, lightly incraffating restringent. A quarter of a pint, more or lefs, may be taken occasionally, according to the urgency of the fymptoms. The two first ingredients, though they feem intended as the principal ones, are the least nfeful.

GELATINA CORNU CERVI. GELLY OF HARTSHORN. Edinb.

Take of

Hartshorn shavings, half a pound; Water, three quarts;

White fugar candy, in powder, fix ounces;

Mountain wine, a quarter of a pint; Orange (or lemon) juice, one

ounce.

Boil the hartshorn with the water by a gentle heat, in a glazed earthen vessel, till two parts are wasted; strain out the remaining liquor, add to it the other ingredients, and boil the whole over a gentle fire, to the confiftence of a foft gelly.

This is an agreeable, nutritious, animal gelly, and possesses the general virtues of the fubftances of that class. It is occasionally made use of in fevers, &c. tho' not kept in the fhops.

DECOCTUM COMMUNE Pro-CLYSTERE. The COMMON DECOCTION for

CLYSTERS. Lond.

Take of

Mallow leaves, dried, one ounce; Chamemel flowers dried, Sweet fennel feeds, each half an ounce ;

Water, one pint.

Boil them together, and firain out the decoction for ufe.

Take of

Mallow leaves, Mercury leaves,

Chamemel flowers, each half an ounce :

Fennel feed.

Linseed, each two drams; Water, a pint and a half.

Boil them to the confumption of one third of the liquor, and then frain out the decoction.

The title of these decoctions fufficiently expresses their use as the basis of glysters. The chamemel flowers and fennel feeds should not be put in, till towards the end of the process; a part of the virtues of these being foon lost by boiling.

DECOCTUM DIASCORDII. DECOCTION of DIASCORDIUM. Edinb.

Take of

Diafcordium, one ounce; Japan earth, two drams; Spirituous cinnamon water, Syrup of meconium, each one ounce;

Common water, a pint and a half,

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Decoctions and Infusions:

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Boil the diafcordium and Japan earth in the common water, till only a pint of liquor remains after straining; to which, while turbid, add the fyrup and the cinnamon water, and mix the whole well together.

This decoction is used, both in draughts and by the way of glyster, as an anodyne and restringent in fluxes. The quantity here prefcribed contains about two grains and a half of opium, exclusive of the fyrup.

FOTUS COMMUNIS. The COMMON FOMENTATION. Lond.

Take of Abrotanum leaves, dried, Sea wormwood tops, dried, Chamemel flowers, dried, each one ounce;

Bay leaves dried, half an ounce; Water, fix pints. Lightly boil them, and firain out

the decoction for use.

It is left to the choice of the apothecary to take either the male or female abrotamem, that is fouthernwood or lavender cotton : which, though differing from one another in fome respects, may be looked upon as fimilar with regard to the purposes for which this composition is intended: and possibly the fomentation would not be much the worse if neither of them was ufed.

DECOCTUM EMOLLIENS pro FOTU.

EMOLLIENT DECOCTION for FOMENTATIONS.

Take of Mallow leaves, one ounce; Chamemel flowers, Melilot flowers, Elder flowers, each half an ounce; Fenugreek feeds, one ounce;

Water, two quarts. Boil them together.

This decoction may likewise be prepared without the fenugreek feed.

The titles of this and the foregoing decoction, express the pur-poses they are designed for: spirit of wine, which is commonly added in fomentations, is left to be directed by the prescriber in such quantity as particular cafes may

DECOCTUM ad ICTERICOS. DECOCTION for the TAUNDICE. Edinb.

Take of Celandine, roots and leaves, Turmeric. Madder, each one ounce; Millepedes, two hundred; Syrup of the five roots, ounces : Water, three pints.

Boil the celandine, turmeric and madder in the water, till only a quart of liquor remains after fraining; then, having preffed out the juice of the millepedes, add this and the fyrup to the decoction.

The ingredients of which this decoction is composed, have been long held by many as specifics for the cure of the disease expressed in its title. The medicine, though extremely unpleafant, is well calculated to answer many useful purpoles, if well managed and properly affifted. A quarter of a pint may be taken twice a day, or oftner.

DECOCTUM LIGNORUM. DECOCTION of the WOODS.

Take of Guaiacum shavings, three ounces; Raifins of the fun, floned, two ounces; Saffa-

Saffafras wood, shaved, one ounce:

Liquorice, fliced, half an ounce; Water, one gallon.

Boil the guaiacum and raifins with the water, over a gentle fire, to the confumption of one half; adding towards the end, the faffafras and liquorice. Strain out the liquor, and having fuffered it to rest for some time, pour off the clear from the feces.

This decoction is very well contrived, and if its use is duly continued, will do great fervice in fcorbutic and cutaneous difeafes, foulness of the blood and juices, and fome diforders of the breaft; particularly in cold phlegmatic habits. It may be taken by itself, in the quantity of a quarter of a pint, two or three times a day, or used as an affiftant in a courfe of mercurial or antimonial alteratives; the patient in either cafe keeping warm, in order to promote the operation of the medicine.

DECOCTUM ad NEPHRITICOS. NEPHRITIC DECOCTION. Edinb.

Take of

Mashmallow roots,

Liquorice,

Rest harrow root, each half an ounce;

Wild carrot feed,

Linfeed, each three drams ; Pellitory of the wall, one ounce;

Fat figs, four in number;

Raifins of the fun, stoned, two ounces;

Water, fix pints.

Boil them together fo long, that

there may be only four pints of

ftrained liquor.

This decoction is intended chiefly as an emollient, to be liberally drank of in nephritic paroxysms: in which cases, by sostening and relaxing the parts, it frequently relieves the pain, and procures an eafy passage for the fabulous mat-

DECOCTUM NITROSUM. NITROUS DECOCITON Ellinh

Take of

Pure nitre, half an ounce: White fugar, two ounces; Cochineal, one scruple:

Water, two pints and a half. Boil to two pints, then fuffer the whole to reft for fome time, and pour off the clear decoction.

This is an elegant way of difguifing nitre, and rendering it agreeable to the patient, both which intentions are fully answered by the cochineal and fugar. There is no occasion for boiling, unless to furnish the medicine with a name; for the water will diffolve a much larger quantity of the nitre and fugar than is directed above, without any heat; and it eafily extracts a fine colour from cochineal.

The virtues of nitre have been already given in the preceding part. This or other fimilar forms are the most commodious for the exhibition of it; for when given in a folid form, it often occasions great uneafiness about the stomach. Three or four ounces of this decoction may be taken for a dofe.

DECOCTUM PECTORALE. PECIORAL DECOCTION.

Take of

Common barley, Stoned raifins, Figs each two ounces; Liquorice, half an ounce; Water, four pints.

First boil the water with the barley, then add the raifins, and laftly (just before the end of the process) the figs and liquorice; the

ed, may be no more than two pints.

Edinb.

Take of Stoned raisins, Barley, each one ounce; Fat figs, in number four; Florentine orris root, Liquorice, each half an ounce; Harts-tongue leaves, Coltsfootflowers, each one ounce; Water, fix pints.

Boil the water with the raifins, barley, and figs, till only four pints remain: adding, towards the end, the other ingredients; then strain out the liquor for

ufe. Both these decoctions are useful foft pectorals; and very agreeable to the palate, particularly the first. They are good auxiliaries in sharp defluxions on the breast and lungs, and have fometimes done fervice by themselves. They may be drank at pleafure.

DECOCTUM SERPENTARIÆ COMPOSITUM COMPOUND DECOCTION of SNAKEROGT. Edinb.

Take of

Virginian fnakeroot, fix drams; Venice treacle, half an ounce; Cochineal, one fcruple; Syrup of meconium, an ounce and a half; Water, two pints.

Boil the root in the water, to the confumption of half the liquor; adding towards the end, the treacle and cochineal. Then treacle and cochineal. ftrain the decoction off thick, and mix with it the fyrup.

This decoction is given as a fuccedaneum to the compound tincture of inakeroot; and directed to be made only in want thereof. See

boiling is to be continued fo tindura ferpentariae composita in long, that the liquor, when strain- chap. xvi. This watery preparation is nevertheless a medicine of confiderable efficacy, possessing nearly all the virtues of the inakeroot, and the opiate quality of the theriaca; the quantity here prefcribed contains about three grains of opium. It is observable that fnakeroot yields its virtues to water almost as perfectly as to spirituous liquors: and notwithstanding its fubtility of parts, does not lose much in evaporation with either, unless the process is performed by a more hafty fire than there is occation for.

> AOUA HORDEATA. BARLEY WATER. Lond.

Take of Pearl barley, two ounces;

Water, four pints.

First wash the barley from the mealy matter that adheres to it, with fome cold water; then boil it a little with about half a pint of fresh water, which will acquire a confiderable tinge from it. Throw away this tinged water; put the barley into the water prescribed, made first to boil; and continue the boiling till half the water is wasted.

This liquor is to be drank freely. as a diluter, in fevers and other diforders; hence it is of comequence that it should be prepared so as to be as elegant and approable as poffible: for this reaton, it was inferted in the pharmacopoua, and the feveral circumstance contribute to its elegancy for down if any one of them is omitted, the beverage will be less grateful. However trivial, medicines of this class may appear to be, they are of greater importance, in the cure of fundry acute difeafes, than many more laborious preparations.

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JUS VIPERINUM.

VIPER BROTH.

Lond.

Take a middle fized viper, freed from the head, skin, and inteftines; and two pints of water. Boil them to a pint and a half; then remove the veffel from the fire; and when the liquor is grown cold, let the fat, which congeals upon the furface if the viper was fresh, be taken off. Into this broth, whilst warm, put a pullet of a moderate fize, drawn, and freed from the fkin, and all the fat, but with the flesh entire. Set the vessel on the fire again, that the liquor may boil; then remove it from the fire, take out the chicken, and immediately chop its flesh into little pieces: put these into the liquor again, fet it over the fire, and as foon as it boils up, pour out the broth, first carefully taking off the fcum.

Here also all the circumstances fubservient to the persection of the broth are carefully set down: and even plain chicken broth, for the use of the sick, ought to be made

in a fimilar manner.

This feems to be one of the best preparations of the viper; all the benefit that can be expected from that animal being by this means obtained. It is a very nutritious and restorative food : continued for a length of time, it has fometimes done good fervice in leprous and other obstinate cutaneous diseases. The dried flesh of the vipers, brought from abroad, is far inferior to it, and has very little, if any virtue at all; the wines and tincture of the animal, probably have not much; the volatile falt, howdoes not appear to differ from that producible from every animal fubstance. See page 303.

MUCILAGO SEMINUM CYDONIORUM. MUCILAGE of QUINCE SEEDS.

Take of

Quince feeds, one dram;
Water, fix ounces by measure.
Boil them, over a fost fire, till the
water grows slimy almost like
the white of an egg; then pass
it through a linen cloth.

This is a pleasant fost mucilage, of a somewhat sweetish taste, and a light agreeable smell: in these respects, and in its easy solubility in water, it differs from the mucilage of gum tragacanth which some have supposed it similar to: it has another difference, to its disadvantage, being apt to grow mouldy in keeping.

SERUM ALUMINOSUM. ALUM WHEY.

Lond.

Take of

Cows milk, one pint;
Alum, in powder, two drams.
Boil them till the milk is curdled,
and then carefully separate the
whey.

This medicine is a ftrong, tho' not very grateful, aftringent: immoderate uterine fluxes, and the diabetes, frequently yield to it, if taken in the quantity of a quarter of a pint three or four times a day. It has been recommended in intermittent fevers, the quantity above prescribed to be taken before the approach of a fit, divided into different doses.

SERUM SCORBUTICUM. SCORBUTIC WHEY.

Lond.

Take of

Cows milk, one pint;
Scorbutic juices, a quarter of a pint.

Boil

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Boil them till the milk is curdled, and then carefully separate the whey.

This whey may be used as common drink in scorbutic cases: the quantity above directed, at least ought to be taken every day, if any confiderable effect is expected from it.

INFUSUM AMARUM. BITTER INFUSION. Edinb.

Take of

Gentian root, half a dram; Lesser centaury tops, a dram; Boiling water, a quarter of a pint.

Infuse them four hours, and then filter the liquor for use.

INFUSUM AMARUM SIMPLEX. SIMPLE BITTER INFUSION. Lond.

Take of Gentian root.

Fresh yellow rind of lemon peel, carefully freed from the inner white part, each half an ounce;

Dry yellow rind of Seville orange peel, freed in like manner from the white, one dram and a half;

Boiling water, three quarters of a pint.

Macerate for an hour or two, then filter the liquor through paper, or pass it through a strainer without pressure.

Both these liquors are very elegant and useful bitters; the latter in particular is as agreeable a one as can well be contrived, the peels communicating a fine flavour, which is the only addition that the gentian stands in need of. The committee informs us, that "most of the ingredients, which usually enters the composition of bitter insufficions, being prepared by them

" feparately, amongst all the "frong bitters, gentian gave the most unexceptionable colour, but it wants the assistance of " fome ingredient to furnish an ac-" ceptable flavour; fcarce any of " the bitters accompanied with fla-" your, fuch as zedoary, calamus aromaticus, and the like, ap-" peared to be truly grateful, ex-" cept orange peel and cardamom se feeds: but cardamem feeds are " mucilaginous, and render the " liquor cloudy, and orange peel " is accompanied with a hot oil " that requires it to be but spar-" ingly used: lemon peel, in its " outer rind, to which all its fla-" your is confined, is not a bitter, " but fupplies the gentian most " fuccessfully with what is want-" ed; tho' the composition, by a " moderate addition of orange " peel, becomes yet more per-44 feet."

INFUSUM AMARUM PURGANS. PURGING BITTER INFUSION. Lond.

Take of Send,

Yellow rind of lemon peel, fresh, each three drams;

Gentian root,

Yellow rind of Seville orange peel, dry,

Lesser cardamom feeds, freed from the husks, each half a

dram;
Boiling water, five ounces by
measure.

Macerate them together, and when cold firain off the liquor.

INFUSUM AMARUM
cum SENA.

BETTER INFUSION
quith SENA.
Edinb.

Take of

Sena

Leffer centaury tops, each one dram:

Gentian root,

Sweet fennel feeds, each half a

Boiling water, a quarter of a

Infuse them for four hours, and then filter the liquor.

This infusion may likewise be prepared with two, three, or more times the quantity of fena.

Both these are useful purging bitters. The quantities here prescribed seem intended for a dose; the first is the largest, and the other the smallest dose, that fena is usually given in.

INFUSUM SENÆ COMMUNE. COMMON INFUSION of SENA. Lond.

Take of

Sena, an ounce and a half; Crystals of tartar, three drams; Leffer cardamom feeds, freed from the hufks, two drams; Water, one pint.

Boil the crystals of tartar in the water, until they are diffolved; then pour the water, whilst it continues boiling, upon the other ingredients; and when cold, ftrain off the liquor for ufe.

In our former pharmacopæia, an alcaline falt was used in the infusion of sena, instead of the acid one here directed. The first contributed to promote the operation of the medicine, by superadding a degree of purgative virtue of its own, and by enabling the water to extract fomewhat more from the capital ingredient, than it would be capable of doing by itself; whilft acids have rather a contrary effect. Experience however has fufficiently thewn (as the committee affare

us) "that this infusion, and the " following one with lemon juice, " do not fail in their intention: "and in a medicine, very nau-" feous to many, it is of principal " consequence to prepare it so, that the lightest and least disgussful " parts may be extracted." line falts increase the offensiveness of the fena; whilst crystals of tartar confiderably improve the colour of the infusion, and likewise render the taste to some persons less disagreeable. Soluble tartar should feem a good ingredient in these kinds of compositions; as it not only improves the tafte, but promotes the purgative virtue of this medicine; this addition is faid also to render the infusion less apt to gripe, or occasion flatulencies.

INFUSUM SENÆ LIMONIATUM. INFUSION of SENA with LEMON.

Lond.

Take of

Sena, an ounce and a half; Yellow rind of lemon peel, fresh, one ounce:

Lemon juice, one ounce, by measure:

Boiling water, one pint. Macerate them together, and when cold, strain off the infusion.

This is a very pleafant and fufficiently efficacious purge: the committee inform us, that it is the most agreeable form they have been able to contrive for the exhibition of fena, to fuch as are more than ordinarily offended with its flavour. The dofe is from two ounces to four.

INFUSI SENÆ UNCIÆ QUATUOR. A FOUR-OUNCE INFUSION of SENA. Edinb.

Take

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Take of

Sena, three drams; Greater water figwort leaves, two

drams;

Vitriolated tartar, Ginger, each ten grains;

Boiling water, four ounces. Infuse them for four hours, and then strain off the liquor for

use.

The greater water figwort has been discovered to be the Brazilian herb iquetaia, celebrated as a specific corrector of the flavour of sena: that plant however has not been found from experience to answer this purpose so effectually, as it was supposed to do, before it was commonly known. See the article Sena, in the first part.

DECOCTUM TAMARINDORUM

cum SENA.

DECOCTION of TAMARINDS

with SENA.

Edinb.

Take of

Tamarinds, fix drams; Crystals of tartar, two drams; Sena, one dram;

Syrup of violets, one ounce; Water, a pint and a half.

Boil the water with the tamarinds, in an earthen vessel, so long that there may be a pint of strained liquor; in which, whilst hot, insufe the sena for a night: afterwards strain off the liquor, and add to it the syrup of violets

This decoction may likewife be prepared with two, three, or more times the quantity of fena,

This is a fufficiently efficacious, and not difagreeable purge. The quantity here prescribed, is intended for a dose, which may be divided into three or four parts, to be taken at short intervals, as the stomach will bear it.

AQUA CALCIS SIMPLEX.

SIMPLE LIME WATER.

Lond.

Take of

Quicklime, oue pound; Water, twelve pints.

Pour the water gradually upon the lime, and when the ebullition is over, let the whole stand to fettle; then filter the liquor through paper.

AQUA CALCIS feu BENEDICTA. LIME WATER. Edinb.

Take of

Quicklime, one pound; Warm water, one gallon.

Stir them well together, and when the lime has subfided, pour off the clear liquor, which is to be kept in close vessels.

This water may likewife be made from calcined oystershells.

The water should be poured flowly upon the lime, otherwise a kind of muddy substance forms upon the outside, which defends it from the action of the mentrum. This liquor should be fet in a cool place, and not kept too long; for on long standing, great part of what the water had taken up from the lime will be separated in form of a fine white cream.

The change produced by this process is very remarkable: not-withstanding the extreme acrimony of the quicklime itself, neither the part which the water extracts, nor that which is left behind, nor the vapour which exhales, have any considerable acrimony: the remaining lime is almost inspid; the folution has only a rough drying taste; the vapour, being catched, proved almost merely aqueous, very sightly alcalescent, Though quicklime, exposed to the strongest fire that our furnaces are capable of giving, suffices

weight, and if fully calcined at inconvenience. first undergoes no diminution at all; yet the part which water diffolves, when thus feparated from the rest, totally exhales by a heat not very ftrong. Some have reported, that water will thus diffolve and volatilife about one half of the lime, but there is not near fo much taken up in the common process for making lime-water; nor have I found above one third of it diffolved on boiling it repeatedly in fresh parcels of water.

Lime water has been found of great fervice in fcrophulous and fcorbutic complaints, fome kinds of alvine fluxes, female weaknesses. and other diforders, proceeding from a laxity and debility of the folids; particularly in corpulent and phlegmatic habits. It is given internally, in the dose of a quarter of a pint, three or four times a day; and likewife ufed externally for washing foul ulcers. See CALX VIVA, in the first part, page 102.

AQUA BENEDICTA COMPOSITA. COMPOUND LIME WATER. Edinb.

Take of

Saffafras, root and bark, shaved, two ounces; Nutmegs, three drams;

Liquorice, fliced, or well bruifed, one ounce;

Lime water, fresh made, four Balfamic fyrup, two ounces.

Digeft the lime water with the roots and nutmegs for two days, in a close vessel; then strain the liquor, and add to it the fyrup.
This composition is taken from

Bates's pharmacopæia; but the raifins, there ordered, are here o- confiderably promote its medicinal mitted, as they never fail to fer- efficacy, especially when intended ment and spoil the medicine: the against cutaneous disorders, and

fusiers no considerable loss of balfamic fyrup, is not liable to this

AQUA CALCIS MINUS COMPOSITA. LIME WATER LESS COMPOUNDED. Lond.

Take of

Liquorice, one ounce; Saffafras bark, half an ounce : Simple lime water, fix pints. Macerate without heat for two days, and then strain off the li-

> AQUA CALCIS MAGIS COMPOSITA. LIME WATER MORE COMPOUNDED.

Lond.

Take of Guaiacum wood, shaved, half a pound;

Liquorice, one ounce; Saffafras bark, half an ounce; Coriander feeds, three drams: Simple lime water, fix pints.

Macerate without heat for two days, and then strain off the liquor.

This last water has been used for some time in our hospitals, under the title of AQUA LIBE-RANS. The guaiacum does not communicate fo much of its virtue as might be wished: some have therefore proposed boiling it in the lime water before the other ingredients are added; but though this treatment more perfectly extracts the virtues of the wood, it greatly injures those of the lime water.

In all these compositions, the additional articles take off the ill flavour of the lime water, render it more grateful both to the palate and stomach, and at the same time

They may be taken in the fame quantities as the fimple lime water, and continued for some time; the patient keeping moderately warm during their use.

TINCTURA ROSARUM. TINCTURE OF ROSES.

Take of

Red rose buds, freed from the white heels, half an ounce : Strong fpirit (called oil) of vi-

triol, one scruple;

Boiling water two pints and a half:

Double refined fugar, one ounce and a half.

First mingle the spirit of vitriol with the water, in a glass, or glazed earthen veffel, and in this mixture macerate the roses; when the liquor is grown cold, ftrain it, and add the fugar. Edinb.

Take of

Redrofes, cleared from the heels, one ounce;

Spirit of vitriol, one dram; Boiling water, four pints; White fugar, four ounces.

Mix the acid spirit with the water, and infuse the roses therein for four hours; then filter the tincture, and add to it the fugar.

Some have directed the oil of vitriol to be dropt upon the rofes before the water is put to them: but this method is certainly faulty, for fuch of the rofes as this caustic liquor falls upon undiluted, will be burnt up by it, and have their texture defroyed. Others have made an infusion of the roses in water first, and then added the acid, from an apprehension that if this acid is added to the water, it would weaken its power as a menstruum; but, as the committee observe, whatever the acid fpirit will hinder the water

foulness of the blood and juices. from extracting, it must precipitate, if added afterwards; though in this preparation, the oil of vitriol bears fo fmall a proportion to the water, that its effect, in this respect, will be very little. The infusion should be made in a glass, or stone-ware vessel, rather than a glazed earthen one, for the acid will be apt to corrode the glazing of the latter.

This tincture is of an elegant red colour, and makes a very grateful julep in all cases that require mild coolers and subastringents: it is well fuited for drinking after bo-lufes, or electaries of the bark; and likewise makes a good gargle.

TINCTURA MENTHÆ. TINCTURE OF MINT.

Take of

Simple spearmint water,

Spearmint leaves dried,

Let them sleep together in a close veffel, fet in a warm place, for four hours, and then frain the tincture.

This tincture is very rich in the virtues of the mint, and proves much superior as a medicine to the cohobated water, which fome have firongly recommended.

TINCTURA RHABARBARI. TINCTURE of RHUBARB. Edinb.

Take of

Rhubarb, cut and bruifed, one ounce;

Vitriolated tartar, half a dram; Cochineal, one scruple;

Small cinnamon water, one pint. Digest them for a night in a warm place, and then frain out the tincture for ufc.

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(400)

CHAPTER XIV.

ACETA.

VINEGARS.

7 INEGAR is rarely applied as a menstruum for medicinal subjects. It extracts the virtues of feveral in tolerable perfection; but at the same time, its acidity makes a notable alteration in them, or superadds a virtue of a different kind. Some drugs however, vinegar, for particular purposes, excellently assists, or coincides with, as fquills, garlic, ammoniacum, and others: and in many cases, where this acid is itfelf principally depended on, it may be advangeously impregnat-ed with the slavour of certain vegetables; most of the odoriferous flowers impart to it their fragrance, together with a fine purplish, or red colour: violets, for instance, if fresh parcels of them are infused in vinegar in the cold for a little time, communicate an exceeding pleafant flavour; though they do not, as Neuman and his commentator affirm, tinge it of a blue of this vinegar in contagious difcolour.

ACETUM ROSATUM. VINEGAR of ROSES.

Take of

Red rofes, clipped from the white heels, and dried,

Strong vinegar, one gallon. Expose them to the fun in a close vessel, for forty days, and then strain off the liquor.

This is scarce otherwise made use of than for embrocating the head and temples, in some kinds of head-achs, &c. in which it has now and then done good fervice.

ACETUM RUTACEUM. VINEGAR of RUE.

This is made [from the tops of rue after the fame manner as the foregoing.

It stands recommended as an antipestilential; but is little regarded in the present practice, and not often kept in the shops.

ACETUM SAMBUCINUM. VINEGAR of ELDER. Edinb.

This is made after the fame manner, [from the flowers of elder.]

Some have had a great opinion eafes, both as a prefervative and cure: the medicine is, no doubt, of confequence as vinegar, though not as a preparation of elder.

ACETUM SCILLITICUM. VINEGAR of SQUILLS.

Land.

Take of Dried fquills, one pound; Vinegar, fix pints.

Mace-

Macerate the squills in the vinegar with a gentle heat; then press out the liquor, and set it by till the seces have subsided; the vinegar being afterwards poured off, add to it about one twelsth its quantity of proof spirit, that it may keep the longer from growing mothery.

It should seem most convenient to add the spirit before the vinegar is decanted; for by this means, the purification is accelerated and rendered more perfect; and the liquor prevented from growing foul a second time, which it is apt to do upon the affusion of the spirit, however carefully it may have been depurated before.

Edinb.

Take of Squills, cut into thin flices, one pound;

Strong vinegar, fix pints;
Expose them to the sun after the manner directed for making vinegar of roses; and afterwards press out and strain the li-

As the root in this last prescription is intended to be used fresh, the vinegar proves weaker of the squills than the first: a pound of the fresh squill is not equivalent to three ounces when dry. Vinegar has been supposed by some to be a corrector of squills, that is, to diminish their virtue: but this does not appear from experience, the acidity of the liquor only rendering the pungent bitterness of the root somewhat less perceivable.

Vinegar of fquills is a medicine of great antiquity; we find in a treatife attributed to Galen, an account of its preparation, and of many particular virtues then afcribed to it. It is a very powerful thimulant, aperient, and attenuater of tenacious juices: and hence is

frequently used, with good succefs, in diforders of the breaft occasioned by a load of thick viscid phlegm, for promoting urine in hydropic cases, &c. See the section of acrids, page 60. The dose of this medicine is from a dram to half an ounce : where crudities abound in the first passages, it may be given at first in a larger dose, to evacuate them by vomit. It is most conveniently exhibited along with cinnamon or other agreeable aromatic waters, which prevent the nausea it would otherwise, even in fmall doses, be apt to occasion.

ACETUM THERIACALE. TREACLE VINEGAR. Edinb.

Take of
Venice or Edinburgh treacle,
one pound;
Strong vinegar, four pints.

Digest them together in a very gentle heat for three days, and then strain out the vinegar for use.

This medicine has been greatly celebrated in acute and contagious difeases, as a sudorific and alexipharmac. Some have chosen to employ the vinegar as a vehicle, rather than as a menstruum, for the theriaca; in either case, it is indifputably, for fundry purposes, To half an an useful addition. ounce by measure of the compofition here prescribed, there goes fomewhat more than half a grain of opium; though it does not appear, that the medicine has all the effect which might be expected from that article.

ACETUM LITHARGYRITES, VINEGAR of LITHARGE.

Edinb.

D d Take

Take of

Litharge of gold, four ounces; Strong vinegar, one pint.

Digest in a sand heat for four days, frequently shaking them: then filter the liquor for use.

This liquor may be looked upon as a folution of facebarum faturni, of which already; fee page 324. It is only used externally as a cosmetic, against cutaneous eruptions, redness, inflammation, &c. But even here, it is not void of danger: there are examples of its continued use having occasioned fundry ill consequences.



LASONA NAXILA AND THE CHAPE

Streets and one bonce of in-

hear for four eruptions, reduct, inflammation CHAPTER XV.

INES.

HE original intention of medicated wines was, for exhibiting medicines, which were to be continued for a length of time, in the most familiar and agreeable form; by this means, a course of remedies was complied with, notwithstanding the repugnance and aversion which the sick often manifest to those directly furnished from the shops; and hence the inferior fort of people had their medicated ales. Nevertheless, as vinous liquors excellently extract the virtues of feveral fimples, and are not ill fitted for keeping, they have been employed as officinal menttrua alfo; and fubstances of the greatest esticacy are trufted in this form.

VINUM ALOETICUM ALCALINUM: ALCALINE ALOETIC WINE. Land.

Take of

Any fixt alcaline falt, eight ounces;

Socotorine aloes, Saffron,

Myrth, each one ounce; Salammoniac purified, fix drams; Mountain wine, two pints.

Macerate without heat for a week or longer; then filter the wine through paper.

This is the ELIXIR PROPRI-ETATIS HELMONTII, with

fome little variations, which affect the compounder rather than the composition. It is observable, that though fal ammoniac is used as an ingredient, yet the preparation when finished does not contain any; the fame change happening to that falt here, as in the diffillation of the Spiritus Salis ammoniaci.

Helmont's elixir, in our preceding pharmacopæia is thus directed:

Take of

Red tartar,

Nitre, each twelve ounces; White wine, two pints;

Aloes,

Saffron, each an ounce and a half.

Let the nitre and tartar be reduced into powder, and the mixture thrown by degrees into an hot crucible: when fufficiently calcined, pour the matter into a glass mortar, and add the wine. fo as to make a ley thereof; with which ley, a tincture is to be drawn from the aloes and faffron.

Take also of

Sal ammoniac, eight ounces; Spring-water, twenty ounces:

White wine, one pint: Myrth, an ounce and a half.

Dissolve the fal ammoniac in the water, firain the folution, and evaporate it to dryness. One ounce of this dry falt is to be Dd2

diffolved in the wine; and with this folution, draw a tincture from the myrth.

Mix both tinctures together, in a close vessel, so as to make them into an elixir.

The preparation made after this troublefome method is not different from the foregoing. The nitre and tartar, when calcined together, form an alcaline falt, fimilar to those which the shops are supplied with at a cheaper rate.

Helmont and others have entertained a very high opinion of this medicine, and looked upon it as a vivifying and preferving balfam, capable of continuing health and prolonging life to the utmost possible limits. The medicine is doubtless a very efficacious and useful one for many purposes: it may be so managed as to attenuate viscid juices and open obstructions in the remoter parts, and promote evacuation by almost all the emunctories. In dose so one, two, or three drams, it increases the urinary secretion; and if the patient is kept moderately warm, generally proves diaphoretic or sudorisis; in larger doses, it gently loosens the belly.

VINUM AMARUM. BITTER WINE. Lond.

Take of

Gentian root,

Yellow rind of lemon peel, fresh, each one ounce;

Long pepper, two drams;
Mountain wine, two pints.

Macerate without heat, and ftrain out the wine for use.

This is a very elegant bitter, confiderably warmer than the watery infusion. Gentian and lemon peel, as we have already seen, make a bitter of a very grateful flavour: "the spice here added

" was felected after the trial of many other materials."

VINUM ANTIMONIALE. ANTIMONIAL WINE. Lond.

Take of

Crocus of antimony, washed, one ounce;

Mountain wine, a pint and a half.

Digest without heat, and filter the wine through paper.

VINUM EMETICUM. EMETIC WINE. Edinb.

Take of

Crocus metallorum, one ounce.

Mountain wine, one pint.

Stir them well together; then let the mixture fland till it has perfectly fettled, and carefully pour off the wine.

However carefully the fettling and decantation are performed, the filtration of the wine through paper appears to be necessary, lest fome of the finer parts of the crocus should chance to remain sufpended in substance. It is not here as in most other wines and tinctures, where the matter left undiffolved by the menstruum is of little confequence: the antimonial crocus. after the action of the wine, continues as virulent as ever, and capable of impregnating fresh parcels of the liquor as strongly as the first; and this, in appearance, inexhaustibly; yet after thirty repleated infusions, it has been found fearce fenfibly diminished in weight.

The antimonial wine possesses the whole virtues of that mineral, and may be so dosed and managed, as to perform all that can be essected by any antimonial preparation; with this advantage, that as the active part of the antimony is here already dissolved and rendered

miscible

miscible with the animal fluids, its quently exhibited in chlorotic and operation is more constant and certain. Given from ten to fifty or fixty drops, it acts as an alterative and diaphoretic; in larger doses, as a diuretic and cathartic; whilft two, three, or four drams prove virulently emetic. It has been chiefly used in this last intention, in some maniacal and apoplectic cases; and hence gained the name of emetic

VINUM CHALYBEATUM. STEEL WINE.

Lond.

Take of

Iron filings, four ounces; Cinnamon,

Mace, each half an ounce; Rhenish wine, four pints.

Macerate without heat for a month, frequently shaking the vessel, then strain off the wine for use. Edinb.

Take of

Iron filings, three ounces; Cochineal, half a dram;

Rhenish wine, two pints. Digest in a fand heat for ten days, and then pass the wine through a

Both these wines are sufficiently elegant ones: Rhenish is an excellent menstruum for steel, and diffolves a confiderable quantity of it: the cochineal, in the fecond, imparts a fine colour; and the spices, in the first, give the liquor an agreeable flavour, make it fet easier on the stomach, and likewise promote its medicinal efficacy. Some have objected to the use of heat: which by impregnating the menfruum more strongly with the metal, renders it more unpleafant to the tafte: but where this is complained of, the remedy is eafy, diluting it with more wine.

Steel wine is a very useful preparation of this metal, and freother indispositions where chaly-beates are proper. Boerhaave recommends it as one of the noblest medicines he was acquainted with, for promoting that power in the body by which blood is made, when weakened by a bare debility of the over-relaxed folids, and an indolent, cold, aqueous indisposition of the juices: for in this cafe, fays he. no virtue of any vegetable or animal fubiliance, no diet, or regimen, can effect that, which is effeeled by iron : but it proves hurtful, where the vital powers are already too firong, whether this pro-ceeds from the fluids or the folids. The dofe is from a dram to half an ounce; which may be repeated two or three times a day.

Some direct folutions of iron made in wine or other vegetable acids, to be evaporated to the confiftence of an extract, under the title of EXTRACTUM MARTIS. These preparations have no advantage, in point of virtue, above the common chalybeates; though in fome forms, that of pills in particular, they may be rather more commodiously exhibited, than most of the officinal chalybeates of equal efficacy. They may be made into pills by themselves, and are tenacious enough to reduce other fub-

stances into that form.

VINUM CROCEUM. SAFFRON WINE. Lond.

Saffron, one ounce;

Canary, one pint.

Macerate without heat, and strain off the wine.

Canary has been objected to by fome, as an improper menstruum for medicinal simples, since it contains a large quantity of unchous matter, which impedes its disfolving

Dd3 power ;

power: a pint of this fort of wine left, upon evaporation, two ounces of a mellaginous fubftance, not unlike honey boiled hard. It is nevertheless, for faffron, a very well adapted menstruum, as not only fufficiently loading itself with its virtues, but likewife coinciding in the general intention of the medicine, that of a cordial. The preparation made with canary is also better fitted for keeping than when wines that have any tendency to acidity are employed; for tin-Etures of faffron drawn with these last, foon lose their fine colour; whilft those made with the first retain it for a much longer time. The dose of this tincture is from one dram to three or more.

> VINUM IPECACOANHÆ. WINE of IPECACOANHA. Lond.

Take of

Ipecacoanha, two ounces; Yellow rind of Seville orange peel, dried, half an ounce; Canary, two pints.

Macerate without heat, and strain out the wine.

TINCTURA IPECACUANHÆ. TINCTURE of IPECACUANHA. Edinb.

Take of Ipecacuanha, in powder, one ounce;

Cochineal, one fcruple; Mountain wine, one pint. After two days digestion, let the tincture be filtered for use.

Both these wines are very mild and fafe emetics, and equally ferviceable, in dyfenteries alfo, with the ipecacoanha in fubfiance; this root yielding nearly all its virtues both to the mountain and canary wines here ordered, as it does a good share of them even to aqueous liquors. The orange peel in

the first of these prescriptions, gives the liquor an agreeable flavour; and the cochineal, in the fecond imparts a fine red colour, but for this reason has been by some objected to, not a few having been alarmed at the colour of what they threw up, as if it proceeded from blood. The dofe of these tinctures is half an ounce, more or less according to the age and firength of the patient.

VINUM VIPERINUM. VIPER WINE.

Lond.

Take of

Dry vipers, two ounces; Mountain, three pints.

Macerate with a gentle heat for a week, and then strain off the wine.

It has been disputed whether live or dry vipers are preferable for making this medicine: fuch as are moderately and newly dried, are perhaps the most eligible, since by exficcation they feem to lofe only their phlegmatic or aqueous parts. Whether they communicate to the wine, either when used fresh or dry, fo much virtue as they are supposed to do, is greatly to be doubted. Some compositions under this name have been highly celebrated, as restoratives, in debilities and decays of constitution; but what virtues of this kind they possessed, were supplied chiefly from other ingredients.

VINUM MILLEPEDATUM. WINE of MILLEPEDES.

Take of

Live millepedes, bruifed, two ounces;

Rhenish wine, one pint. Infuse them together for a night, and afterwards press the liquor through a strainer.

This

This wine has been commended as an admirable cleanfer of all the viscera, yielding to nothing in the jaundice, and obstructions of the kidneys or urinary passages, of excellent fervice in almost all chronical distempers, even in scrophulous and strumous swellings, and in defluxions of rheum upon the eyes. But those who expected these extraordinary virtues from it, have often been deceived; and at prefent, there are few who have any great dependence on it. It is directed to be given from half an ounce to two ounces.

TINCTURA CEPHALICA. CEPHALIC TINCTURE.

Take of

Peony roots, two ounces;

Cafumunar,

White dittany roots, each fix drams;

Wild valerian root,

Missetoe of the oak, each one ounce;

Peacock's dung,

Rofemary flowers, each half an ounce;

French white wine, fix pints. Digest them together for four days, and then filter the tincture.

This composition is very fingular with regard to the choice of its ingredients: the roots of cafumunar and wild valerian, and the rofemary flowers, are indisputably well chosen; these coincide in one general intention; and feem to rinprove and heighten the fmell, tafte, and virtue of each other; but the peony roots, white dittany, and milletoe of the oak, are mere expletives, and the other fifthy article is too ridiculous an one to be admitted in medicinal compositions.

Here it may be proper to obferve, that though fome of the distilled waters, formerly spoken of,

receive many supernumerary ingredients, without any confiderable injury to the produce; yet in medicines prepared by infusion, it is far otherwife. For there, ingredients, which give nothing over do little harm: but as all those commonly employed in infusions communicate fomething to the menstruum, so, if superfluous ones are admitted, they load the liquor with an useless matter, and occupy in it the place that ought to be possessed by the more efficacious.

TINCTURA CEPHALICA PURGANS. PURGING CEPHALIC TINCTURE.

Edinb.

This is made by adding to the foregoing, of

Sena, two ounces;

Black hellebore roots, one ounce; French white wine, two pints. The title of this medicine expresses

the purposes it is defigned for. It is but weakly purgative.

TINCTURA HELLEBORI NIGRI.

TINCTURE of BLACK HELLEBORE.

Take of

Black hellebore roots, ounces ;

Cochineal, half a dram;

Mountain wine, two pints. Digeft with a very gentle heat for

four days, and then filter the tincture for ule.

This tincture is nearly fimilar to the tingura melampodii, drawn with proof spirit, of which hereafter.

TINCTURA RHABARBARI VINOSA. VINOUS TINCTURE of

RHUBARB.

Lond. Dd 4

Take

Take of

Rhubarb, two ounces;

Leffer cardamom feeds, freed from the hufks, half an ounce; Saffron, two drams;

Mountain wine, two pints.

Macerate without heat, and then strain off the tincture.

This is a warm, cordial, laxative medicine. It is used chiefly in weakeness of the stomach and bowels, and some kinds of looseness; for evacuating the offending matter, and strengthening the tone of the viscera. It may be given from half a spoonful to three or four spoonfuls or more, according to the strength of the patient, and the purposes it is intended to answer.

TINCTURA SACRA.

Take of

Socotorine aloes, eight ounces; Canella alba, two ounces; Mountain wine, ten pints.

Reduce the aloes and canella feparately into powder, then mix, and pour on them the wine; afterwards macerate without heat, for a week or longer, occasionally shaking the vessel; lassly, strain off the wine.

It will be convenient to mix with the powders fome white fand, well washed from dirt, to prevent the aloes from concreting, which it is apt to do upon being meistened.

Edinl

Take of Socotorine aloes in powder, one ounce;

Leffer cardamom feeds,

Virginian inakeroot, each one dram;

Cochineal, one scruple;

Mountain wine, a pint and a half.

Digest in a very gentle heat for

two days, and then strain off the

This medicine has long been in great efteem, not only as a cathartic, but likewise as a stimulus; the wine diffolving all that part of the aloes in which thefe qualities refide, a portion only of the lefs active refinous matter being left. The aromotic ingredients are added, to warm the medicine, and fomewhat alleviate the ill flavour of the aloes : canella alba, or cloves. are faid, among numerous materials that have been made trial of, to answer this end the most fuccessfully. The snakeroot in the second of the above prescriptions, feems defigned for promoting the stimulating virtue of the aloes, and thus extending its action to farther purposes than it is by itself capable of. Probably in the fame intention, afarum was made an ingredient in our former pharmacopæias; in the edition preceding the prefent, the tincture is as fol-

Take of

Aloes, eight ounces;
Afarum,
Cinnamon,
Zedoary,
Cardamom feeds,
Saffron, each four drams;
Cochineal, a fcruple;

Mountain, ten pints.

Pour the wine on the other ingredients reduced into powder, digeft them together, and afterwards strain off the tincture for

The tindura facra appears from long experience, to be a medicine of excellent fervice in languid, phlegmatic habits, not only for cleanfing the prime vize, but likewise for attenuating and dissolving viscid juices in the remoter parts, stimulating the solids, warming the

habit, promoting or exciting the uterine purgations, and the hæ-morrhoidal flux. The dose, as a purgative, is from one to four ounces, or more: it may be introduced into the habit, fo as to be productive of excellent effects, as an alterant, by giving it in small doses, at proper intervals; thus managed, it does not for a confiderable time operate remarkably by flool; but at length proves purgative, and occasions a lax habit of much longer continuance, than that produced by any other cathar-

TINCTURA SERPENTARIÆ COMPOSITA. COMPOUND TINCTURE of SNAKEROOT.

Take of Virginian fnakeroot, two ounces; Theriaca, one ounce; Cochineal, one dram; Mountain wine, two pints. Digest them in a gentle heat for

four days, and then strain off the

This tincture is a powerful alexipharmac: and in this intention has not unfrequently been relied on, in malignant fevers, and other cases, where a sweat or diaphorefis were to be promoted. Three ounces of it, by measure, contain about half a grain of opium.

TINCTURA AD STOMACHICOS. STOMACHIC TINCTURE.

Take of Calamus aromaticus, Galangal, Gentian root, Zedoary, Orange peel, Peruvian bark, each two ounces; Wormwood tops,

Leffer centaury. Chamemel flowers, Cardous benedictus feeds, each one ounce; Iron filings (to be tied up in a bag) fix ounces;

French white wine, two gallons. Digest for the space of four days, and then filter the tincture.

This tincture may likewife be made without the iron.

This medicine is a very efficacious one for the purpofes expreffed in its title; but is not very agreeable to the palate. The omission of the unnecessary articles would render it much more elegant and grateful; viz. calamus aromaticus, galangal, zedoary, centaury, the wormwood tops, chamemel flowers, and carduus feeds. A tincture, drawn from the remaining ingredients, proves a medicine of great service in weakness of the flomach and chylopoietic organs, and in a lax, flaccid flate of the viscera in general.

TINCTURA THEBAICA, THEBAIC TINCTURE:

Take of Strained opium, two ounces; Cinnamon, Cloves, each one dram ;

Mountain wine, one pint. Macerate without heat for a week,

and then filter the tincture thro'

This is the LIQUID LAUDA-NUM of SYDENHAM, with the exchange of canary wine for mountain, and the omission of an ounce of faffron. The aromatics in the form above are in fo fmall quantity, that the prescriber can scarce expect any confiderable effect from them, the proportion of each that goes to a grain of opium, amounting to no more than the fixteenth part of a grain : even these minute propor-

proportions, however, are in good measure sufficient to take off the ill odour of the opium, which seems to be all that is intended by them.

TINCTURA OPII, feu
LAUDANUM LIQUIDUM.
TINCTURE of OPIUM, or
LIQUID LAUDANUM.
Edinb.

Take of

Crude opium, two ounces; English faffron, one ounce; Canary wine,

French brandy, each ten ounces. Digest them together in a gentle heat of sand, and afterwards strain off the tincture.

The addition of proof spirit in this prescription, prevents an inconvenience, which the tinctures of opium made either in vinous or Spirituous liquors alone, are subject to; viz. throwing out, on keeping, a confiderable part of the opium; which, in the spirituous tinctures, falls to the bottom, and in the vinous, forms a crust towards the furface, about the fides of the glass: the quantity which thus feparates, if the tincture is long kept, amounts in either case, to about one fourth of the opium: fo that the medicine, newly made, is perhaps one fourth stronger, than after it has been kept; a circumfiance certainly of great confequence, though not taken notice of by any pharmaceutical writer we have confulted, except the commentator on the Edinburgh pharmacopœia.

With regard to the virtues of these preparations, they have none

oberately and newly street. The mentirement of powers on

diffinct from those of simple opium : the quantity of additional ingredients in the largest dose that can be ventured on, being two inconfiderable to produce any fenfible effect. The faffron has been looked upon as a corrector of onium. but the ill qualities it was supposed to correct, are merely imaginary. The principal advantages of exhibiting opium in this form are, that by being already diffolved, it exerts itself the fooner in the body; and that by fome perfons, liquids are more commodiously taken, than a bolus or pill. The common doses of these tinctures are from ten drops to forty, fifty, or more, according to the exigencies of the cafe. It were to be wished, that the dose could be more exactly afcertained, by weight or measure; as the drops may, according to different circumstances, vary in quantity, though in number the same; and as an error therein may, in fome cases, be of mischievous con-

A liquid opiate, free from the inconveniencies here complained of, will be given at the end of

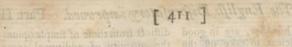
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NOTE.

To all the foregoing wines, after they have been frained, you may add about one twentieth their quantity of proof spirit, to preserve them from fermentation. They may be conveniently kept in the same kind of glass bottles that wines generally are for common uses, which should likewise be corked with the same care.

[L.]

CHAP-



CHAPTER XVI.

TINCTURE SPIRITUOSE.

SPIRITUOUS TINCTURES.

R ECTIFIED spirit of wine dissolves the volatile oils and refins of vegetables (in which their smell, and not unfrequently their taste, reside;) whilst water acts more immediately on the mucilaginous and saline matter. Proof spirit, which is a mixture of these, equally affects both. Thus a compound of gum and resin, as ammoniacum, which rectified spirit and water, singly, dissolve only in part, is totally taken up by proof spirit: the more phlegmatic the menstruum, the more gummy and saline matter it will dissolve; and the stronger, the more resin.

Hence, in whatever proportion the foluble parts of any vegetable are blended together; a spirit may be so adjusted thereto by art, as entirely to dissolve the whole, and consequently to extract all the virtues of the subject, without any of the useless or woody parts.

Rectified fpirit may be tinged by vegetables of all colours except blue, the leaves of plants in general, which give out nothing of their natural colour to watery li-

quors, communicate to spirit the whole of their green tincture, which for the most part proves elegant, though not very durable.

Fixt alcaline falts deepen the colour of spirituous tinctures; and hence have been supposed to promote the diffolving power of the mentruum, tho' this does not appear from experience: in the trials that have been made to determine this affair, no more was found to be taken up in the deep coloured tinctures, than in the paler ones, and often not so much; if the alcali be added after the extraction of the tincture, it will heighten the colour as much as when mixed with the ingredients at first. Nor is the addition of these falts in making tinctures, useless only, but likewise prejudicial: as they, in general, injure the flavour of aromatics and fuperadd a quality, fometimes con-trary to the intention of the medicine - Volatile alcaline falts, in many cases, promote the action of the fpirit. Acids almost universally weaken it.

General rules for extracting tinctures; from the Edinburgh pharmacopæia.

The vegetable fubflances ought to be moderately and newly dried, unless they are expresly ordered otherwife. They should likewife be cut and bruifed, before the menstruum is poured on them.

If the digeftion is performed in balneo, the whole fuccess depends upon a proper management of the fire: it ought to be all along gentle, unless the hard texture of the subject should require it to be augmented; in which case the heat may be increased so as to make the menstruum boil a little, towards the end of the process.

Very large circulatory vessels ought to be employed for this purpose, which should be heated before they are luted together.

A commodious circulatory may be composed of two long necked matrasses or boltheads; the mouth of one of which is to be inserted into that of the other, and the juncture secured by a piece of wet bladder. The use of heating the vessels is, to expel a part of the air, which otherwise, rarefying in the process, would endanger bursting them, or blowing off the uppermost matras.

IV.

The veffel is to be frequently flaken during the digestion.

All tinctures should be suffered to fettle before they are committed either to the filter or strainer,

In the tinctures (and diffilled fpirits likewife) defigned for internal use, no other spirit (drawn from malt, melasses, or other fermented matter) is to be used, than that expressly prescribed.

TINCTURA AMARA. BITTER TINCTURE.

Lond.

Take of

Gentian root, two ounces; Yellow rind of Seville orange peel, dried, one ounce; Leffer cardamom feeds, freed from the husks, half an ounce; Proof spirit, two pints. Digest without heat, and strain off

the tincture.

This is a very elegant spirituous bitter. As the preparation is defigned for keeping, lemon peel, an excellent ingredient in the watery bitter infusions, has, on account of the perishableness of its flavour, no place in this. The cardamom feeds are here a very commodious ingredient, as in this spirituous menstruum, they are free from the inconvenience which they are attended with in other liquor, of rendering them untransparent. The Edinburgh pharmacopæia has a compofition fimilar in intention to this, under the title of

ELIXIR STOMACHICUM. STOMACHIC ELIXIR.

Take of

Orange peel, fresh, Gentian, each two ounces; Cochineal, half a dram;

French brandy, two pints. Let them steep for three days, and then filter the elixir.

Both these medicines are useful flomachic bitters: their virtues as such, may be seen under the head of bitters, in page 621.

TINCTURA AROMATICA. AROMATIC TINCTURE.

Lond.

Take of

Cinnamon, fix drams; Leffer cardamom feeds, freed from the hufks, three drams; Long pepper,

Ginger, each two drams; Proof spirit, two pints.

Digeft without heat, and then frain off the tincture.

This is a very warm aromatic, too much fo to be given without dilution. A tea spoonful or two may be taken in wine, or any other

conve-

convenient vehicle, in languors, weakness of the stomach, flatulencies, and other like complaints. The stomachic tincture is similar in intention to this, but contrived less hot of the spices, that it may be taken by itself.

TINCTURA BALSAMICA.

BALSAMIC TINCTURE.

Edinb.

Take of

Balfam of Copaiba, one ounce; of Peru, three drams; of Tolu, two drams; Benzoine, half a dram;

English faffron, one scruple;
Rectified spirit of wine, one pint.
Digest these ingredients together,
in a fand heat, for four days;
and then pass the tincture thro' a

strainer.

This tincture is an excellent balfamic, both for internal and external purposes. It is usually exhibited, in doses of ten, twenty, or thirty drops, in the fluor albus, gleets, cachexies, fome kinds of afthmas and nephritic complaints, for strengthening the tone of the viscera, and corroborating the nervous system in general. Some caution is requifite in the use of these refinous warm medicines : in cold, languid, phlegmatic habits, they have for the most part good effects; but in bilious and plethoric conftitutions, where there is any tendency to inflammation, or immoderate heat, they are manifestly prejudicial, and raise or continue febrile fymptoms.

TINCTURA BENZOINI.
TINCTURE of BENZOINE.

Take of

Benzoine, four ounces;
Rectified spirit of wine, one pint.
Digest them together in a fand heat
for three or four days, and then
decant off the tincture.

This tincture stands recommended in afthmas, and other diforders of the lungs, in doses of from twenty to fixty or feventy drops. It has, however, been principally made use of externally, as a cosmetic, for clearing and fmoothing the fkin : for these purposes, it is mixed with a large proportion of water, when it forms a white liquor called LAC VIRGINIS. If this be fuffered to rest for some time, the benzoine precipitates, in form of a white magistery, (of a very pleasant smell, and not disagreeable taste) which in the Brandenburgh pharmacopæia, is preferred to the flowers of benzoine, as being free from the empyreumatic flavour which thefe are generally attended with. The precipitation is directed to be made with rose water.

TINCTURA
CANTHARIDUM.
TINCTURE of CANTHARIDES.
Lond.

Take of

Cantharides, bruifed, two drams; Cochineal, half a dram; Proof spirit, a pint and a half.

Digest them together, and afterwards filter the tincture through paper.

Edinb.

Take of

Cantharides, two drams;
Balfam of Copaiba, one ounce;
Gum guaiacum, half an ounce;
Camphor, two drams;
Diftilled oil of juniper berries,

one dram;

Cochineal, half a dram; Rectified spirit of wine, a pint

and an half.

Digest the cantharides in the spirit with a very gentle heat for two days; then strain off the liquor, and add to it the balfam, gum guaiacum, and cochineal. Digest again in a sand heat for four

Or

or five days; and lastly, having Take of Russia castor, powdered, two frained off the tincture, add to it the camphor and distilled oil.

Both these tinctures owe their virtues to the cantharides. The cochineal is used in each only as a colouring ingredient: the additional articles in the fecond are supposed partly to correct the acrimony of the flies, and partly to promote their medicinal efficacy, by firengthening the veffels, &c. But their quantity is too little to do any fervice in a medicine limited to fo fmall a dofe : and yet they may fo far thicken the menstruum, as to occasion a part of the cantharides to remain suspended in it in substance, especially if the tincture is passed only through a common strainer.

These tinctures are the only officinal preparations of cantharides. defigned for internal use. They possess nearly the whole virtues of the fly itself; and require the same cantions in their exhibition. See the article CANTHARIDES in the foregoing part, page 105. The usual dose is fifteen or twenty drops.

TINCTURA CARDAMOMI. TINGTURE of CARDAMOMS. Lond

Take of

Leffer cardamom feeds, hufked, half a pound;

Proof spirit, two pints,

Digest without heat, and strain the tincture.

This tincture has been in use for a confiderable time, though now first received into the dispensatory. It is a pleafant, warm cordial, and may be taken, along with any proper vehicle, from a dram to a spoonful or two.

> TINCTURA CASTOREI. TINCTURE of CASTOR Lond,

ounces ;

Proof fpirit, two pints.

Digest for ten days without heat, and ftrain off the tincture. Edinb.

Take of

Russia castor, an ounce and a half :

Rectified spirit of wine, one pint. Digest them with a gentle heat for four days, and afterwards strain

out the liquor.

An alcaline falt was formerly added in this last prescription, which is here judiciously rejected, as being at least an useless, if not prejudicial ingredient. It has been disputed, whether a weak or rectified spirit, and cold or warm digestion, are preferable for making this tincture. To determine this point, the following experiment has been brought. " Some fine Siberia castor having "been infused in good French " brandy, without hear, for twenty "days, the tincture proved very " weak : on the fame individual " castor (the magma or residuum " of the former tinclure) the same " quantity of rectified spirit was " poured, as before, of brandy; " and after a few hours warm di-"gestion, a tincture was extract-" ed much stronger than the o-"ther." But this experiment is not fatisfactory; the effects of the two menstrua, and of heat, having been respectively compared in very different circumstances. From the trials which we have made, it appears, that caftor, macerated without heat, gives out its finer and most grateful parts, to either spirit, most perfectly to the rectified : that heat enables both menthrua to extract greatest part of its groffer and more nauigous matter; and

that proof spirit extracts this last would be capable of doing by itmore readily than rectified.

The tincture of caftor is recommended in most kinds of nervous complaints, and hysteric disorders : in the latter, it fometimes does fervice, though many have complained of its proving ineffectual. The dose is from twenty drops to forty, fifty, or more.

TINCTURA CINNAMOMI. TINCTURE of CINNAMON. Lond.

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Cinnamon, an ounce and a half; Proof spirit, a pint.

Digest without heat, and strain off the tincture.

This tincture possesses the astringent virtues of the cinnamon, as well as its aromatic, cordial ones; and in this respect it differs from the diffilled waters of the spice.

> TINCTURA CORTICIS PERUVIANI SIMPLEX. SIMPLE TINCTURE of PERUVIAN BARK. Lond.

Take of

Peruvian bark, four ounces; Proof spirit, two pints.

Digest and strain.

A medicine of this kind has been for a long time pretty much in esteem, and usually kept in the shops, tho' now first received into the difpenfatory. Some have employed highly rectified spirit of have taken care fully to faturate. by digestion on a large quantity of to affift the action of the spirit, by

felf: at the fame time that the acid improves the medicine, by increafing the roughness of the bark. Each of these preparations have their advantages: though for general use, that here directed is the most convenient of any, the proof fpirit extracting nearly all the virtues of the bark. It may be given from a tea spoonful to half an ounce or an ounce, according to the different purposes it is intended to anfwer. See PERUVIANUS COR-TEX, page 178.

TINCTURA CORTICIS PERUVIANI VOLATILIS. VOLATILE TINCTURE of PERUVIAN BARK.

Lo nd.

Take of

Peruvian bark, four ounces : Spirit of fal ammoniac, two pints. Digest without heat, in a vessel close stopt : and afterwards strain the tineture.

This tincture is but lightly impregnated with the virtues of the bark; and is fo acrimonious that the largest dose, which can with fafety be given of it, can contain only a very small quantity of the fubject. The medicine nevertheless has its uses, and may be ferviceable in fome cases where the stronger are improper, as in difficulty of breathing, obstructions, and oppressions of the breast. Stronger tinctures of this kind may wine as a menstruum; which they be obtained by means of dulcified spirit of sal ammoniac, or the ipirit prepared with quicklim: the bark. Others have thought the three may be employed where a large quantity of bark is not requirthe addition of a little fixt alcaline ed, as at the close of the cure of falt; and many have given the intermittents, in weakness of dipreference to the vitriolic acid, gestion, attended with a cold senwhich was supposed, by giving a fation at the stomach, and some greater confishence to the spirit, to fluxes, particularly those from the enable it to fustain more than it uterus, where the circulation is languid,

languid, the fibres relaxed, and where there is a periodical return of flight feverish complaints. In thefe cases, I have often experienced falutary effects from a tincture in dulcified spirit of sal ammoniac, given to the quantity of a tea spoonful five or fix times a day, in any appropriated vehicle,

> TINCTURA CORTICIS PERUVIANI [composita]. [Compound] TINCTURE of PERUVIAN BARK. Edinb.

Take of

Peruvian bark, in powder, three ounces ;

Virginian fnakeroot, Gentian, each two drams; French brandy, two pints.

Let them steep together for four days, and afterwards filter the tincture.

The fubstances here joined to the bark, in many cases promote its efficacy in the cure of intermittents; and not unfrequently, are absolutely necessary. In some ill habits, particularly where the juices are fluggish and tenacious, the vifcera and abdominal glands obstructed, the bark, by itself, proves unfuccefsful, if not injurious; whilft given in conjunction with corroborant stomachies and deobstruents, it rarely fails of the due effect. Gentian and Virginian Inakeroot, are among the best additions for this purpose; to which it is often necessary to join chalybeat medicines alfo.

TINCTURA CROCI. TINCTURE of SAFFRON. Edinb.

Take of

English saffron, one ounce; French brandy, one pint. After digesting them for three days, let the tincture be flrained out for nila

This tincture is fimilar in virtue to the faffron wine. A fpirituous menstruum is here preferred to the wine, as a tincture drawn therewith, retains its elegant colour longer, and is not apt to deposite in keeping any part of what it had taken up from the faffron. The thops have been accustomed to employ treacle water as a menftruum for faffron, with a view to the promoting its efficacy in the intention of an alexipharmac; but the acid in that compound water foon destroys the colour of the tincture.

TINCTURA FŒTIDA. FETID TINCTURE. Lond.

Take of Afa fœtida, four ounces; Rectified spirit of wine, two pints.

Digeft and ftrain.

This tincture, now first received into the pharmacopæia, has been in use for a considerable time; it possesses the virtues of the asa fætida itself; and may be given from ten drops to fifty or fixty. It was first proposed to the college to be made with proof spirit: this dissolves more of the afa fætida than a rectified one, but the tincture proves turbid; and therefore rectified spirit, which extracts a transparent one, is very justly preferred.

TINCTURA FULIGINIS. TINCTURE of SOOT. Lond.

Take of

Wood foot, two ounces; Asa fœtida, one ounce; Proof spirit, two pints. Digest and strain.

Edinb.

Take of

Shining wood foot, one ounce:

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Afa fœtida, half an ounce; French brandy, a pint. Digest for four days, and strain.

The proof spirit is not liable to the same objection here as in the foregoing tincture; for when foot is added, whatever spirit be employed, the tincture will not prove transparent. Fuller, in his pharmacopœia domestica, has a medicine under the title of HYSTE-RIC TINCTURE, fimilar to thefe, only with a little myrrh. which is no very material addition to ala fœtida and foot. These medicines are found ferviceable, not only in hysteric cases, but likewife in epilepfies, and other nervous diforders.

TINCTURA GUAIACINA VOLATILIS. VOLATILE TINCTURE of GUAIACUM. Lond.

Take of

Gum guaiacum, four ounces; Volatile aromatic spirit, a pint and a half.

Digest without heat, in a vessel close stopt; and afterwards let the tincture be passed through a strainer.

This is a very elegant and efficacious tincture; the volatile spirit excellently dissolving the gum, and at the same time promoting its medicinal virtue. In rheumatic cases, a tea spoonful, taken two or three times a day in any convenient vehicle, has proved of singular service.

TINCTURA JALAPII. TINCTURE of JALAP. Lond.

Take of

Jalap root, eight ounces; Proof spirit, two pints. After proper digestion, strain off the tincture, This tincture is an ufeful and mild purgative, the menstruum, here employed, taking up so much of the gummy parts, as corrects the griping quality which the resin is attended with. It may be taken by itself from a dram to half an ounce; or mixed in smaller quantities with cathartic infusions, or the like.

TINCTURA JALAPPÆ. TINCTURE of JALAP. Edinb.

Take of

Jalap, in coarfe powder, three ounces;

Rectified spirit of wine, one pint. Digest them in a gentle heat for eight days, and then strain the tincture

This is an almost purely refinous tincture, and therefore never to be exhibited by itself. It is commonly given in mixtures of the tinctura sacra, syrup of buckthorn, &c. which mixtures should not be very liquid for fear of precipitation.

Some have preferred to the tinctures of jalap, a folution in spirit of wine of a known quantity of the refin extracted from the root; and observe, that this folution is more certain in strength than any tincture that can be drawn from the root For, as the purgative virtue of jalap refides in its refin, and as all jalap appears from experiment, not to be equally refinous, fome forts yielding five, and others not three ounces of refin from fixteen; it follows, that although the root be always taken in the same proportion to the menstruum, and the menstruum always exactly of the same strength, it may neverthelefs, according to the degree of goodness of the jalap, be impregnated with different quantities of refin, and confequently prove different in degree of efficacy. Tho'

this objection against the tincture does not reach so far as some seem to suppose, it certainly behoves the apothecary to be careful in the choice of the root. The inferior sorts may be employed for making the resna jalapis, which they yield in as great perfection, the not in so large quantity, as the best. Neuman thinks even the worm-eaten jalap as good, for that purpose, as any other.

TINCTURA JALAPPÆ
COMPOSITA.
COMPOUND TINCTURE of
JALAP.

Take of

Jalap, fix drams; Black hellebore roots, three drams;

Juniper berries,

Guaiacum shavings, each half an ounce;

French brandy, a pint and a half.

Digest for three days, and afterwards strain the tincture.

This tincture requires to be taken in larger quantity than either of the foregoing, if intended to act fully as a cathartic. It may, in fome cases, be employed to advantage, in small doses, as an alterant.

TINCTURA JAPONICA.

Take of

Japan earth, three ounces; Cinnamon, two ounces; Proof spirit, two pints.

After proper digestion, let the tincture be passed through a strainer.

A tincture of this kind, with the addition of Peruvian bark, ambergris and musk to the ingredients above directed, has been for some take time kept in the steps. The form considerable; tho' common practice.

here received is preferable for general use; where any other ingredients are required, tinctures of them may be occasionally mixed with this in extemporaneous prescription. The cinnamon is a very useful addition to the Japan earth, not only as it warms the stomach, &c. but likewise as it improves the roughness and astringency of the other.

This tincture is of good fervice in all kinds of defluxions, catarrhs, loofenesses, uterine sluors, and other like disorders, where mild astringent medicines are indicated. Two or three tea spoonfuls may be taken every now and then, in red wine, or any other proper vehicle.

TINCTURA LACCÆ.

TINCTURE of GUM LAC.

Edinb.

Take of

Spirit of fcurvygrafs, a pint and a half; Gum-lac, an ounce;

Myrrh, half an ounce;

Oil of tartar per deliquium, fo much as will be fufficient to make the powdered gums into a pase.

Let this passe be dried by a gentle fire; and then digested with the spirit, in a sand heat for four days: after which strain off the

tincture for use.

This tincture is principally employed for flengthening the gums, and in bleedings and icorbutic exulcerations of them: it may be fitted for use in these intentions, by mixing it with honey of roses, or the like. Some recommend it internally against scorbutic complaints, and as a corroborant in gleets, semale weaknesses, &c. Its warmth, pungency, and manifestly astringent bitterish taste, point out its virtues, in these cases, to be considerable; the common prac-

tice, among us, has not yet received it.

TINCTURA FLORUM MARTIALIUM. TINCTURE of the MARTIAL FLOWERS.

Take of the

Martial flowers, four ounces; Proof spirit, one pint.

Digeft and ftrain. TINCTURA MARTIS. TINCTURE of IRON. Edinb.

Take of

Iron filings, three ounces; Dulcified spirit of falt, two pounds. Digelt them together in a gentle heat of fand, for three days, and then filter the tincture.

TINCTURA MARTIS in SPIRITU SALIS. TINCTURE of IRON in SPIRIT of SALT. Lond.

Takeof

Iron filings, half a pound; Glauber's spirit of falt, three pounds;

Rectified spirit of wine, three pints.

Digest the iron filings in the spirit of falt, without heat, as long as the spirit acts upon the iron: after the feces have subsided, evaporate the liquor to one pound, and add thereto the vinous fpirit.

All the tinctures of fleel are no other than real folutions of the metal made in acids, and combined with vinous spirits. The three tinctures, here directed, differ from one another only in strength, the acid being the fame in all: the first is the weakest, and the last the ftrongest. The Edinburgh pharmacopæia retains only the fecond, which is a very firong one; judging it needless to burthen the shops

with any more, as this may be brought down to any degree of weakness by dilution. Some have recommended dulcified spirit of nitre as a menstruum; but the this readily diffolves the metal, it does not keep it suspended.

All these tinctures are greatly preferable to the calces or croci of iron, as being not only more fpeedy. but likewise more certain in their operation: the latter, in many cases, pass off through the intestinal tube without effect; whilft the tinctures scarce ever fail. A tea spoonful or two may be taken two or three times a day, in any proper vehicle.

TINCTURA MELAMPODIL TINCTURE of MELAMPODIUM, or black bellebore. Lond.

Take of Black hellebore roots, four ounces;

Cochineal, two fcruples; Proof spirit, two pints.

Digest them together, and afterwards filter the tincture through paper.

This is perhaps the best preparation of hellebore when defigned for an alterative, the monftruum here employed, extracting the whole of its virtues. It has been found, from experience, particularly ferviceable in uterine obstructions; in fanguine constitutions, where chalybeates are hurtful, it fcarce ever fails of exciting the menstrual evacuations, and removing the ill confequences of their suppression. So great is the power of this medicine that wherever, from an ill conformation of the parts, or other causes, the expected discharge does not succeed upon the exhibition of it; the blood, as Dr. Mead has observed, is so for-

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way through other passages. tea foconful of the tincture may be taken twice a day, in warm water, or any other convenient vehicle.

TINCTURA MYRRHÆ. TINCTURE of MYRRH.

Take of Myrrh, three ounces; Proof spirit, two pints.

After due digestion, strain off the tincture.

Take of

Myrrh, an ounce and a half; Rectified spirit of wine, a pint; Oil of tartar per deliquium, as much as is fufficient to make the powdered myrrh into a pafte.

Exficcate this mass with a gentle fire, pour on it the spirit, and digest them together in a fand heat for fix days; then firain off the tincture for use.

The pharmaceutical writers in general have been of opinion, that no good tincture can be drawn from myrrh by spirit of wine alone, without the affiftance of fixt alcaline falts. But it appears from proper experiments, that these falts only heighten the colour of the tincture, without enabling the menflruum to dissolve any more than it would by itself. Rectified spirit extracts, without any addition, all that part of the myrrh, in which its peculiar smell, and taste reside, viz. the refin; and proof spirit diffolves almost the whole of the drug except its impurities.

Tincture of myrrh is recommended internally for warming the habit, attenuating visced juices, flrengthening the folids, opening obstructions, particularly those of the uterine veffels, and refifting putrefraction. Boerhaave greatly

cibly propelled, as to make its effects it in all languid cases, proceeding from simple inactivity; in those female disorders which are occasioned by an aqueous, mucous, fluggish indisposition of the humours, and a relaxation of the vessels; in the fluor albus, and all difeases arising from a like cause. The dole is from fifteen drops to forty or more. The medicine may doubtless be given in these cases to advantage; though with us, it is more commonly used externally, for cleanfing foul ulcers, and exfoliating carious bones.

TINCTURA MYRRHÆ et ALOES. TINCTURE of MYRRH and ALOES. Edinb.

Take of

Myrrh, in powder, two ounces; Hepatic aloes, in powder, one ounce;

Rectified spirit of wine, two

pints.

Digest the myrrh with the spirit in a fand heat for eight days; then add the aloes, and continue the digestion for two days longer; after which, let the tincture be strained off.

The alcaline lixivium, added in the foregoing tincture on a suppofition of its opening the texture of the myrrh, is here very judiciously omitted, as being not only ufeless for that purpose, but likewise improper in chirurgical dreffings, for which only this tineture is defigned. The myrrh is prudently ordered to be first digested in the spirit by itself; for if the aloes was put in along with it, the menstruum would fo load itself with the latter, as scarce at all to act on the myrrh.

TINCTURA RHABARBARI SPIRITUOSA.

SPF

SPIRITUOUS TINCTURE of RHUBARB. Lond.

Take of

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to

Rhubarb, two ounces;

Leffer cardamom feeds, hufked,

half an ounce;

Saffron, two drams; Proof spirit, two pints.

Digest without heat, and strain off the tincture for use.

TINCTURA RHEI AMARA. BITTER TINCTURE of RHUBARB. Edinb.

Take of

Rhubarb, one ounce;

Gentian root, a dram and a

Virginian fnakeroot, one dram; Cochineal, one scruple;

French brandy, one pint. Digest for two days, and then strain

the tincture. This tincture may likewife be made

with mountain wine.

TINCTURA RHEI DULCIS. SWEET TINCTURE of RHUBARB. Edinb.

Take of

Choice rhubarb,

Liquorice fliced, each two ounces;

Raifins of the fun, stoned, one ounce;

Canella alba,

Leffer cardamoms, each two drams;

French brandy, two pints.

Digest for two days; and then, having strained out the tincture, add to it three ounces of white fugar candy in powder, and digest again until the sugar is diffolved.

These tinctures are designed rather as flomachics and corroborants, than as purgatives: spirituous li-

quors excellently extract those parts of the rhubarb in which the two first qualities reside, and the additional ingredients confiderably promote their efficacy. In weakness of the stomach, indigestion, laxity of the intestines, diarrhoeas, colicky and other like complaints, their medicines are frequently of good fervice: the fecond is also, in many cafes, an ufeful addition to the Peruvian bark, in the cure of intermittents, particularly in cachectic habits, where the vifcera are obftructed. In these intentions, a spoonful or two may be taken for a dofe, and occasionally repeated.

TINCTURA SATURNINA. SATURNINE TINCIURE. Land.

Take of

Sugar of lead,

Green vitriol, each two ounces; Rectified spirit of wine, two pints.

Reduce the falts feparately into a powder; then add the spirit, and digest them together without heat: afterwards filter the tincture through paper.

TINCTURA ANTIPHTHISICA. ANTIPHTHISICAL TINCTURE. Edinb.

Take of

Sugar of lead, an ounce and a half;

Vitriol of iron, an ounce;

Rectified spirit of wine, a pint. Let a tincture be extracted without

heat.

The reducing of the falts feparately into powder, and performing the digestion without beat. are very necessary circumstances; for if the ingredients are attempted to be pulverized together, they will grow foft and almost liquid; and if heat is made use of, scarce any tincture will be obtained.

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These tinctures are sometimes given from twenty to thirty drops, for restraining immoderate secretions, particularly the colliquative Take of fweats attending heetic fevers and phthifical diforders, whence the name antiphthifical tincture. They are undoubtedly medicines of great efficacy in these cases, but too dangerous ones to be raffly ventured on. Some have supposed, that they do not contain any of the fugar of Digest without heat, and then strain lead; but experiments, made for that purpose, have shewn that they do: and therefore, the London college has very judiciously changed the title of their tincture into one expressing its being a preparation of lead.

TINCTURA SALUTIFERA. TINCTURE of HEALTH. Edinb.

Take of Angelica root, Calamus aromaticus, Galangal, Gentian root, Zedoary, Bay berries, Lesser cardamoms, Cinnamon, Long pepper, each one dram; French brandy, two pints.

Let them sleep together for three days, and then filter the tincture. This composition has escaped, unaltered, through the feveral editions of the pharmacopæia: feveral of its ingredients however might very well be fpared; fuch are the angelica, calamus aromaticus, galangal, zedoary, and bayberries. A tincture drawn from the remaining articles proves an agreeable, very warm, cordial, stomachic bitter. The medicine however is not a necessary one in a dispensatory of which will abundantly supply its to the patient. place.

TINCTURA SENÆ. TINCTURE of SENA. Lond.

Raifins, stoned, fixteen ounces: Sena, one pound; Caraway feeds, one ounce and a half; Leffer cardamoms, hufked, half an ounce;

Proof spirit, one gallon. the tincture.

ELIXIR SALUTIS. ELIXIR of HEALTH. Edinb.

Take of the sale Sena, two ounces; Choice rhubarb, to southly stony Sweet fennel feeds, land or asset Juniper berries, Guaiacum shavings, each one ounce; French brandy, three pints.

Digeft for the space of four days; then frain off the tincture, and add to it four ounces of powdered fugar candy.

Both these tinctures are useful carminatives and cathartics, especially to those who have accustomed themselves to the use of spirituous liquors; they oftentimes relieve flatulent and colicky complaints, where the common cordials have little effect. Several preparations of this kind have been offered to the public, under the name of Daffie's elixir: the two above are equal to any, and superior to most of them. The guaiacum, in the last of the above formulæ, is a very useful ingredient, as it is found to have very good effects when joined with purgatives: two drams of fena, infused in half a pint of decoction of guaiacum, work as brifkly as three drams infused in containing the elegant tinclure briskly as three drams infused in amara and aromatica, a mixture plain water, and with greater ease TINCTURA SERPENTARIÆ. Mix them together, that the spirit TINCTURE of SNAKEROOT. Lond.

Take of

Virginian fnakeroot, three ounces; Proof foirit, two pints.

Digest without heat, and strain off the tincture.

This tincture was in our last pharmacopæia directed with the tinctura falis tartari, which being now expunged, it was proposed to the college to employ rectified foirit; but as the heat of this fpirit prevents the medicine from being taken in so large a dose as it might otherwise be, a weaker spirit was made choice of. The tincture made in this menstruum, which extracts the whole virtues of the root, may be taken to half an ounce or more.

TINCTURA STOMACHICA. STOMACHIC TINCTURE.

Take of

Raisins, stoned, four ounces; Cinnamon, half an ounce; Caraway feeds, Lesser cardamoms, husked, Cochineal, each two drams:

Proof spirit, two pints. Digest without heat, and strain off the tincture.

This is a moderately warm stomachic tincture, much more pleafant than the USQUEBAUGH of our former pharmacopæias. It may be taken without any vehicle, in the quantity of half an ounce or an ounce.

TINCTURA STYPTICA. STYPTIC TINCTURE.

Lond.

Take of

Green vitriol, calcined, one

French brandy (fuch as has acquired a yellowish tinge from the cask) two pints.

may grow black; then pais it through a ftrainer.

Some have supposed that no other fpirit than French brandy would fucceed in firiking the black colour, for which this tincture is valued. But any spirit, that has gained an impregnation from the oak casks, which these liquors are generally kept in, or from other vegetable affringents, will equally exhibit this phanomenon; and French brandy will not do it, without fuch affiffance. The title of this tincture expresses its medicinal intention. The celebrated STYP-TIC OF HELVETIUS (which is faid to be the fame with that of EATON,) differs from it no otherwife, than in being more operofe in composition. They are recommended both for internal use, and for restraining external hemorragies : their virtues depend not fo much on the iron, as on the menfruum.

TINCTURA SUCCINI. TINCTURE of AMBER.

Take of

Yellow amber, two ounces; Rectified spirit of wine, twenty ounces;

Oil of tartar per deliquium as much as is fufficient to reduce the powdered amber into a paste; which is to be gently exficcated: then pour on it the spirit, digest in a fand heat for eight days, and afterwards filter the tincture.

This is a very elegant preparation of amber, of a grateful balla-mic taffe, and fragrant finell. Boerhaave, Hoffman, and others, strongly recommend it in disorders proceeding from a lax flate of the folids and debility of the nervous fystem; in suppressions of the men-E e 4

feminal gleets, rheumatic com-plaints, and fome kinds of epilepfies: it is directed to be taken from ten to an hundred drops, in canary or other rich wine. The medicine is doubtless an efficacious one; though it would be much more fo, if a part of the spirit was drawn off, fo as to leave what it had extracted from the amber, concentrated into the confiltence of a balfam: a tea spoonful of this may be taken three or four times a day, with fugar, or in any con-venient vehicle. The spirit diffilled off, which is impregnated with the amber fmell, may be referved for extracting a fresh tincture either from another parcel of amber, or from that remaining after the former extraction: by degrees, nearly the whole of the amber will diffolve; the last tincture, if reduced to the same thickness, proves as good as the first. The alcaline liquor may be omitted; for it not only does not promote the diffo-Iution of the amber, but likewife injures the medical virtue of the preparation. Scarce any of the substances that have been made trial of, give any confiderable affistance to spirit of wine in dissolving this concrete, except the aromatic oil, obtained in the diffillation of this spirit with vitriolic acid. See SPIRITUS VITRIOLI

TINCTURA SUDORIFICA, SUDORIFIC TINCTURE,

Take of
Virginian fnakeroot, five drams;
Cochineal, half an ounce;
Russia castor, one dram;
English fastion, two scruples;
Opium, one scruple.
Spirit of Mindercrus, one pint.

ftrual discharges, the sluor albus, feminal gleets, rheumatic complaints, and some kinds of epilepfies: it is directed to be taken from

This is a very efficacious medicine for the purpose expressed in its title; for although the virtues of cochineal and castor are disputable, those of the snakeroot, saffron, and opium, are of the most powerful-kind: the menstruum is such as will not only extract those parts of the ingredients in which their virtues consist, but at the same time greatly promotes the efficacy of the whole. Half an ounce of the tincture, by measure, contains sive eighths of a grain of opium.

TINCTURA SULPHURIS. TINCTURE of SULPHUR.

Takeof

Rectified spirit of wine, one pint. Hepar sulphuris (that is, a mixture of sulphur and fixt alcaline salt sused together) four ounces.

Grind the hepar into powder whilst hot from the fire, add to it the spirit, and digest in a moderate heat for twenty four hours; then pour off the tincture from the sees.

The digeftion may be commodioufly performed in a glass receiver: put the spirit first into the vessel and pour the hot powder upon it: then shake them together; and, to prevent the exhalation of any part of the spirit during the digestion, insert a glass tube into the mouth of the receiver.

This tincture is of a rich gold colour, a hot aromatic tafte, and a particular, not ungrateful fmell. Its virtues are those of a warm attenuating, aperient, and anti-acid medicine. Some have recommended it as a last resort in phthises

and

in these cases it promises little fervice, and has been fometimes found prejudicial. The dose is from ten to fixty drops: it is most commodioully taken in canary or other rich wines.

TINCTURA ANTIMONII. TINCTURE of ANTIMONY.

Any fixt alcaline falt, one pound; Antimony, half a pound;

Rectified spirit of wine, two

Reduce the antimony into powder, mix it with the falt, and melt them together, with a strong fire, for an hour. Then pour out the matter, pulverize it, add the spirit, and digest them for three or four days: after which, ftrain off the tincture for ufe.

Edinb.

Take of

Antimony, Nitre, each two ounces; Salt of tartar, four ounces; Rectified spirit of wine, two

pints.

Grind the antimony and nitre into a powder, which gradually inject upon the falt of tartar previously fused in a crucible by a ftrong fire. Continue the fusion for half an hour, then pour out the mixture into a hot and dry iron mortar. Powder the mais while warm, put it into a heated matras, and pour thereon the fpirit. Digest them together, for eight days, in a gentle heat of fand; and then filter the tin-Elure.

In these processes, the alcaline falt unites with the fulphur of the antimony, into a hepar; which communicates to the spirit a tincture fimilar to the foregoing. This an-

and ulcerations of the lungs; but timonial tinclure is supposed to contain likewife fome of the reguline parts of the mineral, and faid to have fometimes provoked a puke when taken on an empty flomach, even in a fmall dofe. It ftands recommended, in doses from ten to fixty drops or more, as a deobstruent, promoter of urine, and purifier of the blood.

TINCTURA ANTIMONII DIAPHORETICI. TINCTURE of DIAPHORETIC ANTIMONY.

Take of

Diaphoretic antimony, fixteen ounces;

Nitre, four pounds;

Tartarized spirit of wine, three

Let the antimony and nitre be finely powdered, mixed, injected by a spoonful at a time into a red hot crucible, and kept in a ftrong melting heat for half an hour. Then pour the matter into a warm iron mortar, powder it whilft hot, and immediately add the vinous spirit. Digest for three days, and filter the tinclure

This tincture is recommended for the same purposes as the foregoing, and in the same dose. It is very fragrant in fmell, and agreeable to the tafte.

TINCTURA SALIS TARTARI.

TINCTURE of SALT of TARTAR. Take of

Pure falt of tartar, fix ounces. Melt it in a crucible until it acquires a red colour; pulverize it whilft hot, and immediately pour upon it, in a ftrong long-necked ma-tras, as much rectified spirit of wine as will fland three or four inches above it : digelt for feve-

ral days, in a pretty ffrong fand heat, that a tincture may be obtained.

This preparation is taken from the preceding edition of our pharmaconceia. It has been usually expected to be of a red hue; but (as the committee observe) if neither the falt nor the frirt have any oily tincture, the spirit, though it acquires from the alcali a hot pungent tafte, will fcarce receive any degree of colour, unless by some fpark of coal, which may accidentally fall into the crucible, while the falt is calcining. For this reafon, this tincture has been usually prepared in a counterfeit manner, by adding fome portion of antimony to the falt, whereby it refembled too much the tincture of antimony for both to be retained at the late revifal.

TINCTURE of BALSAM of TOLU. Edinb.

Take of

Balfam of Tolu, an ounce and a

Rectified spirit of wine, a pint. Digest in a fand heat, until the balsam is dissolved; and then strain the tincture.

This folution of balfam of Tolu possesses all the virtues of the balfam itself. It may be taken internally against rheumatic pains, seminal and other weaknesses, in the dose of a tea spoonful or two, in any convenient vehicle. Mixed with the plain syrup of sugar, it forms an elegant balsamic syrup.

TINCTURA VALERIANÆ SIMPLEX. SIMPLE TINCTURE of VALERIAN.

Take of

Wild valerian root, four ounces;

Proof spirit, two pints.

After due digestion, strain off the tincture.

The root ought to be reduced into fine powder, otherwise the spirit will not sufficiently extract its virtues. The tincture proves of a deep colour, and considerably strong of the valerian; though it has not been found to answer so well in the cure of epileptic disorders, as the root in substance exhibited in the form of powder or bolus. The dose of the tincture is, from half a spoonful to one or two spoonfuls.

TINCTURA VALERIANA VOLATILIS. VOLATILE TINCTURE of VALERIAN. Lond.

Take of

Wild valerian root, four ounces; Volatile aromatic fpirit, two pints.

Digest without heat, in a vessel closely stopt, and afterwards strain off the tincture.

The volatile spirit is here an excellent menstraum, and at the same time considerably promotes the virtues of the valerian, which in some cases wants an assistance of this kind. The dose may be a tea spoonful or two.

TINCTURA VERATRI.
TINCTURE of VERATRUM,
or white beliebore.

Lond.

Take of

White hellebore root, eight ounces;

Proof spirit, two pints.

Digest them together, and filter the tincture through paper.

This tincture is fometimes used for acuating cathartics, &c. and as an emetic in apoplectic and mamacal diforders. It may likewise be so managed, as to prove a pow-

erful

erful alterative and deobstruent, in cases where milder remedies have little effect. But a great deal of caution is requisite in its use: the dose, at first, ought to be only a few drops; if confiderable, it proves violently emetic or cathartic.

BALSAMUM GUAIACINUM. BALSAM of GUALACUM. Lond.

Take of Gum guaicum, one pound; Baliam of Peru, three drams; Rectified spirit of wine, two pints and a half;

Digeft till the gum is diffolved, and then strain off the balfam.

ELIXIR POLYCHRESTUM, ELIXIR POLYCHREST,

or of many virtues. Edinb.

Take of

Gum guaiacum, fix ounces; Balfam of Peru, half an ounce; Effential oil of fassafras, two

Rectified spirit of wine, two pints. Digest the spirit, with the gum and ballam, in a fand heat for four days; then ftrain out the liquor, and add to it the distilled oil.

Both these compositions are medicines of great efficacy, and capable of answering many users purposes. They warm and strengt en the habit, and promote infenfible perspiration; and hence become serviceable in rheumatic, scorbutic, and fcrophulous diforders, particularly where the patient is of a cold phlegmatic temperament; as also in gleets, and in other ill confequences of a weak relaxed state of the folids. Twenty or thirty drops may be taken two or three times a day or oftener, in any proper vehicle.

BALSAMUM COMMENDATORIS. BAUME DE COMMANDEUR.

Dry Peruvian balfam, one ounce ; Storax in the tear, two ounces; Benjamin, three ounces; Socotorine aloes, mimoo

Myrrh.

Olibanum, mat ada santana vilo

Angelica roots, and mort common St. John's wort flowers, each half an ounce;

Spirit of wine, two pounds eight ounces by weight.

Let them fland together in the fun during the dog-days, in a glass veffel, closely flopt; and afterwards frain out the balfam thro' a linen cloth.

This balfam has been inferted. with little variation, in fome for reign pharmacopæias, and likewife kept a fecret in private hands, under the titles of Baljamum Perficum, balfam of Berne, Wade's balfam, Friars balfam, Jefuits drops, &c. The form above is taken from the original receipt, published by Pomet (bistoire des drogues edit. 2. ii. 56.) It flands grealy recommended, externally, for cleanfing and healing wounds, and ulcers even of the cancerous kind, for difcussing cold tumours, allaying gouty, rheumatic, and other cold pains and aches; and likewife internally, for warming and firengthening the flos mach and intestines, expelling flatulencies, and relieving colicky complaints. Outwardly, it is applied cold on the part with a feather; inwardly, a few drop are taken at a time, in wine or any other convenient vehicle.

BALSAMUM TRAUMATICUM. TRAUMATIC, or VULNERARY BALSAM. Lond

Take

Take of

Benzoine, three ounces : Storax, firained, two ounces: Balfam of Tolu, one ounce; Socotorine aloes, half an ounce : Rectified spirit of wine, two

as possible be dissolved; and then ftrain off the balfam for

This is an elegant reform of the preceding composition, considerably more fimple, yet not inferior in efficacy. The balfam of Tolu fupplies, with advantage, the dry Peruvian balfam, a drug very rare to be met with in this country : the olibanum, myrrh, and angelica roots, here omitted, were certainly fuperfluous in a medicine containing fo much more powerful materials; and the St. John's wort flowers are as defervedly thrown out, as having little elfe to recommend them than prejudice or superflition.

Edinb.

Take of

Benzoine, powdered, three oun-Balfam of Peru, one ounce and

an half; Hepatic aloes, in powder, half

an ounce; Rectified spirit of wine, two

pints. Digest them in a fand heat, for the

space of four days; and then flrain the balfam.

This is a farther contraction of the baume de commandeur, without any injury to it as a medicine, at least with regard to the purposes for which the title shews it defigned. Socotorine aloes is here judiciously exchanged for the hepatic, which appears from experience to be the most serviceable in external applications.

ELIXIR ALOES. ELIXIR of ALOES. Lond.

Take of

Tincture of myrrh, two pints; Socotorine aloes, Saffron, each three ounces. Digest, that the gums may as much Digest them together, and strain off the tincture.

ELIXIR PROPRIETATIS.

Take of

Myrrh, in powder, two ounces; Socotorine aloes, an ounce and a half;

English fasfron, one ounce; Rectified spirit of wine, two

Oil of tartar per deliquium, as much as is fufficient to reduce the myrrh into a fost paste, which is to be exsiccated by a gentle heat, and digested with the spirit, in a fand bath, for the space of four days: then add the aloes in powder, and the faffron; continue the digestion for two days longer, fuffer the feces to fubfide, and pour off the clear elixir.

This is the elixir proprietatis of Paracelfus, improved with regard to the manner of preparation. The myrrh, fasfron, and aloes, have been usually directed to be digested in the spirit together; by this method, the menstruum foon loads itself with the latter, fo as scarce to take up any of the myrrh; whilst a tincture, extracted first from the myrrh, readily diffolves a large quantity of the others. The alcaline falt, ordered in the fecond prescription, with a view to promote the diffolution of the myrrh, we have already observed to be useless.

This medicine is greatly recommended,

Chap. 16. Spirituous Tinetures.

429

mended, and not undefervedly, as a warm simulant and aperient. It ftrengthens the flomach and other vifcera, cleanfes the first passages from tenacious phlegm, opens obflructions in the remoter veffels, and promotes all the natural fecretions. Its continued use has frequently done good fervice in cachectic and icteric cases, uterine obstructions, and other like diforders : particularly in cold, pale, phlegmatic habits: where the patient is of a hot, bilious constitution, and florid complexion, this warm stimulating medicine is less proper, and fometimes prejudicial. The dofe may be, from twenty drops to a tea spoonful, two or three times a day.

ELIXIR PROPRIETATIS cum ACIDO.

ELIXIR PROPRIETATIS with ACID.

Edinb.

Take of

Myrrh, in powder, an ounce and a half;

Socotorine aloes, in powder, an

English faffron, half an ounce; Rectified fpirit of wine, twentyfour ounces;

Dulcified spirit of vitriol, fix

Digest them in a sand heat, for the space of sour days; and having then suffered the seces to subside, pour off the clear elixir.

Here the dulcified spirit of vitriol is very judiciously substituted to the spirit of sulphur, ordered in other books of pharmacy to be added to the foregoing preparation; for that strong acid precipitates from the liquor great part of what it had before taken up from the other ingredients. This elixir posfesses the general virtues of the

preceding, and is preferred to it in hot conflitutions, and where the juices tend to a putrescent state.

ELIXIR PAREGORICUM. PAREGORIC ELIXIR.

Lond.

Take of Flowers of benzoine,

Opium strained, each one dram: Camphor, two scruples;

Effential oil of anifeeds, half a

Rectified fpirit of wine, two

Digest and strain. This elixir is taken from Le Mort, with the omission of three unnecessary ingredients, honey, liquorice, and alcaline falt. It was originally prescribed under the title of ELIXIR ASTHMATICUM, which it did not ill deferve; none of the officinal compositions being equal to it in that intention. It excellently allays the tickling, which provokes frequent coughing; and yet at the fame time opens the breaft, and gives greater liberty of breathing : the opium procures (as it does by itself) a temporary relief from the fymptoms; whilft the other ingredients tend to remove the cause, and prevent their return. It is given to children, against the chin-cough, &c. from five drops to twenty; to adults, from twenty to an hundred. Half an ounce, by measure, contains about a grain of

ELIXIR PECTORALE. PECTORAL ELIXIR.

Edinb.

Take of
Balfam of Tolu, two ounces;
Benzoine, an ounce and a half;
English fasiron, half an ounce;
Rectified

Rectified spirit of wine, two

Diget them in a fand heat for four days, and then strain off the elixir.

ELIXIR VITRIOLI ACIDUM. ACID ELIXIR OF VITRIOL.

Take of the

Aromatic tincture, one pint; Strong spirit (called oil) of vitriol, four ounces;

Mix them together, and after the feces have subsided, filter the elixir through paper.

This preparation was originally taken from Mynficht, and has been usually distinguished by his name. It is here prepared in a somewhat different manner from that directed by the author and in other books of pharmacy; the oil of vitriol and fpirit of wine being there first mixed together, and then digefted upon aromatics: when thus managed, the acid difables the spirit from extracting the virtues of the aromatics, and indeed, when added to the tincture, as here ordered, it precipitates great part of what the spirit had before taken

Mynficht's elixir of vitriol is directed in our preceding pharmacopœia as follows:

Take of

Cinnamon,
Ginger,
Cloves, each three drams;
Calamus aromaticus, one ounce;
Galangal, an ounce and a half;
Sage,
Mint, each half an ounce;
Cubebs,
Nutmegs, each two drams;
Aloes wood,

Citron peel, each one dram.

Reduce these ingredients into a powder, to which add, of

Sugar candy, three ounces; Spirit of wine, a pint and a half;

Oil of vitriol, one pint.

Digett them together for twenty days, and then filter the tincture for use.

Thefe medicines are greatly recommended in weakness of the flomach: and in most cases of this kind, where an acid does not already prevail, they have generally good effects. Sometimes they have proved ferviceable after bitters had availed nothing, especially in great relaxations from debauches and over-feeding. Fuller relates (in his medicina gymnastica) that he was recovered, by Mynficht's elixir, from an extreme decay of constitution, and continual retchings to vomit. It may be given from ten to thirty or forty drops, in any convenient vehicle, once, twice, or thrice a day, at fuch times as the flomach is most empty.

ELIXIR VITRIOLI DULCE. SWEET ELIXIR of VITRIOL. Lond.

Take of the

Aromatic tincture, one pint; Dulcified spirit of vitriol, eight ounces by weight.

Mix them together.

This is defigned for persons whose stomach is too weak to bear the foregoing acid elixir; to the taste, it is gratefully aromatic, without any perceptible acidity. The dulcified spirit of vitriol, here directed, occasions little or no precepitation upon adding it to the tincture.

ELIXIR VITRIOLI. ELIXIR of VITRIOL. Edinb.

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Chap. 16. Spirituous Tinctures.

Dulcified spirit of vitriol, two pounds ;

Effential oil of mint, half an ounce:

of lemon peel.

of nutmegs, each two drams. Gradually drop the oils into the fpirit, and mix the whole well together.

This elixir, if the effential oils are good, and the dulcified spirit made as it ought to be, (if it is not, it will not diffolve the oils) proves a very elegant and grateful stomachic, fimilar to the foregoing fweet elixir: a tea spoonful of either, taken two or three times a day, has in many cases produced happy effects.

> ELIXIR MYRRHÆ COMPOSITUM.

COMPOUND ELIXIR of MYRRH.

Lond.

Take of

Extract of favin, one ounce ; Tincture of caftor, one pint; Tincture of myrrh, half a pint. Digest them together, and then

strain the elixir.

This preparation is improved from one described in former editions of this work, under the name of ELIXIR UTERINUM. It is a medicine of great efficacy in all uterine obstructions, and in hypochondriacal cases, promotes the menses, the expulsion of the fœtus, and the lochia. It may be given from five drops, to twenty or thirty, or more, in pennyroyal water, or any other fuitable vehicle.

ELIXIR SACRUM.

Edinb.

Take of Socotorine aloes, in powder, Choice rhubarb, cut small, Bay berries, bruifed, each one ounce ;

French brandy, two pints. Digest for two days, and then strain the elixir.

ESSENTIA AMBRÆ ESSENCE of AMBERGRIS.

Take of

Ambergris, two drams; Musk, twelve grains; Civet, two grains; Rectified spirit of wine, four ounces.

Digeft them together in a water bath, with a fmall heat, which is to be gradually increased until the spirit boils, and kept in this state for a little time : when the tinclure is grown cold, decant it from the feces, and keep it in a bottle well flopt for use.

This effence is, to fuch people as can bear perfumes, an exceeding high cordial: the dofe is from one to ten drops.

ESSENTIA ODORIFERA alia. Another ODORIFEROUS ESSENCE.

Take of

Mulk, ten grains; Civet, five grains; Balfam of Peru, twelve drops; Oil of cloves, four drops; Oil of rhodium, two drops; Salt of tartar, half a dram; Rectified spirit of wine, two ounces.

Digest them together in a close veffel, with a heat equal to that of the fun in fummer, for feveral days; and afterwards pour off the effence for ufe.

This is likewise a very high perfume; a fingle drop of it gives a fine flavour to many ounces of other liquors,

GUTTÆ

GUTTÆ VITÆ. DROPS of LIFÉ.

Take of

Opium, four ounces;
Saffron, one ounce;
Virginian inakeroot,
Cochineal, each half an ounce;
Nutmegs,
Zedoary, each two ounces;
Camphor, one ounce;
Tincture of diaphoretic antimony, one pint;
Water, two pints.
Digeft the opium with water in a fealding heat, till as much as

possible of it is dissolved, and pass the solution through a strainer. Digest the other ingredients in the antimonial tincture, for three or sour days. Mix both liquors together, let them stand in digestion for two days longer, and after the seces have subsided, pour off the clear for use

This medicine has been recommended as preferable to the common opiates, and lefs apt to leave a nausea on the stomach: the dose is from ten drops to forty or sifty.



CHAP:

CHAPTER XVII.

MIXTURÆ.

MIXTURES.

JULEPUM e CAMPHORA. JULEP of CAMPHOR. Lond.

AKE of Camphor, one dram; Double refined fugar, half an

Boiling water, one pint.

Grind the camphor first with a little rectified spirit of wine, until it grows soft; and afterwards with the sugar, till they are perfectly mixed: then add the water by little and little, let the mixture cool in a close vessel, and lastly pass it through a strainer.

This is a more easy and effectual way of mingling camphor with aqueous liquors, than grinding it with water alone, or fetting it on fire, and then quenching it in water, as directed in our former difpenfatory, and in other books of pharmacy: though even this method is liable to some inconveniencies; part of the camphor exhaling, unless an extraordinary deal of care is taken, upon the affusion of the boiling water; and part remaining upon the strainer. The julep tastes firong of the camphor, and may be given, in cases where this drug is proper, in the dose of a spoonful or two.

> JULEPUM e CRETA. CHALK JULEP:

Lond.

Take of
The whitest chalk, prepared,
one ounce;

Double refined fugar, fix drams; Gum Arabic, two drams; Water, two pints.

Mix them together.

This julep is defigned for heart-burns and other like diforders arifing from acid juices in the first passages. The use of the gum is to give a greater degree of consistence to the water, and enable it to keep the powdered chalk suspended; and likewise to soften and obtund the thin acrimonious humours.

JULEPUM e MOSCHO, MUSK JULEP.

Take of

Damask rose water, fix ounces by measure;

Musk, twelve grains;

Double refined fugar, one dram, Grind the fugar and the musk together, and gradually add to them the role water.

This is an improvement upon the HYSTERIC JULEP WITH MUSK of Bates. Orange flower water is directed by that author; and indeed this more perfectly coincides with the must than rose water: but as the former is difficultly procurable in perfection, the

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latter is here preferred. The julep appears turbid at first; on standing a little time, it deposites a brown powder, and becomes clear.

This julep is a strong perfume. To those who can bear medicines of this class, it proves of great service in lowness, faintings, &c. See the article MUSK, in the materia medica, page 162.

EMULSIO COMMUNIS. COMMON EMULSION.

Lond.

Take of

Sweet almonds, blanched, one ounce;

Gum Arabic, half an ounce; Double refined fugar, fix drams; Barley water, two pints.

Diffolve the gum in the barley water warmed; as foon as the water is grown throughly cold, pour it by little at a time upon the almonds and fugar, first beat together, continuing to grind the whole, that the liquor may grow milky; after which, it is to be passed through a strainer.

Edinb.

Take of

The four greater cold feeds, one ounce;

Sweet almonds, blanched, half an ounce;

White fugar, two drams;
Simple cinnamon water, one ounce;

Common water, two pints.

Beat the almonds with the feeds in a marble mortar, and gradually pour on them the common water, working the whole well together. Then firain off the liquor, and add to it the cinnamon water and the fugar.

If three drams of gum arabic be previously dissolved in the water, the preparation is called EMUL- SIO ARABICA, the Arabic e-mulfion.

Great care should be taken, that neither the feeds nor the almonds are become rancid by keeping; which will not only render the emulfion extremely unpleafant, a circumstance of great confequence in a medicine that requires to be taken in large quantities, but likewife give it some injurious qualities little expected from preparations of this class. These liquors are principally made use of for diluting and obtunding acrimonious humours; particularly in heat of urine and firanguries arifing either from a natural sharpness of the juices, or the operation of cantharides or other irritating medicines: in these cases, they are to be drank frequently, in the quantity of half a pint or more at a time. See Amygdala, page 78.

LAC AMMONIACI. MILK of AMMONIACUM. Lond.

Take of

Gum ammoniacum, two drams; Simple pennyroyal water, half a pint.

Grind the ammoniacum with the water, in a mortar, until the gum is diffolved.

This liquor is employed with good fucces for attenuating tough phlegm, and promoting expectoration, in humoural afthmas, coughs, and obstructions of the viscera. It may be given in doses of an ounce or two, and occasionally repeated.

Several other gummy-refinous bodies, as myrrh, may by a like treatment be excellently fitted for medicinal purpofes; their whole fubflance being thus diffolved into an uniform milky liquor.

SPIRITUS VINOSUS CAMIHORATUS.

CAM-

Chap. 17. Mixtures. the same appearance as the more CAMPHORATED SPIRIT common camphorated fpirit: it did of WINE not appear, that spirit distilled from Lond, and Edinb. hat camphor, with or without the al-Takeof nds caline falt, differed at all in this Camphor, two ounces; 19; respect. Rectified spirit of wine, two pints. e-The most convenient method of Mix them together, that the cam-12 uniting camphor with aqueous liphor may be distolved. nce quors, feems to be by the media-This folution of camphor is embe tion of almonds; triturated with ployed chiefly for external uses, ke. thefe, it readily mingles with waagainst rheumatic pains, paralytic ties ter into the form of an emulfion, numbneffes, inflammations, for difs of at the fame time that its pungency cuffing tumours, preventing ganrinis confiderably abated. It may grenes, or reftraining their proing also be commodiously exhibited in gress. It is too pungent to be huthe form of an oily draught, exexhibited internally, unless largely 11preffed oils totally diffolving it. diluted; nor is the dilution eafily her effected; for on the admixture of the SOLUTIO THEBAICA. aqueous liquors, the camphor fepaha-THEBAIC SOLUTION. rates, and runs into its original 165 Take of be Thebaic extract, two drams: Hoffman, Rothen, and others, tity Rectified spirit of wine, two mention a camphorated fpirit not me. pints and a half; fubject to this inconvenience. It Water, five pints. is prepared by grinding the cam-Digest them together, until the phor with fomewhat more than an opium is dissolved; and then equal weight of fixt alcaline falt, filter the folution thro' paper. then adding a proper quantity of This preparation is free from proof spirit, and drawing off one half of it by distillation. This spithe inconveniencies attending the ms: common opiate tinctures (p. 409.) rit was proposed to the college to alf a the opium totally dissolves in the be received into the pharmacoposia, at the late revifal, under the title of SPIRITUS CAMPHORÆ menstruum here ordered, no part of the it separates in keeping, and the dose gum may be ascertained to great exact-TARTARIZATUS. But upness: one grain of opium is conon trial, it did not answer expectawith tained in an ounce by measure, and tion: some of the camphor, as the ough in nearly feven drams by weight. committee observe, rises with the ora-Where aromatics are wanted, eispirit in distillation, though but a ghs, ther in a medicinal intention, or to fmall quantity; whence, mixt with It cover the ill fmell of the opium, any a large portion of water, it does unce proper tincture, or distilled water not fenfibly render it turbid; but ed. may be added occasionally. in a proper quantity, it exhibits

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CHAPTER XVIII.

SYRUPI.

Live grant ale the S Y R U P S.

Syrups are faturated folutions of fugar, made in vegetable decoctions or infusions.

formerly confidered as medicines of much greater importance, than they are thought to be at prefent. Syrups and distilled waters were for fome ages made use of as the great alteratives : infomuch that the evacuation of any peccant humour was never attempted till, by a due course of these, it had first been regularly prepared for expulfion. Hence arose the exuberant collection of both, which we meet with in pharmacopæias: and like errors have prevailed in each. As multitudes of distilled waters have been compounded from materials unfit to give any virtue over the helm;

HESE preparations were formerly confidered as meines of much greater importance, in they are thought to be at pret. Syrups and distilled waters the for fome ages made use of as great alteratives; infomuch that for meaning third is an aqueous study.

Syrups are at prefent chiefly regarded as convenient vehicles for medicines of greater efficacy; and made use of for sweetening draughts and juleps, for reducing the lighter powders into bolusses, pills, or electaries, and other like purposes. Some likewise may not improperly be considered as medicines themselves; as those of fassron, and buckthorn berries.

General rules for preparing fyrups.

All the rules laid down for making decoctions are likewise to be obferved in the decoctions for syrups. Vegetables, both for decoctions and infusions, ought to be dry, unless they are expressly ordered otherwise [E.]

In the London pharmacopæia, only the pureft or double refined fugar is allowed. In the Edinburgh, the less pure or common white sugar is employed, and farther purified by the operator. For such syrups as are prepared without coction, the sugar is previously dissolved in water by itself, the folution clarified with whites of eggs, and boiled down to a thick confishence, the scum which arises during the boiling being carefully taken off. In the syrups

prepared by coction, the clarification with whites of eggs is performed after the fugar has been dissolved in the decection of the vegetable; except in the fyrup of meconium, for which therefore the pureft fugar is directed.

The purification of fugar by clarification and despumation is not fo perfect as might be expected; for after it has undergone this process, the refiners still separate from it a quantity of oily matter, which is difagreeable to weak flomachs. See page 193. The clarification of the fugar along with the vegetable decoction is likewise injurious to the medicine; fince by this means, not only the impurities of the fugar are discharged, but a confiderable part of what the liquor had before taken up from the other ingredients. It appears therefore of preparations, to avoid the expence most elegible to employ fine sugar for all the fyrups; even the purgative ones (which have been usually made with coarfe fugar, as fomewhat coinciding with their intention) not excepted; for as purgative medicines are in general un- less, by taking due care, that their grateful to the stomach, it is certainly improper to employ an ad- ly clean, and that the fyrup remain dition which increases their offen- no longer in them than is absolutefiveness.

III.

Where the weight of the fugar is not expressed, twenty - nine ounces thereof are to be taken to every pint of liquor. The fugar is to be reduced into powder, and dissolved in the liquor by the heat of a water bath, unless ordered otherwise. [L.

Although in the formulæ of the feveral fyrups, a double weight of the fugar to that of the liquor is directed, yet less will generally be sufficient. First therefore diffolve in the liquor an equal weight of fugar, then gradually

add fome more in powder, till a little remains undiffolved at the bottom, which is to be afterwards incorporated by fetting the fyrup in a water bath [E.

The quantity of fugar should be fo much, as the liquor is capable of keeping dissolved in the cold: if there is more, a part of it will feparate, and concrete into crystals or candy; If lefs, the fyrup will be subject to ferment, especially in warm weather, and change into a vinous or four liquor.

IV Copper veffels, unless they are well tinned, should not be employed in the making of acid fyrups, or fuch as are composed of the juices of fruits [E.]

The confectioners, who are the most dextrous people at these kinds of frequently new tinning their veffels, rarely make use of any other than copper ones untinned. in the preparation even of the most acid fyrups, fuch as that of oranges, lemons, and the like. Neverthecoppers be well scoured and perfectly necessary, they avoid giving it any ill tafte or quality from the

The fyrup, when made, is to be fet by till next day: if any faccharine crust appears upon the furface, take it off [L.]

> SYRUPUS ex ALLIO. SYRUP of GARLIC. Lond.

Take of Garlie, fliced, one pound; Boiling water, two pints. Macerate them in a close vessel for twelve hours, then flrain off the Ff3 liquor,

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liquor, and diffolve in it a proper quantity of fugar, fo as to make a fyrup.

This fyrup is occasionally made use of for attenuating viscid phlegm, and promoting expectoration in humoural assumants, and oppressions of the breast: in these cases, it proves a medicine of considerable efficacy, though a very unpleasant one: it tastes and smells strong of the garlic.

SYRUPUS ex ALTHÆA. SYRUP of MARSHMALLOWS.

Take of
Marshmallow roots, fresh, one
pound;
Double refined sugar, four

pounds;

Water, one gallon.
Boil the water with the roots to one half: when grown throughly cold, pour off and press out the decoction, and fet it by for a night to fettle: next morning, pour off the clear liquor, and adding to it the fugar, boil the whole to the weight of fix pounds.

Edinb.

Take of
Marshmallow roots, three ounces;
Eryngo roots, one ounce;
Liquorice, half an ounce;
Mardenhair (the true, or English,)
Pellitory of the wall, each one ounce;

White fugar, four pounds; Water, fix pints.

Boil the water with the herbs and rocts to the confumption of one third; then strain out the remaining decoction, and suffer it to rest for some time. Pour off the clear liquor from the sediment, and boil it with the sugar over a gentle fire, keeping the matter continually stirring, till it becomes a syrup.

This fyrup feems to have been a fort of favourite among difpenfatory-writers, who have taken great pains to alter and amend it, but have been wonderfully tender in lopping off any of its articles. In the first of the above forms, it has loft all its fuperfluities, and in the fecond a great many of them, without any injury to its virtues. It is used chiefly in nephritic cases, for sweetening emollient decoctions, and the like; of itself, it can do little service, notwithstanding the high opinion which some have entertained of it; for what can be expected from two or three spoonfuls of the fyrup, when the decoction, from which five or fix pounds are made, may be taken at a draught or two?

SYRUPUS e CORTICIBUS AURANTIORUM. SYRUP of ORANGE PEEL. Lond:

Lond

Take of the

Yellow rind of Seville orange peel, fresh, eight ounces; Boiling water, five pints.

Macerate them for a night in a close vessel; next morning, strain out the liquor, and dissolve in it the proper quantity of sugar for making it into a syrup.

Edinb.

Take of the Yellow rind of orange peel, fresh,

fix ounces; Boiling water, three pints.

Infuse them for a night, in a close vessel, then strain the liquor, let it stand to settle, and having poured it off clear from the sediment, dissolve therein twice its weight of white sugar, so as to make it into a syrup without boiling

In making this fyrup, it is particularly necessary, that the sugar be previously powdered, and disen

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folved in the infusion with as gentle a heat as possible, to prevent the exhalation of the volatile parts of the peel. With these cautions, the fyrup proves a very elegant and agreeable one, pofferfing great share of the fine flavour of the orange peel.

SYRUPUS BALSAMICUS. BALSAMIC SYRUP. Lond.

Take of

Balfam of Tolu, eight ounces; Water, three pints.

Boil them for two or three hours in a circulatory veffel, or at least in a long-necked matras having its mouth lightly covered. When grown cold, strain out the liquor, and mix therewith a proper quantity of fugar to make it into a fyrup.

The coction may be conveniently performed in a retort, with a re-ceiver adapted to it, the liquor which comes over being occasion-ally poured back; or the water may be entirely drawn off, and the fugar dissolved in the distilled liquor.

Edinb.

Take of the

Syrup of fugar, just made, and warm from the fire, two pounds;

Tincture of balfam of Tolu, one ounce.

When the fyrup has grown almost cold, flir into it the tincture, by little at a time, agitating them well together, till perfectly united. The mixture is then to be kept in the heat of a water bath until the spirit has exhaled.

This method of making the balfamic fyrup was dropt in the preceding edition of the Edinburgh pharmacopæia, on a complaint that the fpirit spoiled the taste of the fyrup; which it did in a great de-

gree when the tincture was drawn with malt fpirits. Particular care therefore should be taken, that the spirit, employed for this tincture, be perfectly clean, and well rectified from all ill flavour.

The intention of the contrivers of the two foregoing processes feems to have been fomewhat different. In the first, the more subtile and fragrants parts of the balfam, are extracted from the groffer refinous matter, and alone retained in the fyrup: the other fyrup contains the whole substance of the balfam, in larger quantity. They are both moderately impregnated with the agreeable flavour of the balfam.

In some pharmacopæias, an elegant fyrup of this kind is prepared from a tincture of balfam of Peru, with rose water and a proper quantity of fugar.

SYRUPUS CARYOPHYLLO-RUM RUBRORUM. SYRUP of CLOVE-JULY-FLOWERS. Lond.

Takeof

Clove-july-flowers, fresh gathered, and freed from the heels, three pounds;

Boiling water, five pints. Macerate them for a night, in a glass or glazed earthen vessel, then strain off the liquor, and dissolve therein its due proportion of fugar to make it into a

fyrup.

Edinb. One pound of the flowers is to be infused in three pints of water. and the fyrup made as above. without boiling.

This fyrup is of an agreeable flavour, and a fine red colour; and for these, it is chiefly valued. Some have substituted to it one easily parable at feafons when the flowers are not to be procured : an ounce

FFA

of clove fpice is infused for some proves rather more elegant, and days in twelve ounces of white wine, the liquor strained, and with the addition of twenty ounces of fugar, boiled to a proper confiftence: a little cochineal renders the colour of this fyrup exactly fimilar to that prepared from the clovejuly-flower; and its flavour is of the same kind, though not so plea-

SYRUPUS CROCI. SYRUP of SAFFRON. Lond.

Take of Saffron wine, one pint;

Double refined fugar, twenty-five ounces.

Dissolve the fugar in the wine, fo as to make a fyrup thereof.

Saffron is very well fitted for making a fyrup, as in this form a fufficient dose of it is contained in a reasonable compass. This fyrup as at prefent more frequently prefcribed than the wine from which it is made: it is a pleasant cordial, and gives a fine colour to juleps.

SYRUPUS CYDONIORUM. SYRUP of QUINCES. Lond.

Quince juice, depurated, three

Cinnamon, one dram; Cloves,

Ginger, each half a dram; Red port wine, one pint; Doublerefined fugar, nine pounds.

Digest the juice with the spices, in the heat of ashes, for fix hours; then adding the wine, pass the liquor through a strainer; and afterwards diffolve in it the fugar, so as to make a syrup. If the quinces are kept for some

time, in an airy place, before the ruice is pressed out, the syrup richer of the fruit, than when they are taken fresh from the tree. In either case, the preparation is a very agreeable, mild, cordial re-flringent; and in fome kinds of looseness and disorders of the stomach, may be either taken by itfelf, in the quantity of a spoonful or two at a time, or employed for reconciling to the palate and sto-mach, medicines of the more ungrateful kind.

SYRUPUS KERMESINUS. SYRUP of KERMES. Edinb.

Take of

Juice of kermes grains, one pound;

White fugar, two pounds. Make them into a fyrup, without

The fyrup of kermes, which is brought to us ready made, from the fouthern parts of France, is to be preferred; especially if it has been prepared without heat.

This fyrup is of an agreeable tafte, and a fine red colour. It is accounted cordial and corroborant, and supposed to be particularly ferviceable in weakness, and other disorders of pregnant woman.

SYRUPUS e SUCCO LIMONUM. SYRUP of LEMON JUICE. Lond.

Take of the

luice of lemons, suffered to settle till the feces have subsided, and afterwards strained, two pints;

Double refined fugar, fifty ounces. Diffolve the fugar in the juice, fo as to make a fyrup thereof. Edinb.

Take of

Lemon juice, depurated, one pound;

Chap. 18.

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Syrups.

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White fugar, two pounds.

Make them into a fyrup according to art, without boiling.

After the same manner are prepared,

SYRUPUS e SUCCO AURANTIORUM. SYRUP of ORANGE JUICE. [E.]

SYRUPUS e SUCCO
MORORUM.
SYRUP of MULBERRIES. [L.]

SYRUPUS e SUCCO FRUCTUS RUBI IDÆI. SYRUP of RASPBERRIES. [L.]

All these are very pleasant, cooling syrups, and in this intention are occasionally made use of, in draughts and juleps, for quenching thirst, abating heat, &c. in bilious or imflammatory distempers. They are sometimes likewise employed in gargarisms, for inflammations of the mouth and tonsils.

SYRUPUS e MECONIO, five DIACODION.

SYRUP of MECONIUM, or DIACODIUM.

Lond.

Take of

White poppy heads, dried and cleared from the feeds; three pounds and a half;

Water, fix gallons.

Cut the heads, and boil them in the water, flirring them now and then to prevent their burning, till only about one third part of the liquor remains, which will be almost entirely foaked up by the poppies. Then remove the vessel from the fire, strongly press out the decoction, and boil it down to about four pints: strain it whilst hot, first through a sieve, and afterwards through a fine woollen cloth; and iet it by for a night, that

the feces may fubfide. Next morning, pour the liquor off clear, and boil it with fix pounds of double refined fugar, until the weight of the whole is nine pounds, or a little more, that it may become a fyrup of a proper confiftence.

SYRUPUS PAPAVERIS ALBI, feu de MECONIO, vulgo DIACODION.

SYRUP of WHITE POPPIES, or of MECONIUM, commonly called DI-ACODIUM.

Edinb.

Take of

White poppy heads, just ripe, and moderately dried, fourteen ounces;

Boiling water, one gallon.

Let these be steeped together for a night, and then boiled until half the liquor is wasted: strain, and strongly press out the remainder, and boil it, with the addition of four pounds of white sugar, to the consistence of a syrup.

Particular care is requisite, in the preparation of this syrup, that it may be always made as nearly as possible, of the same strength. It is given to children, in doses of two or three drams; to adults, from half an ounce to an ounce and upwards, for obtunding acrimonious humours, easing pain, procuring rest, and answering the other purposes of opiates. See PAPAVER in the materia medica, page 175.

SYRUPUS PAPAVERIS ERRATICI. SYRUP of WILD POPPIES. Lond.

Take of
Wild poppy flowers, fresh, four
pounds;
Boiling water, four pints and
a half.

Pour

Pour the water on the poppies, fet Macerate them for fome hours, them over the fire, and frequently flir them, until the flowers are throughly moistened: as foon as they have funk under the water, let the whole be fet by to steep for a night: next day pour off, and press out the liquor, and fet it by for a night longer to fettle: afterwards add the proper quantity of double refined fugar to make it into a fyrup. Edinb.

Take of

Wild poppy flowers, fresh, one pound :

Boiling water, three pints.

Steep the flowers in the water for a night, then ftrain off the liquor. and adding two pounds of white fugar, boil it into a fyrup,

The defign of fetting the flowers over the fire is (as Dr. Pemberton observes) that they may be a little fcalded, fo as to fhrink enough to be all immerged in the water; without this artifice, they can fcarce be all got in: but they are no longer to be continued over the fire, than till this effect is produced, left the liquor become too thick, and the fyrup be rendered

This fyrup has been recommended in diforders of the breaft, coughs, fpitting of blood, pleurifies, and other diseases, both as an emollient, and as an opiate. It is one of the lightest of the opiate medicines, and in this respect so weak, that fome have doubted of its having any anodyne quality.

SYRUPUS PECTORALIS. PECTORAL SYRUP. Lond.

Take of ounces ; Liquerice, four ounces: Boiling water five pints. then strain out the liquor, and with a proper quantity of double refined fugar, make it into a Edinb.

Take of

Florence orris roots.

Elecampane roots, each an ounce and a half.

Liquorice, two ounces:

Coltsfoot flowers,

Maidenhair (either the true, or English)

Ground-ivy, each one ounce: Fat figs, twelve in number: Water, one gallon.

Boil the water with the other inoredients, till one fourth part is wafted; strain out the remaining liquor, add to it fix pounds of white fugar, and boil them into a

fyrup.

The title of these compositions expresses their medical intention: they are supposed to fosten acrimonious humours, allay tickling coughs, and promote the expectoration of tough phelm. The true maidenhair is the only fort that has been usually directed in these kinds of compositions: the use of the English is here very judicioully allowed; not only as being more easily procurable, and having been fubflituted to the other in the fhops, but likewife as there does not feem to be any medicinal difference betwixt them. Fuller finds great fault with both these ingredients, on a supposition that all their virtues fly away in drying: but in this he was certainly miftaken; for the virtues of both these maidenhairs confist in a mucilaginous' fubstance, which fuffers no injury by being dried. There English maidenhair, dried, sive is one species indeed, the Canada maidenhair, which has a confiderable share of a pleafant finell and flavour joined to its mucilage; Chap. 18.

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SYRUPUS PŒONIÆ. SYRUP of PEONY. Edinb.

This fyrup is made of an infusion of fresh gathered peony flowers after the fame manner as that of wild poppies:

Nor is it greatly different from that fyrup in quality: the antiepileptic virtues formerly attributed to it have no foundation.

> SYRUPUS e FLORIBUS PARALYSIS. SYRUP of COWSLIPS. Lond.

This is made from cowflip flowers, after the fame manner as the fyrup of clove july-flowers.

It has been supposed serviceable in nervous disorders; its agreeable flavour recommends it to the patient, though at present there are few who suppose it to possess any fingular virtues.

SYRUPUS QUINQUE RADICUM. SYRUP of the FIVE ROOTS. Edinb.

Take of

The five opening roots, (viz. those of smallage, asparagus, fennel, parsley, and butchers broom) two ounces of each;

Water, fix pints. Boil them together till one third of the water is wasted; then strain and prefs out the remaining liquor, dissolve in it four pounds of white fugar, and boil them into a fyrup.

This fyrup stands recommended as an aperient and diuretic, where medicines of that class are indicated. A decoction of the roots, drank in large quantity, is of confiderable

but this is as yet a firanger to the fervice; but little can be expected fhops, though not uncommon in from a fpoonful or two of the fyrup.

> SYRUPUS ROSARUM SOLUTIVUS. SOLUTIVE SYRUP of ROSES. Lond.

Take the liquor that remains after the diffillation of fix pound of damask roses;

Of double refined fugar, five pounds.

Having preffed out the liquor from the rofes, boil it down to three pints, and fet it by for a night to fettle; next morning, pour it off clear from the fediment, and adding the fugar, boil the mixture to the weight of feven pounds and an half.

Edinb. This fyrup is made from a double infusion of fresh gathered pale rofes, after the fame manner as the fyrup of wild poppies.

The liquor remaining after the distillation of roses is as proper for making this fyrup as a fresh infufion of the flowers; for the diffillation only collects, and preferves for other uses, those volatile parts of the rofe, which are dislipated in the air, whilft the infusion is boiling to its consistence. This syrup is an agreeable and mild purgative for children, in the dose of half a spoonful, or a spoonful. It likewife proves gently laxative to adults, and does good fervice in costive habits. Its principal use is in folutive glyfters.

SYRUPUS de ROSIS SICCIS. SYRUP of DRY ROSES. Edinb.

Take of Red roses, half a pound; White fugar, four pounds; Boiling water, four pints. Infuse the roses in the water for a night,

night, then boil them a little, ftrain out the liquor, and adding to it the fugar, boil them to the confistence of a fyrup.

This fyrup is supposed to be Let the sena, rhubarb, fennel seeds, mildly aftringent: but is principally valued on account of its red colour. The London college have omitted this and the fyrup of peony flowers, as being the most infignificant of the red fyrups; some which they have retained are equal to them in point of colour, and superior in other respects.

SYRUPUS SCILLITICUS. SYRUP of SQUILLS.

Take of

Vinegar of fquills, a pint and a

Cinnamon,

Ginger, each one ounce; an areal Double refined fugar, three pounds and a half.

Steep the fpices in the vinegar for three days; then strain out the liquor, and add the fugar, fo as to make a fyrup thereof. Edinb.

Take of

Vinegar of squills, two pints; White fugar, four pounds. Make them into a fyrup, without

boiling.

The spices in the first of these compositions, fomewhat alleviate the offensiveness of the fquills, tho' not fo much as to prevent the medicine from being disagreeable. It for, as they observe, rhubarb is is used chiefly in doses of a spoon- easily given to young children in ful or two, for attenuating viscid powder or infusion, and the taste of phlegm, and promoting expectora- it cannot be rendered agreeable to tion, which it does very powerfully. them by any fweetning.

SYRUPUS de SENA et RHEO. SYRUP of SENA and RHUBARB. Edinb.

Takeof

Sena, two ounces; Rhubarb, one ounce; Sweet fennel feeds. Cinnamon, each two drams : White fugar, three pounds; Boiling water, three pints;

and cinnamon, be fleeped in the water for a night, in a veffel closely stopt. The liquor being then strained out, suffered to fettle, and poured off clear from the fediment, boil it with the fugar, over a gentle fire, to the confiftence of a fyrup.

Here it should feem most eligible to increase the quantity of sugar, or diminish that of the water, that the fyrup might be made without boiling: for as it is necessary, according to the proportions fet down above, to continue the coction for a confiderable time, in order to bring the liquor to a due confiftence; how gently foever it be performed, great part of the flavour of the aro-

matics will be diffipated.

This fyrup is defigned chiefly as a purgative for children; but is not a very agreeable one, nor a-mong us often made use of. The former London pharmacopæia had a medicine of this kind, with some fuperfluous articles, which the committee, in their revifal of it, retrenched: they likewife omitted the fena, as being at best unnecessary, and retained only rhubarb for the purgative ingredient : the compofition was, nevertheless, at length intirely expunged, and very justly;

SYRUPUS SIMPLEX. The SIMPLE SYRUP.

Lond.

Dissolve in water so much double refined fugar, as will make it into a fyrup.

SY-

Chap. 18. Syrups.

II.

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Or he

SYRUPUS SACCHARL STRUP of SUGAR. Edinb.

Take of

White fugar,

Water, each equal quantities.

Boil them into a fyrup.

These preparations are plain liquid fweets, void of flavour or colour. They are convenient for fundry purposes where these qualities are not wanted, or would be exceptionable.

Lond.

Take of the

Juice of ripe and fresh buck- SYRUPUS e SYMPHYTO. thorn beiries, one gallon; SYRUP of COMFRY.

Cinnamon, of a or toupil out

Ginger,

Nutmegs, each one ounce; Comfry roots, fresh.

Double refined fugar, seven Plantane leaves, fresh, each half

pounds.

Set the juice by for fome days to Bruife them both together, and fettle; then pass it through a strainer, and in some part thereof macerate the spices. Boil the rest of the juice, adding towards the end that part in which the fpices were macerated, first passed through a strainer: this part of the process must be so managed, that the whole liquor may be re-

Take of the

depurated, fix pounds;

Edinb.

Brown fugar, four pounds;

Boil the juice with the fugar, over taken in. a gentle fire, to the confiftence of a fyrup; and whilst it continues warm, mix therewith the SYRUP of VIOLETS. effential oil previously ground Lond. with a little fugar. Curve of Take of

In these preparations, the difagreeable qualities of the buckthorn berries are abated by the aromatics and the effential oil: they are nevertheless still ungrateful, though as ufeful, medicinally, as any of the fyrups. Three or four fpoonfuls operate brifkly as a cathartic. and bring away large quantities of ferous humours. The principal inconveniencies attending them are. that they occasion a thirst and dryness of the mouth and fauces, and fometimes violent gripes: both SYRUPUS e SPINA these may be prevented, by drink-CERVINA. ing liberally of water gruel, or o-SYRUP of BUCKTHORN. ther warm liquids, during the operation.

Edinb.

visus went Take of and

a pound.

strongly prefs out the juice : pour on the remaining magma, a quart of water, and boil to the confumption of one half: then frain off the liquor, add to it the expressed juice, and boil the mixture, with an equal weight of white fugar, into a fyrup.

This fyrup is supposed to be duced to four pints. Laftly, put gently emollient and reftringent; in the fugar, and make the mix- and by fome flands greatly comture into a syrup. mended in phthinical disorders and internal ulcerations. But whatever virtues of this kind the ingredients Juice of ripe buckthorn berries, may possess, the syrup is one of those which can have very little effect, even in the largest dose that Effential oil of cloves, one dram; preparations of this kind can be

SYRUPUS VIOLARUM.

Samo sao at Vio-

Violets, fresh, and well coloured, two pounds:

Boiling water, five pints. Macerate them for a whole day, in a glass, or at least a glazed earthen vessel: then pour out the liquor, and pass it through a thin linen cloth, carefully avoiding even the lightest pressure: afterwards, adding the due proportion of fugar, make it into a fyrup.

Edinb.

Take of

March violets, fresh, one pound; Boiling water, three pints.

Steep them together for a night, in Take of an earthen veffel close covered: then strain out the liquor, and diffolve in it twice its weight of white fugar, fo as to make a fyrup without boiling.

This fyrup is of a very agreeable flavour, and in the quantity of a spoonful or two, proves to children gently laxative. It is apt to lofe, ingredients reduced to a very fine in keeping, the elegant blue colour, for which it is chiefly valued.

SYRUPUS ZINGIBERIS. SYRUP of GINGER. Lond.

Take of

Ginger, cut into thin flices, four ounces;

Boiling water, three pints. Macerate them for some hours, then strain out the liquor, and make it into a fyrup with a pro-

per quantity of double refined fugar.

This is an agreeable and moderately aromatic fyrup, lightly impregnated with the flavour and virtues of the ginger.

of reduce this or parenton as nearly

CONFECTIO ALKERMES. CONFECTION of KERMES. Lond.

Take of

Juice of kermes grains, warmed and strained, three pounds ; Damask rose water, fix ounces by meafure :

Oil of cinnamon, half a scruple: Double refined fugar, one pound. Dissolve the fugar in the rose water, by the heat of a water bath, into a fyrup; then mix in the juice of kermes, and after it has

grown cold, the oil of cinnamon. Edinb.

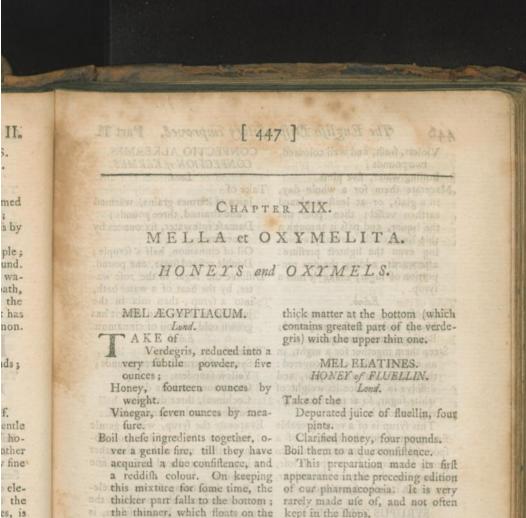
Syrup of kermes, three pounds; Yellow faunders, Cinnamon, each fix drams; · Cochineal, three drams; Saffron, one dram and an half.

Evaporate the fyrup, with a gentle heat, to the confishence of honey; then mix with it the other

powder.

Both these compositions are elegant and agreeable cordials; the dofe, when taken by themselves, is from a fcruple to a dram or more. The first has an advantage of mixing uniformly in juleps, without spoiling their transparency, which the powders in the fecond always Particular care ought to be had in the choice of the effential oil, which for the most part is grievously adulterated; it would be convenient to grind the oil with a little of the fugar, before it is added to the other ingredients; for by this means, it will mix more perfectly, and not be apt to feparate in keeping.

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Totop, is called mel Egyptiacum. UNGUENTUM AEGYPTIACUM.

Take of

Verdegris, finely powdered, five onnees;

Edinb.

Honey, fourteen ounces; Vinegar, feven ounces.

Boil them over a gentle fire, to the confidence of an ointment.

These preparations are designed only for external use, for cleaning and deterging ulcers, and keeping down fungous flesh: they are ferviceable also in venereal ulcerations of the mouth and tonfils. If for particular purposes, they should be wanted more acrid, they may be occasionally rendered so by shaking the veffel, fo as to mix up the

rarely made use of, and not often kept in the shops.

MEL HELLEBORATUM: HONEY of HELLEBORE. Land

Take of

White hellebore roots, dried and cut in flices, one pound : Clarified honey, three pounds;

Water, four pints.

Let the roots be macerated in the water for three days, and then boiled a little; press out the liquor, and having passed it again through a strainer, boil it with the honey to a proper thick-

Particular care ought to be had. to reduce this preparation as nearly as possible to the honey confistence. that its strength may not be too uncertain. It acts as a draftic pur-

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precarious for common use. It has been fometimes given in maniacal cases, in doses of one or two drams and upwards; though more frequently employed in glysters. The present practice very rarely makes use of it at all.

> MEL MERCURIALE. HONEY of MERCURY Edinb.

Take of the Juice of French herb mercury, Honey, each three pounds. Boil them together to the confift-

ence of honey, taking off the fcum which arises to the top.

This is defigned chiefly for glyfters: it is very rarely made use of, and hence dropt by the London college.

> MEL ROSACEUM. HONEY of ROSES. Lond.

Take of

Red rose buds, freed from the heels, and hastily dried, four ounces;

Boiling water, three pints; Clarified honey, five pounds.

Steep the rofes in the water for fome hours, then strain off the liquor, mix with it the honey, and boil them to a due confift-

> MEL ROSATUM. Edinb.

Take of Red rofes, dried, half a pound; Boiling water, four pints; Honey, four pounds.

Steep the rofes in the water for a night, then strain out the liquor, add to it the honey, and boil the mixture to the confistence of

This preparation is not unfrequently made use of, as a mild

gative or emetic, too violent and cooling detergent, particularly in pargarisms for ulcerations and inflammation of the mouth and tonfils. The defign of haftily drying the roses, as directed in the first of the above prescriptions, is, that they may the better preferve their virtues. See page 1911 -

> MEL SOLUTIVUM. SOLUTIVE HONEY. Lond.

Take

The liquor remaining after the distillation of fix pounds of damask roses ;

Cummin feeds, bruifed a little, one ounce ;

Brown fugar, four pounds; Honey, two pounds.

Having preffed out the liquor, boil it to three pints; adding towards the end, the feeds tied up in a linen cloth. Then put in the fugar and honey, and boil down the mixture to the confiftence of thin honey.

This composition is very well contrived for the purpose expressed in its title. It is principally employed in laxative glysters; and hence brown fugar is here allowed; whilft for all other uses, the double

refined is directed.

OXYMEL ex ALLIO. OYXMEL of GARLIC. Lond.

Take of

Garlic, cut in flices, an ounce and a half;

Caraway feeds,

Sweet fennel feeds, each two drams;

Clarified honey, ten ounces by weight;

Vinegar, half a pint.

Boil the vinegar for a little time, with the feeds bruifed, in a glazed earthen vessel; then add the garlic, and cover the veffel close; Chap. 19.

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close; when grown cold, press out the liquor, and dissolve in it the honey, by the heat of a water bath.

This oxymel is recommended for attenuating viscid juices, promoting expectoration, and the sluid secretions in general. It is doubtless a medicine of considerable efficacy, though very unpleasant, the savour of the garlic prevailing, notwithstanding the addition of the aromatic seeds.

OXYMEL PECTORALE. PECTORAL OXYMEL. Edinb.

Take of

Elecampane roots,

Florence orris roots, each half an ounce;

Gum ammoniacum, one ounce; Vinegar, a quarter of a pint; Honey, eight onnces;

Water, two pints.

Let the roots, but and bruifed, be boiled in the water till half a pint is wasted; then strain off the liquor, and add to it the gum ammoniacum, previously dissolved in the vinegar, and the honey: boil the whole together, taking off the scum as it arises; and lastly, strain out the oxymel.

The title of this composition expresses its medical virtues. It is designed for those disorders of the breast that proceed from a load of viscid phlegm (which this medicine attenuates and promotes the expectoration of, and obstructions of the pulmonary vessels. Two or three spoonfuls may be taken every night and morning, and continued for some time.

OXYMEL SCILLITICUM.
OXYMEL of SQUILLS.
Lond.

Take of

Clarified honey, three pounds; Vinegar of fquills, two pints.

Boil them in a glazed earthen veffel, over a gentle fire, to the confishence of a fyrup.

In the Edinburgh pharmacopæia, the honey is employed unclarified; and the fcum, which in fuch cafe arifes in the boiling, taken off: by this means, the impurities of the honey are discharged; but some of the medicinal parts of the fquills, which the vinegar is impregnated with, are also separated. For this reason the London college have judiciously ordered the honey, for all these kinds of preparations, to be previously clarified by itself.

Oxymel of fquills is an ufeful aperient, detergent, and expectorant; and of great fervice in humoural afthmas, coughs, and other diforders, where thick phlegm abounds. It is given in dofes of two or three drams, along with fome aromatic water, as that of cinnamon, to prevent the naufea which it would otherwise be apt to excite. In large doses, it proves emetic.

cuc.

OXYMEL SIMPLEX. SIMPLE OXYMEL. Lond.

Take of

Clarified honey, two pounds;

Vinegar, one pint.

Boil them in a glazed earthen veffel over a gentle fire, to the confiftence of a fyrup.

Edinb.

Take of

Honey, two pounds;

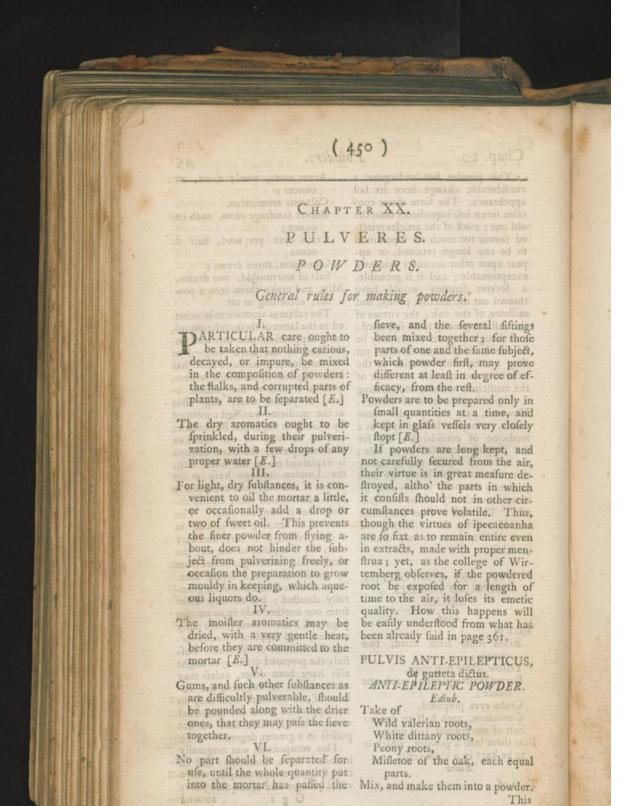
Vinegar, one pint. Boil them according to art.

This simple preparation is not inferior in efficacy to many more elaborate compositions. It is an agreeable, mild, cooling, saponaceous, detergent, and attenuating medicine. It is often used in cooling, detergent gargarisms, and not unfrequently as an expectorant.

Gg

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e;



This powder has undergone a confiderable change fince its last appearance. The form above contains seven less ingredients than the old one; most of the articles rejected favour too much of superstition to be any longer retained, or appear upon other accounts evidently exceptionable; and it is probable, a feverer ferntiny would have thrown out the dittany, peony, and misletoe of the oak; the virtues of this last are greatly to be suspected : and though the two others may be admitted as of some service, yet they are certainly inferior to the valerian, and increase the bulk of the medicine, without contributing a proportionable share of efficacy. However, as the powder now stands, it may be looked upon as a medicine of confiderable use for the purpose expressed in its title; the testacea, which are in many compositions of this kind, are here prudently omitted, as they may be more conveniently added occasionally. The dose is from ten grains to half a dram for children; and from half a dram to two drams, for adults, q dity sbare and

PULVIS ARI COMPOSITUS. COMPOUND POWDER of ARUM.

Take of Lond.

Arum root, fresh dried, two ounces ;

Yellow water flag roots,

Burnet faxifrage roots, each one

Crabs eyes prepared,

Cinnamon, each half an ounce; Salt of wormwood, two drams. Beat them into a powder, which is to be kept in a close vessel. Edinb.

Take of some most stem bas xill

Arum roots, newly dried, two ounces ;

Calamus aromaticus,

Burnet faxifrage roots, each one ounce;

Crabs eyes prepared, half an ounce;

Cinnamon, three drams :

Salt of wormwood, two drams. Mix, and make them into a pow-

der, according to art.

The calamus aromaticus is inferted in the latter of these prescriptions, on a supposition that this was understood by the acorus vulgaris of the original, a name which has been applied by different writers, both to it and to the gladiolus luteus, or yellow water flag. But as the medicine was first contrived by a German physician, Birckmann, and as in fome of the German pharmacopæias, the acorus vulgaris is explained to be the water flag, the London college have made choice of this last, and expressed it by a name which more clearly diflinguishes it from the other. caution of keeping the powder in a close vessel, is a very necessary one; for if exposed to the air, the alcaline falt, imbibing moisture from it, would run into a liquid state. Two alcaline falts have been generally directed; but as they differ from one another only in name (fee page 278.) one of them is here juftly omitted, and fupplied by a proportionable increase of the other. Poffibly the prepared crabs eyes might also have been dropt, unless they are intended to augment the volume of the medicine; for they do not appear to have any medicinal virtue which alcaline falts do not possess in a greater degree.

This composition was originally intended for a stomachic: and in cold fluggish temperaments, where vifcid phlegm and crude acid joices

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abound in the first passages, it proves a very ferviceable one; diffolving and promoting the expulfion of the noxious humours, exciting appetite, and opening obflructions, not only of the viscera, but likewise of the remoter glands; whence it becomes ufeful in fcorbutic cases also: the dose is from one (cruple to two. It is best when fresh made: in keeping, it is apt to grow mouldy, and lose of its efficacy; the arum root in particular foon lofes the pun-gency in which its virtue re-

PULVIS ANTILYSSUS. POWDER against the BITE of a MAD DOG. Lond.

Take of

Ash-coloured ground liverwort, two ounces; Black pepper, one ounce.

Beat them together into a powder.

In our former pharmacopæia, the quantity of pepper was equal to that of the herb: which rendering the powder greatly too hot, the above diminution of it became necessary. The virtue which this medicine has been celebrated for, is expressed in its title: the dose is of cows milk warm, for four mornblooded; and after it, to be dipt may be given in doses of a feruple, in cold water every morning falting for a month. See LICHEN repeated. CINEREUS, page 151.

PULVIS e BOLO COMPOSITUS fine OPIO. COMPOUND POWDER of BOLE without OPIUM. Lond.

Take of

Bole Armenic, or French bole, half a pound:

Cinnamon, four ounces; Tormentil root,

Gum Arabic, each three ounces ; Long pepper, half an ounce. Reduce these ingredients into powder.

PULVIS e BOLO COMPOSITUS cum OPIO. COMPOUND POWDER of BOLE with OPIUM.

Lond.

Take of

Opium strained, three drams. Dry it a little, so as to render it eafily pulverable; and add it to the foregoing species, that they may all beat into a powder to-

gether. This powder, with opium, is an elegant reform of the species of Fracastorius's confection, commonly called diafcordium; confifting only of fuch of the ingredients of that composition, as are most conducive to the intention for which it is at prefent prefcribed. Fortyfive grains of the powder contain one of opium.

The powder is directed to be kept without opium, for cases, where the affiftance of that foporia dram and a half, to be taken in fic drug is not wanted. It is a the morning fasting, in half a pint warm, glutinous astringent; and in fluxes, or other diforders, where ings together. Before the use of medicines of this class are proper, the powder, the patient is to be generally does good service. It

> PULVIS e CERUSSA COMPOSITUS. COMPOUND POWDER of CERUSSE. (fee pages ; Lond.

Take of Cerusse, five ounces;

Sarco-

Sarcocolla, one ounce and a half;

Gum tragacanth, half an ounce. This composition is the trochica albi of Razi, brought back to its original simplicity with regard to the ingredients, and without the needless trouble of making it into troches. It is employed for external purposes; as in collyria, lotions, and injections, for repelling hot acrimonious humours; and in inflammations.

PULVIS e CHELIS
CANCRORUM COMPOSITUS.
COMPOUND POWDER of
CRABS CLAWS.
Lond.

Take of

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The tips of crabs claws prepared, one pound;

Pearls prepared,

Red coral prepared, each three ounces,

Mix them together, don't lo vino

Take of

Crabs eyes prepared,

Red coral prepared, each an ounce;

Black tips of crabs claws prepared, two ounces.

Mix, and make them into a pow-

These powders have lost several of their ingredients, without any injury to their virtues; and possibly they would still bear a farther reduction; for both the crabs eyes and claws are by themselves more effectual than any composition of them with pearls and coral.

The only virtue of these powders is to absorb acidities in the first passages; if no acid juices are contained there, they prove injurious rather than beneficial (see pages 53, 54.) They have been often exhibited in severs, under the notion of alexipharmacs and sudorifics,

from a supposition that these diforders are occasioned by a latent acid; and, though this theory is now exploded, the practice built upon it is, in good measure, still continued. Infants at the breast, indeed, are not unfrequently thrown into febrile distempers, from a redundancy of acid humours; and in these cases, the absorbent powders are undoubtedly of use; but in the fevers of adults, it scarce ever hap. pens that they can be of any fervice. So far are absorbents from being ufeful here, that fubstances of a directly contrary quality, mild acidulous liquors, are in general the most successful remedies, whereever the vis vitæ is not too far depressed; and where it is, the infi-pid indolent earths can contribute nothing to support or raise it.

PULVIS BEZOARDICUS.

BEZOARDIC POWDER.

Take o

Compound powder of crabs

claws, one pound; Oriental bezoar prepared, one ounce.

Mix them together.

Bezoar has hitherto been an ingredient in the foregoing composition; though, notwithstanding the addition it made to the price, it added nothing to the virtue of the medicine. The college of London have therefore very prudently di-rected an abforbent powder, without this costly article; and com-posed another, distinguished by its name, for the use of those who expect any particular virtues from it. The Edinburgh college have entirely expunged this unnecessary drug, and take no farther notice of it in their pharmacopæia, than barely giving it a place in a catalogue of fimples, along with fundry other fubstances, which they

kept in the shops.

PULVIS CONTRAYERVÆ COMPOSITUS. OOMPOUND POWDER of CONTRAYERVA.

Take of Compound powder of crabs claws, a pound and a half; Contrayerva root, five ounces. Make them into a powder.

Take of

Contrayerva root, half an ounce; Virginian fnakeroot, a dram and a half

Edinb. Is drive borneger

Cochineal, one dram; English saffron, half a dram; Bole Armenic prepared, three drams;

Compound powder of crabs claws, feven drams; Make them into a powder.

These powders were formerly directed to be made up into balls with water, (and then called LA-PIS CONTRAYERVÆ,) a piece of trouble now laid afide as needless, for it was necessary to reduce the balls into powder again before they could be used. Nor did that form contribute, as has been imagined, to their preservation; for it is scarce to be supposed, that the powder will lofe more by being kept for a reasonable length of time in a close-stopt glass, than the balls will, in the humectation with water, and exficcation in the air, before they are fit for being put by to keep.

These medicines have a much better claim to the title of an alexipharmac and fudorific, than the two foregoing compositions. The contrayerva, fnakeroot, and faffron by themselves are such, and prove eminently ferviceable in low fevers, where the vis vitæ is weak, and a

certainly do not infift upon being diaphorefis to be promoted. It is possible, that the crabs claw powders are of no farther service than as they divide these powerful ingredients, and render them supportable to the flomach.

> PULVIS DIATESSARON. POWDER of FOUR INGREDIENTS. Edinb.

Tafte of

Round birthwort roots, Gentian roots, Bayberries,

Myrrh, each two ounces. Make them into a powder.

In former editions of the London pharmacopæia, this composition was ordered to be made into an electary, and dignified with the title of THERIACA diatesfaron. We have not heard, however, of its being otherwise made use of, than for diseases of cattle.

> PULVIS DIAPENTE. POWDER of FIVE INGREDIENTS. Edinb.

This is made by adding to the foregoing compositions two ounces of ivory flavings which add more to its bulk than to

its virtue.

PULVIS e MYRRHA COMPOSITUS. COMPOUND POWDER of solo noo MYRRH. Take of Lond.

Rue leaves, dried, Dittany of Crete, Myrrh, each an ounce and a half ; half; MOS GNUOSMO Sagapenum, Ruffia caftor, Opopanax, each one ounce.

Beat them together into a powder.

This is a reform of the trochifci e myrrha, a composition contrived by Razi against uterine obstructions. The making the powder into troches was very unnecessary, fince the medicine is never used in that form. The powder may be taken in any convenient vehicle. or made into boluses, from a scruple to a dram or more, two or three times a day.

> PULVIS ad PARTUM. POWDER to promote DELIVERY. Edinb.

Take of

Borax, half an ounce;

Caffor, Saffron, each a dram and a half; Oil of cinnamon, eight drops; Oil of amber, fix drops.

Beat the species together into a powder, to which add the oils, and mix the whole well together.

This medicine has long been held in esteem for the purpose expressed in its title : nevertheless, its real efficacy, and what there thereof is owing to each of the ingredients, has not been sufficiently determined: the borax, tho' generally looked upon as the capital article, feems to contribute the least to its virtue. The dose is from a scruple to a dram, or so much as can be conveniently taken up at once on the point of a knife. It should be kept in a very close vessel, otherwise it will soon lose a confiderable deal of its more valuable parts.

PULVIS e SCAMMONIO COMPOSITUS. COMPOUND POWDER of SCAMMONY.

Take of Scammony, four ounces; Calcined hartshorn prepared three ounces.

Grind them diligently together into a powder.

Here the fcammony is divided by the earthy calx, and thus rendered fomewhat more foluble, and less adhesive; hence its purgative quality is promoted, at the same time that it becomes less griping. The dose of the compound is from fifteen grains to half a dram.

This powder has been usually prepared with diaphoretic antimony and crystals of tartar (instead of the calcined hartshorn above directed,) and called, from its first publisher, PULVIS CORNACHINI, which in the Edinburgh pharmacopceia is thus directed : Take of

Diaphoretic antimony, Creme of tartar,

Scammony, each equal parts. Make them into a powder.

This may be given to the quantity of a dram or more. In other prescriptions, the tartar and antimonial calx bear nearly the fame proportion to the fcammony, as the calcined hartshorn in the preceding formula. It appears pro-bable, that neither of these ingre-dients are of any farther use, than as they divide the texture of the fearmony; though Cornacchini propofes notable advantage from fome deobstruent quality in the tar-tar, whereby the vessels shall be opened, and the noxious humours prepared for expulsion; and from the preparation of antimony, tho' it have no fensible operation, he expects some share of the same succels, which fometimes attends the rougher preparations of that mineral.

> PULVIS e SENA COMPOSITUS. G g 4

COM-

COMPOUND POWDER of the former, and KNAZ Lond. District gaisd moit

Take of

Sena, Crystals of tartar, each two ounces; Scammony, half an ounce;

Cloves, Cinnamon,

Ginger, each two drams.

Powder the scammony by itself; and all the other ingredients together; then mix them.

PULVIS DIASENNÆ. Edinb.

Take of

Scammony.

Ginger, each half an ounce. Make them into a powder.

These powders are given as ca-thartics, in the dose of two scruples, or a dram. The spices are added, not only to divide, but to warm the medicine, and make it fit eafier on the stomach. The scammony is used as a stimulus to the sena; the quantity of the latter necessary for a dofe, when not affifted by fome more powerful material, being too bulky to be conveniently taken in this form.

PULVIS STERNUTATORIUS. STERNUTATORY POWDER.

Lond.

Take of Afarum,

Marjoram,

Marum Syriacum, leaves dried. Lavender flowers, dried, each equal weights.

Rub them all together into a pow-

PULVIS CEPHALICUS. CEPHALIC POWDER. Edinb.

Take of

of our former pharmacope, murah Betony, ora daidy hantieno salaine

Marjoram, of the leaves of each, equal parts.

flexiber and it is a second of the ingredie

The titles of these powders fufficiently express their intention. They are both agreeable and efficacious errhines, and fuperior to moll of those usually fold under the name of herb fnuffs man seven it holdw

PULVIS STYPTICUS STYPTIC POWDER

Edinb.

Take of

Alum, half an ounce; Dragons blood, two drams.

Creme of tartar, each two ounces; Mix, and make them into a powder.

> This powder has long been in repute as an astringent, under the title of PULVIS STYPTICUS HELVETII. It is undoubtedly a very powerful medicine; though the dragons blood feems to have little fhare in its effects. See page 75. Some direct the ingredients to be melted together before they are powdered : but this circumstance does not appear to be at all necessary.

PULVIS e SUCCINO COMPOSITUS, mind COMPOUND POWDER of AMBER. Lond. vago

Take of amenhows do

Amber prepared, woll amil mM

Gum Arabic, each ten drams; Juice of hypocities, Balaustines.

Japan earth, each five drams; Olibanum, half an ounce;

Strained opium, one dram. Reduce them all together into a powder.

This powder is composed of the more unexceptionable ingredients of the TROCHISCI e CARABE

of our former pharmacopæia. The articles omitted, which are as many in number as those now retained, were manifestly abfurd or superfluous; and the making it up into troches, a very unnecessary trouble. The medicine, as now reformed, may be looked upon as an ufeful. and tolerably elegant affringent; though possibly the ingredient, which it receives name from, contributes little to its virtue. Two fcruples of the composition contain one grain of opium.

PULVIS e TRAGACANTHA COMPOSITUS. COMPOUND POWDER of GUM TRAGACANTH. Lond.

Take of Gum tragacanth, he os as studen Gum Arabic, Marshmallow root, each an ounce and a half ; on whowed way

Liquorice, each half an ounce; Double refined fugar, three ounces ; Grind them into a powder.

PULVIS DIATRAGACANTHI.

Edinb.

Take of Gum tragacanth, one ounce; Gum Arabic, five drams; Liquorice, White poppy feeds, Starch, each two drams; Marshmallow roots, half an ounce.

Beat them all together into a powder.

Both these powders are mild, emollient, glutinous medicines, and hence become ferviceable in hectic cases, tickling coughs, strangury, heat of urine, fome kinds of alvine fluxes, and other disorders proceeding from a thin acrimonious flate of the humors, or an abrasion of the natural mucus of the intef-

tines; they foften, and give a greater degree of confiftency to the former, and defend the latter from being irritated or excoriated by them. All the ingredients coincide in these general intentions; the marshmallow root, however, is fomewhat too bulky for this form, and likewise subjects the composi-tion to grow mouldy in keeping, an inconvenience which the cold feeds formerly employed in these powders were particularly liable to.
The dose is from half a dram-to two or three drams, which may be frequently repeated.

HIERA PICRA. 10 odaT Tolog S

Take of The gum extracted from Socotorine aloes, one pound;

Canella alba, three ounces. Bear them feparately into powder, and then mix them together.

This powder, in our former pharmacopæia, befides the capital ingredient aloes, contained cinnamon, zedoary, afarum, cardamom feeds, faffron, and cochineal. The article here introduced in the room of these, was found, upon trial of a great many others, most effectually to cover the ill flavour of the aloes; at the same time, that the quantity sufficient to effect this, communicates to the medicine the fame degree of fpicy warmth, as the aromatics in the old form. It should nevertheless feem, that the alteration make in this preparation may occasion some small change in its medical virtues: the fingular qualities of the afarum point out the intention of the contriver to have been, not entirely to alleviate the intense bitterness and disagreeable smell of the aloes, or barely to warm the medicine with aromatics, but by the addition of pun-

gent, penetrating fubstances, to Beat them all together into a powpromote and extend its action to farther purpofes, than the aloes alone was capable of answering. In this light, the modern practice confiders this medicine, and prescribes it not fimply as a purgative, but as a stimulus. In the following formula, the afarum is likewife rejected; but another pungent drug introduced in its flead :

PULVIS HIERÆ PICRÆ. Edinb.

Take of

Socotorine aloes, four ounces; Virginian fnakeroot, Leffer cardamon feeds, each half

an ounce.

Mix, and beat them into a powder. These compositions were originally directed to be made into an electary: with us, they have been rarely used in that form, and not often in this of a powder, on account of their great nauseousness. They are chiefly employed as the basis of a tincture called, from the extraordinary virtues attributed to it, tinctura facra, which fee.

SPECIES AROMATICAL AROMATIC SPECIES.

Take of

Cinnamon, two ounces; Leffer cardamon feeds, hufked,

Long pepper, each one ounce. Beat them together into a powder.

PULVIS DIAROMATON. AROMATIC POWDER. Edinb.

Take of Canella alba, Lesser cardamom seeds, Mace. Ginger, each equal parts. der.

Both these compositions are agreeable, hot, spicy medicines: and as fuch, may be usefully exhibited in cold phlegmatic habits and decayed constitutions, for warming the flomach, promoting digeftion, exciting the vis vitæ, and frengthen ing the tone of the viscera in general. The dose is from ten grains to a scruple and upwards. The first proves considerably the warm-

SPECIES e SCORDIO fine OPIO. SPECIES of SCORDIUM without OPIUM. Lond.

Take of Bole Armenic, or French bole, four ounces ; Scordium, two ounces; Cinnamon, one ounce and a half: Storax strained, Tormentil root, Biffort root. Gentian, Dittany of Crete, Galbanum strained, Gum Arabic. Red rofes, each one ounce .; Long pepper, Ginger, each half an ounce.

SPECIES e SCORDIO cum OPIO. SPECIES of SCORDIUM with OPIUM. Lond.

Reduce them into powder.

Take of

Strained opium, three drams. Dry it a little, that it may eafily pulverize; and add it to the foregoing species in the beating, that they may be all reduced into a powder together.

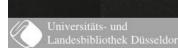
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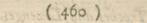
rius's confection or diafcordium, ting forrel feeds, which are certainwhich has been hitherto kept in the shops in the form of an electary only, but is now judiciously directed in that of a powder also, both with and without the opium : when made into an electary, the medicine, in keeping, lofes confiderably of its aftringency, in which confifts great part of its medicinal

As this composition has in common practice been looked upon as a medicine of great confequence, and its effects determined by long experience; the college have made no farther alteration in its ingredients, than fubflituting red rofes them-

This is the species of Fracasto- selves to the sugar of roses, omitly infignificant, and fupplying the Lemnian earth, which with us is fcarce ever met with genuine, by a proper increase of the bole. They have nevertheless given an elegant reform of it, in the pulvis e bolo. cum et fine opio: there, the fcordium, storax, gentian, dittany, ginger, and galbanum, are rejected as being either fuperfluous or contrary to the intention; whilst an increase of the tormentil root more than amply fupplies the loss of the bistort root and roses. The quantity of opium is the same in both, viz. one grain in forty-five of the composition. and beat them into a powder

then in this of a powder, on ne





ble : fince before they are ufed, BLACK PECTORALTROCHES CHAPTER XXI perobwog ad flam vant

TROCHISCI et TABELLÆ. affrictive collyrium, injection, &c., ounces

of the state of th

Troches and lozenges are composed of powders made up with glutinous ound of ubstances into little cakes, and afterwards exficcated, one doubt

HIS form is principally ders have likewife been reduced incommodious exhibition of certain fervation; though possibly for no medicines, by fitting them to dif-folve flowly in the mouth, fo as ing, and afterwards drying them in to pass by degrees into the stomach; and hence these preparations have generally a confiderable proportion of fugar or other materials grateful to the palate. Some pow-

made use of for the more to troches, with a view to their prethe air, must in this light be of greater injury, than any advantage accruing from this form can counterbalance. 1001 zimo engan

det, which is to be made up an-General rules for making troches. Washand or

lemI.or

The four first rules laid down for making powders, are also to be observed in the powders for white pectoral troches asaformed feribed. In foreill pharmaconceies

If the mass proves so glutinous as to flick to the fingers in making or up, the hands may be anointed with any convenient fweet or aromatic oil a or elfe fprinkled with powder of ftarch, or with that of liquorice ONTHOOMT HUH

In order to throughly dry the troches, put them on an inverted fieve, in a shady, airy place, and frequently turn them.

Troches are to be kept in glass veffels, or in earthen ones well Florence orris root, bestlance

TROCHISCI ALBI RHASIS. feu SIEF ALBUM. The WHITE TROCHES, or DRY COLLYRIUM of RAZI. the otherdaibaredient

Take of Ceruffe, ten drams; Sarcocolla, three drams; Gum tragacanth, presto to boll Starch, each two drams; Camphor, half a dram;

Rose water, as much as is suffi-

Make

Make them into troches according in the throat,

The making thefe ingredients into troches is an unnecessary trouble; fince before they are used, they must be powdered again, for being mixed with rose water or other liquors, for the purposes of a cooling, antacrid, and moderately aftrictive collyrium, injection, &c. The London college have therefore judiciously directed them to be kept in the form of powder (under the title of pulvis e cerussa compositus) omitting the flarch and camphor, into troches. which are not found in the original of Razi.

TROCHISCI BECHICI ALBI. WHITE PECTORAL TROCHES. fervation : thou Lord offibl

Take of editor inches boog year

Double refined fugar, a pound and a half;

Starch, an ounce and a half: Liquorice, fix drams : 1 gran

Florence orris root, half an ounce.

Reduce these ingredients into powder, which is to be made up into troches with a proper quantity of mucilage of gum tragacanth.

Take of

White fugar candy, a pound and a half;

Florence orris root, an ounce and a half ;

Liquorice, an ounce; DOAT Starch, half an ounce;

Mucilage of gum tragacanth, as much as is sufficient to make the other ingredients, powdered, into troches.

These compositions are very agreeable pectorals, and may be used at pleasure. They are calculated for foftening acrimonious humours, and allaying the tickling

which provokes coughing.

TROCHISCI BECHICI NIGRI. BLACK PECTORAL TROCHES. Lond.

Take of

Extract of liquorice,

Double refined fugar, each tem ounces;

Gum tragacanth, half a pound. Drop upon these ingredients, so much water as will make the mass fost enough to be formed

By some error, powder of liquorice was ordered in the last edition of the pharmacopæia, inflead of the extract, which is the ingredient that gives the troches their black colour. The college have now corrected this miftake; and likewife omitted the fweet almonds and mucilage of quince-feeds the first was an improper article, and the other an infignificant one portion of lag dails other mater

Take of

Extract of liquorice, two ounces; Balfam of Tolu, one dram; Gum tragacanth, half an ounce; White fugar, four ounces;

Hyssop water, as much as is fufficient to make the other ingredients into troches.

These compositions are calculated for the fame purposes as the white pectoral troches above defcribed. In foreign pharmacopæias there are some other troches of this kind, under the titles of frochisei becchici flavi, and rubri; the first are coloured with faffron, the latter with bole Armenic. Usm

TROCHISCI CYPHEOS pro MITHRIDATIO. The TROCHES called CYPHI (incense cakes) for MITHRIDATE.

Take

Take of

Raifins of the fun, stoned, Turpentine of Cyprus, each three ounces:

Myrrh,

Camels hay, each an ounce and

Cinnamon, half an ounce : Saffron, one dram;

Bdellium, Mad

Spikenard, Cafia lignea, redargos mentanell

Cyperus roots, the round or long, Juniper berries, each three drams; Afpalathus, or yellow faunders, two drams and a half:

Calamus aromaticus, nine drams; Clarified honey, as much as is fufficient.

Grind the bdellium and myrrh with fo much Canary wine as will reduce them to the confistence of honey; then add thereto the pulp of the raifins, the turpentine, and the honey, and laftly the other ingredients reduced into a very fubtile powder. Make the whole into troches according

TROCHISCI dicti MAGMA HEDYCHROI, pro THERIACA ANDROMACHI.

The TROCHES called HEDYCHROI (pleafant coloured)
for VENICE TREACLE. Edinb.

Take of

Marum leaves, Marjoram leaves, Aspalathus, or yellow saunders. Afarum roots, each two drams: Camels hav. Calamus aromaticus, Pontic phu (or wild valerian root) Take of Xylobalfamum (or agallochum) Opobalfam, (or balfam of Peru) Costus, (or zedoary) Cinnamon, each three drams;

Malabathrum, (or bay leaves) Indian nard, Cafia lignea, Saffron, each fix drams : Amomum, (or cloves) an ounce and a half : Mastich, one dram; Canary wine, as much as is fuf-

ficient. Make them into troches according to art.

These and the foregoing troches, as their titles import, are defigned only as ingredients, one in the mithridate, the other in the theriaca, though most of their articles are inferted therein over again. The London college has rejected the needless trouble of making either of these troches; and in their slead, direct the feveral articles which they confift of, to be united in those compositions directly.

TROCHISCI de MINIO. RED-LEAD TROCHES. Edinb.

Take of

Red lead, half an ounce ; Corrofive mercury fublimate, one ounce;

Crumb of the finest bread, four ounces.

Make them up with rofe water into oblong troches.

These troches are employed only for external purpofes as escharotics: they are powerfully fuch, and require a good deal of caution in their use.

TROCHISCI e MYRRHA TROCHES of MYRRH.

Edinb.

Myrrh, half an ounce; Madder roots, Pennyroyal leaves. pil you tuodise Ruffia caftor, each three drams;

- Cummin

Chap. 21. Troches and Lozenges.

463

Cummin feed, Afa feetida, Galbanum, each two drams;

Effential oil of rue, Effential oil of favin, each twenty

drops;
Elixir proprietatis, as much as is fufficient.

Let the gums be fostened with the elixir into a mass of the consistence of honey; then add the oils and powders, and make the whole into troches according to art.

These troches are very well contrived, in regard to efficacy, and fuperior to those in most other pharmacopæias, under the fame title; though some of their ingredients might nevertheless be dispensed with: the madder is an unnecessary article, and the cummin feed an offensive one, and not of similar intention with the reft. There feems to be no occasion for making a medicine of this kind into troches. as it cannot be conveniently taken in that form; the London college have therefore exchanged their TROCHISCI e myrrha for a PUL-VIS e myrrha compositus, which see. Both compositions are designed for antihysterics and promoters of the uterine discharges: the dose is from a scruple to a dram. made adala

TROCHISCI e NITRO. TROCHES of NITRE.

Take of

Nitre purified, four ounces;
Double refined fugar, one pound.

Make them into troches with mucilage of gum tragacanth.

This is a very agreeable form for the exhibition of nitre, though it is not free from inconveniencies; for when the falt is thus taken without any liquid (if the quantity is considerable) it occasions great uneafines about the stomach, which can only be prevented by large dilution with aqueous liquors.

TROCHISCI e SCILLA. TROCHES of SQUILLS.

Lond,

Take of

Baked fquills, half a pound; Wheat flower, four ounces.

Beat them together, and form the mais into troches, which are to be dried with a gentle heat.

TROCHISCI SCILLITICI pro THERIACA ANDROMACHI. TROCHES of SQUILLS for VENICE TREACLE. Edinb.

Take a whole fquill, after the leaves and stalks are withered. Having peeled off the outward skin, inclose the fquill in a passe of wheat slower, and bake it in an oven until the passe is dried into an hard crust.

Let three ounces of fquills, thus baked tender, be beat in a mortar with two ounces of the meal of white vetch, or of common wheat flower, into a paffe which form into troches, to be gently dried in the shade.

The fquill itself, moderately dried, is justly preferred to these troches.

These preparations are used only as ingredients in the theriaca. The design of baking the squill is, to abate its acrimony, and making it afterwards into troches seems the most convenient way of drying it; common wheat flower is as fit for this purpose as any, though that of the white vetch has been generally directed.

TROCHISCI e SULPHURE.

TROCHES of SULPHUR.

Lond.

Take of

Flowers of fulphur, washed, two ounces ;

Double refined fugar, four ounces: Beat them together, and adding fome mucilage of quince-feeds, form them into troches.

TROCHISCI DIASULPHURIS. TROCHES of SULPHUR. Edinb.

Take of

Flowers of fulphur, one ounce; Flowers of benzoine, one dram; White fugar, four ounces;

Mucilage of gum tragacanth, as much as is fufficient.

Mix and make them into troches, according to art.

These compositions are to be confidered only as agreeable forms for the exhibition of fulphur, no alteration or addition being here made to its virtue; unless that by the flowers of benzoine in the fecond prescription, the medicine is supposed to be rendered more efficacious as a pectoral.

TROCHISCI e TERRA IAPONICA. TROCHES of JAPAN EARTH. Lond.

Take of

Japan earth, Gum Arabic, each two ounces; Sugar of rofes, fixteen ounces.

Beat them together, and dropping in fome water, make them into troches.

Edinb.

Take of

Japan earth, two ounces; Gum tragacanth, half an ounce; White fugar, one pound; Rose water, a sufficient quantity.

Make them into troches.

A preparation of this kind, with the addition of ambergris and musk,

which are here more prudently omitted, has long been in some esteem as a mild restringent, &c. under the title of CATECHU. Medicines of this class in general are excellently fitted for the form of troches: for when flowly and gradually received into the stomach, as this form occasions them to be, they produce much better effects, than if an equal quantity was taken down at once. Japan earth is for this purpose one of the most proper of the astringents, as being totally foluble, mild in quality, and free from any ungrateful relish, which most of the others are accompanied with. The troches are fufficiently palatable, and of confiderable service in some kinds of coughs, thin acrid defluxions, diarrhœas, and disorders proceeding from a laxity of the intestines.

TROCHISCI VIPERINI pro THERIACA ANDROMACHI. VIPER TROCHES for VENICE TREACLE. Edinb.

Take of

Vipers flesh (first freed from the Bein, intestines, fat, heads, and tails, then boiled in water, with a little dill and falt, till it has grown foft; and afterwards separated from the back bone) eight ounces:

Bisket bread, pounded and passed through a fieve, two ounces.

Beat them together, with a fufficient quantity of the liquor wherein the vipers were boiled, into a mass; which is to be formed into troches according to

These troches are brought to us ready made from abroad; but the vipers flesh itself dried, is juftly preferred to them: and accordingly

Chap. 21. Troches and Lozenges.

accordingly the London college have entirely omitted the troches and fupplied their place in the theriaca, with a fuitable quantity of the dried flesh of the animal. The troches brought from abroad are certainly very infignificant, if genuine, which fome suspect they are not.

TARELLE CARDIALGICE. CARDIALGIC LOZENGES.

Lond.

Take of

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Chalk prepared, four ounces; Crabs claws prepared, two ounces; White fugar, one pound; Bole Armenic, or French bole, half an ounce;

Nutmegs, one scruple; ounces;

Reduce these ingredients into powwith water.

TROCHISCI CARDIALGICI.

Edinb.

Take of Oyster shells prepared,

White chalk, powdered, each two ounces:

Gum Arabic, half an ounce; Notmegs, half a dram; White fugar, ten ounces;

Balm water, a sufficient quan-

Make them into troches according to art.

These compositions are calculated against that uneasy fensation at stomach improperly called the heartburn; in which they oftentimes give immediate relief, by abforbing and neutralizing the acid juices that occasion this disorder. The absorbent powders here made use of, are of the most powerful kind.

SACCHARUM ROSACEUM. SUGAR of ROSES. Lond.

Take of

Red rose buds, freed from the

heels, and haftily dried, one ounce ;

Double refined fugar, one pound. Reduce them feparately into powder, then mix, and moisten them with water, that they may be formed into troches, which are to be dried by a gentle heat.

SACCHARUM ROSATUM RUBRUM. RED SUGAR of ROSES.

Edinb.

Take of

Juice of red roses, four ounces; Red roses dried, one ounce.

Boil the fugar and the juice over a Double refined fugar, three gentle fire, till the juice is almost all evaporated; then throw in the dry roses reduced to a very der, and make them into troches fine powder. Pour out the matter upon a marble, and form it into lozenges according to art.

These preparations are chiefly valued for their agreeableness to the eye and palate. Some likewife effect them, medicinally, as light restringents; and look up-on them, not undeservedly, as an excellent addition to milk in pthifical and heclic cases. Some have been accustomed to add a portion of acid in making these preparations: this improves the colour, but renders them less proper to be used with milk.

SACCHARUM HORDEATUM feu PENIDIATUM. BARLEY SUGAR.

Edinb.

This is made by boiling white fugar in barley water (that is, a decoction of barley) till it acquires fuch a confiftence as that it may be drawn out, and twifted into threads or ftrings.

It is rarely prepared by the apothecary, or confidered as a medicine.

Hh

TABELLÆ
DIATRAGACANTHI.
LOZENGES of the COMPOUND
POWDER of GUM
TRAGACANTH.
Edinb.

Take of

The compound powder of gum tragacanth, three ounces; White fugar, one pound; Rose water, four ounces. Set the sugar and rose water over the fire, and when the sugar is dissolved, throw in the powder; then pour out the matter upon a marble, and form it into lozen-

The virtues of this composition may be understood from those of the powder which it receives name from. The ingredients here added render it very agreeable to the palate, but at the same time so far increase its bulk, that large quantities must be taken in order to produce any considerable effect.



CHAP-

CHAPTER XXII.

PILULE.

PILLS.

General rules for making pills, from the Edinburgh pharmacopæia.

ET the four first rules, formerly laid down for the making of powders, be likewise carefully observed here.

Gums and inspissated juices are to be first softened with the liquid prescribed; then add the powders by little and little, and beat the whole well together.

The masses for pills are best kept in bladders, which should be moistened, now and then, with some of the same kind of liquid that the mass was made up with.

PILULÆ ÆTHIOPICÆ.

ETHIOPIC PILLS.

Edinb.

Take of
Pure quickfilver,
Golden fulphur of antimony,
Refin of guaiacum,

Spanish foap, each half an ounce. Grind the quickfilver with the golden sulphur and resin, in a glass mortar, until the mercurial globules entirely disappear; then add the soap, with as much balfamic syrup as is sufficient to make the mixture into a mass of the proper consistence for forming pills.

These pills are much more efficacious than those of the preceding edition; the ethiops mineral, there ordered, being exchanged for a more active composition. In their present form, they resemble Dr. Plummer's pills, described in the Edinburgh effays, (see page 350 of this work) to which they are preferable in one respect, that they are less apt to run off by flool. foap is added merely to promote their diffolution in the flomach; for pills made up of refins and fubstances not eafily disfoluble, frequently pass through the body entire; which fometimes happened to the last form of these pills.

This medicine is an useful alterative both in cutaneous and venereal diforders. One fourth part of the quantity above prescribed may be made into fixty pills; of which, from one to four may be taken every night and morning, the patient keeping moderately warm during the whole time that this course is continued.

PILULÆ AROMATICÆ.

AROMATIC PILLS.

Lond.

Take of
Socotorine aloes, an ounce and
a half;
H h 2 Gum

Gum guaiacum, one ounce : Aromatic species.

Balfam of Peru, each half an ounce.

Reduce the aloes and gum guaiacum separately into powder, then mix them with the rest, and make the whole into a mass with syrup of orange peel.

It is fomewhat difficult to unite these ingredients into a mass fit for making pills of. The best way is, to first rub the aromatic species with the balfam, then to add the powdered aloes, and afterwards the guaiacum; when these are well mixed together, drop in the fyrup by little and little at a time.

These pills are contrived to supply the place of the PILULÆ DIAM-BRÆ of our former pharmacopæia. They are far more elegant as well as fimple, truly uniform in their ingredients, and excellently adapted to the purposes they seem de-figned for. Taken in small doses, as half a fcruple, or a little more, and occasionally repeated, they warm the flomach, and by degrees the whole habit, promote per-fpiration, and all the natural fecretions: hence, in cold phlegmatic temperaments, fluggish indispositions, and obstructions of the vifcera, or remoter glands, proceed-ing from these causes, this stimulating warm medicine proves emi-neutly ferviceable. If the dose is confiderable, it operates gently by flool: and if continued for fome time in finaller doses, it proves at length purgative, or introduces a falutary loofeness.

PILULÆ ex COLOCYNTHIDE SIMPLICIORES The MORE SIMPLE COLOCYNTH PILLS.

Take of Pith of colocynth,

Scammony, each two ounces: Oil of cloves two drams. Pulverize the dry species by themfelves, then mix in the oil, and make the whole into a mass. with fyrup of buckthorn.

PILULÆ de DUOBUS. PILLS of TWO INGREDIENTS. Edinb.

Take of Colocynth,

Scammony, each one ounce:

Vitriolated tartar, two drams; Oil of cloves, one dram.

Reduce them into a mass, according to art, with a proper quantity of fyrup of buckthorn.

The operator should be careful, in pulverizing the colocynth, to avoid the finer particles that fly off from it; which, though they do not confiderably affect the mouth or fauces, have fometimes been obferved to occasion violent purg-ing. The drug should first be well dried, cut with a sheers into small pieces, and freed from the feeds: then rub it in an oiled mortar, addiug a few drops of fweet oil occafionally during the trituration: afterwards mix this powder with the powdered fcammony, add the effential oil prescribed, and make the mixture into a mass, as above directed. This composition is apt to grow stiff and dry in keeping, and therefore ought to be made pretty foft at first: the pills should be formed as they are wanted; for when long kept, they become fo hard, as to have fometimes paffed through the intestines undissolved.

These pills are very strong catharties, and ought not to be ventured upon where less violent ones will take effect. They have been recommended, and fometimes made use of, in venereal cases; but here they are manifestly improper, as greatly weakening the constitution,

incurable gleet. The essential oil, which is added as a corrector to the purgative ingredients, does not contribute fo much as is generally fupposed, to abate the roughness of their operation. See pages 64 and The dose of these pills is from fifteen grains to half a dram: this last quantity of those of the London pharmacopæia contains about half a fcruple of colocynth, and as much feammony: those of the Edinburgh contain fomewhat less of each.

PILULÆ ex COLOCYNTHIDE cum ALOE. COLOCYNTH PILLS with ALOES. Lond.

Take of

Socotorine aloes, Scammony, each two ounces; Pith of colocynth, one ounce; Oil of cloves, two drams.

Let the dry fpecies be feparately reduced into powder; then mix in the oil, and make the whole into a mass with fyrup of buckthorn.

> PILULÆ COCCIÆ. The PILLS called COCHIA. Edinb.

Socotorine aloes, Colocynth,

Scammony, each one ounce; Vitriolated tartar, two drams; Oil of cloves, one dram.

Beat them into a mass, with a proper quantity of fyrup of buck-

These pills also are strong catharties, but less violent than the foregoing. They are commonly made use of where brisk purgatives are necessary in doses of a scruple, or half a dram, and fometimes two scruples. Half a dram of those of

and apt to bring on an obstinate or the London pharmacopæia contains nearly of colocynth four grains; aloes and fcammony, of each eight grains. The fame quantity of those of the Edinburgh contains colocynth, fcammony, and aloes, about fix grains and a half of each.

By the diminution of the colocynth in the first of the above forms, the ingredients are reduced to the proportions, wherein they are fet down in the original of Galen; and what is of greater confequence, the medicine becomes less ungrateful to the stomach. Razi has feveral compositions of this kind (formed probably upon that of Galen) under the titles of pilulæ cochie, pilulæ folwentes colicam velociter, medicina laxativa, confestio ad dolores capitis, &c. That which he calls cochie (by a corruption of the Greek MONNOS OF MONNIA, which are only general names for pills) confifts of ten drams of hiera picra, three and one third of colocynth, two of fcammony, five of turbith, and five of flachas. This compofition, with the addition of fyrup of flæchas to make it into a mafs, has been continued in most of the modern pharmacopæias, under the title of pilula cochia, or coccia those of Galen, which are named MINORES.

Here it may be observed, that the ancients exhibited these kinds of medicines in much larger quantities than can be ventured on at present. Razi directs the abovementioned quantity of his cochie for only ten doses; so that each dose must contain no less than a dram of hiera picra (of which two feruples are aloes,) one scruple of colocynth, twelve grains of fcammony, and half a dram of turbith root.

Hh 3

PILULÆ

PILULÆ ECPHRACTICÆ.

DEOBSTRUENT PILLS.

Lond.

Take of the

Aromatic pills, three ounces; Rhubarb,

Extract of gentian,

Salt of fleel, each one ounce; Salt of wormwood half an ounce; Beat them together into a mass, with solutive spirit of roses.

It is difficult to bring this mass into the due confiftence, the two fales acting upon one another, fo as to make it fwell and crumble. Notwithstanding the alcaline salt employed, the pill does not prove at all alcaline; for the acid of the falt of fteel forfakes its metal. and unites with the alkali, into a vitriolated tartar: whence fome have proposed using, instead of the two falts here directed, an ounce of vitriolated tartar already made, and half an ounce of any of the calces of iron: this they observe prevents the inconveniency above mentioned, without making any apparent alteration in the quality of the medicine.

PILULÆ ECPHRACTICÆ
CHALYBEATÆ.
CHALYBEAT DEOBSTRUENT
PILLS.
Edinb.

Take of

The mass of common pills, an ounce and a half; Gum ammoniacum,

Refin of guaiacum, each half an ounce;

Salt of steel, five drams;

Elixir proprietatis, as much as is fufficient to reduce the other ingredients into a mass.

These pills are very properly called chalybeat; the salt of steel, which is one of the most active preparations of the metal, remaining here undecompounded. Both these and the foregoing are very well

calculated for answering the intention expressed in the title. A dram of the mass may be made into twelve pills, and three of these taken every night, in chlorotic, or other cases, where warm, aperient, or deobstruent medicines are proper.

PILULÆ ECPHRACTICÆ cum ACULEO.

ACCUATED, or PURGATIVE DEOBSTRUENT PILLS.

Edinb.

Take of

Socotorine aloes,
Extract of black hellebore,
Scammony, each one ounce;
Gum ammoniacum,
Resin of guaiacum, each half an
ounce;

Vitriolated tartar, two drams; Effential oil of juniper berries, one dram.

Beat them into a mass, with a sufficient quantity of syrup of buckthorn.

The pilulæ ecpbracticæ fine aculeo of the former Edinburgh pharmacopæia, which were never called for, being now omitted, the name of these, cum aculeo, becomes less proper. But as this pill, or one of the fame strength, containing several fuperfluous ingredients, has been much in use in Scotland, and for a long time prescribed under that title, the college have fludied convenience rather than propriety, in keeping the old name. The medicine may be given as an alterant and deobstruent, in doses of eight or ten grains; a fcruple or half a dram, generally prove purgative.

PILULÆ FŒTIDÆ.

FETID PILLS.

Edinb.

Takeof

Afa fetida, one dram and a half; Russia castor, one dram; Camphor half a dram;

Oil

Oil of hartshorn, a sufficient quantity. Beat them all together into a mass.

PILUI.Æ GUMMOSÆ.

Lond.

Take of
Galbanum,
Opopanax,
Myrrh,
Sagapenum, each one ounce;
Ata fetida, half an ounce;
Make them into a mass, with syrup
of saffron.

Take of
Gum ammoniacum,
Sagapenum, each half an ounce;
Russia castor,
Myrrh, each three drams;
Asa fetida,
Galbanum, each two drams;
Oil of amber, half a dram;
Elixir proprietatis, as much as is
sufficient.

Beat them together into a mass. All these pills are defigned for antihysterics and emmenagogues, and very well calculated for an-fwering those intentions: half a feruple, a feruple, or more, may be taken every night or oftner. The fetid pills of our former pharmacopæias were confiderably purgative: in the last edition they were, by a typographical error, lefs fo than in the preceding ones. The purgative ingredients are now entirely omitted, and very judicioufly; as the phyfician may easily, in extemporaneous prescription, compound these pills with cathartic medicines, in fuch proportions as particular cases shall require.

PILULÆ de GAMBOGIA.

GAMBOGE PILLS.

Edinb.

Take of Socotorine aloes, Extract of black hellebore,
Gambogg,
Calomel, each two drams;
Effential oil of juniper berries,
half a dram.
Make them into a mass, with syrup

of buckthorn.

This is a strong mercurial purgative. It may be given, where medicines of this kind are necessary from fifteen grains to half a dram. This last quantity contains of aloes, extract of hellebore, gamboge, and calomel, about five grains of each.

PILULÆ MERCURIALES.

MERCURIAL PILLS.

Ediah.

Take of
Pure quickfilver, one ounce;
Gum ammoniacum, two ounces.
Grind the quickfilver in a glass mortar, with a fufficient quantity of honey, till the mercurial globules cease to appear; then add the gum, and make the whole into a mass according to art.

These pills were, in the last edition ordered to be made up with gum guaiacum and balfam of copaiba; but these, tho' very proper ingredients with regard to the intention of the medicine, were attended with an inconvenience of becoming, when long kept, hard and indisfoluble, infomuch as oftentimes to pass through the body entire. The ammoniacum, here made choice of, contains fo much gummy matter as renders its relinous part easily foluble; and at the same time divides the mercury as conveniently as the others.

PILULÆ MERCURIALES, MERCURIAL PILLS. Lond.

Take of
Quickfilver, five drams;
Strasburgh turpentine, two drams;
Hh 4 Cathartic

Cathartic extract, four scruples; Rhubarb powdered, one dram.

Grind the quickfilver with the turpentine, until they are perfectly incorporated; then let the other ingredients be beat up with this mixture into a mais. If the turpentine happens to be too thick, foften it with a little oil olive.

A good deal of care is neceffary, to bring this mass to a due degree of uniformity, with regard to the mercury: for although the quickfilver seems to have been entirely extinguished by the turpentine, yet upon beating the other ingredients with this mixture, part of the mercury is apt to reappear again by the time the mass is reduced to a proper consistence.

PILULÆ MERCURIALES
LAXANTES.

LAXATIVE MERCURIAL
PILLS.
Edinb.

Take of
Pure quickfilver, one ownce;
Gum ammoniacum,
Extract of black hellebore,
Choice rhubarb, each half an
ounce.
Grind the mickfilms of the form

Grind the quickfilver with a fufficient quantity of honey, until they are perfectly incorporated; then add the other ingredients, and beat the whole into a mass according to art.

All these mercurial pills are capable of doing good service in sundry chronical disorders. They may be given as alteratives, in doses of eight or ten grains. The two last are purgative mercurials; and in this intention the dose may be interested to half a dram, or farther. PRLLOSTES PILLS, if the analysis, that has been made of them, be just, are somewhat similar to these; they are supposed to be

made up of crude quickfilver, refin of guaiacum, a chemical oil, and extract of rhubarb.

PILULÆ PACIFICÆ, vulgo MATTHÆI. The PACIFIC, commonly called MATHEWS'S PILLS. Ednb.

Take of
Ruffia caffor, two ounces;
English fasfron,
Opium, each one ounce;
Soap of tartar, three ounces;
Balfam of copaiba, as much as is
sufficient.

Mix, and make them into a mass, according to art.

These pills were contrived by a chemical empyric, Starky, and communicated by him to Mathews. under whose name they were some time ago, greatly celebrated. The form here given differs from the original in omitting a fmall portion of black hellebore, an ingredient of no great fervice; for though this article " might perhaps promote a " flool the day after the medicine " is taken, that advantage, in cafes " which require it, may with " greater certainty be obtained, by " more obvious means." Nor are any of the ingredients of much confequence, except the opium; their quantity being too inconfiderable to answer any useful purpose. Eight, grains of the composition contain nearly one of opium.

PILULÆ PECTORALES.

PECTORAL PILLS.

Indinb.

Take of
Gum ammoniacum, half an
Gunce;
Benzoine, three drams;
Myrrh, two drams;
English fassron, one dram;

Anifated balfam of fulphur, half a dram;

Balfamic syrup, a sufficient quan-

Make them into a mass according

This composition is very well contrived for promoting expectoration; and may be usefully given in common colds and difficulty of breathing, proceeding from viscid phlegm: the dose is from fix or eight grains, to a scruple or more.

Here it may be observed, that though several compositions are denominated pectorals, and have no ill title to that appellation; they are nevertheles, in virtue, very dissimilar. Thus, the pectoral decoction, the syrup, and the troches, are calculated for softening, lubricating, and incrassiang, thin, serous, tickling humours; whilst the pectoral pills, the clixir and the oxymel, stimulate and deterge the pulmonary vessels, and attenuate or dissolve thick, tenacious juices.

PILULÆ RUFI. RUFUS'S PILLS.

Lond.

Take of
Socotorine aloes, two ounces;
Myrrh,
Saffron, each one ounce.
Make them into a mass with syrup
of saffron,

PILULÆ COMMUNES, vulgo RUFI. The COMMON PILLS wulgarly

called RUFUS'S PILLS.

Edinb.

Take of
Socotorine aloes, two ounces;
Myrrh, one ounce.
Saffron, half an ounce.
Beat them into a mass with a proper quantity of syrup of orange

pecl.

These pills have long continued in practice, without any other alteration than in the fyrup which the mais is made up with, and in the proportion of faffron. In our last pharmacopæia, the fyrup of wormwood was ordered, which is here judiciously exchanged for that of faffron, this preferving and im-proving the brightness of colour in the medicine, which is usually looked upon as the characteristic of its goodness. The faffron, in the composition which Razi attributes to Rufus, is equal in quantity to the myrrh; and in these proportions the pill was received in our first pharmacopæia. As the diminution afterwards made in the faffron was grounded on very abfurd reasons, (viz. " lest the former " quantity should occasion no less " than the spasmus cynicus,") the London college have now again increafed it, and restored the pill to its original form.

The virtues of this medicine may be easily understood from its ingredient. See elixir proprietatis, from which this differs only in producing its effect more gradually. The pills, given to the quantity of half a dram or two scruples, prove gently cathartic, but they answer much better purposes if exhibited in smaller doses as alteratives.

PILULÆ SAPONACEÆ. SAPONACEOUS PILLS. Lond.

Take of
Almond foap, four ounces;
Strained opium, half an ounce;
Effence of lemons, one dram.
Soften the opium with a little wine,
and then beat it with the reft,

until they are perfectly mixed.

This pill is introduced in the room of Mathews's. The foap promotes the folution of the opium

in the flomach, and thus occasions it to act the more quickly; which is the only intention that the more laborious foap of tartar can anfwer. The effence of lemons gives an agreeable flavour, makes the medicine fet eafy on the flomach, and prevents a nausea which it would otherwife be apt to occasion. Ten grains of the pill contain nearly one grain of opium.

PILULÆ SCILLITICÆ, SCILLITIC PILLS. Edinb.

Take of Spanish foap, one ounce; Gum ammoniacum,

Millepedes prepared, Fresh fquills, each half an ounce ; Balfam of copaiba, as much as is fufficient

Reduce them into a mass, according to art.

These pills are pretty much preferibed in Scotland. for promoting urine and expectoration, and in general for attenuating the viscidity of the fluids. As their virtue is chiefly from the fauills, the other ingredients are often varied in extemporaneous prescription: the soap is frequently omitted, as being of no great use in the quantity that goes to a dofe of the composition; and other powders, as the leffer cardamom feeds, substituted to the Make them into a mass, according millepedes. In any of these forms, if the fquills are fresh and juicy, there is no need of balfam; but as the mass foon dries and hardens, it must be formed immediately into pills. A fcruple of the composition above directed contains nearly four grains of fresh squills.

PILULE STOMACHICE. STOMACHIC PILLS. Edinb.

Take of

Socotorine aloes one ounce : Rhubarb, fix drams : Gum ammoniacum, three drams; Extract of gentian, Myrrh, each two drams: Vitriolated tartar, one dram; Effential oil of mint, half a dram;

Syrup of fena and rhubarb, as much as is fufficient to make the other ingredients into a

This pill is intended for moderately warming and ffrengthening the flomach, and evacuating crude viscid humours. It may be taken, as an alterant, in dofes, of ten, fifteen, or twenty grains.

PILULÆ e STYRACE. STORAX PILLS. Lond.

Take of Strained florax, two ounces; Saffron, one ounce ; Strained opium, five drams. Bear them together till perfectly united.

Take of Storax, five drams; Gum tragacanth, one ounce; Olibanum, Opiom, each half an ounce; Syrup of meconium, a fufficient

to art. These are contrived for dissolving more flowly in the flomach than the faponaceous or Mathews's pills, and confequently producing more gradual and lafting effects. grain of opium is contained in five grains and four fifths of a grain of the florax pills of the London pharmacopæia; and in nearly the fame quantity of those of the Edinburgh.

CHAP-

CHAPTER XXIII.

ELECTARIA.

ELECTARIES.

General rules for making electaries.

HE rules already laid down for decoctions and powders in general, are likewise to be observed in making decoctions and powders for electaries.

Gums, inspiffated juices, and such other fubftances as are not pulverable, should be dissolved in the liquor prescribed : then add the powders by little and little, and keep the whole briskly stirring, fo as to make an equable and uniform mixture [E.]

Aftringent electaries, and fuch as have pulps of fruits in their composition, should be prepared only in fmall quantities at a time.

greatly of their virtue, on being kept in this form, and the pulps of fruits are apt to become four.

The fuperfluous moisture of the pulps should be exhaled over a gentle fire, before the other ingredients are added to them [E.]

Electaries, if they grow dry in keeping, are to be reduced to the due confistence, with the addition of a little Canary wine; and not with fyrap or honey: by this means, the dofe will be the least uncertain; a circumstance deferving particular regard, in those especially which are made up with fyrup, and contain a large quantity of opium, as the confestio Paulina, and philonium,

ELECTUARIUM ANTIDYSENTERICUM. ANTIDYSENTERIC ELECTARY. Edinb.

Take of Diafcordium, two ounces; Locatelli's balfam, one ounce. Mix, and make them into an e-

lectary.

This is a well contrived compo-For aftringent medicines lofe fition for the purpose expressed in its title. A scruple or half a dram may be taken for a dofe. Half a dram contains one tenth part of a grain of opium.

> ELECTARIUM e BACCIS LAURI. ELECTARY of BAY BERRIES. Lond.

Take of Rue leaves dried, Caraway feeds, Parfley feeds,

Bay

II.

ms:

a

Bay berries, each one ounce; Sagapenum, half an ounce; Black pepper, Ruffia caftor, each two drams; Clarified honey, thrice the weight of the powdered species. Mix the species with the honey,

Mix the fpecies with the honey, and make them into an electary.

Edinb.

Take of

Conferve of rue, two ounces; Ginger candied, one ounce; Bay berries, half an ounce; Zedoary, two drams; Ruffia caftor, one dram; Effential oil of fennel, ten drops; Syrup of orange peel, as much as is fufficient.

Mix them into an electary, according to art.

These compositions are sometimes taken, in statulent colics and hysterical disorders, from a scruple to two drams: but their principal ase is in carminative glysters.

ELECTARIUM e CASIA. ELECTARY of CASIA. Lond.

Take of
Solutive fyrup of roses,
Pulp of casia, fresh extracted,
each half a pound;
Manna, two ounces;
Pulp of tamarinds, one ounce.
Grind the manna in a mortar, and,
with a gentle heat, dissolve it in
the syrup; then add the pulps,
and continue the heat until the
whole is reduced to a due consist-

DIACASSIA.

Take of

Puip of casia, twelve ounces;
Pulp of tamarinds, fix ounces;
Calabrian manna, eight ounces;
Syrap of pale roses, one pound.
Dislove the manna in warm water, strain the solution, and eva-

porate it, along with the fyrup, over a gentle fire, to the confidence of honey: then mix in the pulps, fo as to make the whole into an uniform electary, according to art.

These compositions are very convenient officinals, to ferve as a bafis for purgative electaries and other like purpofes; as the pulping a small quantity of the fruits, for extemporaneous prescription, is sufficiently troublefome. The tamarinds give these electaries a pretty tafte, and do not subject them, as might be expected, to turn four: the commentator on the Edinburgh pharmacopæia relates, that after standing for four months, the composition was no fourer than when first made up. They are likewise usefully taken by themselves, in the quantity of two or three drams occasionally, for gently loosening the belly in costive habits.

ELECTARIUM LENITIVUM. LENITIVE ELECTARY.

Lond.

Take of

Figs, one pound; Sena, eight ounces;

Pulp of tamarinds,

cafia,

French prunes, each half a pound;

Coriander feeds, four ounces:

Liquorice, three ounces,

Double refined fugar, two pounds and a half.

Pulverize the fena along with the coriander feeds, and fift out ten ounces of the powder: the remainder is to be boiled with the figs and liquorice, in four pints of water, to one half; then firain and press out the liquor, and evaporate it to the weight of a pound and a half, or somewhat less: in this dissolve the sugar, so as to make it into a syrup,

Chap. 23.

II.

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Electaries.

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and add this fyrup, by little and little to the pulps: laftly mix in the powder before separated by the seve.

This electary may be occasionally taken to the quantity of a nutmeg or more, for loosening the belly in cossive habits. It is frequently employed in glyslers, tho for that use the following is rather more convenient.

EEECTUARIUM
LENITIVUM pro CLYSTERE.

LENITIVE ELECTARY for
GLYSTERS.

Edinb.

Take of
Polypody roots, two ounces;
French mercury, leaves,
Penugreek feeds,
Linfeed, each one ounce;
Sena, two ounces;
Coriander feeds, half an ounce;
Honey, two pounds;
Pulp of damask prunes, one pound;

Pulp of casia, half a pound.
Boil the polypody, mercury, fenugreek, and linseed, in fix pints of water, until half the water is wasted; adding, towards the end of the coction, the sena and coriander seeds. Having strained and pressed out the liquor, boil it with the honey, to the consistence of a thick syrup: to this add the pulps, and mix the whole well together, so as to make them into an electary.

This electary is much preferable, for glyflers, to those which have powders in their composition. Perhaps sugar would be a better ingredient than honey, (as being less apt to turn sour in keeping) and melasses than either: this last is not only of itself inapt to ferment, but likewise prevents such substances as are this way disposed, from running into fermentation.

ELECTUARIUM
PECTORALE.
PECTORAL ELECTARY.
Edinb.

Take of
Conferve of red rofes, two
ounces;
Compound powder of gum tragacanth, half an ounce;
Flowers of benzoine, one dram:

Flowers of benzoine, one dram: Balfamic fyrup, as much as is fufficient to make the other ingredients into an electary.

This composition is intended for those disorders of the breast which proceed from a laxity and debility of the vessels, and a thin acrimonious state of the sluids. It is sufficiently agreeable to the palate, and may be taken to the quantity of a nutmeg or more, several times a day.

ELECTARIUM e SCAMMONIO. ELECTARY of SCAMMONY. Lond.

Take of
Scammony, an ounce and a half;
Cloves,
Ginger, each fix drams;
Effential oil of caraway, half a
dram:
Honey, half a pound.

Let the fpices be ground together, and mixed with the honey; then add the powdered fcammony, and afterwards the oil.

This electary is a warm, brisk purgative. It is a reform of the electuarium caryocossimum of our preceding dispensatories, a composition which was greatly complained of, as being inconvenient to take, on account of the largeness of its dose. A dram and a half of this, which contains sisteen grains of seammony, is equivalent to half an ounce of the other.

ELEC-

ELECTARY of SCORDIUM.

Lond.

Take of

The species of scordium with opium, any quantity; Syrup of meconium, boiled to

Syrup of meconium, boiled to the confiftence of honey, thrice as much by weight.

Mix the species with the syrup, so as to make an electary.

DIASCORDIUM.

Edinb.

Take of
Scordium leaves,
Cinnamon,
Nutmegs,
Japan earth,
Gum Arabic,
Olibanum, each one ounce;
Tormentil root,
Bole Armenic, each an ounce and

a half; Opium, (diffolved in a fufficient quantity of Canary) a dram and a half;

Syrup of dry roses, boiled down to the confishence of honey; thrice the weight of the powders.

Mix and make them into an electary, according to art.

In our former dispensatories, the fpecies were ordered to be made up with honey: this is now exchanged for fyrups, more agreeable to the intention of the medicine, which is that of an opiate aftringent, whilst honey is manifestly aperient and detergent. The opinion, which some are still ridiculous enough to maintain, that the honey and other ingredients, by this contrariety in virtue, improve and heighten one another, has no foundation. It is not perhaps necessary, for the purposes of the shops, to make the species into an electary at all: by keeping in this form, the ingredients lofe

greatly of their aromatic flavour and aftringency, becoming foft and fmooth upon the palate; and the red colour, imparted by the bole, decays. The London college have therefore very justly ordered them to be kept in powder as well as in an electary; and directed the powder both with and without opium, for different occasions. See species escribing, and pulvis e bolo, cum and fine opio. Either of these powders may be made up extemporaneously into an electary, with any syrap that shall be judged proper.

Diafcordium was intended by its author Fracastorius for an antipestilential; but we have been so happy as to have little occasion for medicines in that intention; nor could this be anywise depended on. It is a moderately warm, glutinous astringent and opiate; and in this light only, is confidered by the present practice. One grain of opium is contained in nine scruples of the electary of the London pharmacopæia, and in ten scruples of that of the Edinburgh.

BALSAMUM LOCATELLI, LOCATELLIS BALSAM, Lond,

Take of

Oil olive, one pint, Strasburgh turpentine; Yellow wax, each half a pound; Red saunders, fix drams;

Melt the wax over a gentle fire, with fome part of the oil; then add the rest of the oil, and the turpentine; afterwards mix in the faunders, and keep them stirring together until the mixture is grown cold.

Edinb.

Take of
Yellow wax, one pound;
Oil olive, a pint and a half;
Venice turpentine, a pound and
a half;

Balfam

H.

Balfam of Peru, two ounces: Dragons blood, one ounce.

Melt the wax in the oil over a gentle fire, then add the turpentine; and having taken them from the fire, mix in the balfam of Peru and dragons blood, keeping them continually firring till grown cold.

Dragons blood gives a more elepant colour to this composition than red faunders, though on another account it is fomewhat lefs proper, having been found, when diffolved in oil, to communicate fome degree of heat and pungency, qualities quite foreign to the intention of the medicine. This balfam is used in internal bruises and hæmorrhagies, erofions of the intestines, ulcerations of the lungs, dyfenteries, and in fome kinds of coughs and afthmas : the dofe is from two fcruples to two drams: it may be commodioufly exhibited along with about double its weight of conferve of rofes. Some have likewife applied it externally, for deterging and incarnating recent wounds and ulcers.

BALSAMUM ad
APOPLECTICOS.

APOPLECTIC BALSAM.
Edinb.

Take of
Expressed oil of nutmegs, one ounce,
Distilled oil of cloves,

of lavender, of rosemary, each half a dram;

of amber, half a fcruple; Balfam of Peru, one dram.

Liquefy the oil of nutmegs in a filver veffel; and when taken from the fire, mix into it the diffilled oils and the balfam, according to art.

This medicine is recommended to be rubbed on the temples, and

on paralytic limbs, for warming the part, and comforting the nerves: and to be finelt to, for refreshing and enlivening the spirits. Some have also given it inwardly as a warm cordial, in languid cases, and in debilities of the nervous system.

There are abundance of preparations of this kinds in foreign pharmacoposias, composed each of only one effential oil, incorporated with the expressed oil of nutmegs : which last is to be previously freed from its flavour (by distillation with water) that the fmell of the former may not be injured thereby: in the room of this prepared febaceous matter, a mixture of white wax and oil olive might be used. In the practical chemistry, a general process is given for the making of these kinds of preparations, under the title of

BALSAMUM ODORIFERUM.

An ODORIFEROUS BALSAM.

Take of

Oil olive.

White bees wax, each two ounces. Put the oil into a china bason, placed in a pan of boiling water, and flice the wax into it. Stir them together with a clean knife, or fmall fpatula, till the wax is melted: then remove the veffel out of the hot water, and when the matter begins to thicken, drop in four drams of any odoriferous effential oil, as that of cinnamon, nutmegs, mace, lemon peel, rhodium, lavender, rofe-mary, &c. or of a mixture of two or three of thefe oils: to which may be added one dram of essence of ambergris, which will heighten the fmell of the oils, without communicating any of its own. Keep the whole constantly stirring, that they may be perfectly mixed; and as foon as this is done, plunge the vef-

The English Dispensatory improved. 480

These kinds of balfams may be made of any colour, fo as to refemble in this respect also, as well as in fmell, the vegetable, from which the effential oil, you make use of, was drawn. A little of the pigment, called by the painters fapgreen, being previously ground with the oil olive, will give a fine green; a little cinnabar, a fcarlet; turmeric, a lemon colour; Prussian blue, a violet; and cochineal, a fine purplish hue.

CONFECTIO CARDIACA. CORDIAL CONFECTION.

Lond.

Take of

Rosemary tops, fresh, Juniper berries, each one pound; Leffer cardamom feeds, hufked, Zedoary,

Saffron, each half a pound.

Extract a tincture from these ingredients with about a gallon and a half of proof spirit : let the tincture be firained off, and reduced by a gentle heat to the weight of about two pounds and a half: then add the following ingredients very finely pulverized, and make the whole into an electary;

Compound power of crabs claws, fixteen ounces;

Cinnamon,

Nutmegs, each two ounces;

Cloves, one ounce;

Double refined fugar, two pounds. This electary is composed of the more unexceptionable ingredients of the CONFECTIO RALEGHA-NA, an enormous collection of materials, not inferior in number to those of the mithridate itself. The principles upon which this process is founded, whatever fome may have alledged to the contrary, are and upwards.

fel into cold water, to prevent far from being unjust: spirit of the dislipation of the essential wine excellently extracts the virtues of most of the spices and aromatic herbs; and, provided it be perfectly pure and free from all admixture of phlegm, elevates very little, from fome nothing at all, in distil-lation; so that by this process, remedies of great efficacy may be obtained. See chap. vi. In that confection however, tho' the virtues of many of the ingredients were preferved in tolerable perfection, they were extremely prejudiced by their multiplicity and contrariety.

> The ingredients from which the extract for the confectio cardiaca is made, are few and well chosen: most of them being fo hardy, that a confiderable share of their virtues flands the exhalation even of the watery phlegm which the fpirit there ordered contains : the juniper berries, zedoary, and faffron lofe but little; and the rolemary tops, not fo much as might be suspected.

> The substances directed to be added to the extract, are well proportioned for making an electary of a just confistence; though on keeping the powders are apt to fubfide, the extract and fugar floating above them in a liquid form. This might be prevented either by continuing the inspissation farther (by a gentle warmth) or adding a larger quantity of the dry powders: the first method is most eligible, as the extract is scarce tenacious enough to bear the fecond. Perhaps the fugar and the crabs-claw powder are not very necessary, as they do not feem to contribute any thing to the intention of the medicine, which is usually prescribed as a warm cordial and corroborant. It is given fometimes in draughts, but more frequently in the form of a bolus, from eight or ten grains to a scruple

> > ELE-

ELECTUARIUM CARDIACUM. CORDIAL ELECTARY.

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E.

Edinb.

Take of
Conferve of rofemary flowers,
Conferve of red rofes, each an
ounce and a half;
Candied orange peel,

citron peel, nutmegs, each one ounce; ginger, fix drams;

ginger, fix drams; Confection of kermes, half an ounce;

Oil of cinnamon, twenty drops; Syrup of clove july flowers, as much as is fufficient.

Mix them into an electary according

This electary, however different in composition, is similar in virtue to the foregoing. Particular care ought to be had in the choice of the essential oil, for on its goodness, that of the medicine in great measure depends.

CONFECTIO PAULINA.
The CONFECTION called
PAULINA.
Lond.

Take of Costus, or in its stead zedoary, Cinnamon,

Long pepper, Black pepper, Storax,

Galbanum, Afrained,

Ruffia caftor, each two ounces; Simple fyrup, boiled to the confiftence of honey, thrice the weight of the other ingredients.

Warm the fyrup, and carefully mix with it the opium first dissolved in wine: gradually add this mixture, whilst it continues warm, to the storax and galbanum previously melted together; and

afterwards fprinkle in the other fpecies reduced into powder.
This is the CONFECTIO AR-CHIGENIS of our former dispensatory, brought back to its first form and author. It is a warm

fatory, brought back to its first form and author. It is a warm opiate medicine, and as such is fometimes made use of in practice: thirty-two grains contain one grain of opium.

MITHRIDATIUM, five
CONFECTIO DAMOCRATIS.

MITHRIDATE, or the
CONFECTION of
DAMOCRATES.

Lond

Lond.

Take of
Cinnamon, fourteen drams;
Myrrh, eleven drams;
Agaric,
Indian nard,
Ginger,
Saffron,
Seeds of mithridate mustard,
Frankincense,
Chio turpentine, each ten drams;
Camels hay,

Coftas, or in its flead zedoary, Indian leaf, or in its flead mace, Stechas, Long pepper, Hartwort feeds, Hypociftis,

Storax strained,
Opopanax,
Galbanum strained,
Opobalsam, or in its stead expressed oil of numegs,
Russia castor, each one ounce;
Poley mountain,
Scordium,
Carpobalsam, or in its stead cu-

bebs,
White pepper,
Candy carrot feed,
Bdellium ftrained, each feven
dram,
Coltin pard

Celtic nard, Gentian root,

Dit-

Dittany of Crete, Red rofes. Macedonian parfley feed, Leffer cardamom feeds, hufked, Sweet fennel feed, Gum Arabic, Opium strained, each five drams; Calamus aromaticus, Wild valerian root, Anifeed. Sagapenum, strained, each three

drams: Meum athamanticum, St John's wort,

Acacia, or in its flead terra Ja-

Bellies of skinks, each two drams and a half;

Clarified honey, thrice the weight of all the other ingredients.

Warm the honey, and mix with it the opium diffolved in wine; melt the storax, galbanum, tur-pentine and opobalsam (or expressed oil of nutmegs) together in another veffel, continually flirring them about, to prevent their burning; with these so melted, mix the hot honey, at first by spoonfuls, and afterwards in larger quantities at a time; when the whole is grown almost cold, add by degrees the other species reduced into powder.

Edinb. Paris Bausel Take of Myrrh, to he does (nomenage) Saffron, Agaric, Ginger, Cinnamon, Spikenard, Male frankincenfe, homena Mithridate mustard feeds, each Hartwort feeds, Opobalfam (or balfam of Peru) Camels hay, Arabian flechas flowers, Coffus, (or zedoary)

Galbanum, Turpentine of Cyprus, Long pepper, lo bollon Caftor, Hypociftis, Storax calamita, Opopanax, Indian leaf, each one ounce; Cafia lignea, , shool wown/ Poley mountain, to Bank ! White pepper, Scordium leaves, Candy carrot feed, Carpobalfamum (or cubebs) The troches called cyphi, Bdellium, each seven drams; Celtic nard, Gum Arabic, Macedonian parfley feeds, Lesser cardamom seeds, Fennel feeds, Gentian root, collagone of Red roses, Dittany of Crete, each five Anifeeds, Afarum root, Calamus aromaticus, Phu (or wild valerian) root, Sagapenum, each three drams; Spignel roots, Acacia (true or German) Bellies of skinks, St. John's wort feeds, each two drams and a half; Clarified honey, thrice the weight of the powders; Canary wine, as much as will diffolve the gums and juices. Mix them all together into an elec-

THERIACA ANDROMACHI. VENICE TREACLE. Lond, Sum obser

tuary, according to art.

Take of Troches of squills, half a pound; Long pepper, Opium strained, Vipers dried, each three ounces;

Male Frankincense. White pepper, Black pepper, Casia lignea, Indian nard, each fix drams; Poley of Crete, Marfeilles (or common) hartwort feeds, sidned and and and a Anifeeds, Bishopsweed feeds, American (or cloves) Leffer cardamoms, Fennel feeds, Treacle mustard feeds, Gentian root, Spignel root, Pontic phu (or wild valerian root) Calamus aromaticus, Germander
Groundpine
St. John's wort True (or German) acacia, Carpobalfamum (or cubebs) Terra Lemnia (or bole Armenic) Burnt chalcitis (or green vitriol calcined) Styrax calamita, Gum Arabic, Hypocistis, Celtic nard, Indian leaf, each half an ounce; Lesser centaury tops, Candy carrot feed, Small (or long) birthwort roots, Jews pitch (or amber) Galbanum, Opopanax, Sagapenum, Caitor, each two drams; Clarified honey, thrice the weight of the powders. Canary wine, as much as is fuffi-

Mix them all together, fo as to make an electary, according to art.

juices.

cient to dissolve the gums and

These celebrated compositions are almost the only relicts of ancient superstition, that now remain among us. The theriaca is a resorm of mithridate, made by Andromachus physician to Nero: the mithridate

itself is said to have been found in the cabinet of Mithridates king of Pontus. The first publishers of this ... pompous arcanum were very extravagant in their commendations of its virtues; the principal of which was made to confift in its being a most powerful preservative against all kinds of venom : whoever took a proper quantity in a morning, was enfured from being poisoned during that whole day: this was confirmed by the example of its fupposed inventor, who, as Celfus informs us, was by its constant use fo fortified against the commonlyreputed poisons, that none of them would have any effect upon him when he wanted their affiftance. But the notions of poisons, which prevailed in those ruder ages, were manifestly erroneous. Before experience had furnished mankind with a competent knowledge of the powers of fimples, they were under perpetual alarms from an apprehension of poisons, and bufied themselves in contriving compositions which should counteract their effects, accumulating together all those substances which they imagined to be possessed of any degree of alexipharmac power. Hence proceed the voluminous antidotes which we meet with in the writings of the ancient physicians : yet it does not appear, that they were acquainted with any real poifon, except the cicuta, aconitum, and bites of venomous beafts; and to these they knew of no antidote whatever. These medicines, therefore, were originally intended against difeases merely imaginary: nevertheless, as some of their ingredients are of the most powerful kind, succeeding ages applied them in real ones, and experienced good effects from them, as warm, diaphoretic opiates.

These compositions might with-

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out doubt be lost of numerous fuperfluities, without any diminution of their virtues; yet as the effects of them, in their present form, are fo well known, fo much regard has been paid to ancient authority, as not attempt a reformation of that kind. The London college have however thought proper to retrench. from forms originally complex, all fubiequent additions that have crept into them. Neither the description in verse of the elder Andromachus, or the profe explanation of the younger, make any mention of the white pepper afterwards added to the theriaca; and the orris root, in the mithridate of our former pharmacopœias, is also a supernumerary ingredient, not warranted by the original: these therefore are rejected. Nor is the afarum in mithridate grounded on any good authority: the verfe, it is taken from, is mutilated and corrupt; and the word which fome, upon conjecture only, suppose to have been afarum, others, also upon conjecture, chuse to read diffe-rently: till some emendation shall be better founded than merely upon critical gueffes, this fingle fpecies may be fafely paffed over, without any prejudice to the medicine. None of the ancient deferiptions afford any other light in this particular; for they either omit this ingredient and others alfo, or abound with additions.

One innovation in both these medicines, the college have allowed themselves. In each of these compositions are found both cinnamon and casa lignea; and it is very evident, from several parts of Galen's works, that the latter was used by the ancients only upon account of the great difficulty of procuring the other; so that to retain the casa, now that cinnamon is so common, is a blind following of these writers, without

any attention to their meaning: the casia therefore is now rejected, and half the quantity of cinnamon put in its room, which is the proportion that Galen directs to be observed in substituting the one for the other. It is probable, that the case is the same with regard to the Celtic and Indian nard; that the first had a place in these compositions, on account of the difficulty of procuring the Indian; for Galen expressly prefers the latter.

There is a material error in regard to the theriaca, which has paffed through all the editions of our pharmacopæia, except the prefent; this is, the fubilituting Roman vitriol to the ancient chalcitis now not certainly known, and in the catalogue of fimples, describing the Roman to be a blue vitriol; whereas the Italian writers are unanimous it is a green vitriol; and were it not, it would not answer to the effects of the chalcitis, which was certainly a chalybeate, and gives the medicine its black colour. What has chiefly occasioned chalcitis to be supposed a cupreous vitriol feems to be its name, derived from χάλκος copper: but it is to be observed, that all vitriols were formerly imagined to proceed from copper, and were named accordingly; the green or martial vitriols are still called by the Germans kupffer-quaffer, and by us copperas. It is probable, that the ancient chalcitis was no other than a native martial vitriol, calcined, by the heat of those warm climates, to a degree of yellowish red or coppery colour: and therefore the common green vitriol, thus calcined by art, very properly supplies its place.

The London college have likewife fomewhat facilitated the preparation of these medicines, by omitting the trochisci cypheos used in the mithridate, and the besychroi and

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wiperini for the theriaca; and inferting their ingredients, after Zwelffer's manner, in the compositions they are intended for. This is done in the theriaca very commodiously, the ingredients in these troches uniting with those in the theriaca itself, into unbroken numbers. But to render the numbers equally fimple in the mithridate, it was necessary to retrench a few odd grains from fome of the articles, and make a fmall addition to fome others: they adjusted the pro-portions of the ingredients in the trechifei cyphees from the original defeription in Galen; the numbers in our former pharmacopæia being very erroneous.

The college of Edinburgh have not ventured to touch these venerable compositions; as antiquity has now rendered them sacred, have leave them, for the admirers of the major, troches and all, as detouched the ancients; but have the ancients; but have the ancients; but have the sacred to the ancients.

THERIACA EDINENSIS.

EDINBURGH THERIACA.

Edinb.

Take of

Virginian fnakeroot, fix ounces; Wild valerian root,

Contrayerva root, each four ounces;

Aromatic powder, three ounces; Refin of gualacum, Ruffia caffor,

Myrrh, each two ounces;

English fassron,

Opium, each one ounce;

Clarified honey, thrice the weight of the powders;

Canary wine, as much as is fufficient to diffolve the opium.

Make them, according to art, into an electary; to which fome camphor may be occasionally added.

This composition confists of very powerful ingredients, and is doubtless capable of answering every thing that can be reasonably expected from the more voluminous theriaca of Andromachus. The London college also had formerly their theriaca, composed of the lefs exceptionable ingredients of Andromachus's. But as these medicines have for a long time been chiefly employed for external purpofes, by the way of cataplasin, the theriaca Londinensis is now omitted, and its place supplied by a cataplasm, composed of a sew well chosen articles, under the name of cataplasma e cymino, of which hereafter. For internal use, none of the theriaca's are at prefent fo much regarded as they have been heretofore; practitioners hav-ing introduced, in their room, extemporaneous bolufes of Virginian fnake root, camphor, contrayerva, and the like; which answer all their intentions, with this advantage, that they may be given either with or without opium, an ingredient which renders the others prejudicial in cases where they might otherwife be proper.

With regard to the quantity of opium in these compositions, one grain thereof is contained in four drams of the mithridate of the London pharmacopæia, and in four drams and a scruple of that of the Edinburgh; in three scruples, fifteen grains of the London Venicetreacle; in nearly four scruples of the Edinburgh; and in five scruples of the theriaca Edinensis. The proportion of opium will vary a little, according to the time that they have been kept; their moisture by degrees exhaling, so as to leave the remainder stronger of the opium, than an equal weight was at first. A change of this kind is taken notice of by many writers,

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Chap. 23.

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Electaries.

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but falfely attributed to an imaginary fermentative quality of the ingredients, by which they were fupposed, from their multiplicity and contrariety, to be continually exalting and improving the virtues of one another.

A good deal of care is requifite in making these compositions, to prevent the waste which is apt to happen in the pounding, and which would render the proportion of opium to the other ingredients precarious. The intention of dissolving the opium in wine, for these and other electaries, is, that it may be more uniformly mingled with the rest.

PHILONIUM LONDINENSE. LONDON PHILONIUM.

Lond.

Take of

White pepper,

Ginger,

Caraway feeds, each two ounces; Strained opium, fix drams;

Syrup of meconium, boiled to the confidence of honey, thrice the weight of the other ingre-

Heat the fyrup, and carefully mix with it the opium, previously dissolved in wine; then add the other ingredients, reduced into powder.

This is a reformation of the philonium deteribed by Galen, which was received in our preceding pharmacopœias with the addition of fome superstuous ingredients, and distinguished, but not very properly, by the epithet Romanum. The additional articles, and some unneceffary ones that were in the original, are here omitted, and the quantiies of the others varied so as to

preferve the fame proportion of opium to the whole, as in our last pharmacopæia. Thirty-fix grains of the composition contain one

grain of opium.

The mithridate, theriaca, diafcordium, confectio Paulina, and philonium, are the only compositions now remaining, of what have been called the officinal capitals. They are all medicines of great power; and as, on the one hand, they are applicable, by the judicious phyfician, to excellent purposes, so on the other, their imprudent use has often been productive of mischievous consequences. It has been customary among nurfes and others, to give diascordium to children, to ease their complaints, and to procure fleep; intentions which it effectually anfwers, but at the fame time never fails to bring on a costive habit. the foundation of numerous ills: this medicine has likewife been too unwarily given for restraining fluxes; whose suppression was afterwards followed by more dangerous fymptoms. The celebrated alexipharmacs, mithridate, and theriaca, have oftentimes aggravated the diforders they were intended to remedy, have converted a common cold into a high fever, have raited flight febrile complaints into a malignant fever. However-flrongly therefore these kinds of medicines are recommended for eafing pain, warming, promoting fweat, expelling malignity, &c. the utmost caution is requisite in the use of them: the cases which demand their affiftance, are much less frequent than is generally sup-

II4 LOHOCHS.

LOHOCHS.

A loboch, eclegma, linelus, or Take of lambative, is of a middle confiftence betwixt a fyrup and electary. This form is calculated chiefly for the exhibition of pectoral medidetergent kind. It is an ill contrived one, and therefore at present almost entirely laid aside : the mucilaginous or oily substances, which enter most of these compositions in large quantity, render them difagreeable to the palate (especially in the way of taking which they are defigned for, that of licking, or flowly fwallowing down) and likewife to the flomach; and impede the virtues of some ingredients which have been employed in this form, particularly those of the aftringent kind. The London college have therefore rejected all the Johochs; and the Edinburgh retain only the following.

LOHOCH ex AMYLO. LOHOCH of STARCH.

Take of

Starch, two drams; Japan earth, one dram; Syrup of comfrey, Whites of eggs beat into a thin liquor, each one ounce.

Mix them together, fo as to make a lohoch.

LOHOCH COMMUNE. COMMON LOHOCH.

Take of

Oil of almonds fresh drawn, Pectoral (or balfamic) fyrup, each one ounce ;

White fugar, two drams. Mix, and make them into a lohoch.

LOHOCH DIATRAGACANTHI. LOHOCH of the COMPOUND POWDER of GUM TRAGACANTH.

Compound powder of gum tragacanth, two drams: Japan earth, one dram; Whites of eggs, beat up into a liquor, one ounce: Syrup of meconium, two ounces, Mix, and make them into a lohoch.

LOHOCH de LINO. LOHOCH of LINSEED.

Take of

Linfeed oil, fresh drawn, Balfamic fyrup, each one ounce; Flowers of fulphur, White fugar, each two drams. Mix them, fo as to make a lohoch.

LOHOCH de MANNA. LOHOCH of MANNA.

Calabrian manna, Oil of almonds, fresh drawn, Syrup of violets, each equal quantities.

Mix them into a lohoch.

LOHOCH SAPONACEUM. SAPONACEOUS LOHOCH.

Take of

Spanish soap, one dram; Oil of almonds, one ounce; Pectoral (or balfamic) fyrup, an ounce and half. Make them into a lohoch, according to art.

LOHOCH de SPERMATE CETI. LOHOCH of SPERMA CETI.

Take of

Sperma ceti, two drams, Oil of almonds, fresh, half an ounce;

Balfamic fyrup, one ounce; Yolk of eggs, as much as, when rubbed with the sperma ceti, will fit it to mix with the other ingredients, into the confiftence of a lohoch.

CHAP-

CHAPTER XXIV.

AQUÆ MEDICAMENTOSÆ.

MEDICATED WATERS.

AQUA ALUMINOSA BATEANA. BATES's ALUM WATER. Lond.

Take of

Alum, White vitriol, each half an ounce;

Water, two pints.

Boil the falts in the water till they are diffolved, let the folution fettle, and afterwards filter it

through paper.

Bates directs the falts to be calcined before they are diffolved: this is certainly a needless trouble, fince calcination only evaporates the aqueous parts, which are reftored again on the addition of the water. This liquor is used for cleanfing and healing ulcers and wounds; and for removing cutaneous eruptions, the part being bathed with it hot, three or four times a day. It is fometimes likewife employed as a collyrium; and as an injection in the gonorrhœa and fluor albus, when not accompanied with virulence.

AQUA ALUMINOSA.

ALUM WATER.

Edinb.

Take of
Corrofive mercury fublimate,
Alum, each two drams;
Water, two pints.

Let the fublimate and alum be ground into powder, and boiled with the water, in a glass vessel, to the consumption of half the water; then suffer the liquor to settle, and pour it off clear from the sediment.

This is taken from Fallopius, with the exchange of rose and plantane waters for common water, which is equally sit for the purpose. The composition is designed chiefly for cutaneous pushules and ulcerations. It is an injudicious one, and rarely made use of, and therefore expunged from the London pharmacopæia. The sediment is the mercury sublimate, thrown down by the alum.

AQUA SAPPHIRINA.
SAPPHIRE COLOURED
WATER.
Lond.

Take of

Lime water, one pint;
Sal ammoniac, one dram.
Let them fland together, in a copper veffel, or along with fome plates of copper, until the liquor has acquired a fapphire colour.

Edinb.

Take of
Lime water, newly made, one
pint;
Sal ammoniac, two drams,
Diffolve the falt in the lime water,

and let the folution fland in a Take of brass veffel, until it has acquired White a blue colour.

This water is at prefent pretty much in use, as a detergent of foul and obstinate ulcers, and for taking away specks or films in the eyes. The copper contributes more to its colour, than to its medicinal efficacy; for the quantity of the metal dissolved is extremely minute.

AQUA VITRIOLICA CÆRULEA. BLUE VITRIOLIC WATER.

Take of Blue vitriol, three ounces:

Alum, Strong spirit (or oil) of vitriol,

each two ounces; Water, a pint and a half.

Boil the falts in the water, until they are diffolved, then add the acid fpirit and filter the mixture through paper.

AQUA STYPTICA. STYPTIC WATER. Edinb.

Take of

Blue vitriol, Alum, each half a pound; Water, four pints.

Boil them until the falts are diffolyed, then filter the liquor, and to every pint of it add a dram of oil of vitriol.

These compositions are formed upon the styptic, recommended by Sydenham, for stopping bleeding at the nose, and other external hamorrhagies: for this purpose, cloths or dosils are to be lipt in the liquor, and applied to the part.

AQUA VITRIOLICA CAMPHORATA. CAMPHORATED VITRIOLIC WATER. Lond. White vitriol, half an ounce; Camphor, two drams; Boiling water, two pints.

Mix them, that the vitriol may be diffolved; and after the feces have fubfided, filter the liquor through paper.

AQUA OPHTHALMICA. EYE WATER. Edinb.

Take of

Bole Armenic, unprepared, two ounces;

Tutty, unprepared, one ounce; White vitriol, half an ounce; Camphor, two drams; Water, four pints.

Boil the water a little, with the other ingredients powdered, frequently flirring them up from the bottom: then fuffer the feces to subside, and pour off the clear liquor for use.

The last of these compositions does not differ so much from the first, as might be imagined from its containing more ingredients; for the bole and tutty, too ponderous to remain suspended in the water, fall to the bottom, and form greatest part of the seces. Both these liquors are very useful ophthalmics; they cool, and repel the sharp humors which sometimes fall down upon the eyes, and defend them from beginning films and specks.

AQUA PHAGEDÆNICA. PHAGEDENIC WATER, Edinb.

Take of

Lime water, one pint: Corrofive mercury sublimate, half a dram.

Let a folution be made.

This is defigned for washing and cleanfing old foul ulcers, and preventing the growth of fungous

Medicated Waters. 49 I Chap. 24. flesh. It is for most purposes ra- Grind the ley of tartar and the oil together, until they unite; then ther too corrofive to be used withgradually add the rofe water. This is defigned for a deterout dilution. gent wash; and, like other soapy liquors, answers this purpose very effectually. Where it is required to be more deterfive, it may be occasionally rendered so, by the ad-LOTIO SAPONACEA SAPONACEOUS LOTION. Lond. Take of Damask rose water, three quardition of a small quantity of a foters of a pint; lution of any fixt alcaline falt. Oil olive, one quarter of a pint; Ley of tartar, half an ounce by meafure. BLUE PETRIBLIC WATER OF the of or and the connect quently director dean which mthe pere stationed at the To conferring deponds that of the property of

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CHAPTER XXV, JAMUI MUEJO

OLEA per INFUSIONEM et DECOCTIONEM, OILS by INFUSION and DECOCTION.

E Xpressed oils extract the resi-nous and oily parts of vege-tables, but do not act upon, or unite with, the gummy and mucila-ginous: hence the oleam e mucilaginibus of the shops contains nothing of the mucilage which its ingredients abound with. These oils may be tinged, by vegetable mat-ters, of almost all colours; the leaves of most plants communicate a green; yellow flowers, a dilute gold colour; fome red flowers, a light red; alcanet root, a beautiful and deep red.

In making the officinal oils from the leaves of plants, a good deal of care is necessary, to give them the fine green colour expected in them. If the boiling of the herb in the oil is not continued till all the aqueous moisture has exhaled (the mark of which is, the herb's being crisp) the oil will have a dingy yellowish hue; if continued longer, it turns black, and contracts an empyreumatic fmell. The most convenient method of managing the process feems to be, to frain off the oil when fufficiently impregnated with the virtue of the plant, and afterwards to let it stand in a clean vessel, over a gentle fire. until by frequent trials on a white tile, it appears to have gained the deep green colour required.

OLEUM HYPERICI. OIL of ST. JOHN'S WORT.

Take of

The flowers of St. John's wort, full blown, fresh gathered, and carefully freed from the cups, four ounces;

Oil olive, two pints.
Pour the oil upon the flowers, and let them fland together, till the oil is fufficiently coloured.

Take of

The tops of St. John's wort, fresh gathered and bruised, one pound;

Oil olive, three pints. Boil them gently together, until the herb is almost crisp; then firain and press out the oil.

After the same manner are prepared,

OLEUM ABSINTHITES. OIL of WORMWOOD TOPS.

OLEUM ANETHINUM. OIL of DILL LEAVES.

OLEUM CHAMÆMELINUM. OIL of CAMOMILE FLOWERS.

OLEUM LILIORUM ALBORUM. OIL of WHITE LILY FLOWERS. OLEUM

Chap 25. Oils by Infusion and Decoction.

OLEUM ROSARUM RUBRARUM. OIL of RED ROSES.

OLEUM RUTACEUM. OIL of RUE LEAVES.

OLEUM LUMBRICORUM. OIL of EARTH WORMS. Edinb.

Take of Earth worms, well washed, half a pound; Oil olive, two pints; White wine, half a pint.

Boil them together in balneo mariæ, until the wine is evaporated; then press out the oil, and afterwards ftrain it for ufe.

OLEUM e MUCILAGINIBUS. OIL of MUCILAGES.

Marshmallow root, fresh, half a pound;

Linfeed, Fenugreek feed, each three ounces; Water, two pints;

Oil olive, four pints. Bruife the roots and feeds, and gently boil them in the water for half an hour: then add the oil, and continue the boiling till all the water is wasted; afterwards let the oil be carefully poured off for

OLEUM MUCAGINUM.

Take of Marshmallow (or white lily) roots, fresh, four ounces; Squills, fresh, two ounces; Fenngreek feed, Linfeed, each an ounce and a half; Oil olive, half a gallon.

Bruife the roots, and steep them

with the feeds in a fufficient quan-

So tity of water; then gently boil them till they give out a thick viscous mucilage, which being strongly pressed out and strained, is to be boiled with the oil, in balneo mariæ, or over a very gentle fire, till the aqueous moiflure is exhaled; keeping the mixture continually flirring, to prevent its burning.

> OLEUM SAMBUCINUM. OIL of ELDER. Lond.

Take of Elder flowers, one pound, Oil olive, two pints.

Boil the flowers in the oil, till they are almost crisp; then press out the oil, and fet it by till the feces have fubfided.

OLEUM VIRIDE. GREENOIL Lond from to term

Take of Bay, sawon walley noong a Rue, Marjoram,

Sea wormwood, Camomile, leaves, fresh, each three ounces and To reavest add

Oil olive, two pints.

Bruife the herbs, and gently boil them in the oil till they are almost crisp; then press out the oil, let it stand to settle, and afterwards pour it off from the

All the foregoing oils are defigned for external applications. Their general virtues are to foften and relax; by which qualities, they prove ferviceable in tenfion, rigidity, contractions, and inflammations of particular parts; and in pains proceeding from these causes. As several of them contain those parts of the ingredients in which their virtues principally refide, they are hence supposed capable in some degree

degree of exerting those virtues when externally applied: thus, the oil of wormwood, rubbed on the stomach and umbilical region, is said to excite appetite, strengthen the viscera, and kill worms; that of chamemel flowers, to be a warm discutient and resolvent; those of St. John's wort flowers and dill leaves, to be peculiarly grateful to the nerves, to give great relief in all kinds of pains and weariness, to resolve tumors, and heal wounds and ulcers; the oil of mucilages, to be softer and more emollient

Player would not only prolong poores, but likewife occasion matter to explode and be thrown

than common oil; that of rue, to be of fingular efficacy against schirrous swellings, and hardness of the spleen, &c. It is presumed, however, that at present there are sew who expect much more from these preparations than from common oil itself, which has the advantage of being less offensive: the resinous parts of vegetables, however active when taken internally in a proper form, can scarce be supposed, when combined with a large quantity of oil, to have any considerable effect in external applications.

The English P. 204 Jory improved. Part II t II degree of exerting those virtues than common all; that of rue, to when externally applied; thus, the be of inspalar efficiely against februaries externally applied; thus, the best triggles affice and triggles of the e. to chirfthe said to excite appetite, discounen companies at prefette there are few the varieta, and fell IVXX RETTAHED much more ton their of changement flowers rebern warm preparations than from corrange oil nowfew thefe EMPLASTRA, UNGUENTA, CERATA, EPITHEMATA. n oil re of nous tive oper PLASTERS, OINTMENTS, CERATES, hen Come alderablence was an EPITHEMS. v of ffect General rules for making plasters, &c. from the Edinburgh pharmacopæia. are to be added towards the end of the operation. CUCH plants as are employed in these compositions, ought to Plasters require the addition of wabe fresh, juicy, and well bruised; ter, till they have acquired a due unless they are ordered otherconfiftence. wife. The use of the water is, to keep the plaster from burning and growing black. Such water, as it may Boil the herbs till they are almost crifp, taking care to prevent the be necessary to add during the boilmatter from contracting a black ing, must be previously made hot: colour : afterwards ftrain off the cold liquor would not only prolong liquid, and fet it on the fire again, the process, but likewise occasion that all the aqueous moisture the matter to explode and be thrown may exhale. about with violence, to the great danger of the operator; this acci-Metallic powders are to be boiled dent will equally happen upon the first with the oils and unctuous addition of hot water, if the plaster ingredients, till duly united. is extremely hot. Such gums as are readily foluble, powders, and also turpentine, SECT. I. PLASTERS. Galbanum, each four ounces; EMPLASTRUM ANODYNUM. Cummin feeds, powdered, three ANODYNE PLASTER. ounces; Black foap, four ounces. Edinb. Take of Melt the refin and the gums toge-White refin, eight ounces; ther; then add the feeds and the Tacamahacca in powder,

foap, and make the whole into dressing blisters, the refin ought to be entirely omitted, unless where

This plaster sometimes gives ease in slight gouty and rheumatic pains, which it is supposed to effect by preventing the afflux of humors to the part, and putting in motion, and repelling such as already stagnate there.

EMPLASTRUM ANTI-HYSTERICUM. ANTIHYSTERIC PLASTER. Edinb.

Takeof

Galbanum, twelve ounces; Tacamahacca, in powder, Yellow wax, each fix ounces; Afa fætida,

Cummin feed in powder, Venice turpentine, each four ounces.

Mix and make them into a plaster, according to art.

This plaster is applied to the umbilical region, or over the whole abdomen, in hysteric cases; and fometimes with good effect.

EMPLASTRUM ATTRAHENS. DRAWING PLASTER. Lond.

Take of

Yellow refin,

Yellow wax, each three pounds; Tried mutton fuet, one pound.

Melt them together, and whilft the mass remains stuid, pass it thro' a strainer.

This is a very well contrived plaster for the purpose expressed in its title. It is calculated to supply the place of melilot plaster; whose great irritation, when employed for the dressing of blisters, has been continually complained of. This was owing to the large quantity of resin contained in it, which is here for that reason retrenched. It should seem that, when designed only for

dreffing blifters, the refin ought to be entirely omitted, unless where a continuance of the pain and irritation, excited by the vesicatory, is required. Indeed plasters of any kind are not very proper for this purpose: their consistence makes them set uneasy, and their adhesiveness renders the taking them off painful. Cerates, which are softer and less adhesive, appear much more eligible: the ceratum album will serve for general use; and for some particular purposes, the ceratum citrinum may be applied.

EMPLASTRUM CEPHALICUM. CEPHALIC PLASTER. Lond.

ake of

Burgundy pitch, two pounds; Soft labdanum, one pound; Yellow refin,

Yellow wax, each four ounces; The expressed oil, called oil of mace, one ounce.

Melt the pitch, refin, and wax together; then add, first the labdanum, and afterwards the oil of mace.

Edinb.

Take of

Yellow wax, three ounces; White refin,

Tacamahacca, each two ounces; Myrrh,

Castor, each two drams;

Venice turpentine, three ounces; Effential oil of lavender,

Oil of amber, each one dram.

Add the oils, to the other ingredients previously made into a plafler and grown almost cold.

These plasters are applied, in weakness or pains of the head, to the temples, forehead, &c. and sometimes likewise to the feet. Schulze relates, that an inveterate rheumatism in the temples, which at times extended to the teeth, and

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Plasters

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occasioned intolerable pain, was completely cured in two days by a plaster of this kind (with the addition of a little opium) applied to the part, after many other remedies had been tried in vain t he adds. that a large quantity of liquid matter exuded, under the plaster, in drops, which were fo acrid as to corrode the cuticle.

EMPLASTRUM de CICUTA cum AMMONIACO. PLASTER of HEMLOCK with AMMONIACUM. Edinb.

Take of luice of hemlock leaves, four ounces;

Gum ammoniacum, eight ounces; Vinegar of fquills, as much as is fufficient to dissolve the gum.

Add the juice to this folution, and having strained the mixture, boil it to the confiftence of a plaster.

This is supposed to be a powerful cooler and discutient, and particularly ferviceable against swellings of the fpleen and dillentions of the hypocondres.

EMPLASTRUM COMMUNE. COMMON PLASTER.

Lond.

Take of

Oil olive, one gallon; Litharge, ground into a most subtile powder, five pounds.

Boil them over a gentle fire, with about two pints of water, keeping them continually flirring, till the oil and litharge unite, and acquire the confiltence of a plafter. If all the water should be confumed before this happens, add some more water previously made hot.

EMPLASTRUM DIACHYLON. DIACHYLON PLASTER. Edinb .

Take of Oil of mucilages, four pints; Litharge of gold, a pound and a half.

Boil them into a plaster.

The heat, in these processes, fhould be gentle, and the matter kept continually ftirring, otherwise it fwells up, and is apt to run over If the composition the vessel. proves discoloured, the addition of a little white lead and oil will recover the colour.

Thefe platters are the common application in excoriations of the skin, slight flesh wounds, and the They keep the part foft, like. and fomewhat warm, and defend it from the air, which is all that can be expected in these cases from any plaster. Some of our industrious medicine-makers have thought these purposes might be answered by a cheaper composition, and accordingly have substituted a mixture of no better materials than common whiting and hogs lard: this, however, is by no means allowable, not only as it does not flick fo well, but likewife as the lard is apt to grow rancid and acrimonious, and in fome cases occafion great pain. The counterfeit is diffinguishable by the eye, but more fatisfactorily by burning a little in an iron ladle: the genuine will be partly revived into little globules of lead, whilft the counterfeit burns into a kind of lime.

EMPLASTRUM COMMUNE ADHÆSIVUM: COMMON STICKING PLASTER.

Lond.

Take of Common plaster, three pounds; Yellow refin, half a pound.

Melt the common plaster over a very gentle fire; then add the refin, first reduced into powder that it may melt the fooner; and mix them all together. This

This plaster may otherwise be made, by taking, instead of the common plaster, its ingredients oil and litharge; and adding the refin a little before they have come to the due confistence; then continue the boiling till the plafter is finished.

It turns out the most elegant when made by this last method.

> EMPLASTRUM ADHÆSIVUM. STICKING PLASTER.

Take of

Simple diachylon plaster, two

Burgundy pitch, one pound. Melt them together, fo as to make

These plasters are used chiefly as

adhefives, for keeping on other dreffings, &c.

EMPLASTRUM COMMUNE cum GUMMI. COMMON PLASTERS with GUMS. Lond.

Take of

Common plaster, three pounds; Galbanum strained, eight ounces; Common turpentine,

Frankincense, each three ounces. Melt the galbanum with the turpentine, over a gentle fire, and fprinkle in the frankincense, reduced to powder: then gradually mix with these the common plaster, previously liquested by a very gentle heat.

Or, instead of the common plaster already made, you may take the oil and litharge boiled together: as foon as these unite, before they have acquired the confiftence of a plaster, the other ingredients are to be added.

EMPLASTRUM DIACHYLON cum GUMMI.

DIACHYLON PLASTER with GUMS. Edinh.

Take of

Oil of mucilages, four pints; Litharge of gold, two pounds; Gum ammoniacum, Galbanum,

Venice turpentine,

Yellow wax, each half a pound. Boil the oil with the litharge to the confiftence of a plaster; then add the other ingredients, and make the whole into a plaster, according to art.

These plasters are used as digestives and suppuratives; particularly in abfceffes, after a part of the matter has been maturated and difcharged, for suppurating or discusfing the remaining hard part.

EMPLASTRUM e CYMINO. CUMMIN PLASTER. Lond.

Takeof Burgundy pitch, three pounds; Yellow wax, Cummin feeds, Caraway feeds,

Bay berries, each three ounces. Melt the pitch with the wax; then fprinkle in the other ingredients, first reduced into a powder, and mix the whole well together.

This plaster stands recommended as a moderately warm difcutient; and directed to be applied to the hypogastric region, for strengthening the viscera, and expelling flatulencies.

> **EMPLASTRUM** DEFENSIVUM. DEFENSIVE PLASTER. Edinb.

Take of Juice of Shepherds purfe, Knot grafs, Horsetail, Milfoil,

Tuice

Chap. 26. Plafters.

Juice of Plantane, Houseleek, Common nightshade,

Comfry, each half a pint; Oil olive, three pints;

Hogs lard, two pounds; Litharge of gold, two pounds and a half;

Red lead, half a pound; Yellow wax,

White refin, sanafanos Olibanum,

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Venice turpentine, each four ounces;

Powdered Bole Armenic, one

pound; Comfrey roots, Granate peels, Balaustines, Mastich,

Dragons blood, Red faunders, each two ounces.

Boil the juices with the oil, lard litharge, and red lead, till they come almost to the confistence of a plaster; then mix in the wax and refin; and when these are liquefied, add the olibanum, turpentine, and the powders. Let the whole be well mixed, and made into a plaster, according to art.

It may likewise be prepared without the juices.

This plaster is laid round the lips of wounds and ulcers, for defending them from inflammation, and other ill fymptoms; which it is supposed to effect, by somewhat confiringing the veffels, and thus preventing the afflux of humors to the part.

This composition is very redundant in its ingredients : and indeed, through the whole of this chapter, the college of Edinburgh have been very fparing of their emendations, especially of such ointments and plasters as are used by the surgeons in their dreffings. They were at

no further pains about them, than to enquire of the furgeons what forms they followed in making them up. With regard to this particular composition, they were affured, that fome, of the greatest practice, continued still to make it according to the old prescription above retained, without the omif-fion of any one juice. It would have been very easy, no doubt, to have composed a plaster, as good for the purpose, of four or five ingredients; but possibly neither one or the other would have answered any useful end.

EMPLASTRUM DIAPALMÆ

dictum. The PLASTER called DIAPALMA.

Take of

Litharge of gold, Oil olive, each three pounds; Hoes lard, two pounds.

Boil these ingredients together, and keep them flirring, till they have acquired a due confistence.

This plaster has lost the ingredient from which it received its name, the young floots of the palm tree; and likewife the ridicu-lous ceremony of flirring it with a palm tree stick, which was observed only to countenance the continuance of its name. It is used for the same purposes as the simple diachylon, and is inserted only in compliance with the shops, some chufing to keep the one, and others the other, may and lo b

EMPLASTRUM e MELILOTO. MELILOT PLASTER. Edinb,

Take of Melilot leaves, fresh, fix pounds; Beef fuet, three pounds; White refin, eight pourds; Yeliow wax, four pounds. Boil Kk2

Boil the herb in the melted fuet till it is almost crisp; then strongly press out the suet, and adding the resin and wax, boil the whole a little, so as to make a

plaster thereof.

This plaster has been frequently made use of for dreffing blifters: fee EMPLASTRUM ATTRA-HENS. The London college have diminished the quantity of resin, to render the composition less irritating; and likewise omitted the herb, as being of no fignificancy towards the use of the plaster, and of a very disagreeable scent, a circumflance of primary confequence to be avoided in diforders, where freedom from diffurbance, and every means, that can contribute to quiet rest, ought by all possible endeavours to be procured: not to mention the mischievous adulteration's fometimes practifed in this plaster with irritating materials, for procuring the green colour, which is made its marketable characteristic more compendiously than by the decoction of the herb. The most certain method of discovering abuses of this kind, is to put a little of the plaster into some spirit of sal ammoniac; if it tinges the spirit blue, we may be certain it is adulterated.

EMPLASTRUM ex
AMMONIACO cum
MERCURIO.
PLASTER of AMMONIACUM
with MERCURY.
Lond.

Take of

Gum ammoniacum, strained, one pound;

Quickfilver three ounces;

Simple balfam of fulphur, one dram.

Grind the quickfilver with the balfam of fulphur, till it ceases to appear; then, having melted the ammoniacum, add it gradually a little before it cools, to this mixture; and let the whole be perfectly mingled together.

This is a very well contrived mercurial plaster: if in some cases, it should not prove adhesive enough, the addition of a small quantity of turpentine will readily make it so.

EMPLASTRUM COMMUNE
cum MERCURIO.
COMMON PLASTER with
MERCURY.
Lond.

Take of

Common plaster, one pound; Quickfilver, three ounces; Simple balsam of sulphur, one dram.

Make them into a plaster, after the fame manner as the foregoing.

EMPLASTRUM MERCURIALE. MERCURIAL PLASTER. Edinb.

Take of

Diachylon plaster with gums, a pound and a half;
Quickfilver eight ounces;
Venice turpentine, one ounce;
Liquid storax, an ounce and a half.

Grind the quickfilver in a mortar, with the turpentine and storax, until they are perfectly incorporated; and then, having melted the diachylon, and taken it from the fire, add to it this mixture.

These mercurial plasters are looked on as powerful resolvents and discutients, acting with much greater certainty in these intentions, than any composition of vegetable substances alone; the mercury exercing itself in a considerable degree, though it is rarely introduced into the habit, in such quantity as sensibly to affect the mouth. Pains in the joints and limbs from a venereal cause, nodes, tophs, beginning tchirro-

schirrofities, and indurations of the glands fometimes yield to them.

EMPLASTRUM e MINIO. RED LEAD PLASTER Lond.

Take of

Oil olive, four pints :

Red lead, reduced to a most subtile powder, two pounds and

a half.

Make them into a plaster, after the manner directed for preparing the common plaster: but more water is here required, and greater care is necessary to prevent the composition from burning and growing black.

EMPLASTRUM de MINIO SIMPLEX SIMPLE RED LEAD PLASTER. Edinb.

Take of

Red lead, one pound; Oil olive, a pint and a half; Vinegar, half a pint; Make them into a plaster, by boil-ing over a gentle fire.

These are used for the same purposes as the common or diachylon plafter, from which they differ little otherwise than in colour. They have an inconvenience of not flicking fo well.

EMPLASTRUM de MINIO cum SAPONE. RED LEAD PLASTER with SOAP

Edinb. This is made by adding to the foregoing plaster taken from the fire as foon as the moisture is evapo-rated, and whilst hot, half a pound of Spanish foap cut into ffir the whole thin flices : strongly together, until the foap is liquefied, and a plaster formed, according to art.

This is much esteemed by some, for discussing gouty tumors, and the juices stagnating after sprains. Whatever virtues it may have diflinct from the general ones of the applications of this chafs, they depend entirely upon the foap.

> EMPLASTRUM OXYCROCEUM. The PLASTER called OXYCROCEUM. Edinb.

Take of

Yellow wax, one pound;

Pitch,

Galbanum, each half a pound; Venice turpentine,

Myrrh,

Olibanum, each three ounces : Saffron, two ounces;

Mix and make them into a plaster,

according to art.

This plaster is faid to strengthen the parts to which it is applied, especially the tendinous ones; to warm in a great degree, and to refolve and difcuss cold tumors.

EMPLASTRUM e MUCILAGINIBUS. PLASTER of MUCILAGES. Lond.

Take of

Yellow wax, forty ounces; Oil of mucilages, half a pint;

Gum ammoniacum, strained, half a pound;

Common turpentine, two ounces. Melt the ammoniacum with the turpentine; and having, in another veffel liquefied the wax with the oil, add this latter mixture to the other.

Some have been accustomed to use, instead of the oil of mucilages, common oil olive, flavoured with fenugreek feeds: and posiibly this fubflitution may be admitted as a venial one; for the oil of muci-

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ages genuinely made contains them to the confidence of a plafcarce any thing of any of the ingredients, except that part of the grow too cold before you form fenugreek feeds wherein their fla- or it into rolls; otherwise it will vour refides, the mucilaginous ma- ni prove too brittle. terials ferving only to provide it This plaster differs only in cowith a name.

EMPLASTRUM ROBORANS. STRENGTHENING PLASTER. Land .

Take of

Common plaster, two pounds; Frankincense, half a pound; Dragons blood, three ounces.

Melt the common plaster, and add to it the other ingredients reduced into powder.

This is a reformation of the laborious and injudicious composition described, in our preceding pharma. Having melted the frankincense copecias, under the title of EM- add to it, first the labdanum PLASTRUM ad HERNIAM; softened by heat, and then the and tho' far the most elegant and fimple, is as effectual for that purpofe, as any of the medicines of this kind. If conflantly worn, with a proper bandage, it will, in children, frequently do fervice; tho' not fo much from any strengthendeflroying the effect of the others.

EMPLASTRUM e SAFONE. SOAP PLASTER. Land.

Take of Common plaffer, three pounds; Hard foap half a pound.

mix with it the foap, and boil and but the boron Expressed

fler. Take care not to let it

lour from the red lead plafter with foap above mentioned.

EMPLASTRUM STOMACHICUM. STOMACHPLASTER. Lond.

Take of

Soft labdanum, three ounces; Frankincenfe, one ounce; Cinnamon,

The expressed oil, called oil of mace, each half an ounce;

Effential oil of mint, one dram. oil of mace; afterwards mix these with the cinnamon and oil of mint; and beat them together in a warm mortar, into a mass, which is to be kept in a close

This is a very elegant stomach ing quality of the ingredients, as plaster. It is contrived to as to be from its being a foft, close, and easily made occasionally (for these adhesive covering. It has been kinds of compositions, on account supposed, that plasters composed of of their volatile ingredients, are flyptic medicines, constringe and not fit for keeping;) and to be firengthen the part to which they but moderately adhesive, so as not are applied, but on no very just to offend the skin; and that it may foundation; for plasters in gene- without difficulty be frequently ral relax rather than aftringe, the taken off and renewed, which unctuous ingredients necessary in these forts of applications, in order their composition, counteracting and to their producing any confiderable effect, require to be.

Edinb.

Take of Yellow wax, eight ounces; Tacamahacca in powder, four ounces; Venice turpentine, fix ounces;

Bay berries powdered, two ounces; Having melted the common plafter, Cubebs, powdered, one ounce;

Expressed oil of mace, an ounce and a half;

Effential oil of mint, two drams. Melt the wax and tacamahacca together, then add the other ingredients, and make them into a plafter, according to art.

These plasters are applied to the pit of the stomach, in weakness of that viscus, in vomitings, the diforder improperly called the heartburn, &c. and fometimes with good fuccess. The pit of the stomach however, as Hoffman has observed, is not always the most proper place for applications of this kind to be made to: if they are applied to the falle ribs of the left fide, towards the back, the stomach will in general receive more benefit from them; for it appears from anatomical inspection, that greatest part of it is fituated there.

EMPLASTRUM VESICATORIUM. BLISTERING PLASTER. Lond.

Take of

Drawing plaster, two pounds; Cantharides, one pound; Vinegar, half a pint.

well together.

EMPLASTRUM EPISPASTICUM. BLISTERING PLASTER. Edinb.

Take of Melilot plaster,

Burgundy pitch, each eight ounces;

Venice turpentine, three ounces; Cantharides, five ounces.

Reduce the cantharides into a most

the other ingredients, previously melted together, fo as to make the whole into a plaster, according to art.

EMPLASTRUM EPISPASTICUM COMPOSITUM. COMPOUND BLISTERING PLASTER. Edinb.

Take of

Burgundy pitch, ten ounces; Yellow wax, four ounces; White refin, two ounces; Venice turpentine, eighteen oun-

Mustard seed. Black pepper, each one ounce; Verdegris, two ounces; Cantharides, twelve ounces.

Melt the wax, pitch, and refin together, then add the turpentine, and when this is liquefied, fprinkle in the other ingredients, first powdered and mixed together; keeping them continually ftirring, to as to make a plaster thereof, according to art.

The bliftering platters are to be kept in oiled bladders.

This last composition has long Melt the drawing plaster, and a been used in some particular shops, little before it grows stiff, mix in as the most infallible blister : tho the cantharides, reduced into a either of the other two answer the most subtile powder; then add purpose very successfully. Whethe vinegar, and work them ther the vinegar in the first is of any advantage, is greatly to be doubted: in some cases indeed, it has been observed, that the platter without this addition feemed at first to fail of its effect, and that on taking it off, and rubbing the part with vinegar, the fame plaster, ap-plied again, blistered freely: but this is not so much owing to any peculiar quality of the vinegar, as to its foftening the skin when applied in this manner, and fitting it for the action of the cantharides: fubtile powder, and add them to when mixed with the other ingre-Kk4 dients

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dients of the plaster, it has not this effect : it likewife exhales in keeping, infomuch that the composition, tho' fufficiently foft at first, becomes in no long time too dry. Some have been accustomed to spare the trouble of making any plaster on purpose for blistering, by occasionally spreading some of the cantharides in powder upon a common plaster. The general intention and use of blifters have been already spoken of, under the article CANTHARIDES in the materia medica.

EMPLASTRUM VOLATILE. VOLATILE PLASTER. Edinb.

Take of Venice turpentine, Spirit of fal ammoniac, each one ounce;

Tacamahacca in powder, half an ounce :

Beat the turpentine in a mortar. pouring on it, by little and little. the spirit of sal ammoniac; when they are throughly mixed, throw in by degrees the tacamahacca, and mingle the whole well together,

This is a very acrid composition, and as fuch is fometimes applied in rheumatic and ischiadic pains. The tacamahacca renders it very adhefive, infomuch that it can scarce be got off fo quick, as, in fome cases, may be requisite. The London college therefore, omitting this ingredient, have ordered the medicine to be kept in a fofter form, under the title of EPITHEMA VOLATILE.

SECT. II.

OINTMENTS, LINIMENTS, and CERATES.

UNGUENTUM ALBUM. WHITE OINTMENT. Lond.

Take of Oil olive, one pint; White wax, four ounces; Sperma ceti, three ounces, Liquefy them by a gentle fire, and

keep them constantly and briskly ftirring, till grown throughly colde Edinb.

Take of Oil olive, three pints; Cerusse, one pound; White wax, nine ounces.

Mix and make them into an ointment, according to art.

These are useful, cooling, emollient ointments, of good fervice in excoriations, and other like frettings of the skin. The cerusse is omitted in the first prescription, on a suf-

picion that it might produce fome ill effects, when applied, as these unquents frequently are, to the tender bodies of children.

UNGUENTUM ALBUM CAMPHORATUM. CAMPHORATED WHITE OINTMENT.

Lond. This is made by adding to the white ointment a dram and a half of camphor, previously ground with some drops of oil of almonds.

Edinb. Mix with the white ointment, when taken from the fire, an ounce of camphor, ground with fome drops of oil of almonds.

These ointments are supposed to be more discutient than the foregoing.

ous heats, itching, and ferpiginous eruptions. They should be kept in close vessels, otherwise the camling flrong of this ingredient is the best mark of their goodness.

> UNGUENTUMex ALTHÆA. OINTMENT of MARSHMALLOWS. Lond.

Take of Oil of mucilages, three pints; Yellow wax, one pound; Yellow refin, half a pound;

Common turpentine, two ounces. Melt the refin and wax with the from the fire, add the turpentine, and while the mixture remains hot, strain it. Edinb.

Take of

Oil of mucilages, two pints; Yellow wax, half a pound; White refin, three ounces; Venice turpentine, one ounce and

Mix and make them into an ointment, according to art.

These ointments receive no virtue from the ingredient which they take their name from.

UNGUENTUM. ANTIPSORICUM. OINTMENT against the ITCH. Edinb.

Take of Elecampane root, fresh, Sharp-pointed dock root, fresh, each three ounces; Water cresses, fresh and bruised, ten ounces; Hogs lard, four pounds;

Yellow wax, Oil of bays, each four ounces; Vinegar, one pint;

Water, three pints,

ing, and ferviceable against cutane- Bruise the roots, and boil them in the water and vinegar, till half the liquor is confumed; strain and firongly press out the remainder, add to it the watercreffes and the lard, and boil them till the mosture is exhaled; then prefs out the ointment, and liquefy in it the wax and the oil of bays. Sulphur is added to this ointment occasionally.

> UNGUENTUM ANTIPSORICUM cum . MERCURIO. OINTMENT against the ITCH with MERCURY. Edinb

oil; then, having taken them This is made by adding to the foregoing ointment four ounces of quickfilver, killed with a fufficient quantity of Venice turpentine, and mixing them together, according to art, into an unguent.

These pintments are very inelegant ones, and rarely made use of. The first is likewise precarious in its effects, and though those with fulphur and mercury are of undoubted efficacy, yet they are by no means superior to the more simple ointments of these drugs defcribed hereafter.

UNGUENTUM BASILICUM FLAVUM. YELLOW BASILICUM OINTMENT. Lond.

Take of Oil olive, one pint; Yellow wax, Yellow refin,

Burgundy pitch, each one pound: Common turpentine, three ounces.

Melt the wax, refin, and pitch, along with the oil over a gentle fire; then take them from the fire, add the turpentine, and whilft the mixture remains hot, ftrain it.

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UNGUENTUM BASILICUM. BASILICUM OINTMENT.

Edinb.

Take of

Vellow wax,

Goats fuet,

White refin.

Venice turpentine,

Pitch, each half a pound;

Oil olive, two pints and a half: Melt all the other ingredients in the oil, flirring them well together; and then strain off the

ointment.

These are commonly employed in dreffings, for digefting, cleanfing and incarnating wounds and ulcers. They differ very little, if at Diffolve the quickfilver in the spiall, in their effects, from the linimensum Arcai.

UNGUENTUM BASILICUM NIGRUM vel TETRAPHARMACUM. BLACK BASILICUM OINTMENT or OINTMENT of Four INGREDIENTS.

Lond.

Take of

Oil olive, one pint; Yellow wax,

Yellow refin,

Dry pitch, each nine ounces. Melt them all together, and whilft the mixture is hot frain it off.

This ointment was formerly of confiderable efteem for healing and incarnating wounds, &c. but is faid to have an inconvenience of being apt to render them foul, and produce fungous flesh: at prefent it ris rarely made use of; the vellow basilicum, and the liniment of Arcæus being in general preferred.

UNGUENTUM BASILICUM VIRIDE. GREEN BASILICUM CINTMENT.

Land.

Take of Yellow basilicum, eight ounces; Oil olive, three ounces by mea-

Verdegris prepared, one ounce. Mix and make them into an ointment.

Our hospitals have been accuflomed to prepare an ointment greatly refembling this, under the title of unquentum viride detergens.

UNGUENTUM CITRINUM. YELLOW OINTMENT.

Take of Edinb.

Quickfilver, one ounce; Spirit of nitre, two ounces ;

Hogs lard, tried, one pound. rit of nitre, by digestion in a fand heat; and whilft the folution is very hot, mix with it the lard, previously melted by itself, and just beginning to grow sliff. Stir them brifkly together, in a marble mortar, fo as to form the whole into an ointment.

UNGUENTUM CÆRULEUM FORTIUS. The STRONGER BLUE

OINTMENT. Lond.

Take of

Hogs lard, tried, two pounds; Quickfilver, one pound: Simple balfam of fulphur, half an ounce.

Grind the quickfilver with the balfam of fulphur till they are perfeetly incorporated; then gradually add the lard heated, and mix them carefully together.

UNGUENTUM CÆRULEUM MITIUS. The MILDER BLUE OINTMENT.

Lond.

Take of

Hogs lard, tried, four pounds; Quickfilver, one pound; Common

Common turpentine, one ounce. Grind the quickfilver with the tur- dryer and healer, but is at prefent pentine, in a mortar, till it ceases to appear; then gradually add in the shops. the lard warmed, and carefully mix them together.

This unquent turns out of a much better blue colour than the foregoing, which is of a very dingy hue. Mercurial unguents have in many cases the same effects with the preparations of this mineral taken internally; and are at present frequently employed, not only against cutaneous diforders, as alterants; but likewife in venereal and other obstinate cases, for raising a falivation. The ptyalifm excited by unction is faid to be attended with the fewest inconveniencies, and to perform the most compleat cure. In fome conflitutions, mercurials, taken inwardly, run off by the intestines, without affecting the mouth; and in others, they affect the falival glands fo quickly as to occasion a copious ptyalism, with out extending their action to the remoter parts, and confequently without removing the cause of the dif-

UNGUENTUM DESICCATIVUM RUBRUM. RED DESICCATIVE OINTMENT. Edinb.

Take of Oil olive, a pint and a half; White wax, half a pound; Calamine prepared, fix ounces; Litharge of gold prepared, Bole armenic, each four ounces;

Camphor, three drams. Melt the wax in the oil, and having taken them from the fire, gradually fprinkle in the other ingredients, flirring them briskly together into an ointment. The camphor must be previously ground with a little oil of almonds.

This is faid to be an excellent in no great effeem, and rarely kept

UNGUENTUM DIAPOMPHOLYGOS. OINTMENT of POMPHOLYX. Edinb.

Take of Oil olive, twenty ounces; Juice of the berries of common, or deadly nightshade, eight ounces;

White wax, five ounces; Cerusie, four ounces; Burnt lead, Pompholyx, each two ounces;

Pure frankincense, one ounce.

Boil the oil and the juice over a gentle fire, till the juice is exhaled; and towards the end of the coction, melt the wax in the oil; then take the mixture from the fire, and add to it, whilft hot, the other ingredients reduced to powder. Mix and make them into an ointment.

This stands recommended against hot inflammatory ulcers and sharp defluxions on the eyes; but is very rarely made use of, having for some time given place to compositions more fimple, though at least equal in efficacy.

UNGUENTUM e GUMMI ELEMI. OINTMENT of GUM ELEMI. Lond.

Take of Mutton fuct, fresh and tried, two pounds; Gum elemi, one pound; Common turpentine, ten ounces.

Melt the gum with the fuet, and having taken them from the fire, immediately mix in the turpentine; then, whilst the mass remains sluid, strain itoff.

UN-

UNGUENTUM feu LINIMENTUM ARCÆL The OINTMENT or LINIMENT of ARCÆUS. Edinb.

Take of

Hogs lard, one pound; Goats fuet, two pounds : Venice turpentine,

Gum elemi, each a pound and a half.

Melt and strain them, so as to make an ointment, according to art.

This unguent has long been in use for digefling, cleanfing, and incar-nating; and for these purposes is preferred by fome to all the other compositions of this kind.

UNGUENTUM MERCURIALE MERCURIAL OINTMENT. Edinb.

Take of

Hogs lard, two ounces: Quickfilver, half an ounce.

Beat them diligently together, till the quickfilver difappears. It may likewise be made with two. three, or more times the quan-

tity of quickfilver.

This is the most simple of the mercurial ointments, tho' possibly as efficacious as any. It requires indeed a great deal more labour to extinguish the mercury in the lard alone, than when turpentine, or other like fubfiances are joined: but, in recompence, the composition with lard is free from an inconvenience which the others are accompanied with, viz. being apt, by frequent rubbing, to fret tender fkins. Some chuse to stiffen this ointment with a fourth part of fuet (proportionably diminishing the lard) which gives it a better confiftence for use.

UNGUENTUM e MERCURIO PRÆCIPITATO. OINTMENT of MERCURY PRECIPITATE.

Take of

Simple ointment, an ounce and a half ;

Precipitated fulphur, two drams; White mercury precipitate, two fcruples.

Mix them well together, and moisten them with ley of tartar, that they may be made into an ointment.

This is a very elegant mercurial ointment, and frequently made use of against cutaneous disorders. The preparations of mercury and fulphur here directed, are chosen on account of their colour.

UNGUENTUM NERVINUM. NERVE OINTMENT.

Edinb.

Take of Southernwood.

Marjoram (or Origanum) Mint.

Penny-royal, Rue,

Rosemary, each, fresh gathered

fix ounces; Neats foot oil, five pints: Beef fuet, three pounds; Oil of bays, half a pint.

Boil the herbs, with the neats-foot. oil and fuet, till the aqueous moisture is exhaled, then press and strain out the liquid, and adding to it the oil of bays, make the whole into an ointment.

This ointment has been supposed to warm and firengthen the nerves. It is at present in no great esteem.

UNGUENTUM NUTRITUM. The OINTMENT called NUTRITUM. Edinb.

Take of

Litharge of gold, Vinegar, each half a pound; Oil olive, a pint and a half.

Rub them in a mortar, adding the oil and vinegar alternately by little and little at a time, till the vinegar vinegar ceases to appear, and the ointment becomes uniform and white.

This ointment is troublefome to make, and does not keep well, the vinegar exhaling, so as to leave the compound too fliff. It is supposed to be a good cooler and deficeative; and is occasionally used in exceriations, slight serpiginous eruptions, and for anointing the lips of wounds or ulcers that itch much, or tend to inflammation.

UNGUENTUM OPHTHALMICUM. EYE OINTMENT. Edinb.

Take of

ir

Ointment of tutty, an ounce and a half;

Saturnine ointment, halfan ounce; Camphor, half a dram.

Mix and make them into an ointment, according to art.

This ointment may likewise be made with two, three, or more times the quantity of camphor.

This unguent is very well contrived for the purpose expressed in its title; scarce any of those commonly met with being equal to it, in inflammations, and hot acrid defluxions on the eyes.

UNGUENTUM e PICE. OINTMENT of TAR. Lond.

Take of

Mutton fuet tried,

Tar, each equal weights.

Melt them together, and strain the
mixture whilst hot.

This composition, with the addition of half its weight of resu, has long been used in the shops as a cheap substitute to the black basilicum.

UNGUENTUM POPULEON.
OINTMENT of POPLAR BUDS.
Edinb.

Take of

Buds of black poplar, fresh and bruised, one pound; Hogs lard, fresh, four pounds.

Hogs lard, fresh, four pounds.
Let them be well mixed together,
and kept in a glazed earthen
vessel, until the following herbs
can be gathered: viz.

Hemiock leaves, Black henbane,

Garden poppy,

Nighthade, of each fix ounces.
Bruife the herbs, and boil them with the lard and poplar buds, over a gentle fire, till the moifture is exhaled; then ftrongly press out and strain the ointment, and melt in it four ounces of white wax.

This ungent is faid to be a cooler, and in fome degree anodyne. It has been used in inflammations, and tension of the skin; and rubbed on the wrists, temples, and arteries of the feet, in ardent severs, for easing pains, and procuring rest. The success attending this practice was not, probably, io great as has been reported; nor is the preparation, at present, much regarded in any intention.

UNGUENTUM SAMBUCINUM. OINTMENT of ELDER. Lond.

Take of

Elder flowers, full blown, four pounds; Mutton fuet, tried, three pounds;

Oil olive, one pint.

Melt the fuet with the oil, and in this mixture boil the flowers till they are almost crisp; then strain and press out the ointment.

Edinb.

Take of

The inner bark of the elder tree, The leaves of elder, fresh, each four ounces;

Linfeed oil, two pints;

White

White wax, fix ounces.

Let the bark and leaves be well bruifed, and boiled in the oil till the humidity is confumed; then press out the oil thro' a strainer, and melt in it the wax, fo as to make an ointment.

These ointments do not seem superior to fome others which are much neater, and parable at less expence. They can scarce be supposed to receive any considerable virtue from the ingredients which they take their name from.

UNGUENT. SATURNINUM. SATURNINE OINTMENT.

Tand.

Take of

Oil olive, half a pint; White wax, an ounce and a half; Sugar of lead, two drams.

Let the fugar of lead, reduced into a very subtile powder, be ground with some part of the oil, and the wax melted with the rest of the oil: mix both together, and keep them flirring till the ointment is grown cold.

UNGUENTUM SATURNINUM, vulgo BALSAMUM UNIVERSALE. SATURNINE OINTMENT, commonly called the UNIVERSAL BALSAM.

Take of

Sugar of lead, two ounces; White wax, three ounces; Oil olive, one pint.

Edinb.

Liquefy the oil and wax together, and gradually add the fugar of lead; continually flirring them till, growing cold, they unite into an ointment.

This is an excellent cooler and deficcative; much fuperior, both in elegancy and efficacy to the nutritum or tripharmacum.

UNGUENTUM SIMPLEX.

The SIMPLE OINTMENT.

Take of

Hogs lard, tried, two pounds; Rofe water, three ounces by meafure.

Beat the lard with the rose water, till they are well mixed; then melt them over a very gentle fire, and fet them by for fome time, that the water may fubfide: pour the lard off from the water, and keep incessantly stirring and beating it about till it grows cold, fo as to reduce it into a light incoherent mass: lastly, add fo much effence of lemons as will be fufficient to give a grateful odour.

UNGUENTUM ROSACEUM vulgo POMATUM.

The ROSE OINTMENT, commonly called POMATUM. Edinb

On any quantity of hogs lard, cut into fmall pieces, and placed in a glazed earthen vessel, pour as much water as will rife above it fome inches; and digeft them together for ten days, renewing the water every day. Then liquefy the lard with a very gentle heat, and pour it into a proper quantity of role water: work them well together; and afterwards, pouring off the water, add to the lard fome drops of oil of rhodium.

These ointments are in common use for fostening and smoothing the fkin, and healing chaps.

UNGUENTUM e SULPHURE. OINTMENT of SULPHUR. Lond.

Take of The fimple ointment, half a pound; Flowers of fulphur, unwashed,

two ounces;

Effence

Essence of lemons, one scruple. Mix them together.

This is defigned for cutaneous diforders : it is much neater than the unquentum antiporicum cum fulphure, though, at least, equally effi-

> UNGUENTUM TRIPHARMACUM. OINTMENT of THREE INGREDIENTS.

Lond.

Take of

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Common plaster, four ounces; Oil olive, two ounces by mea-

Vinegar, one ounce by measure. Boil them together over a gentle fire, keeping them continually flirring till they are reduced to the confiftence of an ointment.

This is a new method of preparing the unguentum nutritum, much less troublesome than the one already described under that title. The composition proves likewise more smooth and uniform, and not fo liable to grow dry in keeping. This ointment is nevertheless inferior, both in respect of elegancy and efficacy, to the unquentum faturninum.

UNGUENTUM TUTIÆ. OINTMENT of TUTTY.

Lond.

Let any quantity of prepared tutty be mixed with as much purified vipers fat, as is fufficient to reduce it into the confidence of a foft ointment.

This ointment is defigned for an ophthalmic. What particular virtues it receives from the vipers fat, we shall not presume to determine. Edinb.

Take of

White wax, three ounces; Best oil olive, ten ounces; Tutty, prepared, two ounces;

Calamine prepared, one ounce. Liquely the wax with the oil, over a gentle fire; then gradually fprinkle in the tutty and calamine, continually flirring them. till the ointment grows cold.

This ointment may likewife be made extemporaneously, by mixing the calamine and tutty with four times their quantity of fresh butter.

The ointment of tutty made with butter (with which it has been ufually directed) turns fo foon rancid, as to be improper for an officinal. The college have therefore given one for the use of the shops with oil, which (if fweet Florence oil be employed) is as effectual and inoffensive to the eyes, as the other. The calamine is not perhaps a neceffary ingredient in either; fince this crude mineral can scarce be supposed to have any virtue which the tutty itself does not possess in at least an equal degree.

UNGUENTUM VERMIFUGUM. OINTMENT against WORMS. Edinb.

Take of Lavender cotton, Wormwood. Rue. Savin. Tanfy, leaves, fresh gathered,

each two ounces; Oil olive, a pint and a half; Hogs lard, one pound: 32

Yellow wax, three ounces; Ox gall,

Socotorine aloes, each an ounce and a half ; learning ; basi Coloquintida, los garworg lig

Worm feed, each one ounce. Bruife the herbs, and boil them with the oil and lard, till the aqueous moisture is evaporated: then prefs the liquor through a strainer, melt in it the wax, and INTERNATIONAL CAFter-

afterwards add the other ingredients, boiling and flirring them together, fo as to make an ointment. The aloes, coloquintida, and worm-feed must be previously reduced into a very subtile powder.

This ointment is rubbed on the bellies of children for destroying worms, and sometimes with good success.

UNGUENTUM ad
VESICATORIA [L.]
UNGUENTUM
EPISPASTICUM [E.]
OINTMENT for BLISTERS.

Take of
Hogs lard, tried,
Bliftering plafter, each equal

weights.

Melt them together over a very gentle fire, and keep them confantly flirring till grown cold.

Take of
Hogs lard,
Venice turpentine, each three
ounces:

Yellow wax, one ounce; Cantharides, three drams.

To the lard and wax melted together, add first the cantharides reduced into powder, and then the turpentine: lastly, mix the whole into an ointment.

These ointments are added in the dressings for blisters, intended to be made perpetual as they are called, or to be kept running for a considerable time, which in many chronic, and some acute cases, they are required to be. The resinous melilot plaister, which as we have already seen is too irritating for dressing blisters in other intentions, proves here, even when made with the largest proportion of resin, insufficient.

UNGUENTUM VIRIDE. GREEN OINTMENT. Take of

The green oil, three pints; Ye low wax, ten ounces:

Melt them together over a gentle fire, and keep the mixture continually stirring until it is grown cold.

This ointment does not feem to receive any particular virtue from the ingredients to which its colour is owing.

LINIMENTUM ALBUM.
WHITE LINIMENT.
Lond.

Take of Oil olive, three ounces by meafure:

Sperma ceti, fix drams; White wax, two drams.

Melt them together over a gentle fire, and keep them confantly and brifkly firring, till grown cold.

This differs only in confidence from the unguentum album.

LINIMENTUM SAPONACEUM. SAPONACEOUS LINIMENT. Lond.

Take of
Spirit of rofemary, one pint;
Hard Spanish foap, three ounces;
Camphor, one ounce.
Digest the soap in the spirit of rofe-

mary, until it is diffolved; then add the camphor.

BALSAMUM SAPONACEUM, vulgo OPPODELTOCH. SAPONACEOUS BALSAM, commonly called OPODELDOC. Edinb.

Take of
Spanish foap, one pound;
Camphor, two ounces;
Essential oil of rosemary,
Essential oil of origanum, each
half an ounce;

Recti-

Chap. 26.

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Ointments.

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Rectified spirit of wine, four pints. Digest the soap in the spirit of wine, with a gentle heat, till it is diffolved; then add the camphor and the oils, and shake the whole well together, that they may be perfectly mixed.

BALSAMUM ANODYNUM BATEANUM. BATES'S ANODYNE BALSAM.

Edinb.

This is made by occasionally adding tincture of opium to the fore-

going faponaceous balfam.

This medicine stands highly commended for allaying gouty pains: it is said to procure ease in the greatest extremities of torture, to promote the transpiration of the irritating matter, and entirely to carry off the sit; a cloth, dipt in it, being laid on the part. It is likewise directed to be taken inwardly, from twenty to fifty drops, in the same disorder, as also in nervous colics, the jaundice, and for cleansing and deterging the viscera.

BALSAMUM VIRIDE. GREEN BALSAM. Edinb.

Take of

Linfeed oil,
Oil of turpentine, each one
pound;

Verdegris, in powder, three

Boil and flir them well together till the verdegris is diffolved.

A balfam, fimilar to this, is faid to have been greatly valued by our furgeons as a detergent.

LINIMENTUM
TRIPHARMACUM.
LINIMENT of THREE
INGREDIENTS.
Lond.

Take of Yellow wax, one ounce Common plaster, four ounces; Melt them together.

Oil olive, a quarter of a pint; Vinegar, one ounce by measure. Boil them over a gentle fire, continually flirring them until they acquire the confishence of a lini-

This is the fame with the unguentum tripharmacum, except that the quantity of oil is here increased to give the compound the foster confishence of a liniment.

LINIMENTUM VOLATILE.
VOLATILE LINIMENT.
Lond

Take of

Oil of almonds, one ounce by measure;

Spirit of fal ammoniac, two drams by weight.

Stir them together in a wide mouthed phial, until they perfectly unite.

This is defigned for the fame purposes as the emplastrum and epithema wolatile; from which it differs little otherwise than in consistence.

CERATUM ALBUM.
WHITE CERATE.
Lond.

Take of

O'l olive, a quarter of a pint; White wax, four ounces; Sperma ceti, half an ounce.

Liquefy them all together, and keepthem flirring till the cerate is grown quite cold.

This differs from the white ointment and liniment only in being of a thicker confidence.

CERATUM CITRINUM. YELLOW CERATE.

Lond.

Take of
Yellow bafilicum ointment, half
a pound;
Yellow wax, one ounce;

This

This is no otherwise different Melt the wax with the oil, and grafrom the yellow bafilicum, than being of a stiffer confistence, which renders it for some purposes more commodious.

CERATUM EPULOTICUM. EPULOTIC CERATE.

Lond.

Take of Oil olive, one pint; Yellow wax,

Calamine, prepared, each half a pound.

Liquefy the wax with the oil, and as foon as the mixture begins to grow stiff, sprinkle in the calamine; keeping them constantly flirring together, till the cerate is grown quite cold.

UNGUENTUM e LAPIDE CALAMINARI. OINTMENT of CALAMINE. Edinb.

Take of Yellow wax, eighteen ounces; Oil olive, two pints; Calamine prepared, ten ounces and a half,

dually fprinkle in the calamine, mixing and flirring them well together till grown cold.

These compositions are formed upon the cerate, which TURNER strongly recommends in cutaneous ulcerations and excoriations, and which has been usually distinguished by his name. They appear from experience to be excellent epulotics, and as fuch are frequently made use of in practice.

CERATUM MERCURIALE MERCURIAL CERATE.

Take of Yellow wax, Hogs lard, tried, each half a pound;

Quickfilver, three ounces; Simple balfam of fulphur, one

Melt the wax with the lard, then gradually add this mixture to the quickfilver and balfam of fulphur previously ground together.

SECT. III.

ITHEMS.

EPITHEMA VESICATORIUM. applications of this kind, and fome-BLISTERING EPITHEM. Lond.

Take of

Cantharides, reduced into a most fubtile powder,

Wheat flower, each equal weights. Make them into a paste with vine-

gar.
This composition is of a softer confiftence than the bliftering plafters, and for this reason is in some cases preferred. Practitioners differ with regard to the degree of confiftence and adhefiveness most proper for

times vary them occasionally.

EPITHEMA VOLATILE. VOLATILE EPITHEM.

Lond.

Take of

Common turpentine, Spirit of fal ammoniac, each equal weights.

Stir the turpentine in a mortar, gradually dropping in the spirit, until they unite into a white mafs,

This is the emplastrum volatile of the Edinburgh pharmacopæia, render '

dered of a fofter confisence by the omission of the tacamahacca. The defign of this alteration is, that the epithem may be immediately re-moved with ease, in cases where its acrimony might render its longer continuance on the part hurtful.

CATAPLASMA e CYMINO. CATAPLASM of CUMMIN. Lond.

Take of

Cummin feeds, half a pound; Bay berries,

Scordium leaves dried,

Virginian fnake root, each three ounces;

Cloves one ounce;

Honey, thrice the weight of the powdered species.

Make them into a cataplasm.

This is a reformation of the THE-RIACA LONDINENSIS, which for fome time past has been scarce otherwise made use of than as a warm cataplaim: only fuch of its ingredients are retained as contribute most to this intention.

CATAPLASMA DISCUTIENS. DISCUTIENT CATAPLASM. Edinb.

Take of

Bryony root, two ounces; Common orris root, one ounce; Camomile flowers,

Elder flowers, Gum ammoniacum, each half an ounce;

Sal ammoniac, crude, two drams; Camphorated spirit of wine, one ounce.

Boil the roots and flowers in a fufficient quantity of water, till they become tender; and having bruifed the magma, add to it the gum ammoniacum, dissolved in a fufficient quantity of vinegar, and likewife the fal ammoniac and spirit : mix the whole to-

gether, fo as to make them into a cataplasm.

This composition is as good a difcutient as any thing that can well be contrived in this form of a cataplasm. In some cases, however, it will contradict its title, and inflead of discussing, promote suppuration.

CATAPLASMA MATURANS. RIPENING CATAPLASM. Land.

Figs, four ounces; Yellow bafilicum ointment, one ounce:

strained, half an Galbanum, ounce.

Beat the figs throughly in a mortar, occasionally dropping in some fpirit of wine or strong ale; then carefully mix with them the ointment first liquefied along with the galbanum.

CATAPLASMA SUPPURANS. SUPPURATING CATAPLASM.

Take of

White lily (or marshmallow) roots, four ounces;

Fat figs, one ounce;

Raw onions, bruifed, fix drams; Galbanum, half an ounce;

Bafilicum ointment,

Oil of camomile by infusion, each

one ounce;

Linseed meal, as much as is sufficient.

Let the lily (or marshmallow) roots be boiled along with the figs, in a fufficient quantity of water, till they become tender; then bruife, and add to them the other ingredients, and make the whole into a cataplasm, according to art. The galbanum must be previously diffolved in the yolk of an egg.

Both these compositions are good suppurants, or ripeners; tho' their

their keeping the part foft, moift, and warm, than on any particular qualities of the ingredients.

SINAPISMUS SIMPLEX. The SIMPLE SINAPISM. Edinb.

Take of Mustard seed, in powder, Crumb of bread, each equal Strong vinegar, as much as is fufficient. Mix them together.

SINAPISMUS COMPOSITUS. COMPOUND SINAPISM.

Take of Mustard seed, in powder, Crumb of bread, each two ounces ; Garlic, bruifed, half an ounce; Black loap, one ounce; Strong vinegar, a fufficient quan-Mix and make them into a cata-

plasm, according to art. This and the foregoing composition are employed only as frimulants : they often inflame the part to which they are applied, and raife

effects probably depend more on blifters, but not fo perfectly as cantharides. It has been customary to employ these kinds of acrid medicines in applications to the feet. with a view to make a derivation or revulsion from the head: but few, it is prefumed, at this time lay any firefs upon fuch notions: the fervice which these irritating applications are of in acute diforders where the head already is, or is disposed to be affected, can arise only from their impressing a stimulus, which is at first partial, and by degrees becomes univerfal.

COAGULUM ALUMINOSUM. ALUM CURD. Lond.

Take

Any quantity of the white of eggs;

Agitate it with a fufficiently large lump of alum, in a tin difh, until it is coagulated.

This preparation is taken from Riverius. It is an ufeful aftringent epithem for fore moist eyes, and excellently cools and represses thin defluxions. It may be applied upon a little tow, or the like, at bed



FART

ART

Extemporaneous prescriptions.

SECT. I.

POWDERS.

of being sufficiently dried to become pulverable, without the lofs for inflance; for from thin ones, of their virtues. There are many fubitances, however, of this kind, which cannot be conveniently exhibited in powder; bitter, acrid, fetid drugs, are too disagreeable; emollient and mucilaginous herbs and roots are too bulky, pure gums cohere, and become tenacious in the mouth; fixt alcaline falts liquefy upon exposing the composition to the air; and volatile alcalies ex-

The dose of powders is generally about half a dram : it rarely exceeds a whole dram; and is not often less than a scruple. Subfrances which produce powerful effects in fmaller doses are not trusted to this form, unless their bulk is increased by additions of lefs efficacy: those which require to be given in larger ones, are better fitted for other forms.

The usual vehicle for taking the lighter powders in, is any agreeable thin liquid. The ponderous

HIS form receives such ma- powders, particularly those preparterials only, as are capable ed from metallic substances, require a more confident vehicle, fyrups they foon feparate and fablide. Refinous fubflances likewife are most commodiously taken in thick liquors: in thin ones, they are apt to run into lumps, which are not eafily again diffoluble.

> PULVIS ALEXIPHARMACUS. Alexipharmac powder.

Take of

Contrayerva root, ten grains; Virginian fnake root, Saffron, each five grains. Make them into a powder.

Or

Take of

Virginian fnake root, ten grains; Nitre, fix grains;

Camphor, three grains. Make them into a powder.

These powders are designed to be given in low, depressed fevers: in which cases medicines of this kind are generally prescribed, for keeping up the vis vitæ, railing the pulle, and promoting a general diaphorefis.

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The quantities above diphorefis. rected, are intended for one dose, which may be repeated every fix hours, or oftner, according to the urgency of the fymptoms.

PULVIS ANTHELMINTICUS. Anthelmintic powder,

Tin reduced into fine powder, one feruple;

Ethiops mineral, ten grains; Fine fugar, fix grains.

Mix them well together.

This powder is a very effectual remedy for worms in children; hardly ever failing to destroy them in a few days. It is to be taken every morning, in a little fyrup or common treacle; and a cathartic given after the third or fourth dofe.

> PULVIS ASTRINGENS. Aftringent powder.

Take of

Roch alum,

Nutmegs, each one fcruple, Make them into a powder.

This powder is a very flrong astringent; and as such may be depended on in intestinal, or other fluxes, where the only indication is to check the evacuation. It has been given likewise in intermittent fevers; but in these cases, though it fometimes proves faccefsful, it has too frequently been injurious.

> PULVIS BALSAMICUS. Balfamic powder.

Take of

Balfam of Tolu,

Benzoine, each half a feruple; Fine fugar, one fcruple.

Grind them together into a powder. This is a healing, pectoral medicine, of good fervice in tickling coughs, and fharp defluxions on the lungs: the quantity here prescribell may be taken two or three times a day.

Pulvis Catharticus. Cathartic powder.

Take of

Extract of jalap,

Scammony, each fix grains; Crabs eyes prepared, half a fcruple :

Fine fugar, one fcruple. Let these ingredients, separately powdered, be well mixed and

triturated together.

This powder is a fafe and fufficiently mild purgative, not dif-agreeable to the palate or flomach. The trituration ought to be continued for a confiderable time, in order to perfectly mingle the cathartic ingredients with the crabs eyes and fugar, which by dividing their refinous texture, prevent their adhering to the intestines and occafioning gripes.

PULVIS CATHARTICUS SALINUS. Saline cathartic ponuder.

Take of

Vitriolated tartar,

Cryftals of tartar,

Sal polychrest, each half a dram. Make them into a powder.

This is an excellent cathartic in fcorbutic diforders, and a vifcid impure state of the blood and juices. It is most commodiously taken in whey; which should likewise be drank, to the quantity of a pint or more, during the operation.

> PULVIS CARMINATIVUS. Carminative powder.

Take of

Anifeed,

Sweet fennel feed, each two fcru-

ples;

Ginger, one fcruple; Nutmegs, half a scruple; Fine fugar, half a dram.

Reduce them into a powder, for four dofes.

This powder is of good fervice for expelling flatulencies arifing from PULVIS DIURETICUS. Diuretic powder.

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Sal prunell, ten grains; Salt of amber, four grains; Oil of turpentine, three drops; Fine fugar, one scruple.

Drop the oil upon the fugar, then add the falts, and grind the whole

together.

This powder is a very efficacious diuretic, and may be given to great advantage in cases where the affistance of fuch forcing medicines is required. The falts prevent any ill effects from the stimulating oil, and at the fame time cool and relax the passages.

PULVIS EMMENAGOGUS. Emmenagogue powder. Take of Salt of steel, Myrrh, each eight grains; Saffron, five grains; Oil of favin, one drop;

Fine fugar, half a scruple. Having mixed the oil with the fugar, and beat the other ingredients by themselves, let the whole be well mixed together. Or,

Take of

Black hellebore root, ten grains; Salt of amber, fix grains; Saffron, five grains; Make them into a powder.

In obstructions and suppressions powders fcarce ever fail of taking due effect. The first succeeds in be given once or twice a day, in a

from indigestion, particularly those little penny royal water, or a glass

PULVIS ROBORANS. Strengthening powder.

Take of Extract of Peruvian bark, twelve

Salt of steel, eight grains; Oil of cinnamon, one drop; Fine fugar, half a dram.

Having mixed he oil with the fugar, add the other ingredients, and grind the whole well together, for two dofes.

This medicine has a much better title to the appellation of a strengthner than those usually met with under that name in dispensatories.

In lax habits, debilities of the nervous fystem, the weaknesses peculiar to either fex, it has excellent

effects.

PULVIS SOLUTIVUS. Laxative powder.

Take of

Sena, twenty-five grains; Vitriolated tartar, five grains. Reduce them into powder.

This gentle laxative may be ufefully taken in costive habits, and occasionally repeated.

> PULVIS ad STRUMAS! Powder against the evil.

Take of

Burnt sponge, one scruple; Nitre.

Coralline,

Fine fugar, each half a scruple.

Reduce them into powder.

In scrophulus disorders and obstructions of the glands, this medicine is generally of good fervice: of the uterine discharges, these it opens and deterges the minute vessels, and carries off the offending matter by urine. Dr. Mead pale, emaciated habits; the fecond informs us, in his Monita medica, in full plethoric ones. They may that he has very frequently expeinforms us, in his Monita medica, rienced its good effects: he used to L14

give the quantity above prescribed patient was much emaciated, the glaffes of the less compounded lime quantity of milk, water along with each dole: if the

twice a day, with three or four lime water was mixed with an equal

SECT. II. ELECTARIES.

Lectaries are composed chiefly lages than with either fyrups, honey fyrups, &c. into fuch a confiftence, that the powders may not separate in keeping, that a dose may be eafily taken up on the point of a knife, and not prove too stiff to fwallow.

Electaries receive chiefly the milder alterative medicines, and fuch as are not ungrateful to the palate. The more powerful drugs, as cathartics, emetics, opiates, and the like, are not trufted in this form, on account of the uncertainty of the dofe; difguftful ones. acrids, bitters, fetids, cannot be conveniently taken in it; nor is the form of an electary well fitted for the more ponderous fubiliances, as mercurials, thefe being apt to fubfide in keeping, unless the composition is made too fliff.

The lighter powders require thrice their weight of honey, or fyrup boiled to the thick ness of honey, to make them into the confidence of an electary; of fyrups of the common confidence, twice the weight of the powders is fufficient.

Where the common fyrups are employed, it is necessary to add likewise a little conserve, to prevent the compound from drying too foon. Electaries of Peruvian bark for inflance, made up with fyrup alone, will often in a days time grow too dry for taking.

Some powders, especially those of the less grateful kind, are more conveniently made up with muci-

of powders mixed up with or conserve. The three latter flick about the mouth and fauces, and thus occasion the taste of the medicine to remain for a confiderable time; whilst mucilages pass freely, without leaving any tafte in the mouth. A little foft extract of liquorice, joined to the mucilage, renders the composition sufficiently grateful, without the inconveniencies of the more adhesive sweets.

The quantity of an electary prefcribed at a time, is rarely lefs than an ounce, or more than three ounces.

ELECTARIUM ALEXETERIUM. Alexeterial electary.

Take of

Confection of kermes, one dram ;

Candied ginger, fix drams: Contrayerva root,

Virginian fnakeroot, each one dram ;

Syrup of orange peel, as much as is fufficient to make the other ingredients into the confiftence of an electary.

This is a moderately warm electary, contrived by Boerhaave for raising and recruiting the strength in low fevers, where the pulse is funk, and the patient languid and dejected. It may be taken to the quantity of half a dram every four or five hours, with any proper julep.

> ELECTARIUM ANTEPILEPTICUM.

> > Antes

Antepileptic electary.

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OF

Peruvian bark, one ounce; Wild valerian root, two drams; Syrup of orange peel, a fufficient quantity to reduce the others

into an electary.

This medicine has been frequently prescribed by Dr. Mead, in epileptic cases, with good success. One dram is to be taken every morning and evening, for three months together; after which, to consirm the cure and prevent a relapse, the same dose is to be repeated for three or four days before every new and full moon for a considerable time.

ELECTARIUM
ANTIDYSENTERICUM.
Antidysenteric electary.

Take of

Yellow wax, three drams; Sperma ceti, two drams;

Conferve of red rofes, an ounce and a half:

Oil of almonds, half an ounce; Balfamic fyrup, a fufficient quan-

Let the wax and sperma ceti be melted in the oil, over a gentle fire, and then mixed with the

conferve and fyrup.

Where sharp irritating humours have eroded the intestines, and laid open the mouths of the blood veffels, this soft, healing electary is one of the most effectual remedies. Fluxes of long standing, which had been contracted in the Indies, and had yielded nothing to medicines of the restringent kind, have been removed by this, which supplies the natural mucus of the bowels that the stury has carried off, heals the excoriations, and obtunds the acrimonious humours.

ELECTARIUM ALTERANS.

Alterative electary.

Take of

Crude antimony, finely levigat-

Refin of guaiacum, two drams; Oil of faffafras, fix drops;

Conferve of red rofes, one ounce and a half;

Balfamic fyrup, as much as is fuf-

Grind the refin and the levigated antimony well together; and having mixed these with the oil (dropt on a little sugar) and the conferve, let the whole be softened with the syrup into a due confishence.

This is as effectual a medicine as can well be contrived in this form, against cutaneous foulnesses, obftructions of the glands, and impurities of the blood and juices. Difpenfatory writers in general, lay the principal stress, in compositions of this kind, upon the calx, ceruffe, or cinnabar of antimony, preparations which are far inferior to the crude mineral, and very ill deferve the great character which has been usually given of them. The bulk of a nutmeg of this electary may be taken every morning and evening. with a little lime water, or any proper medicated ale.

ELECTARIUM AROMATICUM.

Aromatic electary.

Take of

The aromatic species, one dram and a half;

Conferve of lavender, two ounces. Syrup of orange peel, a fufficient quantity.

Make them into an electary.

This warm, cordial medicine is of good use in nervous complaints and decays of constitution. The bulk of a small nutmeg may be taken two or three times a-day, with a glass of wine, or any other proper liquor, after it.

ELEC-

ELECTARIUM BALSAMICUM.

Balfamic electary.

Take of

Locatelli's balfam, two ounces; Conferve of red rofes, three ounces;

Balfamic fyrup, as much as is fufficient to make them into

an electary.

This composition is looked upon as a good internal vulnerary, and recommended in such coughs as give sufficient of tubercles and ulcerations of the lungs. The dose is half a dram, which is to be occasionally repeated according to the urgency of the symptoms. Balsam of sulphur, where its affistance is thought necessary, may be added, in the proportion of half an ounce to the quantity of electary above directed.

ELECTARIUM DEOBSTRUENS.

Deobstruent electary.

Take of

Gum ammoniacum, Hard foap, each one dram; Powder'd fquills, one fcruple; Conferve of orange peel, half an ounce;

Syrup of ginger, as much as is fufficient to reduce the other ingredients into the confiftence

of an electary.

Where the breaft is oppressed by thick phlegm, or the viscera obstructed, this electary, taken twice or thrice a day in the quantity of a nutmeg at a time, is of singular fervice: it dissolves and attenuates the viscid humours, opens the small vessels, and promotes all the natural secretions.

ELECTARIUM CHALYBEATUM.

Chalybeat electary.

Take of

Salt of fleel, two drams; Candied nutmegs, Candied ginger, each half an ounce;

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Oil of cinnamon, five drops; Conferve of orange peel, one ounce;

Balfamic fyrup, as much as is fufficient to make them into

an electary.

This electary is calculated for warming and invigorating the habit, restoring a due tone and elasticity to the vessels, and promoting the circulation when weak and languid. In phlegmatic persons, of a pale complexion, it is an excellent strengthener and restorative; but ought never to be used in fanguine constitutions, where the vessels are full and distended. The dose is about the bulk of a nutmeg, twice a day: moderate exercise ought to accompany its use.

ELECTARIUM EMMENAGOGUM.

Emmenagogue electary.

Take of

Salt of steel, two drams; Saffron, half a dram; Conserve of wood forrel, two

ounces;

Syrup of lemon juice, as much as is sufficient to make them into an electary.

Or,

Take of

Black hellebore, three drams; Myrrh, two drams;

Conferve of fcurvy grafs, two ounces;

Syrup of ginger, a sufficient quantity to reduce them into an electary.

Both these compositions are very effectual in chlorotic disorders, and suppressions of the uterine discharges. Their different uses may be underflood from what has been said already of the virtues of steel and hellebore. The dose is the quantity of a small nutmeg, which is

to be taken twice a day, with moderate exercise.

ELECTARIUM INCRASSANS. Incrassating electary.

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Gum tragacanth,

Pulp of fresh comfry root, each one ounce;

Conferve of mallows, half an ounce;

Syrup of marshmallows, as much as is fufficient to reduce the whole into the confiftence of an electary.

This electary, taken to the quantity of a chefnut, three or four times a day, along with a milk diet, incrassates thin serous humours, obtunds their acrimony and irritating quality, and checks the immoderate heat and motion of the blood: these properties render it highly beneficial in hectic diforders, in coughs proceeding from thin tickling rheums, in fluxes and heat of urine, where the natural mucus of the parts is abraded.

> ELECTARIUM PECTORALE. Pettoral electary.

Take of

Starch, fix drams; Powdered liquorice, four drams; Florence orris root, two drams; Conserve of red roses, half an

ounce; Oil of anifeed, ten drops; Balfamic fyrup, as much as is fufficient to make the whole into an electary.

This electary is calculated not only for fheathing acrimonious humors, but likewife for strengthing the pulmonary veffels, and promoting the expectoration of fuch phlegm as, without some affiftance of this kind, could not easily be voided. It may be taken occasionally, to the bulk of a nutmeg at a time.

ELECTARIUM PARALYTICUM. Paralytic electary.

Take of

Mustard feed,

Conserve of rosemary tops, each one ounce;

Compound spirit of lavender. two drams.

Beat the mustard feed with a little water, that the pulp may be pressed through a hair sieve; then mix with it the conferve and the fpirit.

This is a very efficacious medicine for paralytic diforders, tremors and numbness of the limbs, the decays accompanying old age, and in all cases where the folids require to be stimulated, or sluggish stagnant juices to be put in motion. It ought to be taken every morning and evening, or oftner, to the bulk of a large nutmeg; with a glass of rich wine, or any proper julep, af-

> ELECTARIUM PERUVIANUM. Peruvian electary.

Take of

Extract of Peruvian bark, one ounce ;

Extract of logwood,

Extract of liquorice, each half an ounce;

Mucilage of quince feeds, as much as is fufficient to reduce the other ingredients into the confistence of an electary.

This is a very agreeable form for the exhibition of Peruvian bark to those who are more than ordinarily offended with its tafte; the fubflances here joined effectually covering its tafte, at the fame time that they coincide with it in virtue. The composition is a very elegant and pleafant one, and well deferves a place in the shops: it may either be given in the form of a bolus or electary, in the dose of a dram

dram or more; or diffolved in any fuitable liquor into a draught.

> ELECTARIUM PURGANS. ACIDUM.

An acid, purgative electary. Take of

Pulp of tamarinds, two ounces; Crystals of tartar, two drams. Make them into an electary.

This is an excellent, mild, cooling laxative in hot bilious dispositions, or inflammatory difeases. The bulk of a nutmeg may be taken every hour, or oftner, till it begins to operate, or the fame quantity may be taken once a day occasionally in dry coffive habits.

ELECTARIUM REFRIGERANS.

Cooling electary.

Take of

Conferve of wood forrel, one ounce :

Pulp of tamarinds, half an ounce; Weak spirit of vitriol, as much as is sufficient to give a grateful acidity.

Syrup of lemon juice, as much as will reduce the whole into the confiftence of a foft elec-

tary.

In hot, febrile, or inflammatory distempers, when the mouth and fauces are dry and parched, the bulk of a filberd of this electary, taken occasionally, and kept in the mouth till it dissolves, will excellently cool and moisten them.

SECT. III.

OLUSE S.

Oluses differ little in confistence from electaries, being only fomewhat fliffer, fo as to retain their figure without spreading or falling flat.

This form is very convenient for the exhibition of the more powerful medicines, which require their dose to be exactly adjusted, as the stronger alexipharmacs, cathartics, and opiates. As bolufes are chiefly intended for immediate use; volatile falts, and other materials, which, if the mass was to be kept, would exhale or fwell it, are frequently admitted into them.

The quantity of a bolus ought not to exceed two drams: if the ingredients are of the lighter kind, even this will be too bulky to be commodioufly fwallowed down.

The lighter powders are made up with fyrup : half a dram of the powder, that of bark for inflance, with as must fyrup as will bring it to a due confiftence, makes a bolus fufficiently large.

The more ponderous powders, as the mercurial ones, are best made up with conferve; fyrups, or other substances less consistent, scarce holding them together.

The testaceous powders also require an addition of conferve: tho' if made up with this alone, they would be too bulky. A fcruple of the powder, and an equal weight of conserve, with as much fyrup as will reduce them to a due confiftence, form a bolus of a proper

Bolus ALEXIPHARMACUS. Alexipharmac bolus.

Compound powder of contraverva, half a fcruple;

Syrup of wild poppies, a fufficient quantity to make it into a bolus.

Take of 2. Contrayerva root, half a fcruple; Syrup

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Syrup of faffron, as much as is fufficient.

Make them into a bolus.

Take of 3.
Virginian fnake root, fifteen grains;
Confection of kermes, as much as is fufficient

Mix and make them into a bolus.

Take of
Virginian fnake root,
Contrayerva root, each eight
grains;
Saffron, three grains;
Syrup of meconium, a fufficient
quantity to reduce them into a

Take of
Camphor,
Saffron, each five grains;
Confection of kermes, as much
as will reduce them into a due
confidence.

Take of
Camphor,
Nitre, each fifteen grains;
Syrup of clove-july flowers, as
much as will make them into
a bolus.

Take of 7.
Musk,
The cordial confection, each twelve grains;
Make them into a bolus.

Take of 8.

Musk,
Salt of hartshorn, each ten grains;
Camphor six grains;
Syrup of saffron, a sufficient
quantity.

Make them into a bolus.

This elegant fet of alexipharmacs contains compositions of different degrees of strength, according to

their order, from the weakest that has any considerable effect at all, to the strongest that can be ventured on. The two last are medicines of great power, and have sometimes taken place even in the last stage of malignant severs, after hiccups, convulsions, and twitchings of the tendons had come on.

Bolus Catharticus.

Purgative bolus.

Take of

Rhubarb, half a dram;

Solutive fyrup of rofes, a fufficient quantity to make a bolus.

Take of 2.
Jalap, half a dram;
Syrup of buckthorn, as much as is sufficient to make a bolus.

Take of
Scammony, twelve grains;
Soluble tartar, one fcruple;
Soft extract of liquorice, a fufficient quantity.
Let the fcammony be well ground

Let the fcammony be well ground with the foluble tartar, then add the extract, and make them into a bolus.

Take of
Jalap, one scruple;
Scammony,
Crabs eyes, each half a scruple;
Syrup of buckthorn, a sufficient
quantity.

Let the jalap, feammony, and crabs eyes be well triturated together, and then formed into a bolus with the fyrup.

Take of 5.
Elaterium, two grains;
Extract of jalap, half a fcruple;
Crystals of tartar, half a dram;
Syrup of orange peel, a sufficient
quantity to make them into
a bolus.

The

a mild cathartic : the fecond and third are ftrong ones; and the two last violent.

Bolus CATHARTICUS CUM MERCURIO.

Purgative bolus with mercury. Take of

Jalap, one fcruple : Mercurius dulcis, five grains; as is fufficient to make them into a bolus.

Take of Gamboge, Mercurius dulcis, Aromatic species, each half a scruple : Syrup of buckthorn, a sufficient

quantity to make a bolus. The first of these compositions is a fafe and mild cathartic; the fe-

> BOLUS DIURETICUS. Diuretic bolus.

cond is confiderably ftronger.

Take of Fresh squills, fix grains; Compound powder of arum, ten grains; Ginger, five grains; Syrup of orange peel, a fufficient quantity. Make them into a bolus.

Take of Cantharides, four grains; Thebaic extract, half a grain; Nitre, one scruple; Balfamic fyrup, a fufficient quantity. Make them into a bolus.

The first of these compositions is recommended by Dr. Mead, to be taken every morning, in hydropic cases, for promoting urine. He observes, that in these disorders diu-

The first of these compositions is retic medicines vary greatly in their effects, those, which answer sufficiently in one person, failing in another; and that the fquill and its preparations are of all others those which most generally succeed.

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The virtues of the fecond may be understood from what has been already faid of cantharides, in page 105. The ingredients here joined to the fly are those which have Solutive fyrup of rofes, as much been found the most effectually to abate its virulence.

> BOLUS AD DYSENTERIAM. Bolus against the dysentery. Take of The cordial confection, French bole, each one scruple : Thebaic extract, one grain.

Make them into a bolus. This composition is excellently well calculated for the purpose expressed in its title. Dr Mead affures us, that he has never found any one medicine more effectual, either for restraining the flux, or healing the exulcerated membranes.

> BOLUS EMETICUS. Emetic bolus.

Take of Ipecacoanha, one scruple; Syrup of fugar, a fufficient quantity to make a bolus.

Take of White vitriol, twenty five grains : Conferve of roles, as much as will make it into a bolus.

Take of White vitriol, one scruple; Emetic tartar, two grains; Conferve of hips, as much as will make them into a bolus.

The first of these boluses is a very mild emetic: the two others are fironger, and quicker in operation.

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Bolus Emmenagogue bolus.

Take of

Socotorine aloes, eight grains;
Saffron, four grains;
Guinea pepper, two grains;
Oil of favin, two drops;
Conferve of rue, as much as is fufficient to reduce them into a due confidence.

Take of 2.
Salt of fteel, fix grains;
Myrrh, half a fcruple;
Cordial confection, fifteen grains;
Make them into a bolus.

Take of

Black hellebore root, eight grains;

Fresh squills, four grains;

Effential oil of pepper-mint, one

Conferve of orange peel, as much as is sufficient to make them into a bolus.

All these are medicines of great power for promoting or exciting the menstrual flux, and other evacuations from the uterus. The two sirst are calculated for lax, phlegmatic habits; the third, for perfons of a sanguine temperament.

Bolus Febrifugus.

Febrifuge bolus.

Take of
Peruvian bark, one scruple;
Cascarilla, half a scruple;
Mucilage of quince seed, a sufficient quantity to make them

into a bolus.

This elegant composition is excellently well adapted to the cure of intermittent fevers; and may be given in cases where the Peruvian bark by itself would be less proper. Where aromatics, chalybeats, bitters, &c. are also requisite, they are either to be premised, or occafionally interposed. See page 416. Bolus Hystericus.

Hysteric bolus.

Take of
Musk,
Asafætida, each fix grains;
Castor, half a scruple;
Syrup of saffron, as much as is
fusficient to make them into a

This medicine is a very well contrived one for the purpole expressed in its title. It is of great service both in hysterical and hypochondriacal disorders; and gives relief in the depressions, faintings, flatulent colics, head achs, and other symptoms attending them. It may be taken twice a day, along with any suitable liquor.

Bolus ILIACUS.

Iliac bolus.

Take of
Cathartic extract, one fcruple;
Thebaic extract, one grain;
Make them into a bolus,

This bolus is prescribed by Dr. Mead, for easing the pain, and procuring stools, in the iliac passion, and dry belly ache; where the irritating cathartics, exhibited by themselves, are thrown up by vomit. The use of this medicine is to be preceded by plentiful bleeding, and accompanied with purgative glysters of the more acrid kind; and its operation promoted by infusion of sena, mixed with a little of the elixir salutis, or tincture of sena.

Bolus of ipecacoanha.

Take of
Ipecacoanha, four grains;
Aromatic species, fifteen grains;
Syrup of orange peel, a sufficient
quantity to make them into a
bolus.

Ipecacoanha, thus exhibited in fmall

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fmall doses, from an emetic, becomes a powerful alterative, of great fervice in obstructions of the viscera, and generally more effectual in the cure of dyfenteries, than when given in fuch dofes as to excite vomiting.

> BOLUS RHEUMATICUS. Rheumatic bolus.

Take of

Extract of guaiacum, ten grains; Mercurius dulcis, one grain; Oil of turpentine, one drop; Confectio cardiaca, fifteen grains;

Make them into a bolus

This medicine is of fingular efficacy in rheumatifms, and old pains and aches of the limbs. Exciting a gentle diaphorefis is a mark of its taking due effect; to promote which, the patient ought to keep warm, and drink fuitable warm liquors.

Bolus scilliticus.

Take of

Fresh squills, one scruple; Aromatic species, half a scruple; Oil of pepper-mint, one drop. Beat them well together into a uniform mals, of a due consistence for a bolus.

This is a warm, stimulating, and attenuating medicine; and may be given to great advantage in all cases where the natural fecretions are obftructed or suppressed from a viscidity or fluggiffiness of the juices. The efficacy of the fquills is promoted by the additional ingredients. which at the fame time warm and strengthen the stomach and inteltines, and prevent the composition from being thrown up by vomit, which this quantity of fquills, given by itself, would in many constitutions be.

> Bolus suporificus. Sudorific bolus.

Take of

Camphor, ten grains; Thebaic extract one grain; Syrup of orange peel, a fufficient quantity to reduce them into a

This medicine is one of the most effectual and certain fudorifics, scarce ever failing to excite a copious fweat. In all cafes, where this intention is to be answered, whether acute or chronical, it may be given to great advantage.

BOLUS TEREBINTHINATUS. Turpentine bolus.

Take of

Chio turpentine, one dram; Powdered liquorice, a sufficient quantity.

SECT. IV.

PILLS.

O this form are peculiarly ad- in the stomach, and produce the apted those drugs which operate in a fmull dose; and whose nauseous and offensive taste or fmell require them to be concealed from the palate, left they should procure unwished for effects rather than fa-

most gradual and lasting effects, of all the internal forms. This is in fome cases of great advantage; in others it is a quality not at all defirable, and fometimes may even be of dangerous confequence, particularly with regard to emetics, Pills diffolve the most difficultly which if they pais the stomach un-

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Pills.

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diffolved, and afterwards exert themselves in the intestines, operate as violent cathartics. Hence emetics ate, among us, scarce ever exhibited in pills, upon account of the slowness of solution. Hence we are directed to add to the resinous and difficultly soluble substances, saponaceous ones, in order to promote their solution, and prevent their passing off without any sensible effect.

Gummy - refins and infpissated juices, are sometimes soft enough to be made into pills, without addition: where any moisture is requisite, spirit of wine is more proper than syrups, conserves, or the like; as it unites more readily with them, and does not sensibly increase their bulk. Light, dry powders require syrup, or mucilages; and the more ponderous, as the mercurial and other metallic preparations, thick honey, conserve or extracts.

Light powders require about half their weight of fyrup; of honey, about three fourths their weight, to reduce them into a due confiftence for forming pills. Half a dram of the mass will make five or fix pills of a moderate fize.

PILULÆ ALEXETERIÆ.

Alexetereal pills.

Take of 1. Virginian fnakeroot,

Contrayerva root, each one fcru-

Syrup of faffron, as much as is fufficient to reduce them into a mass of a due considence for being formed into pills.

Take of 2.

Flowers of benzoine, each one ferople;

Balfam of Peru, a fufficient quantity to reduce them into a proper confidence for pills.

Though the form of pills is in

general an incommodious one for fubfiances of the alexipharmac kind; yet where the patient is prejudiced against other forms, either of these compositions may be had recourse to, without any fear of their failing in the effects usually produced by medicines of this class. The quantity of each, here prescribed, may be made into twelve pills; which are to be taken at two or three doses, at the interval of fix or eight hours, or less, according to the exigence of the case.

PILULÆ ANTIFEBRILES.

Antifebrile pills.

Take of Myrrh, three ounces;

Venice foap, four drams; Turpentine, one dram.

Mix, and make them into pills of three grains each.

This is an excellent medicine for obstructions of the viscera, indigestion, and other disorders proceeding from the pramature stopping of intermittent fevers by Peruvian bark: Boerhaave frequently prescribed it in these cases, with extraordinary success. Five pills are to be taken for a dose, three times a day, about an hour before meals, for a fortnight.

PILULÆ ASTHMATICÆ.

Afthmatic pills.

Take of 1. Squills, dried and powdered, one

fcruple; Gum ammoniacum, two fcruples; Balfam of fulphur, as much as is

Balfam of fulphur, as much as is fufficient to make them into a mass:

Take of 2.
Strained storax, two scruples;
Flowers of sulphur, washed,
Flowers of benzoine, each or

Flowers of benzoine, each one fcruple:

Balfamic fyrup, a fufficient quantity to reduce them into a mass.

M m Take

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Take of

Socotorine aloes,
Saffron, each two fcruples;
Thebaic extract, fix grains;
Balfam of Peru, as much as will
reduce them into a due confiftence.

Take of
Thebaic extract, one grain;
Extract of faffron, four grains.
Make them into a mass.

The three first of these compositions may be formed into twentyfour pills each ; four of which are a moderate dose; the fourth may be made into one or two pills, for a fingle dofe. They are all medicines of great efficacy in old coughs and afthmas, either for preventing defluxions of thin rheum upon the breaft and lungs, attenuating and promoting the expectoration of thick tenacious matter, or relaxing and opening the passages, so as to give a greater liberty of breathing. The particular cases in which each of these medicines is proper, may be eafily understood from confulting their respective ingredients, in the first part of this work.

PILULE CATHARTICE. Cathartic pills.

Take of

Socotorine aloes, one dram;
Aromatic species, half a dram;
Scammony, one scraple;
Soft extract of liquorice, as much
as is sufficient to reduce them
into a mass of a due consist-

This composition is a warm purgative, and may be usefully taken in any cases where medicines of that class are indicated; whether for removing the crudities, &c. after a surfeit or debauch; or preventing arthritic, and other diseases frequent among those who live high. The quantity here prescribed, may be made into thirty pills; of which five or fix are to be taken for a dofe.

PILULÆ DIURETICÆ.

Diuretic pills.

1.

Take of 1.
Venice foap, two drams;
Salt of amber,
Nitre, each half a dram;
Oil of juniper berries, ten drops.
Beat them into a mass.

Take of 2.
Cantharides in fine powder, fixteen grains;
Thebaic extract, four grains;
Nitre, one dram;

Venice turpentine, as much as will make them into a mass.

In obfinate obfiructions of the urinary passages, where softening and diluting liquors, and the milder acrid medicines, prove ineffectual; recourse may be had to these powerful stimulants. The quantity of each, directed above, may be made into forty pills; of which sive are a sufficient dose; but the utmost caution is requisite in exhibiting the latter. See page 105.

Pills against the dysenters.

Take of

Yellow wax, half an ounce; Sperma ceti,

Japan earth, each one dram; Oil of cinnamon, twelve drops. Make them into a mass

This is a very effectual medicine for the purpose expressed in its title; at the same time strengthening the intestines, and covering them with a fost mucus, which defends them from being irritated by the acrimony of the humors. Each half dram of the mass may be formed into sive or six pills for one dose,

PILULE HYSTERIGE. Hyferic

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Hysteric pills.

Take of Asa fœtida, one dram; Martial flowers, half a dram; Oil of amber, eight drops; Balfam of Peru, a fufficient quantity to reduce them into a mass.

Take of z.
Afa fœtida, Gum ammoniacum, Myrrh, Aloes, Rust of steel prepared, Extract of gentian, each one Make them into pills. fcruple:

Syrup of ginger, as much as will make the other ingredients into a mass.

Take of Galbanum, one dram; Salt of steel, half a dram; Afa fœtida, Aromatic species, each one scru-Tincture of myrrh, as much as

will make them into a mass. Hyfterical diforders, and hypochondriacal ones, which bear a near affinity to them, though very obstinate and of long duration, will often yield to the continued use of either of these medicines. Each mass is to be made into twentyfour pills, three or four of which may be taken for a dofe, twice or thrice a day.

PILULE ICTERICE. Leteric pills. Take of hos gov, home ada, Venice foap, half an ounce; Oil of anifeeds, fifteen drops. Make them into pills.

Take of 12 1022 down bound Venice foap, half an ounce; Fresh squills, one dram; Saffron, half a dram;

Make them into pills;

Take of Venice foap, two drams; Powdered rhubarb, two fcrua Extract of faffron, one fcruple, Make them into pills,

Take of Venice foap, two drams Saffron, Salt of steel. Salt of amber, each one scruple ? Oil of juniper berries, ten drops,

These compositions are excellently well adapted to the cure of icterical diforders: they prevail even in very obstinate and inveterate jaundices; provided their use is duly continued, and properly affifted by bitter infusions and aperient apozems. Every half dram may be made into five or fix pills for one dose, which is to be repeated two or three times a day.

> PILULÆ MERCURIALES! Mercurial pills. 1.

Take of Crude quickfilver, Hard extract of guaiacum, each one dram and a half; Effential oil of faffafras, twenty drops;

Turpentine, a sufficient quantity. Grind the quickfilver with the turpentine, till they are perfectly incorporated: then add the other ingredients, and reduce the whole into an uniform mass; which is to be made into forty pills. Two, three, or more of these may be taken for a dofe.

Take of Mercurius dulcis, half a scruple; Softer extract of guaiacum, one dram; Essential oil of sassafras, ten drops. M m 2 Mix

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Mix, and make them into a mass. for twenty pills; the dose of which is from one to fix.

Take of Mercurius dulcis, half a fcruple : Camphor, half a dram;

Soft extract of guaiacum, as much as is fufficient to make them into a mass, which is to be formed into twenty pills: the dose is from one to fix.

ake of Mercurius dulcis, half a fcruple; Venice turpentine, as much as will reduce it into a mafs of a proper confiftence; which is to be formed into five pills, for as many dofes.

Take of 5. Calcined mercury, commonly called præcipitate per fe.

Thebaic extract, each two grains; Balfam of Peru, as much as will make them into a mass; which is to be formed into two pills, for two dofes.

Take of Mercurius dulcis, half a scruple; Crude antimony, finely levigated, one dram;

Balfam of Peru, as much as will reduce them into a mass.

This is to be formed into ten pills; of which the dose is from one to three.

Take of Mercurius dulcis, Precipitated fulphur of antimony, each five grains;

Socotorine aloes, fifteen grains; Balfamic fyrup, a fufficient quantity to reduce them into a mass; which is to be made into five pills, for as many

medicines have already been fufficiently explained in the two foregoing parts. The above compositions are the most certain and efficacious (and at the fame time the fafest) of all the mercurials we have met with; and take place in very obstinate cases, whether scrophulous, leprous, or venereal: fome of thefe are the fecrets of celebrated empyrics, now first revealed to the public; with which they have performed cures, in vain expected from other remedies.

The method of managing the above mercurial medicines, as alteratives, to the greatest advantage, is to give fmall doses every morning and evening; and rather prolong the time of continuing their use than increase the dose. The patient ought to keep warm, and drink of warm diaphoretic liquors, as infusion of fassafras, decoction of the woods, the fimple or compound lime waters, or the like; there are nevertheless many examples (several within our own knowledge) of inveterate cutaneous and venereal difeafes being cured by them, where no fuch regimen was observed.

> PILULÆ ROBORANTES. Strengthening pills.

Take of Hard extract of Peruvian bark. one dram;

Salt of steel, one scruple; Oil of cinnamon, five drops; Balfam of Peru, as much as will reduce them into a mass.

In a lax flate of the fibres, debilities of the nervous fystem, and fome decays of constitution; this composition is a most effectual strengthener and restorative: it fometimes takes place in obstinate female fluors, and inveterate gleets of the other fex, which elude the force of the common remedies. If The general virtues of mercurial the quantity above prescribed is made Sect. 5.

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made into twenty pills, four of these may be taken for a dose, and repeated twice a day.

PILULÆ e SPERMATE CETI.

Sperma ceti pills.

Take of

Sperma ceti, one dram; White fugar candy in powder,

two drams;

Balfamic fyrup, as much as is

fufficient.

Grind the sperma ceti with the sugar, till they are perfectly mixed; then adding the syrup, rub them with a warm pessel into an uniform mass.

Where sperma ceti cannot be commodiously exhibited in any other form, three or four moderate fized pills made from this mass, may be taken two or three times a day. They stand recommended as excellent vulneraries, of great ser-

vice in internal bruifes, erofions of the vifcera, by thin acrimonious humors, injuries occasioned by delivery, pleurifies, tickling coughs, and other like diforders.

PILULÆ STOMACHICÆ.

Stomachic pills.

Take of

Aromatic species,

Extract of gentian, each one dram;

Extract of Peruvian bark, half a

Elixir of aloes, as much as will reduce them into a mass.

These pills are serviceable for warming and strengthening a weak cold stomach, expelling statulencies, and promoting digestion. If ten pills are made out of a dram of the mass, two may be taken thrice a day, about an hour before meals.

SECT. V.

TROCHES, and TABLETS or LOZENGES.

HESE are folid preparations, formed into little cakes, or masses of different figures; intended to dissolve flowly; and generally made agreeable to the palate. See page 460.

TABELLE ANTACIDE.

Antacid lozenges.

Take of

Prepared white chalk, four drams;

Candied ginger, three drams;

Cinnamon, one dram;

Fine fugar, diffolved in water, as much as is sufficient to reduce the whole into a due confishence for being formed into lozenges.

One or two lozenges from this composition may be taken at dif-

cretion, in that uneafy fenfation at the stomach called the heartburn, and other complaints arising from a preternatural acid in the first paffages.

TABELLÆ ANTHELMINTICÆ.

Anthelmintic fugar-cakes.

Take of 1.

Powdered tin, half a dram; Fine fugar, half an ounce; Rose water, a sufficient quantity to make them into a mass for

tablets.

Take of 2.

Scammony, Mercurius dulcis, each four grains;

Fine fugar, half an ounce; Rofe water, a fufficient quantity

to make them into tablets.

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These compositions are calculated for children, who are not easily prevailed on to take anthelmintic medicines in less agreeable forms. If the first is made use of, it must be repeated three or four mornings successively, after which a purge is to be taken: the second, if it requires repetition, is to be given only every other morning. The proportions of the ingredients are to be varied, according to the age and strength of the patient.

TROCHISCI NERVINI.

Nerve troches.

Take of

Compound spirit of lavender, fixty drops;

Oil of cinnamon,

Oil of rolemary, each four drops; Florence orrice root, two drams; Fine fugar, one ounce;

Mucilage of gum tragacanth, as much as will reduce them into a mass, which is to be formed into troches of about half a

scruple.

One or two of these troches, taken occasionally, and suffered to dissolve in the mouth, prove serviceable to those who are subject to headachs, vertigo's, paralytic, and other nervous disorders. Warm aromatic medicines, given in this form and manner, are supposed from their flow dissolution in the mouth, to affect the nervous system more immediately than if received at once into the stomach.

TABELLÆ PURGANTES.
Purging lozenges.

Take of

Jalap, three drams; Scammony, two drams; Calcined hartshorn, half an ounce;

Fresh orange peel, three drams; Fine sugar, eight ounces; Rose water, as much as will form them into lozenges.

This composition is an agreeable, and in some cases a very useful purgative. The dose, to children, is from half a dram to a dram or more; to adults, from one dram to five.

TROCHISCI SIALAGOGI.

Take of

Pellitory of Spain, half an ounce; Mastich, two drams;

Oil of cloves and marjoram, each one dram;

Yellow wax, a fufficient quantity. Make them into troches or pellets.

One of these troches is to be occasionally held in the mouth, and chewed, to promote a discharge of saliva; which they effect by warming and stimulating the salival glands.

TROCHISCI STOMACHICI.

Stomachic troches.

Take of

Hard extract of Peruvian bark,

Oil of cinnamon,

Oil of mint, each ten drops; Fine fugar, four ounces.

Make them into troches, with mucilage of gum tragacanth.

These troches are of service for warming and strengthening the stomach, expelling statulencies, and promoting digestion: for these purposes they are as effectual as any thing that can well be contrived in this form.

TROCHISCI SUAVEOLENTES.

Take of Strained florax, one fcruple;

Ambergris, fifteen grains; Musk, seven grains; Oil of cinnamon, six drops;

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ny in Decoctions, &c.

Fine fugar, one ounce. Make them into fmall troches with breath fmells difagreeably, from mucilage of gum Arabic, rotten teeth, or other causes.

These are of service where the

no made a common a training S E C T. VI.

LINCTUS'S.

Inctus's of londers, of different confiftences, but never fo thin as a fyrup, or fo thick as an

electary.

They are generally composed of expressed oils, mixed with fyrups, and other like fubstances. In making them, the fyrup is first to be mixed with a little fugar, and then is of the acid kind. Two ounces of fyrup, a dram of fugar, and an ounce of expressed oil, make a linetus of a due confistence; which may be made thicker at pleasure by adding more oil, or thinner by an increase of the fyrup.

Any oily fubstance, as Locatelli's balsam, sperma ceti, &c. may likewife be reduced into this form: and instead of fugar, powders more agreeable to the intention of emollients or pectorals, may be used;

Inctus's or lohochs, are foft as the compound powder of gum tragacanth, or the white or black bechie troches of the shops. But the form at best is very unlightly and difagreeable, and fubstances of this kind render it more fo.

The present practice has almost entirely rejected these inelegant compositions, and has very little dependance upon the extraordibrifkly beat up, in a mortar, with nary virtues formerly attributed to the oil; which will thus readily them in difeases of the breast and incorporate, especially if the fyrup lungs. Their real effects are, to foften and relax the folids; to obtund the acrimonious humours which by tickling and irritating the throat provoke coughing; and promote the expectoration (if an excretion from the throat or stomach may be fo called) of vifcid phlegm lodged there. It would be needless to infert any particular forms of thefe kinds of compositions here; as we have already given a fufficient variety in the foregoing part.

SECT. VII.

Decottions and infusions in water; medicated wheys, ales, wines; and tinctures in vinous spirits.

thefe forms are very numerous; greatest part of the simples of the vegetable kingdom, feveral of the animal, and some also of the mineral, giving out their virtues to one or other of the menstrua here

The advantages of these kinds of

HE substances reducible into preparations are sufficiently obvious; the medicinal parts of the fubject being here feparated from the earthy ones, which are at best uselefs, and to weak flomachs offen. five; and likewife enabled, b their being already diffolved, ty produce their effect more quicklo and with greater certainty: In

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medicine is likewise promoted by this management; the fluid which farther into the habit than it would be capable of paffing by itfelf.

Some substances yield their virtues only to aqueous liquors; others to spirituous ones; and not a few to both. For fimples of this last class, the indication of cure directs the choice of the menstruum: where large dilution is required, weak watery infusions or decoctions are to be used; where an additional warmth and pungency are proper, the spirituous tinctures.

Tod INFUSUM ALCALINUM. Alcaline infusion.

Take of

Salt of tartar, half an ounce; Saffron, half a dram; Liquorice root, two ounces: Water, three pints.

Let them fland together in a warm place for eight or ten hours, and then strain out the liquor for use.

This infusion is of service in a lentor or viscidity of the blood and juices, the consequence of an obftructed prespiration, and oftentimes the origin of inflammatory distempers: it attenuates thick humors, promotes perspiration, urine, and all the natural fecretions. It is to be taken warm, in little quantities at a time, but frequently repeated.

INFUSUM AMARUM. ods of Bitter infusion.

Take of

Carduus leaves, dried, one ounce;

Common water, twelve ounces; Spirituous orange peel water, four ounces.

Digest them without heat for fix hours, and then filter the liquor through paper.

This is an agreeable light bitter,

many cafes, the real efficacy of the fets easier upon the stomach than perhaps any other medicine, and confequently is of great fervice in cases it is combined with, carrying it where the groffer bitters would fet uneafy, or be rejected.

> THEA ANTIPHTHISICA. Antiphthilical tea.

Take of

Avens root, two ounces; Male speedwell. Ground-ivy, each one ounce and a half:

Liquorice, one ounce:

Sweet fennel feeds, three drams. These ingredients are to be cut. bruifed, and well mixed together: and half an ounce of the composition infused for a few minutes, in five or fix tea cups fell of boiling water. In confumptive cases and disorders of the breast, one cup of the infusion, with a tea spoonful of honey, may be drank every hour. After the same manner, medicated teas may be prepared from other vegetable substances, as chamemel flowers, linfeed, orange peel, fumitory, &c.

> APOZEMA APERIENS. Aperient apozem.

Take of

Rhubarb,

Madder, each three drams; Salt of tartar, two drams; Water, three pints.

Boil them together for an hour, and having strained out the decoction, add to it three ounces of fyrup of ginger.

This is a very powerful aperient and attenuating medicine, of great fervice in icterical and hydropic cases. The dose is three ounces, which may be repeated thrice a

DECOCTUM TERRÆ JAPONICÆ. Decoction of Japan earth.

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Japan earth, two drams; Spirituous cinnamon water, Syrup of quinces, each two ounces:

Common water, one pint.

Boil the common water with the
Japan earth, till about one fourth
of the liquor is wasted; then
fusser the decoction to settle,
and having poured off the clear
part, add to it the spirituous water and the syrup.

This decoction is a very agreeable and useful medicine in all kinds of fluxes that are not critical or symptomatic, and in a weak, lax state of the intestines. A spoonful or two may be taken every hour or oftner: thus managed, it produces much better effects than if larger doses are given at once.

DECOCTUM FEBRIFUGUM.

A febrifuge decoction.

Take of Chamemel flowers, dried, two

ounces; Salt of tartar, two drams;

Water, three pints.

Boil the water with the chamemel flowers, till one pint of the liquor is wasted; then strain out the remaining decoction, and dissolve in it the alkaline falt.

In a thick viscid state of the blood and juices, and obstructions of the abdominal viscera, a quarter of a pint of this decoction, taken three or four times a day, has sometimes removed intermittent severs, after the Peruvian bark had been tried in vain.

SERUM SOLUTIVUM.

Laxative whey.

Take of
Damaik rose buds, fresh, one
ounce;
Whey, two pints.
Steep them together for a night,

and then frain out the whey for

Whey, thus impregnated with the virtues of the damask rose, operates very gently by stool, and for this purpose is held by some in great esteem. Its action may be quickened, and its taste rendered more agreeable, by the addition of a suitable proportion of crystals of tartar.

SERUM SINAPINUM.

Mustard whey.

Take of
Mustard feed, bruised, three
spoonfuls;

Cows milk, two pints.

Set the milk over the fire to boil, and add to it the mustard seed, that a curd may be formed, from which the whey is to be carefully separated.

This is a not inelegant form for the exhibition of mustard feed; its pungency, and medicinal virtues depending thereon, being in great measure communicated to the whey.

CEREVISIA AMARA.

Bitter ale.

Take of
Gentian root,
Lemon peel, fresh, each four

ounces;
Long pepper, one ounce;

Ale, one gallon.

Let them fleep together without

This is an agreeable bitter flomachic ale, much superior to the common purls, or any of the compositions of this kind to be met with in the extemporaneous recipe writers.

CEREVISIA BUTLERI.
Dr. Butler's ale.

Take of Betony, Sage,

Agri-

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Agrimony. Garden feurvy-grafs,

Roman wormwood, each three handfuls ;

Elecampane roots,

Horse-radish roots, each four

New ale, four gallons,

in a bag, and hung in the ale while it works.

This liquor has fo far obtained among the common people, as to have been frequently made and fold in public houses. It is used in the fpring, for purifying the blood, and preventing fcorbutic diforders.

> VINUM GUAIACINUM. Guaiacum wine.

Guaiacum wood,

Yellow faunders, each two ounces: Orange peel, dried,

Lesser cardamom seeds, each one Beat the spices into a coarse pow-

Mountain wine, one gallon. Let them steep together for a week, and then firain out the wine for ufe.

This is a moderately warm and corroborating wine. It does good fervice in nervous weaknesses, in decays of conflication from cold pituitous humours; and proves an ex-Two ounces, or an ordinary wine and ufeful whey in low fevers. glass, may be taken two or three times a day, and continued for a month or two.

VINUM GUALACINUM cum HELLEBORO. Guaiacum wine with hellebore.

Take of

Cuaiacum wood, Black hellebore root, each two Mountain wine, two pints. ounces;

Lesser cardamom seeds,

Orange peel, dried, each one ounce ;

Mountain wine, four pints. Let these ingredients steep together for a week or longer, and then frain out the wine for ufe, nominos

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This is a warm stimulating, deobstruent wine. It may be used The herbs and roots are to be put to good advantage in cold phlegmatic habits, where the humors flagnate in the remote veffels, and where there is a disposition to gourty, rheumatic, or hydropic disorders. It is to be taken chiefly over night, in fuch small doses as not to run off by flool.

> VINUM AROMATICUM. Aromatic wine.

Take of

Cloves,

Ginger, each half an ounce: Cinnamon,

Nutmegs, each one ounce; Canary wine, fix pints.

der, and steep them in the wine for fome days; then pass the Hquor through a ftrainer.

This wine is a very high cordial, and greatly commended for warming the habit and strengthening the nervous fyslem. It is so hot of the spices as not to be taken without dilution, and only in fmall quantities at a time. Mixed with a little cellent preservative against rheu- lemon juice, and a large propormatic and arthritic complaints, tion of milk, it forms a pleafant

> VINUM SCORBUTICUM. Scorbutic wine.

Take of

Garden scurvy grass, one hand-

Horse radish root, scraped, half an ounce;

Winter's bark, two drams;

Let them fleep together in the cold for three days.

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with the virtues of the ingredients, per is ordered to be omitted, and as to do confiderable fervice in fcorbutic habits. It is used chiefly in to fix ounces. the spring, in the quantity of a common wine glass two or three times a day.

VINUM SCORBUTICUM MUNTINGII. Muntingius's scorbutic wine.

Take of

The roots of the greater water dock, fix ounces; Gentian root,

Liquorice, Cinnamon, Black pepper, Mace, each three ounces; Saffron, two ounces; Mountain wine, fixteen pints; Strong vinegar, four pints;

Yolks of three fresh eggs. Reduce the roots and spices into a gross powder, and pour on of the eggs: digeft the whole in a close vessel, with a gentle warmth, for three days; and then strain out the liquor for

The author of this composition recommends it as a medicine of infallible efficacy against inveterate scurvies, and all kinds of scorbutic complaints, particularly fuch as are not accompanied with a fever or inflammation : even palfies, and the venereal lues, he fays, have yielded to it. The dose is from three to fix ounces, to be taken in the morning on an empty flomach, and continued for fourteen or twenty days, or longer: some quantity of it is likewife to be mixed with the patient's common drink, which he directs to be either good Rhenish wine, or found malt liquors not too new. If the patient complains of heat, dryness, a violent cough, or where there are any fymptoms

This wine is fo far impregnated of a confumption, the black pepthe liquorice increased in its room

A composition differing from the above only in the omission of vinegar, and employing spirit of wine for the menstruum, is faid to have come lately into esteem at Paris, against the gout.

> VINUM PERUVIANUM. Wine of Peruvian bark.

Take of Peruvian bark, in powder, two ounces;

Rough red wine, two pints. Digest them together in a circulatory vessel, with a moderate heat, for forty-eight hours, oc-

cafionally fhaking the veffel: then fuffer the whole to cool, and pass the wine through a strainer. This is the preparation of bark

them the wine, vinegar, and yolks made use by Sir Robert Tabor or Talbot (an English gentleman refiding in France) who was one of the first that retrieved the character of the medicine itself, at the time that fome ill confequences following its imprudent use, had brought it into difesteem. He kept this preparation a fecret, till Lewis XIV. purchased it for a confiderable fum, and communicated it to the public. It was not however the preparation, but a proper method of exhibiting the medicine, upon which the fuccess of his practice depended. See page 178. It appears from experience, that this wine is less certain in the cure of agues, than the bark given in fubstance. It nevertheless has its uses, in those intermittent fevers where a large quantity of the bark is not necessary; and is particularly ferviceable in a laxity and debility of the stomach and intestines.

TINC-

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TINCTURA CANTHARIDUM
D. MEAD.

Dr. Mead's tincture of cantharides.

Rhubard, three drams;

Gum guaiacum, one dram and a half;

Lac, one dram:

Cantharides, bruifed, two drams; Cochineal, half a dram;

Rectified spirit of wine, a pint and a half.

Digest and strain.

Venereal diforders, especially where the stronger cathartics have been imprudently made use of in the cure, are not unfrequently succeeded by a weakness of the seminal vessels, and a constant gleeting of mucous matter, both from the vesicular seminales, and the pro-

state glands. The cure of this obstinate complaint is usually attempted by balfamics; but for the most part with little fuccefs. This tincture is of a more powerful kind; and takes place even where the dif-order is of very long standing, and the parts extremely relaxed: Dr. Mead, after large experience of its happy effects, for many years, in his private practice, recommended it to feveral phyficians and fur-geons, and has now communicated it to the public. The mean dofe is thirty drops, which may be increafed to fifty, or as many as can be ventured on without endangering a difficulty of urine. It is to be taken every morning and evening, in a glass of warm water.

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S E C T. VIII.

MIXTURES;

including juleps, draughts, and emulfions.

A Julier is an agreeable liquor, defigned as a vehicle for medicines of greater efficacy, or to be drank after them, or to be taken occasionally as an auxiliary.

The basis of juleps is generally common water, or a simple distilled water, with one fourth, or one third its quantity of some distilled spirituous water: this mixture is sweetened with sugar, or any proper syrup; and sometimes acidulated with a sew drops of any of the vegetable or mineral acids, or impregnated with other medicines suitable to the intention; care being had that these additions be such as will not render the compound unsightly or unpalatable.

The quantity of a julep usually prescribed at a time, is about eight or ten ounces.

ally oil

The quantity of a Draught very rarely exceeds three ounces, the whole being intended for one dose. This form receives medicines of considerable efficacy, as cathartics, opiates, &c. whether soluble in water, as extracts or falts; or indissoluble, as powders; without much regard to their palatablenes; and in these respects principally draughts differ from juless.

Emulsions are white milky liquors, generally prepared by grinding the oily feeds of plants, or kernels of fruits, along with common water, or any agreeable fimple diffilled water. In this process, the oil of the fubject is, by the mediation of the other matter, united with the aqueous fluid; and hence

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they possess some share of the emollient virtue of the pure oil, with this advantage, that they are agreeable to the palate, not apt to turn rancid or acrimonious by the heat of the body (which the pure oils in some inflammatory cases may do) and likewise, that by the oil being thus intimately combined and diluted with an aqueous vehicle, it passes easier and farther into the

Emulsions, besides their use as medicines themselves, are excellent vehicles for certain substances which cannot otherwise be so conveniently exhibited in a liquid form. Thus camphor, triturated with almonds readily unites with water into an emulsion, and in this form is conveyed into the remotest parts of the body, with sufficient efficacy to answer intentions of moment, at the same time that its heat and pungency are softened by the unctuosity of the almonds.

Several of the gummy-refins, as ammoniacum, galbanum, myrrh, and others, are reducible into emulfions, or milky liquors, by trituration with water alone; the refinous part being rendered diffoluble by the mediation of the gummy. The refinous juices, balfams, turpentines, &c. are likewise rendered miscible with water into fimilar liquors, by the affiftance of the yolk of an egg; and in some cases, particularly in venereal diforders of the urinary paffages, may in this form be exhibited to good advantage.

JULEPUM ALEXIPHARMACUM.
Alexipharmac julep.

Take of
Simple alexeterial water, fix
ounces;
Spirituous alexeterial water, two
ounces;

Syrup of clove-july-flowers, two drams.

Mix them together.

Take of 2.
Simple alexeterial water, fix ounces;
Spirituous alexeterial water with vinegar, two ounces;
Syrup of lemon juice, two drams.
Mix them together.

Take of 3.
Camphor, one dram;
Fine fugar, half an ounce;
Vinegar, one pint.

Let the camphor be ground first with a little rectified spirit of wine, and afterwards with the sugar, till they are perfectly mixed; then gradually pour on the vinegar, previously made warm.

The first of these juleps is to accompany the use of the alexipharmac powders, boluses, &c. already prescribed. The third is a medicine of considerable efficacy, and frequently produces notable effects without the assistance of any other camphor thus combined with vegetable acids, proves serviceable in cases where this warm drug by itself would be less proper; and at the same time becomes more agreeable both to the palate and stomach.

Julepum Cardiacum.

Take of Company of the Simple cinnamon water, Simple orange peel water, each three ounces;
Nutmeg water, two ounces;
Syrup of orange peel, half an ounce.
Mix them together.

Take of 2.

Black

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Black cherry water, fix ounces: Cardamom feed water, ounces :

Compound spirit of lavender. Syrup of faffron, each two drams. Mix them together.

TULEPUM CARMINATIVUM. Carminative julep.

Take of -1. Fennel feed water, fix ounces; Compound juniper water, two ounces;

Syrup of clove-july-flowers, half an ounce.

Jamaica pepper water, fix ounces; Compound anifeed water, two ounces:

Syrup of orange peel, half an ounce.

Dill-feed water, fix ounces; Compound caraway water, two ounces ; Syrup of ginger, half an ounce.

> JULEPUM HYSTERICUM. Hysteric julep.

Take of Simple penny-royal water, Caftor water, each three ounces; Spirituous penny-royal water, two ounces: Simple fyrup two drams.

Simple alexetereal water, ounces;

Cardamom feed water, ounces;

Compound spirit of lavender, Volatile aromatic spirit, each one dram ;

Syrup of clove july-flowers, half an ounce.

Dill-feed water, four ounces; Simple pepper mint water, two ounces; Tincture of cardamoms, Syrup of ginger, each two drams.

JULEPUM REFRIGERANS. A cooling julep.

Take of Rhenish wine, five ounces: Damask rose water, two ounces; Seville orange juice, Syrup of violets, each fix drams

PIdce

TULEPUM STOMACHICUM. Stomachic julep.

Take of Simple mint water, fix ounces: Spirituous mint water, two ounces: Syrup of faffron, two drams.

Tincture of mint, fix ounces: Cardamom feed water, two Simple fyrup, half an ounce.

Simple cinnamon water, ounces; Nutmeg water,

Stomachic tincture, each one ounce; Syrup of orange peel, half an

ounce.

The titles of thefe mixtures express the intentions for which they are calculated: five or fix spoonfuls of either may be taken occasionally, or used as vehicles and diluters of medicines of greater efficacy.

HAUSTUS CATHARTICUS. Cathartic draught. Takeof

Scammony, fourteen grains; Spirit of rosemary, two drams; Syrup of buckthorn, fix drams. Grind the feammony with the spirit in a glass mortar, and when perfectly incorporated, mix in

Take of 2. Jalap, in powder, one scruple; Ipecacoanha, three grains; Compound juniper water, one Infusion of linseed, an ounce and Simple

the fyrup.

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Draughts.

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Simple fyrup, one dram.

Mix them together.

Both these compositions are strong catharties, yet for the most part easy and safe in operation.

They are calculated chiefly for hydropic cases, in which they procure copious evacuations, without weak-

ening or fatiguing the patient fo much as many other medicines of this kind.

HAUSTUS CATHARTICUS SALINUS, Saline cathartic draught,

Take of

Glauber's cathartic falt,
Manna, each fix drams;
Boiling water, three ounces;
Tincture of cardamoms, one dram.

Diffolye the falt and manna in the water, and having firained off the liquor, add to it the tincure of cardamoms.

This is a very elegant and agreeable faline purgative. Tincture of cardamoms is one of the best additions to liquors of this kind, or to the purging mineral waters, for rendering them acceptable to the stomach.

HAUSTUS DIURETICUS.

Diuretic draught.

Simple cinnamon water, one

Compound spirit of lavender, Syrup of orange peel, each one dram.

Mix them together.

Take of 2.

Vinegar of fquills, one dram (or one dram and a half;)

Salt of wormwood, half a dram;

Lemon juice, fix drams;

Simple cinnamon water, an ounce and a half;

Spirituous pepper mint water, half an ounce;

Syrup of orange peel, one dram. Let the falt of wormwood and lemon juice be first mixed together, and then add to them the other ingredients.

These elegant and efficacious compositions are commended, and frequently prescribed, by Dr. Mead, for promoting urine in hydropic cases. He directs them to be taken every night, or oftner, according to the urgency of the symptoms, The squill, one of the most powerful diuretics, is by the additions here joined to it, rendered not only more grateful to the palate and stomach, but likewise enabled more effectually to answer the purposes intended by it.

HAUSTUS ANODYNO-DIURETICUS.

An anodyne diuretic draught.

Take of

Ley of tartar, half a dram; Thebaic tincture, forty drops; Pepper mint water, one ounce; Simple cinnamon water, half an ounce;

Spirituous cinnamon water, two drams;

Syrup of marshmallows, one dram.

Mix them together.

Though practitioners have rarely ventured to exhibit opium in dropfies; yet in those which are accompanied with great pain, this anodyne drug, by easing the pain, and removing the stricture of the passages, which painful sensations always occasion, proves a medicine of great service, excellently promoting the urinary discharge. Dr. Mead has given a remarkable instance of the good effects of the mixture above prescribed, in a person labouring under an ascites and tympany at the same time, where the pain was intolerable, the

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thirst intense, and the urine in very small quantity: the stronger purgatives increased the distemper; soap, alcaline salts, nitre, and other diuretics, were tried in vain: this draught (when the patient seemed to be beyond any affistance from medicine) procured unexpected relies, not only a gentle sleep, and truce from the pain, but likewise a copious discharge of urine: by repeating the medicine, for a little time, every eight hours, and afterwards using corroborants, the cure was persectly compleated.

HAUSTUS OLEOSUS.

Oily draught.

Take of

Oil of almonds, Syrup of marshmallows, each

half an ounce;

Simple cinnamon water, two ounces.

Mix them together.

Draughts of this kind are used for obtunding acrimonious humors, and softening and lubricating the solids. They are similar in virtue to the linctus's already spoken of, and to most people more agreeable. They may be occasionally rendered more penetrating, detergent, and saponaceous, by the addition of soap leys, or volatile spirits.

MISTURA ANTIEMETICA, SALINA.

Saline antiemetic mixture.

Take of

Salt of wormwood, half a dram; Lemon juice, fix drams;

Simple cinnamon water, one ounce;

Fine fugar, one fcruple. Mix them together.

This mixture is frequently prefcribed, not only for the purpose

expressed, not only for the purpose expressed in its title, but likewise as a faline aperient in icterical, inflammatory, and other disorders, where medicines of that class are proper.

MISTURA SALINA CATHARTICA

ET DIURETICA.

Cathartic and diuretic faline
mixture.

Take of

Salt of tartar, two drams; Diffilled vinegar, five ounces; Cinnamon water, one ounce; Fine fugar, two drams.

Mix them together.

This mixture evacuates plentifully both by ftool and urine, without griping or fatiguing the patient. I have frequently given it in hydropic cases, with excellent success. It is to be taken in a morning, at two doses, at the interval of an hour or two.

MISTURA CARDIACA.

Cordial mixture.

Takeof

Simple cinnamon water, four ounces;

Spirituous cinnamon water, two ounces;

Extract of faffron, one scruple; Confection of kermes, fix drams.

Mix them together.

In great languors and depreffions, a fpoonful of this rich cordial mixture, may be taken every half hour.

EMULSIO PURGANS.

A purging emulsion.

Take of

Sweet almonds, blanched, two drams;

Fine fugar, one dram;
Gum Arabic, half a dram;
Scammony, twelve grains;
Simple cinnamon water, one
ounce.

Dissolve the gum in the cinnamon water, and having ground the feammony with the almonds and sugar, pour on the liquor by little at a time, continuing to grind them together, so as to make them into an emulsion.

SECT.

SECT. IX.

PLASTERS, OINTMENTS, &c.

Lasters are composed chiefly of oily and unctuous substances, united with powders, into such a consistence, that the compound may remain firm in the cold, without slicking to the singers; that it may be soft and pliable in a small heat; and that by the warmth of the human body it be so tenacious, as readily to adhere both to the part on which it is applied, and to the substance on which it is spread.

There is however a difference in the confiftence of plasters, according to the purpofes they are to be applied to: thus, fuch as are intended for the breast and stomach, fhould be very foft and yielding; whilst those designed for the limbs are made firmer and more adhefive. An ounce of expressed oil, an ounce of vellow wax, and half an ounce of any proper powder, will make a plaster of the first confistence; for a hard one, an ounce more of wax, and half an ounce more of powder, may be added. Plasters may likewise be made of refins, gummy-refins, &c. without wax,

especially in extemporaneous prefeription: for officinals, these compositions are less proper, as they soon grow too soft in keeping, and fall stat in a warm air. It rarely happens, however, that there is any occasion for prescribing extemporaneous plasters, the shops being supplied with a sufficient number to answer every useful purpose that can be expected from applications of this kind.

Ointments and liniments differ from plasters little otherwise than in consistence. Any of the officinal plasters, diluted with so much oil as will reduce it to the thickness of stiff honey, forms an ointment; by farther increasing the oil, it becomes a liniment. As a sufficient variety of these and other external medicines are described in the preceding part, and in the appendix to this, it is needless to give farther directions here for their composition, or to insert any particular forms,

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APPEN-

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APPENDIX.

Pharmacopœia Pauperum:

CONTAINING

A Collection of cheap and efficacious MEDICINES, made use of in the Hospitals of London and Edinburgh, and the Army.

AQUA ALEXETERIA nofocomii Edinburgensis. Alexeterial water.

Elder flowers, moderately dried, three pounds;
Angelicaleaves, fresh, two pounds;
Water, a sufficient quantity.
Draw off by distillation three gal-

Aqua antihysterica, ejusdem.

Antihysteric water.

Take of
Wild valerian root, one pound
and a half;
Lovage feed, half a pound;
Savin, three ounces;
Proof fpirit, two gallons.
Let them fleep together for four days,
and then diffil off two gallons.

This water is composed of the more unexceptionable ingredients of the aqua bryoniæ of the Edinburgh pharmacopoeia; and promises to be as serviceable an antihysteric, as any of the more laborious compositions of this kind.

AQUA AROMATICA, ejusdem.

Aromatic water.

Take of

Canella alba, half a pound; Lemon peel, fresh, four ounces; Lesser cardamom feeds, two ounces; Proof spirit, two gallons.

Let these ingredients steep together four days, and then draw off two gallons by distillation.

This is a very elegant aromatic water,

water, cheaper and more fimple than the aqua mirabilis, whose place it is intended to supply. It nevertheless seems still rather too dear for the purposes of an hospital: the following well deserves to be introduced in its room.

Take of
Jamaica pepper, half a pound;
Proof fpirit, three gallons;
Water, a fufficient quantity.
Draw off by distillation three gallons.

This water is far more agreeable than a fimple water drawn from the fame spice; and has long had a place among the cordials, both of the distiller and apothecary.

AQUA EPIDEMIA, Edinb.

Plague water.

Take of

Masterwort roots, a pound and a half;

Angelica feeds, Elder flowers, each half a pound; Proof foirit three gallons:

Proof spirit, three gallons:
Water, a sufficient quantity.

Steep the other ingredients in the fpirit for four days, and then difil off two gallons and a half; to which add half a gallon of diffilled vinegar.

This is an elegant substitute for the more compounded, though not more efficacious, aqua theriacalis. It keeps better than the aqua alexeteria cum aceto of the shops; which advantage is owing to its not being drawn so low.

AQUA OPHTHALMICA, Edinb. Eye-water.

Take of

White vitriol, half an ounce; Water four pints.

Boil them till the vitriol is diffolyed, and filter the liquor,

Where the eyes are watery or inflamed, this simple solution of white vitriol is a very useful application: the slighter inflammations will frequently yield to this medicine, without any other assistance: in the more violent ones, venæsection and cathartics are to be premised to its use.

Aqua PICEA, Edinb.

Take of

Tar, two pounds; Water, one gallon.

Stir them strongly together with a wooden rod; and after standing to settle for two days, pour off the water for use.

Tar water has lately been recommended to the world as a certain and fafe medicine in almost all diseases; a slow, yet effectual alterative in cachexies, fcurvies, chlorotic, hyfterical, hypochondriacal, and other chronical complaints; and a fudden remedy in acute distempers which demand immediate relief, as pleurifies, peripneumonies, the fmall pox, and all kinds of fevers in general. The medicine, though certainly far inferior to the character that has been given of it, is doubtless in many cases of confiderable utility: it fenfibly raifes the pulse; and occasions fome confiderable evacuation, generally by perspiration or urine, though fometimes by stool or vomit: hence it is supposed to act by increasing the vis vitæ, and enabling nature to expel the morbific humors.

We shall here infert, from the first public recommender of this liquor (bishop Berkeley) some obfervations on the manner of using it. "Tar water, when right, is "not paler than French, nor deeper coloured than Spanish N n 2" white

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ter,

" if there be not a spirit very sen-" fibly perceived in drinking, you " may conclude the tar water is " not good. It may be drank ei-" ther cold or warm : in colics, I " take it to be best warm. . As to the quantity in common chronice cal indispositions, a pint a day " may fuffice, taken on an empty " flomach, at two or four times, er to wit night and morning, and " about two hours after dinner and " breakfast: more may be taken by strong stomachs. But those " who labour under great and inveterate maladies, must drink a er greater quantity, at least a quart es every twenty-four hours : all of so this class must have much pa-" tience and perseverance in the " use of this, as well as of all " other medicines, which though " fore, must yet, in the nature of things, be flow in the cure of in-" veterate chronical diforders. In of acute cases, fevers of all kinds, " it must be drank in bed warm, " and in great quantity (the fever " ftill enabling the patient to drink) or perhaps a pint every hour, which "I have known to work furpriz-" ing cures. But it works fo quick, and gives fuch spirits, "that the patients often think themselves cured before the fe-" ver hath quite left them."

BALSAMUM ANODYNUM, Edinb. Anodyne balfam. Take of

The faponaceous balfam, called opodeldoc, one pound and a half :

Liquid laudanum, half a pound. Mix them together.

This composition is taken from Bates. It is used externally, for eafing arthritic pains, reftraining vomining, and other like diforders

" white wine, and full as clear; of the flomach; and likewise in the fluor albus. See page 513.

> Bolus ALEXETERIUS, Edinb. Alexeterial bolus.

Take of

Virginian fnakeroot, fifteen grains;

Castor, ten grains; Camphor, three grains; Syrup of fugar, as much as is fufficient.

Mix and make them into a bolus.

This bolus is given, as an alexipharmac, in low fevers, and repeated every fix hours or oftner, according to the urgency of the fymptoms.

> BOLUS EX ALUMINE, Nofocom. Lufitanic. Lond. Alum bolus.

Take of

Alum, fifteen grains; Extract of Peruvian bark, Nutmeg, each ten grains; Simple fyrup, as much as will reduce them into a proper confiftence for a bolus.

This composition is a very strong astringent, and as such is used with fuccess in violent uterine homorrhagies, and other immoderate fecretions which require to be speedily restrainer. It may be taken twice a day; or if the flux is very violent, every four or fix hours till it abates.

Alum is frequently apt to occafion violent pains of the bowels; it may therefore be proper to begin with leffer dofes than that here prescribed; and increase it by degrees as far as the patient can bear it without inconvenience.

BOLUS ANTIDYSENTERICUS. Antidysenteric bolus. Take of

London

London philonium, half a dram; Rhubarb, ten grains; Simple fyrup, as much as is fufficient. Mix and make them into a bolus.

In dysenteries, or alvine fluxes accompanied with a tenefmus and gripes, after the first passages have been fufficiently cleanfed by mild emetics and cathartics (as ipecacoanha and rhubarb) this bolus generally takes place effectually. given before these necessary evacuations, it eafes the pains, and moderates the flux for a short time : but this relief is not only of fhort duration, but likewise sometimes of fatal confequence; the retention of the acrid and corrupted humors occasioned by it, continually renewing and aggravating the discase. The rhubarb is supposed to prevent this ill effect, though the quantity here directed can avail but little. The philonium in this bolus contains five fixths of a grain of opium.

Bolus e camphora, Lufitan.

Camphor bolus.

Take of
Camphor, one scruple;
Gum Arabic, half a dram;
Syrup of marshmallows, a sufficient quantity to make them into a bolus.

This is a very convenient form for the exhibition of camphor: this drug, however, when thus given by itself in large doses, is apt to nauseate the stomach; and rarely has so good effects, as when mixed in small quantities with nitre, or other like substances, and frequently repeated.

Bolus e Castorbo, Edinb. Castor bolus.

Take of Castor, one scruple; Salt of hartshorn, five grains;

or oil of hartshorn; five drops; Simple syrup, a sufficient quantity. Make them into a bolus.

This medicine is given in hyfterical and hypochondriacal diforders, and likewife as an alexipharmac in fevers. Its virtues, which are great and unquestionable, depend more upon the fetid animal oil, or volatile falt, than on the drug from which it takes its name.

Bolus e creta, Luf. Chalk bolus.

Take of
Prepared chalk, one scruple;
Nutmeg, half a scruple;
Simple syrup, a sufficient quantity to reduce them into a bolus.

Where a reduncy of acid humors in the first passages occasions gripes, heartburns, four cructations, and other like complaints; this bolus is a very effectual remedy, not inserior in virtue to the more compounded cardialgic lozenges of the shops.

Bolus DIAPHORETICUS, Edinb.

Diaphoretic bolus.

Take of Compound powder of contra-

Crude fal ammoniac, each one feruple;

Simple fyrup, a fufficient quantity to form them into a bolus.

This bolus is given in fevers, and other cases where a diaphoresis is to be promoted. Sal ammoniac is for this purpose one of the
most efficacious of the neutral salts.
It requires, however, when thus
given in a solid form, to be assisted
by warm diluters, frequently repeated; which not only promote
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Pharmacopæia Pauperum.

its action, but likewise prevent its fetting uneasy on the stomach.

Bolus Diureticus, Edinb.

Take of

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White foap, two scruples;
Essential oil of jumper berries,
from ten to twenty drops.
Make them into a bolus.

This is a very powerful detergent, aperient, and diuretic. It is frequently exhibited with fuccess in hydropic cases; and in such icterical disorders as arise from a viscidity of the bile, or obstructions of the biliary ducts, which are usually accompanied with costiveness and whitish shoots; in jaundices proceeding from a too great attenuation of the bile (which are attended with a looseness and yellow shoots) medicines of this kind are manifestly improper.

Bolus E GAMBOGIA, SIVE
HYDRAGOGUS, Lufit.
Gamboge, or hydragogue bolus.
Take of
Gamboge,

Cryftals of tartar, each half a fcruple;

Syrup of buckthorn, a fufficient quantity to reduce them into a bolus.

This bolus is a firong cathartic, and as fuch is commonly given in hydropic cases, once or twice a week; according as the patient can bear its operation. The crystals of tartar prevent the gamboge from proving emetic, or producing the ill effects which it would be apt to do by itself.

Bolus Guaiacinus, Edinb. Guaiacum bolus.

Take of Extract of guaiacum, two scruples;

Salt of hartshorn, seven grains; Simple fyrup, a sufficient quantity.

Make them into a bolus.

In chronical rheumatisms, whether the remains of a rheumatic fever, or a continuation of pains that proceeded at first from neglected colds, this bolus has generally good effects. It is to be taken once a week, or oftner, the patient keeping warm, and drinking warm liquors, to promote its operation as a cathartic and diaphoretic. Its use ought to be accompanied by venæfection, which is to be repeated every eight or ten days as long as the blood is fizy. This medicine is likewise exhibited in sciatic, arthritic, and other pains not accompanied with a fiziness of blood; in these it much more frequently fails than in the true rheumatism.

Bolus Jalappe, sive purgans, Jalap, or purging bolus.

Jalap, one ounce; Jamaica pepper,

Crystals of tartar, each one dram; Syrup of buckthorn, as much as will reduce them into a mass of a due consistence.

Two scruples of this mass may be made into a bolus for one dose. It is a purgative of sufficient efficacy, and almost universally mild and safe.

Bolus Jalappæ cum mercurio, Edinb.

Jalap bolus with mercury. Take of

Choice jalap, one fcruple; Calomel, from five to ten grains; Simple fyrup, as much as will make them into a bolus.

This likewise is an effectual and fafe

Pharmacopaia Pauperum.

fafe cathartic, and may be used in cutaneous disorders, dropsies, and other diseases, where mercurial pur-

Bolus ipecacoanha.

Take of

gatives are proper.

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Ipecacoanha, five grains; Syrup of orange peel, as much as will make it into a bolus.

In dysenteries, a vomit of ipecacoanha, given after bleeding, removes the fickness of the stomach generally complained of in the beginning of this difeafe. The emetic is observed to be the more efficacious in proportion to the evacuation of bile; and to fucceed best when it also operates by stool. Both these effects are more certain, when instead of the usual dose, only the quantity here directed is given at a time, and repeated twice or thrice in the same day, till a vomit or purging come on; which ufually happens before, or foon after the third dose. Fifteen grains, given in this manner, generally evacuate more than thirty taken at once.

Bolus Mercurialis, Edinb.

Morcurial bolus.

Take of Calomel, from five to fifteen

grains; Conferve of rofes, half a dram. Mix and make them into a bolus.

This bolus is given every night, or oftner, for raifing a falivation, in venereal, and other diforders, which require that herculean operation. It is likewife taken at night as an alterative, to be carried off next morning by a cathartic: mercurials exhibited in this manner, have better effects than when joined with purgatives directly.

Bolus MERCURIALIS

EMETICUS, Lufit.

Emetic mercurial bolus.

Take of
Yellow emetic mercury, fix
grains;
Conferve of rofes, a fufficient

quantity.
Mix them into a bolus.

This strong emetic is given in venereal and leprous diseases; particularly in the case of foul ulcers of long standing, the cleansing and cure of which are frequently promoted by it. The violence of its operation limits its use to robust constitutions.

Bolus Pectoralis, Edinb.

Pectoral bolus.

Take of

Sperma ceti, fifteen grains; Gum ammoniacum, ten grains; Salt of hartshorn, seven grains; Simple fyrup, as much as is sufficient.

Mix and make them into a bolus.

In colds of long flanding, old coughs, afthmas, and beginning consumptions, this bolus generally gives relief, especially if bleeding is premised, and repeated, if necessary, at proper intervals.

Bolus RHEI CUM MERCURIO, Edinb.

Bolus of rhubarb with mercury. Take of

Choice rhubarb, twenty - five

Calomel, five grains;

Simple fyrup, as much as will form them into a bolus.

This is a very mild mercurial purgative. It is given to defroy worms, and in cachectic, chlorotic, and other like diforders.

N n 4 Bolus

Bolus THERIACALIS, Edinb.

Take of

Theriaca, two scruples; Salt of hartshorn, seven grains; Camphor, three grains. Mix and form them into a bolus.

Camphor and falt of hartshorn when thus joined with opiates, have in many cases better effects than if exhibited by themselves, their diaphoretic virtues being greatly promoted by the relaxation which the opium occasions. The quantity of theriaca in this bolus contains somewhat more than a quarter of a grain of opium.

CATAPLASMA AROMATICUM, Edinb.

A warm aromatic cataplasm.

Long birthwort roots,
Bay berries,
Scordium leaves,
Cummin feeds,
Myrrh, each four ounces;
Jamaica pepper, two ounces;
Honey, thrice the weight of the

powders.

Mix, and make them into a poultice, according to art.

CATAPLASMA DISCUTEENS, Edinb.

Discusient cataplasm.

Take of

Barley meal, fix ounces;
Fresh hemlock, well bruised,
two ounces;

Crude fal ammoniac, half an ounce;

Vinegar, a fufficient quantity.
Boil the meal and the hemlock
leaves for a little time in the vinegar, and then mix with them
the fal ammoniac.

CATAPLASMA EMOLLIENS, Edinb.

Emollient cataplasm.

Take of Crumb of bread, eight ounces; White foap, one ounce; Cows milk, fresh, a sufficient quantity. Boil them a little together.

CATAPLASMA SUPPURANS, Edinb. Suppurating cataplasm.

This is made by adding to the foregoing, of

Raw onions, bruifed, one ounce and a half; Bafilicum ointment, one ounce.

CATAPLASMA STOMACHICUM, Edinb.

Stomachic cataplasm.

The aromatic cataplasm, one ounce;

Expressed oil of mace, two drams; Anodyne balfam, as much as is fusicient to reduce them into a proper confisence.

CATAPLASMA CAMPHORATUM, Edinb.

Campborated cataplasm.

lakeot

Aromatic cataplasm, one ounce; Camphor, one dram. Mix them together.

CATAPLASMA ISCHIADICUM.

Ifebiadic cataplasm.

Take of
Mustard feed, half a pound;
White pepper,

Ginger, each one dram; Simple oxymel, as much as will reduce them into a cataplafm.

The use of these compositions may be easily understood from their titles. It may be proper to observe, with regard to this last, that it is a very stimulating application, and frequently vesicates the skin.

CERVISIA APERIENS, Edinb.

Take of

Mustard

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Pharmacopaia Pauperum.

Mustard feed, unbruised, ten

Long birthwort root, fix ounces; Leffer centaury tops, two ounces; Savin tops, one ounce: New fmall ale, ten gallons.

This is an useful aperient dietdrink in cachestic and chlorotic indispositions, and in all cases where obstructions begin to form in the viscera. It is to be taken to the quantity of half a pint at a time, twice a day.

CERVISIA CEPHALICA, Edinb. Cephalic ale.

Take of

Wild valerian root, ten ounces; Mustard seed, whole, fix ounces; Virginian snakeroot, two ounces; Rosemary, or sage, three ounces; New small ale, ten gallons.

The ingredients of this composition are all of the warm and stimulating kind; and consequently tend to invigorate the nervous system, and promote the circulation of the study. In passes, epilepsies, and vertigoes, some benefit may be expected from this liquor used as common drink.

CERVISIA DIURETICA.

Diuretic ale.

Take of

Mustard feed, whole,

Juniperberries, each eight ounces;

Wild carrot feed, three ounces;

Common wormwood, two ounces;

New fmall ale, ten gallons.

Take of
Broom tops,
Muftard feed, each fixteen ounces;
Flower-de-luce roots,
Sharp-pointed dock roots, each
twelve ounces;
Winter's bark,
Elder bark,

Wild carrot feeds, Juniper berries, each two pounds; New firong ale, twelve gallons.

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In hydropic cases, and corpulent fcorbutic habits, these aperient and diuretic liquors are very useful dietdrinks. Half a pint of either may be taken two or three times a day.

CERVISIA AD SCORBUTICOS, Edinb. Scorbutic ale.

Take of

Horse-radish root, fresh, one

Sharp pointed dock roots, half a pound;

Canella alba, two ounces;
Buckbean leaves, fresh, eight
ounces; or dried, three ounces;
New small ale, ten gallons.

In fcorbutic diforders, and impurities of the blood and juices, this liquor, used as common drink, generally does good service. All the ingredients are very effectual for the intention, and well suited to the form.

COLLYRIUM ALBUM, Edinb.
The white collyrium.

Take of

Rose water, fix ounces;
White troches of Razi, or compound powder of cerusie, one dram;

White vitriol, ten grains.

Mix them together according to art.

This is a very useful collyrium in inflammations and defluxions of thin acrid humors on the eyes. See the remark on the eye water, page 547.

COLLYRIUM ALUMINOSUM, Edinb.

Alum collyrium.

Take of Alum, half a dram;

The

Pharmacopæia Pauperum.

The white of one egg. Agitate them well together.

The flighter inflammations of the eyes, occasioned by dust, exposure to the fun, or other like causes, are generally removed by fomenting them with warm milk and water, and washing them with the foregoing collyrium. Where the complaint is more violent, this preparation, after the inflammation has yielded a little to bleeding, is one of the best external remedies. It is to be spread on lint, and applied at bed-time.

CONFECTIO ROBORANS, Edinb. Strengthening confection. Take of

Bole armenic, prepared, three ounces:

Tormentil root, Nutmeg,

Olibanum, each two ounces; Opium, purified, one dram and

a half : Syrup of dry rofes, thrice the weight of the powders. Mix them together, according to

art.

This is an elegant succedaneum to the electarium e scordio, or diascordium, of the shops; not inferior in efficacy, though far less compounded. In diarrhoas and dyfenteries, after fuitable evacuations, it proves a medicine of great utility; especially if given in small dofes, and frequently repeated: half an ounce of the composition contains one grain of opium.

DECOCTUM ANTIFEBRILE. Antifebrile decoction.

Take of

Virginian fnakeroot, bruifed, Peruvian bark, in powder, each three drams ; Water, one pint.

Boil them to half a pint, and having strained off the liquor, mix with it, of

Spirituous cinnamon water, an ounce and a half;

Syrup of clove july-flowers, two drams.

In the putrid malignant fever, arifing from foul air in crouded hospitals and jails, this medicine is given with remarkable fuccefs. In the low state of this dangerous difeafe, when the pulie, before quick, begins to fink, the stupor to increase, and petechiæ to appear; it is one of the most effectual remedies for supporting the vis vita, promoting a critical diaphoresis, and correcting the putrid humors. Four spoonfuls of the decoction are to be taken every four or fix hours; and moderate quantities of wine, or cordial bolufes with volatile falts, interposed at proper intervals.

DECOCTUM ANTIHECTICUM, Edinb.

Antibectic decoction.

Take of

Comfry root,

Eryngo root, each half an ounce; Conferve of rofes, two ounces; Dulcified spirit of vitriol, forty drops;

Water, three pints.

Boil the water with the roots and the conferve, till one pint is wasted; then strain off the remaining liquor, and add to it the dulcified spirit.

This decoction is ufefully given in hectic cases, where thin acrimonious humors abound, and in beginning confumptions. The dofe is a quarter of a pint, to be taken two or three times a day.

DECOCTUM ASTRINGENS, Edinb. Astringent decoction.

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Take of Tormentil root, one ounce; Granate peel,

Plantane leaves, each half an ounce:

Syrup of dry rofes, one ounce: Water, three pints.

Boil the water with the tormentil, granate peel, and plantane, till one pint is walted, adding the cinnamon towards the end : then ftrain off the decoction, and mix with it the fyrup.

The title of this preparation fufficiently expresses its virtues. The dose, in fluxes where the morbid matter has been evacuated, and aftringency is the only indication, is about a quarter of a pint three or four times a day.

DECOCTUM BARDANÆ, Edinb. Decoction of burdock.

Take of

Burdock roots, two ounces; Vitriolated tartar, one dram; Water, three pints.

Boil the water with the roots, fo long, that the liquor when strained may amount only to a quart; to which add the vitriolated tar-

This decoction is drank to the quantity of a pint a day; as a mild aperient, diuretic, and fweetner, in fcorbutic and rheumatic complaints.

DECOCTUM CAMPRCHENSE, Edinb. Decoction of logwood.

Take of

Shavings of logwood, ounces;

Cinnamon two drams; Water, four pints.

Boil the water with the logwood till half the liquor is wasted, adding the cinnamon towards the

end of the boiling; then strain out the decoction for use,

This is an agreeable, mild, reftringent medicine. It is given in diarrhœas, and other fluxes, where ftronger aftringents would be improper or unfafe, in dofes of a quarter of a pint three or four times a day. It generally tinges the flools red, which has occasioned some to be alarmed, as if the colour proceeded from a discharge of blood: the patient therefore is to be cautioned against any surprize on that account.

DECOCTUM COMMUNE, Edinb. Common decoction.

Mallow leaves, Chamemel flowers, each one ounce ;

Water, fix pints. Boil them to four pints, and ftrain out the liquor.

This decoction is used only for glysters, and as a foft emollient fomentation.

DECOCTUM DIURETICUM, Diuretic decoction.

Take of Parsley, or fennel roots, one ounce;

Wild carrot feeds, three drams; Pellitory of the wall, half an ounce:

Raifins, two ounces; Nitre, one dram;

Water, three pints. Boil the water with the roots, feeds,

pellitory, and raifins, fo long that there may be only two pints of liquor after straining; in which dissolve the nitre.

Take of Grass roots, two ounces; Sorrel.

356 Pharmacopæia Pauperum.

Sorrel, or wood forrel leaves, one handful;

Tamarinds, an ounce and a half;

Nitre, two drams; Barley water, three pints.

Boil the roots in the barley water, till one pint of the liquor is wasted, adding towards the end the forrel, tamarinds, and nitre; then strain out the apozem for use.

Take of 3.

Marshmallow roots, fresh, one pound;

Fennel roots, half a pound; Nitre, half an ounce; Water, one gallon.

Boil the water with the roots, till one fourth of the liquor is wasted: then strain off the remaining decoction, and dissolve in it the nitre.

These cooling aperient liquors are used as common drink for promoting urine in nephritic diseases. They may be taken with safety, and often with good effect, in inflammatory cases, where the hot stimulating diuretics would be manifestly prejudicial.

DECOCTUM PERUVIANUM, Lufit.

Take of

Peruvian bark, in powder, two ounces;

Water, three pints.

Boil them together, till one pint of the liquor is wasted, and then strain off the remaining decoction for use.

This decoction should be passed only through a coarse strainer, and drank whilst turbid: if suffered to stand till clear, the more efficacious parts of the bark will subside. We have formerly observed, that the wirtues of this drug consist chiefly in its refinous substance, which tho' it may be totally melted out by the heat of boiling water, remains only partially suspended in that mensure.

DECOCTUM SENERÆ, Edinb.

Decection of Jeneka.

Take of

Seneka rattlefnake root, one ounce;

Water, a pint and a half. Boil to one pint, and strain.

The virtues of this decoction will be easily understood from those of the root which it is prepared from. See page 206. The dose, in hydropic cases, and rheumatic, or arthritic complaints, is two ounces, to be repeated three or four times a day, according to its effect.

DECOCTUM VULNERARIUM, Edinb, Vulnerary decoction.

Take of

The herb groundivy, Plantane leaves,

White fugar, each half an ounce; Water, three pints.

Boil the herbs in the water, fo long, that there may be only two pints of strained liquor; in which disfolve the sugar.

The herbs which give virtue to this decocion, have long been celebrated as specifics for the cure of internal contusions and ulcerations, of coughs and pulmonary phthises proceeding either from bruises, or an erosion of the viscera from a spontaneous acrimony of the humors. Though the real virtues of these plants fall short of the character which has been usually given of them, yet experience has shewn that they are superior to numerous others which have been very strong-

of them, here prescribed, is taken to the quantity of a pint a day.

> ELECTARIUM ACIDUM, Acid electary.

Take of Conserve of wood-forrel, four Creme of tartar, fix drams; Vitriolated tartar, two drams; Syrup of lemon juice, a sufficient quantity to make them into an electary.

In inflammatory diffempers proceeding from acrid bile, in putrid feurvies, or any diforders arifing from an alcalescent state of the animal juices, this agreeable acid electary proves an uleful cooler, aperient and laxative, at the fame time correcting the preternatural dispofition of the food and juices in the first passages. The quantity of a nutmeg may be taken two or three times a day, or oftner.

ELECTUARIUM ANTIDYSENTERICUM, Edinb. Antidysenteric electary.

Take of The strengthening confection, one ounce ; Locatelli's balfam, half an ounce;

Choice rhubarb, two drams; Syrup of marshmallows, a sufficient quantity.

Diffolve the balfam in the yolk of an egg, and then mix with it the other ingredients.

This electary is excellently well calculated for the cure of dyfenteries; as it tends not only to moderate the discharge, but likewise to ease the gripes which always accompany this diffemper, and to heal the excoriations of the bowels; the rhubarb at the fame time, in fome measure, guarding against a

ly recommended. The decoction dangerous retention, or accumulation of the morbid humors. The effects of this ingredient, however, when thus taken in fmall doses in conjunction with others of a different quality, are not confiderable enough to supersede the use of evacuations before this medicine is ventured on: one or more full dofes of rhubarb ought in most cases to precede its use. The dose of this composition is the bulk of a large nutmeg, to be taken once or twice a day, according to the urgency of of the fymptoms.

> ELECTUARIUM BALSAMICUM, Edinb. Balfamic electary.

Take of Conserve of roses, two ounces; Locatelli's balfam, one ounce. Dissolve the balfam in the yolk of an egg, and then mix therewith

the conferve.

This electary is used in such coughs and diforders of the breaft as give fuspicion of any internal ulcerations; in the vomica, or fuppuration in the flomach, which fometimes happens after dyfenteries; and where there is an erofion or rupture of the blood veffels, as in hæmoptoes. In these cases, the bulk of a nutmeg is to be taken for a dose twice or thrice a day.

ELECTUARIUM CEPHALICUM, Edinb.

Cephalic electary.

Take of Wild valerian root, Missetoe of the oak, each one ounce: Simple fyrup, a fufficient quan-Make them into an electary.

The bulk of a large nutmeg of this electary is given three or four times

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times a day, in epilepsies, vertigo's, and other like complaints; with good fuccess. Though the virtues ascribed to the misletoe are greatly to be disputed, yet the valerian root, a medicine of undoubted efficacy in these disorders, is here in fufficient quantity to answer confiderable purpofes.

ELECTARIUM CHALYBEATUM, Luf. Chalybeat electary.

Take of

Ruft of steel, fix drams; Candied ginger, one ounce; Conferve of orange peel, three ounces;

Syrup of orange peel, as much as will reduce them into a proper confiftence.

This elegant chalybeat medicine is given to good advantage, not only in cachectic and chlorotic cases, and menstrual obstructions; but likewife in low hysteric, and melancholic diforders; and for warming and invigorating the habit in great debilities and decays of constitution. In either of these intentions the bulk of a nutmeg is to be taken twice a day, and its effects promoted by moderate exer-

ELECTARIUM AD GONORRHOEAM, Electory for a gonorrhaa.

Take of Lenitive electary, three ounces; Jalap, three drams; Nitre, one dram and a half; Simple fyrup, a fufficient quantity to make them into an electary.

Take of Lenitive electary, one pound; Balfam of copaiva, half a pound; Gum guaiacum,

Nitre, each four ounces ; Syrup of orange peel, as much as will reduce them into a proper confiftence for an electary.

The first of these compositions is a cooling laxative, or gently purgative medicine, calculated for the relief of the inflammation and tenfion of the urinary passages, which always accompany a virulent gonorrhœa: in this intention, a dram and a half is directed to be taken every morning and evening. The fecond is defigned for ftrengthening the parts, after the virulence is expelled, and the heat and inflammation have ceased: the bulk of a nutmeg may be taken twice or thrice a day.

ELECTARIUM E GUMMI GUAIACO, Lufit. Elegary of gum guaiacum. Take of

Gum guaiacum, Compound powder of arum, Canella alba, each fix drams; Conferve of fcurvy grafs, two

Syrup of orange peel, as much as will bring them into a proper confiftence.

In chronical rheumatisms, pains, and aches in general, that are not accompanied with inflammation, and fome kinds of paralytic numbnesses, this warm stimulating electary has frequently good effects; especially if properly assisted by other remedies. The quantity of a nutmeg may be taken twice a

ELECTARIUM EX HELLEBORO NIGRO, Lufit. Electary of black hellebore. Take of

Black hellebore root,

Extract

Extract of favin,
Compound powder of myrrh,
each half an ounce;
Canella alba, two drams;

Syrup of orange peel, as much as is sufficient.

Mix and make them into an elec-

This electary is calculated for promoting the natural evacuations from the uterus: for this purpose, in persons of a plethoric sanguine temperament, it is a medicine of great power; but rarely answers so well in lax phlegmatic habits. In these last, any of the soluble preparations of steel will be attended with the same success which the hellebore is in the former. The mean dose of the composition here prescribed is half a dram.

ELECTUARIUM LENITIVUM, Edinb.

Lenitive electary.

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Polypody roots, three ounces; Sena, two ounces:

Pulp of French prunes, one pound;

Pulp of cafia fiftularis,

Pulp of tamarinds, each half a pound;

Coriander feeds, half an ounce; White fugar, four pounds;

Water, fix pints.

Boil the water with the polypody, till two pints are wasted, adding, towards the end, the sena and coriander seeds: then strain off the liquor, and boil it again with the sugar, to the confishence of a thick syrup, which is to be mixed with the pulps into an electary.

This electary is taken occasionally, to the bulk of a wallnut or more, as a gentle laxative in costive habits. It is likewise frequently used in glysters, for which purpose

it is more convenient than those which have powders in their com-

This preparation is more fimple than that of the officinal pharmacopœia of Edinburgh, already de-fcribed in page 477. The process is well contrived, except with regard to the coriander feeds, the virtues of which are in a great meafure loft by the long boiling. The other ingredients are not injured by that operation; the polypody roots, in particular, are improved by it: these roots in substance have a naufeous, fweet, subacrid tafte; and an ungrateful, though weak, fmell: water boiled with them for a little time becomes impregnated only with their fweetish matter, and their smell; on continuing the coction, the fmell is loft, and the liquor proves almost simply sweet. Spirit of wine has a quite contrary effect on this drug: it extracts the naufeous matter as well as the fweet, and in infpiffation lofes this latter, and retains only the former.

ELECTUARIUM AD NEPHRITICOS, Edinb.

Nephritic electary.

Take of

Lenitive electary, an ounce and a half;

Venice turpentine, one ounce; Eggshells prepared, half an ounce; Choice rhubarb, one dram;

Syrup of marfimallows, as much

as is fufficient.

Diffolve the turpentine in the yolk of an egg, and then mix the whole together, according to art, fo as to make thereof an electary.

This composition is extremely well contrived for cleansing the urinary passages in nephritic disorders. Turpentine, properly divided by earthy

Pharmacopæia Pauperum.

earthy powders, is a fafe, and, at intermittent fevers, in the cure of the same time, one of the most powerful diuretics that can in thefe cases be ventured on : the rhubarb and laxative electary are very ufeful additions; for the belly ought here to be always kept open, tho' the Aronger purgatives are very improper. A dram of the electary may be taken once or twice a day, along with an infusion of marshmallow roots, fweetened with a spoonful of honey.

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ELECTARIUM C CORTICE PERUVIANO. Electary of Peruvian bark. Take of I. Peruvian bark, three ounces;

Cascarilla, half an ounce: Syrup of orange peel, a fufficient quantity.

Peruvian bark, three ounces; Virginian fnake root, one ounce; Syrup of orange peel, a sufficient quantity.

Peruvian bark, three ounces; Crude fal ammoniac, three drams; Syrup of lemon juice, a fufficient quantity.

Peruvian bark, three ounces : Colcothar of vitriol, fix drams; Simple fyrup, a fufficient quantity.

Peruvian bark, three ounces: Alum, one ounce; Syrup of lemon juice, as much as is fufficient.

All these compositions are very elegant and efficacious in the intentions for which they are defigned.

which, the virtues of the bark are greatly affifted by the cafcarilla. The fecond and third are given in those intermittents, which happen in cachectic habits, and persons fubject to obstructions of the viscera, where the bark by itself, on account of its great aftringency, would be prejudicial. The fourth is a good strengthener in laxities of the folids and decays of constituon; and the fifth, a powerful flyptic in fluxes and hæmorrhagies, particularly in the diabetes and fluor albus. The bulk of a nutmer of each may be taken at a time, and repeated according to the exigency of the case.

ELECTARIUM SAPONACEUM, Lufit, Saponaceous electary.

Take of

Hard Spanish foap, two ounces; Pareira brava, one ounce; Rhubarb.

Gum of aloes, each three drams; Syrup of orange peel, a fufficient quantity.

Mix and make them into an elec-

In jaundices arising from an ob-Aruction of the biliary ducts, or a viscidity of the bile itself, this aperient and attenuating electary proves generally a very effectual remedy. Those icterical cases in which this medicine is proper, may be eafily diffinguished by the stools, which are of a whitish or ash colour, and voided with difficulty. The dofe is from half a dram to a dram. twice a day.

How far the pareira brava in this composition contributes to its virtues, we shall not take upon us to determine. Some have recommended this root, as a most powerful attenuant, in a great variety of dif-The first is calculated for common orders (fee page 176.) whilst others

look

look upon it as not superior, if equal, to the common aperient roots (page 229.) The sensible qualities of the pareira discover little foundation for the great character given of it; and a competency of fair trials of its virtue is as yet wanting. It is admitted into the pharmacopæia of Edinburgh; but the London college have not thought it worthy of a place in theirs.

ELECTUARIUM SISTENS, Edinb.

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The firengthening confection,

Extract of logwood, one ounce; Syrup of dry rofes, as much as will reduce them into a proper confidence for an electary.

This electary is excellently well calculated for the relief of dyfenteries, and other intestinal fluxes, after the acrid humors have been duly evacuated by mild cathartics, &c. See the missure antidyserterica, to be described hereafter in their place. The quantity of a nutmeg may be taken every four or sive hours.

Electarium e sulfhure, Luf. Electary of fulphur.

Take of

Flowers of fulphur, half an ounce;

Lenitive electary, two ounces; Syrup of marthmallows, a fufficient quantity to make them into an electary.

This electary is calculated against the piles, and generally distinguished in the hospitals by the title of electarium bamorrhoidale: where the disorder is accompanied with febrile or inflammatory symptoms, some nitre is occasionally added, in

look upon it as not superior, if the proportion of two drams, to equal, to the common aperient the quantity here directed. It may be given from a dram to half an ounce at a time.

ELIXIR STOMACHICUM, Edinb. Stamachic elixir.

Take of

Gentian root, one ounce; Seville orange peel, one ounce and a half;

Cochineal, half a dram; Proof fpirit, two pints.

Let them sleep together for two days, and then strain out the elixir for use.

This is a very elegant and agreeable stomachic bitter, and as such is given in loss of appetite, indigestion, and other like complaints, to the quantity of a spoonful, or half an ounce, at a time.

ELIXIR VITRIOLI, Edinb. Elixir of vitriol.

Take of

Stomachic elixir, one pound; Oil of vitriol, four ounces.

Drop the acid by little and little into the stomachic elixir, and then filter the mixture through paper.

In great weaknesses, or relaxations of the stomach, particularly those which proceed from debauches or high feeding, or where there is any tendency to inflammation, this acid elixir is a medicine of great fervice, and has not unfrequently taken place after simple bitters had failed. The dose is thirty drops, to be takes twice a day in any convenient vehicle.

It has been doubted by fome whether the acid elixirs of vitriol, as they are called, are to be looked upon in any other light than as a mixture of the vitriolic acid with vinous fpirits; the acid precipitating what the fpirit had

Pharmacopæia Pauperum.

before taken up from the other ingredients. But altho' it must be admitted, that upon adding the acid to the spirituous tincture, a copious precipitation ensues; yet so much of the bitters, which the spirit was impregnated with, still remains suspended, as to be manifestly sensible to the taste.

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EMPLASTRUM ANDUNO-DISCUTIENS, Luf. An anodyne and discutient plaster.

Cummin plaster, two ounces; Camphor, three drams; Thebaic extract, one dram and half;

Grind the camphor, with fome drops of oil olive, into a very fubtile powder, and then mix it with the other ingredients, according to art, into a plaster.

EMPLASTRUM CALIDUM, Edinb. Warm plasser.

Take of
Gum p'after, one ounce;
Blistering plaster, two drams.
Melt them together over a gentle
fire.

EMPLASTRUM CEREUM, Edinb.

Wax plaster.

Take of
Yellow wax, four pounds;
White refin, two pounds;
Suct, one pound and a half.
Melt them together.

EMPLASTRUM DEFENSIVUM,

Defensive plaster.

Take of
Litharge prepared, two pounds;
Oil olive, four pounds;
Bole armenic, prepared,
Yellow wax, each fix ounces;
Olibanum,
Venice turpentine, each four
ounces;

Dragons blood in powder, two

Boil the oil with the litharge, till they have almost acquired the consistence of a plaster; then melt therein the wax and olibanum; and afterwards add the bole, dragons blood, and turpentine.

Emplastrum epispasticum, Edinb.

Blissering plaster.

Burgundy pitch, twenty ounces; Venice turpentine, Cantharides in powder, each fix ounces.

Make them into a plaster.

EMPLASTRUM GUMMOSUM,
Edinb.

Gum plaster.

Take of

Palm oil, four pounds;
Litharge prepared,
Gum ammoniacum,

Galbanum, each one pound and a half;

Boil the oil with the litharge, till they have almost acquired the consistence of a plasser, to which add the ammoniacum and galbanum.

EMPLASTRUM STOMACHICUM, Edinb. Stemach plafter.

Take of

Yellow wax, eight ounces
Tacamahacca in powder,
Palm oil, each four ounces;
Cloves in powder, two ounces;
Expressed oil of mace, one ounce and a half.

Melt the wax and tacamahacca with the palm oil, and mix therewith, according to art, the cloves, and oil of mace, so as to make the whole into a plaster; which, when when spread, is to be rubbed over with a few drops of essential oil of mint.

EMPLASTRUM SUPPURANS,
Edinb.
Suppurating plaster.

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Gum plaster, an ounce and a half;

Burgundy pitch, half an ounce. Melt them together.

The uses of these compositions may be fufficiently understood from their titles. We shall only observe, that the gum plaster is a good difcutient, and supplies the place of the officinal emplafirum commune, or diachylon, cum gummi: that the warm plaster is a very stimulating application, of great use in all fixt pains, whether of the limbs, or internal parts, as in the rheumatifm, fciatica, gout, dyfenteries, pleuri-fies: and that fuch pains as do not yield to this, are frequently removed by the bliftering plafter. In fimple pleurifies, a large blitter laid on the fide affected, after bleeding, is the most successful remedy : applied to any other place, it might flimulate and increase the disease; but by acting directly upon the part, it resolves the obstruction, and thereby removes the fever. In peripneumonies alfo, blifters are most to be relied upon after bleeding. See Dr. Pringle's excellent observations on the difeases of the army, page 17.2, &c. where the reader will meet with full latisfaction with regard to the use of blifters both in acute and chronical difeafes. Aind a bus

EMULSIO CAMPHORATA, Edinb.

Take of Camphor, one feruple; Sweet almonds, four; Rue water, four ounces;
Plague water,
Simple fyrup, each one ounce.
Grind the camphor with the almonds, and add by degrees the rue water, fo as to make them into an emulion; with which mingle the plague water and the

This is a very convenient form for the exhibition of camphor, the unctuous quality of the almonds covering its acrimony, at the fame time that it is rendered miscible with the animal juices. In fevers which require the assistance of this powerful diaphoretic drug, as poonful of this emulsion is usefully taken every three or four hours.

Emulsio oleosa, Luf.

Take of

Oil olive, a quarter of a pint; Spirit of harthorn, two drams; Simple penny royal water, twelve

Pectoral fyrup, an ounce and a half;

Mix them together.

This composition is calculated against recent colds, for alleviating the cough, and promoting expectoration: in these cases, oily and mucilaginous substances by themselves (after bleeding) are of good service, tho' much more effectual when thus combined with volatile spirits. Where the complaints are of long standing, these kinds of medicines have no place; nor is their use in any case to be long continued, as they relax the stomach, pall the appetite, and increase the disorder.

ENEMA de AMYLO, Edinb. Starch glyster.

Take of

002

Gelly

Pharmacopæia Pauperum.

Gelly of flarch, four ounces;
Linfeed oil, half an ounce.
Liquefy the gelly over a gentle fire, and then mix in the oil.
Forty drops of liquid laudanum are fometimes added.

ENEMA ANODYNUM, five
OPIATUM,
Anodyne or opiate glyfler.
Edinb.

Take of
Infusion of linseed, six ounces;
Liquid laudanum, forty drops.

Luf.
Mutton broth, five ounces;
Thebaic extract, three grains.

ENEMA ANTICOLICUM, Edinb.

Glysler against the colic.

Common decoction, half a pint;
Tinctura facra, one ounce;
Common falt, one dram;
Linfeed oil, two ounces.
Mix them together.

ENEMA ASTRINGENS, Edinb.

Aftringent glyfter.

Take of
Lime water, ten ounces;
Strengthening confection, half
an ounce.

Mix them together for a glyster, of which one half is to be injected at a time.

ENEMA ASTRINGENS

BALSAMICUM, Edinb.

Astringent balfamic glyster.

This is made by adding to the foregoing half an ounce of Locatelli's balfam, dissolved in the yolk of an egg.

ENEMA COMMUNE, Luf. Common glyster.

Take of Common decoction, twelve ounces;

Lenitive electary, one ounce; Common falt, half an ounce; Oil olive, two ounces. Mix them together.

ENEMA DOMESTICUM, Edinb.

Domestic glyster.

Take of
Cows milk, half a pint;
Brown fugar,
Oil olive, each one ounce.
Mix them together.

Enema emolliens, Edinb.

Emollient glyster.

Take of
Palm oil, an ounce and a half;
Cows milk, half a pound.

Let the oil be beat up with the yolk of one egg, and then add

the milk.

ENEMA FOETIDUM, Edinb. Feid glyster.

Take of
Afafetida, two drams;
Rue,
Savin, each half an ounce;
Oil olive, one ounce;
Oil of amber, half a dram;
Water, one pint and a half.

Boil the water with the rue and favin, till half a pint is wasted; then strain off the remaining decoction, and mix with it the afafetida and the oils. Half the quantity of the composition here directed, is to be injected at a time.

ENEMA PURGANS, Edinb.
Purging glysten.

Take of
Common decoction, half a pint;
White foap, one ounce;
Syrup of buckthorn, an ounce
and a half.
Mix them together.

Enema terebinthinatum, Edinb. TurpenTurpentine glyster.

Take of

Common decoction, ten ounces; Venice turpentine (diffolved in the yolk of an egg) half an ounce;

Linfeed oil, one ounce. Mix them together.

The uses of these compositions are fufficiently obvious from their titles. The ftarch, anodyne, emollient and aftringent glyfters, are used in dysenteries, and other alvine fluxes, to firengthen the tone of the intestines, defend them from being corroded by the acrimonious humors, to heal their exulcerations, and eafe the pains which accompany thefe diforders. The turpentine glyster is injected in nephritic cases; the fetid in hysteric ones. The others are calculated for unloading the intestines of their contents, where the exhibition of purgatives in other forms is improper, or unfafe.

Glysters have been looked upon by some as mere topical applications, whose operation was confined to the intestines into which they are received. But experience has shewn, that in many cases their action is extended much farther: thus the turpentine glyster, above described, promotes the discharge by the kidneys, and communicates to the urine a violet fmell; and the anodyne glyster proves narcotic, as if a moderate dose of opium had been fwallowed: persons have been inebriated by spirituous glysters; and fome affirm, that life has been subported for feveral days, by those of a nutritious kind.

Expressio MILLEPEDARUM,
Edinb.

Expression of millepedes.
Take of

Live millepedes, three ounces; Fennel water, one pint; Compound horse radish water, half a pint;

Beat the millepedes in a mortar, gradually pouring on the waters; and then ftrongly press out the liquor.

This liquor is supposed to be a good aperient and diuretic; and in these intentions is given in the jaundice, asthma, infarctions of the breast, and other like disorders: the dose is two ounces, twice a day.

Forus anodynus, Edinb.

Anodyne fomentation.

Take of

Garden poppy heads, one ounce; Elder flowers, half an ounce; Water, three pints.

Boil them till one pint is wasted, and then strain out the liquor for use.

Forus Aromaticus, Edinb.

Aromatic fomentation.

Take of Cloves,

Mace, each one dram; Red wine, one pint.

Boil them a little and ftrain off the liquor.

Forus Roborans, Edinb. Strengthening fomentation.

Take of

Oak bark, one ounce; Granate peel, half an ounce; Alum, two drams;

Forge water (that is, water in which red hot iron has been feveral times quenched) three pints.

Boil the water with the oak bark and granate peel, to the confumption of one third; then firain the remaining decoction, and diffolve in it the alum.

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Thefe liquors are defigned chiefly. as their titles express, for external use, to be rubbed warm on the ficin. The first is applied to tumefied and inflamed parts, as in the eryfipelas and piles, for eafing the pain; which it effects, not by means of the opiate matter of the poppy heads, but by the warm fluid foftening and relaxing the fkin. The fecond extends its action farther: the pains of the bowels which accompany dyfenteries and diarrhoeas, colicky pains, uneafiness at the stomach, and retchings to vomit, are greatly relieved, and not unfrequently removed by it. The third is a flrong aftringent liquor, and in this intention is used, as an injection in the fluor albus,

GARGARISMA ASTRINGENS,

Astringent gargarism.

Take of

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Oak bark, one ounce;
Alum, one dram;
Honey of roses, one ounce;
Water, a pint and a half.

Boil the water with the oak bark, till such time as the liquor, when strained, will amount only to one pint; to which add the alum and the honey.

GARGARISMA COMMUNE, Luf.

Common gargarifm.

Take of
Tincture of rofes, one pint;
Honey of rofes, two ounces.
Mix them together.
Edinb.

Take of

Water, fix ounces;
Nitre, one dram;
Honey of rofes, one onnce.
Mix them together. Where acids

Mix them together. Where acids are requifite, forty drops of the weak fpirit of vitriol are added to this composition.

GARGARISMA DETERGENS,

Detergent gargarifm.

Emollient decoction, one pint; Tincture of myrrh, one ounce; Honey, an ounce and a half. Mix them together.

GARGARISMA EMOLLIENS,

Emollient gargarifm.

Take of

Marshmallow root, two ounces;
Figs, four in number;
Water, three pints.

Boil them till one pint is wasted, and then strain the liquor.

These liquors are used for washing the mouth and sauces; the first, where the parts are extremely relaxed; the second and third, where ulcerations require to be deterged, or the excretion of thick visicid saliva promoted; and the fourth, where the mouth is dry, parched and rigid, to moissen and soften it.

In fome cases, volatile spirits may be advantageously joined to these kinds of preparations. Dr. Pringle informs us, that in the inflammatory quinfey, or flrangulation of the fauces, he has observed little benefit arising from the common gargles; that such as were of an acid nature feemed to do more harm than good, by contracting the emunctories of the faliva and mucus, and thickening those humors; that a decoction of figs in milk and water feemed to have a contrary effect, especially if some fpirit of fal ammoniac was added, by which the faliva was made thinner, and the glands brought to fecrete more freely, a circumstance always conducive to the cure.

> HAUSTUS DIAPHORETICUS, Edinb. Diaphoretic draught.

Take of

Spirit of Mindererus,
Syrup of meconium, each half
an ounce;
Salt of hartfhorn, five grains.
Mix them together.

This draught is a very powerful diaphoretic, more certain in its effects than the medicines given in this intention in a folid form. In the beginning of inflammatory fevers, after bleeding, it is one of the furefl febrifuges: theriaca, and other warm fubflances ufually employed, if they fail in bringing out a fweat, increase the fever; whilst this faline preparation operates without heat.

HAUSTUS DIURETICUS, Luf.

Take of

Diuretic falt, two fcruples;

Oxymel of fquills, one dram by
meafure;

Water, an ounce and a half. Mix them together.

Take of 2.
Tincture of cantharides, fifteen drops;
Salt of wormwood, half a dram;
Lemon juice, fix drams;
Simple penny royal water, an ounce and a half;

Simple fyrup, two drams. Mix them together.

Both these are medicines of great efficacy for the purpose expressed in the title. The first, called in the hospital mitior, is given in dropsies, where a plentiful flux of orine is of primary consequence to the cure. The second, very justly distinguished by the appellation fortior, is ventured on in those cases only where the urinary passages are obstructed by viscid mucas, and where medicines of a less stimulat-

ing kind have been tried without fuccess.

INFUSUM ANTISCORBUTICUM,
Edinb.
Antiscorbutic infusion.

Take of

Buckbean leaves, two ounces;

Seville orange, half an ounce;

Compound horie radifh water,

four ounces;

Common water, four pints.

Let the common water, boiling, be poured on the buckbean and orange, and fuffered to stand in a close vessel for a night; then strain out the liquor, and add to it the horse radish water.

This infusion is a very useful, and sufficiently elegant antiscorbutic; buckbean appears from experience to be one of the most efficacious of the herbs of that class; the ingredients here joined to it alleviate its ill flavour, and at the same time promote its virtue. A quarter of a pint of the liquor may be taken three or four times a day.

INFUSUM CEPHALICUM, Edinb. Cephalic infusion.

Take of
Wild valerian root, two ounces;
Rofemary, or fage, half an
ounce;

Aromatic water, four ounces; Common water, four pints.

Let the common water be poured, boiling, on the herb and root, and fuffered to fland for a night in a close vessel; then strain out the infusion, and add to it the aromatic water.

In epileptic diforders; and other like affections of the nervous fyftem, this infusion has frequently good effects. The dose is a quarter of a pint, to be taken twice a day.

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INFUSUM DIURETICUM, Diuretic infusion.

Take of

Wormwood leaves, dried, half an ounce ;

Salt of tartar, two fcruples : Compound juniper water, two ounces:

Common water, twelve ounces. Pour the common water, boiling, on the wormwood and falt of tartar, and when grown cold, ftrain off the liquor, and mix with it the juniper water.

A long continuance of bilious fevers, or frequent relapses into them, bring on obstructions of the viscera, which end in a dropfy, jaundice, or irregular intermittent. In these cases, this aperient alcaline liquor is one of the most effectual remedies: the quantity here prescribed, is to be taken every day, at three dofes, and a purga tive occasionally interposed. If intermittent severs return after the cure of the other diforders, they are then fuccefsfully treated by the bark.

Preparations of this kind are likewife of confiderable use in maniacal diforders; in which, as Dr. Mead observes, evacuations by the kind, and accompanied with febrile pint, to be taken twice a day. heat. Alcaline falts, given in large dofes, are here the most effectual diuretics.

INFUSUM LINI, Edinb. Infusion of linseed.

Take of

Linfeed, whole, two spoonfuls: Liquorice, shaved, half an ounce; Boiling water, four pints.

Let them fland in infusion by the fire for fome hours, and then ftrain off the liquor.

An ounce of coltsfoot leaves is fometimes added to thefe ingredients; which addition procures the medicines the title of pestoral infusion. Both infusions are fost, emollient, mucilaginous liquors; and as fuch they are directed in defluxions of thin acrid rheums, and erofions of the veffels. They are given to the quantity of a pint a day.

> INFUSUM PARALYTICUM, Paralytic infusion.

Take of

Horse radish root, shaved, Mustard seed, bruised, each four ounces;

Boiling water, four pints. Let them steep together, in a close veffel, for twenty-four hours.

This infusion is strongly impregnated with the pungency of the mustard feed and horse radish, which by this fimple process give out the whole, of their virtues, Though the medicine is defigned chiefly (as its title expresses) for a stimulant in paralytic complaints, there are feveral other diforders in which it may be exhibited to good advantage; in fcorbutic cafes, in particular, it promifes to be a remedy of great utility: it generally kidneys are of greater confequence promotes the urinary discharge, than is generally supposed; espe- and if the patient is kept warm, cially if the mania is of the furious perspiration. The dose is half a

> INJECTIO BALSAMICA, Edinb. Balfamic injection.

Take of

Balfam of copaiba, half an ounce;

Lime water, fix ounces; Honey of roses, two ounces.

Let the balfam be well beat up with the yolk of one egg; and then gradually add the lime water and honey.

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Mercurial injection.

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Onickfilver.

Balfam of copaiba, each half an ounce:

Rose water, half a pint.

Rub the quickfilver with the balfam, till they are perfectly incorporated; then mix with them the yolk of an egg, and afterwards add the role water.

This and the foregoing preparation are defigned to be injected into the urethra in virulent gonorrheas, for cleanfing and deterging the parts.

JULAPIUM AMMONIACUM, Edinb. Ammoniacum julep.

Take of

Milk of ammoniacum, four ounces :

Syrup of fquille, three ounces. Mix them together.

Ammoniacum and fquills are medicines of known efficacy in afthmatic diforders. This julep is an pfeful composition of these powerful drugs; and in obstinate coughs, afthmas, and oppressions at the breaft, proves frequently of excel- very powerful fudorific, and anto be taken twice a day.

JULAPIUM ANTIHYSTERICUM, Edinb.

Antibysteric julep.

Take of

Penny-royal water, four ounces; Antihysteric water, two ounces; Tincture of castor, two drams; Salt of hartshorn, ten grains; or fpirit of amber, one dram; White fugar, fix drams.

Mix them together.

The virtues of this composition are fufficiently obvious from its

INJECTIO MERCURIALIS. Edinb. title : the dose is two spoonfuls, to be taken twice or thrice a day.

> JULAPIUM CARDIACUM, Edinb. Cordial julep.

Take of

Alexeterial water, four ounces: Aromatic water, two ounces; Volatile oily spirit, Tincture of faffron, each two

drams:

White fugar, half an ounce. Mix, and make them into a julep.

This mixture is an ufeful cordial in all depressions of the spirits, in the finkings of low fevers, and the languors, to which hysterical and hypochondriacal persons are subject. An ounce, or two spoonfuls, may be taken for a dofe, two or three times a day.

JULAPIUM DIAPHORETICUM, Diaphoretic julep.

Alexeterial water, four ounces; Spirit of Mindererus, two ounces; Salt of hartshorn, ten grains;

White fugar, fix drams. Mix them for a julep.

This excellent composition is a lent fervice. Two spoonfuls are swers its intention more effectually, and with greater certainty, than many others calculated for the fame purpose.

Where a copious sweat is to be excited, as in rheumatic diseases, two spoonfuls are to be taken warm in bed every hour, or two hours, till the fweat breaks out; if warm diluting liquors are not afterwards fufficient to keep it up, the same medicine is to be occasionally repeated.

JULAPIUM DIAPHORETICUM, ACIDUM, Edinb.

Acid

Acid diaphoretic julep.

Take of Alexeterial water, four ounces; Treacle vinegar, two ounces; Tincture of faffron, half an

ounce; Spirit of amber, one dram; White fugar, one ounce. Mix them together.

The acid quality of this diaphoretic julep renders it peculiarly adapted to those disorders in which any of the internal parts are inflamed, as in pleurifies and peripneumonies. It is given in the same dose as the preceding.

JULAPIUM DIURETICUM, Edinb. Diuretic julep.

Take of

Spirit of Mindererus, four ounces; Compound horse radish water, two ounce;

Syrup of marshmallows, three ounces.

Mix them together.

The spirit of Mindererus is an excellent aperient faline liquor, capable of promoting evacuation either by the cutaneous pores, or the urinary passages, according to the manner of exhibiting it. We have already feen, that when taken warm in bed, it proves a powerful fudorific; especially if assisted by volatile falts, fmall doses of opiates, or other fubflances which tend to determine its action to the fkin. If the patient walks about, in a cool air, it operates gently, but for the most part effectually, by urine: the additions here joined to it, correspond with this intention, and promote its operation. As this medicine excites the urinary discharge, the oil of hartshorn. without heating, or irritating the parts, it takes place not only in dropfies, but likewife in inflamma-

tory diforders, wherever this falutary fecretion is to be promoted. It is given to the quantity of two fpoonfuls, thrice a day.

A dram of spirit of amber is fometimes mixed with this julep, which nevertheless does not feem to receive from that ingredient any additional virtue : whatever virtues the falt of amber may possess (which probably are not fo great as is generally supposed) the spirit is impregnated therewith in an extremely low degree; the falt not beginning to arife, till fome time after the fpirit, or phlegm has ceafed to diffil.

The dose of the spirit by itself is half an ounce, or one spoonful; and of this composition, two spoonfuls, to be taken thrice a day. In fome cases, larger doses may be given to better advantage, parti-

cularly in dropfies.

JULAPIUM FOETIDUM, Edinb. Fetid julep.

Take of

Afa fetida, one dram and a half; Rue water, fix ounces; Antihysteric water, two ounces; Oil of hartshorn, twenty drops; White fugar, ten drams.

Rub the afa fetida in the rue water till it dissolves, and having dropt the oil upon the fugar, mix the whole together.

This composition is not a little fetid and unlightly; it is nevertheless a medicine of great efficacy, not only in hypochondriacal and hysterical disorders, but likewise in afthmas, epilepfies, and nervous complaints; the dose is one spoonful, to be taken thrice a day.

It is fometimes prepared without

JULAPIUM HYDRAGOGUM, Edinb. Hydragogue julep. Take falud. It two

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Edinb.

Take

Take of Chamemel flower water, fix ounces;

Emetic tartar, ten grains; Syrup of buckthorn, two ounces; Mix them together.

Two fpoonfuls of this julep are given in hydropic cases, every two hours, till it takes sufficient effect as a purgative; which it generally does before the quantity here prescribed has been made use of. Emetic tartar, thus exhibited in small doses, and frequently repeated, prove as certain and powerful a cathartic, as it does an emetic, when given in a larger quantity at once. It operates nevertheless with sufficient ease, and rarely weakens or fatigues the patient so much, as some other purgatives, which do not occasion so large an evacuation.

JULAPIUM MOSCHATUM, Edinb. Mufk julep.

Take of

Rose water, fix ounces;
Volatile oily spirit, one dram
and a half;
Musk, sisteen grains;
White sugar, half an ounce.

Grind the musk with the sugar, and then mix therewith the other ingredients.

In diforders where musk is proper (see page 163.) one spoonful of this julep is given three or four times a day, according to the urgency of the case. The volatile spirit (to be described hereaster in its place) excellently coincides with the musk, and promotes its virtue.

JULAPIUM SCILLITICUM, Edinb. Scillitic julep.

Take of
Hyflop, or fennel, water,
Syrup of fquills, each three
ounces.

Mix them together.

In all cases where squills are serviceable, whether as a diuretic in dropsies, or as a deobstruent and expectorant in asthmas, two spoonfuls, or an ounce, of this julep, may be usefully taken twice a day.

JULAPIUM SISTENS, Edinb:

Take of

Alexeterial water, four ounces;
Aromatic water, two ounces;
Strengthening confection, two
drams;

Japan earth, in powder, one dram;

Liquid laudanum, forty drops; White fugar, half an ounce. Mix them well together.

This julep is calculated against dyfenteries and diarrhœas; in which, after proper evacuations, it generally eases the gripes, and restrains the flux. It is to be given three or four times a day, in the quantity of a spoonful at a time.

LAC ASTRINGENS, Luf.

Astringent milk.

Take of

Cows milk, one pint; Granate peel, bruifed, half an ounce;

Cinnamon, bruifed, two drams.

Set them over the fire, and as foon as the milk fwells up, pour in a little water to make it fubfide; proceed in this manner, till a pint of water is thus confumed, and only a pint of liquor remains, which is to be passed through a strainer for use.

In hectic diforders, phthifes and ulcerations of the lungs, milk is frequently of good fervice: but it fometimes happens, that when the body stands most in need of this nu tritious

tritious, as well as medicinal liquor, the intestines are too slippery to retain it. For such cases this preparation is contrived, the astringent quality with which the milk is here impregnated, strengthening the bowels, so as to prevent its running off. The quantity, above prescribed, is to be taken every day, divided into different doses at pleasure, and sweetned, if necessary, with sugar.

It may here be proper to obferve, that there are not only fome conflitutions with which milk difagrees, but likewife fome difeases in which it is highly prejudicial: fuch are in particular, (as Dr. Mead observes from Hippocrates) pains of the head and acute severs, and excessive drought proceeding from thence, swellings of the pracordia, bilious fluxes, and dysenteries.

LAC FERRATUM, Edinb.

Milk impregnated with iron.

This is prepared by quenching redhot iron in new milk, and repeating the process till one fourth of the liquor is exhaled.

The milk feems to gain by this process, little more than an empyreumatic taste. The preparation is nevertheless looked upon as lightly impregnated with the virtues of iron, and supposed to be an useful astringent in the diabetes, diarrheea, and dysentery. It is given twice a day, to the quantity of a quarter of a pint at a time.

LAC MARTIS, Luf.

Take of
Salt of fleel, one ounce;
Gum Arabic, a dram and a half;
Boiling water, one pint.

This folution of the falt of iron is very strongly impregnated with

that metal, the virtues of which have been already sufficiently explained. See page 321, &c. As this solution is of a disagreeable rough taste; and as the common salt or vitriol, of iron, generally contains a portion of metal, not sufficiently salt sufficiently salt sufficiently salt sufficiently salt sufficiently added, to prevent that unsightly sediment, and somewhat cover the roughness of the see.

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Laudanum Liquidum, Edinb.

Liquid laudanum.

Take of

Opium, two ounces; Aromatic water, twenty ounces. Digest with a gentle heat, till the

opium is diffolved, and then firain out the liquor.

The proof spirit, here directed, readily and totally diffolves the opium, and proves an excellent menstruum for that drug, where the liquor is not defigned to be long kept. We have already obferved, that in keeping, a confiderable part of the opium separates, whence the medicine becomes uncertain in point of strength; and that when opium is thus diffolved in a small quantity of sluid, the dofe, which can be determined only by drops, is precarious. See page 410; and 435, where a liquid opiate is described, free from these inconveniencies. We shall here only add, that the laudanum above directed, is of the fame strength, in regard to the opium, with that of the Edinburgh pharmacopæia, twenty-five drops, containing, at a medium, one grain of opium; and that the same quantity of opium is contained in twenty drops of the tindura thebaica of the London pharmacopœia.

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LINIMENTUM ANODYNUM, Edinb.

Anodyne liniment.
Edinb.

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Nerve ointment, three ounces; Balfam of turpentine, one ounce. Mix them together.

LINIMENTUM HOEMORRHOIDALE,

Take of

Emollient ointment, two ounces; Liquid laudanum, half an ounce; Mix these ingredients with the yolk of au egg, and work them well together.

LINIMENTUM MERCURIALE, Edinb.

Mercurial liniment .

Take of

Hog's lard, one ounce;
White precipitate of mercury (prepared, as directed in the Edinburgh pharmacopæia, fee page 340 of this work) one dram.

Mix them together.

The titles of the three foregoing compositions are sufficiently expressive of their virtues, without any farther comment. They are all very well contrived for answering their respective intentions.

LINIMENTUM VOLATILE.

Take of

Oil of harthorn, Spirit of harthorn, each equal parts.

Mix them together.

In the inflammatory quinfey, or firangulation of the fauces, a piece of flannel, moistened with this mixture, and applied to the throat, to be renewed every four or five hours, is one of the most efficacious remedies. By means of this warm stimulating application, the

neck, and fometimes the whole body, is put into a fweat, which, after bleeding, either carries off, or lessens the inflammation. Where the skin cannot bear the acrimony of this mixture, the volatile liniment of the shops may be made trial of.

LINCTUS ACIDULUS, Luf.

Take of

Conferve of red rofes, two

Weak spirit of vitriol, four scruples, or as much as is sufficient to give a grateful acidity. Mix them together.

LOHOCH BALSAMICUM, Edinb.

Balfamic lohoch.

Take of

Sperma ceti, two drams;
Balfam of Peru, forty drops;
Syrup of marshmallows, two
ounces.

Let the sperma ceti and balsam be well worked up with a sufficient quantity of yolks of eggs; and then mix with them the syrup.

Lohoch commune, Edinb.

Take of

Fresh drawn linseed oil, Syrup of marshmallows, each two ounces.

Mix them together.

LOHOCH PECTORALE, Edinb.

Pestoral loboch.

Take of

Sperma ceti, White foap, each two drams; Fresh drawn linfeed oil, one

ounce and a half; Syrup of marshmallows, three

ounces. Mix them together.

Linctus solutivus, Luf.

574

Solutive loboch.

Take of

Conferve of hipps, one ounce; Solutive fyrup of rofes,

Oil olive, each four ounces. Mix, and make them into a lohoch.

Lohochs are principally made nse of in disorders of the internal parts of the mouth, fauces, cefophagus, larynx, trachea, and bronchia. The acidulous lohoch (which is far the most agreeable of them, and of an elegant red colour) is given as a light refiringent and detergent in phthifical cates; the common lohoch, as an emollient in the aphthæ, and other like complaints; and the pectoral, in diforders of the breaft. Befides, intentions of this kind, the folutive lohoch gently loofens the belly; whilft the balfamic tends to restrain immoderate fluxes, by fomewhat strengthening the bowels, and defending them from the irritation of acrimonious

MAGNESIA ALBA, Edinb.

White magnesia.

Take any quantity of the motherley of nitre, that is, the liquor which remains after the cryftallization of rough nitre. Add to this a ley of potash, by degrees, as long as any precipitation ensured then, pouring off the liquor, carefully wash the precipitated powder with warm water.

This powder was, for feveral years, a celebrated fecret in the hands of fome particular persons abroad. Its preparation was first communicated to the public by Hossiman, who gives it the character of an useful antacid; a safe and inosfensive laxative in doses of a dram or two, and a diaphoretic and diuretic, when given in smaller

dofes of fifteen, or twenty grains. Since this time, it has had a confiderable place in the practice of foreign physicians, and now begins to come into effeem among us, particularly in heartburns, and for preventing or removing the many diforders which children are fo frequently thrown into from a redundance of acid humors in the first paffages: it is preferred on account of its laxative quality to the common abforbents, which (unless gentle purgatives are given occasionally to carry them off) are apt to lodge in the body, and occasion a costivenefs very detrimental to infants.

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Though the preparation of this medicine is now commonly known, its nature and properties are very little underflood: whilft fome suppose it to possess uncommon virtues, others affirm, that, when duly edulcorated, it is in no respect different from calcined hartshorn, or any other simple animal, or vegetable earth. We apprehend the following observations will deter-

mine this affair.

Magnefia alba, when prepared in perfection, is a white and very fubtile earth, perfectly void of finell or tafte; of the class of those which diffolve in acids, but differing from the common earths of this kind, in dissolving into a bitterish purgative liquor: it yields with the vitriolic acid a fal catharticus amarus, very eafily foluble in water; whilft the common abforbents form with the fame acid an infipid crystalline mass, very difficult of folution. A large dofe of the magnefia, if the flomach contains no acid to diffolve it, does not purge; a moderate one, if an acid is lodged there, procures feveral flools: the testacea, though the body abounds with acidities, very rarely loofen the belly in the leaft degree.

Magne-

Magnefia therefore is really different from the absorbents of the fhops, or the common foluble earths. Nevertheless the motherley of nitre, from which it is prepared, appears both from the manner of its production and experiments made upon it, to be no other than a folution of the earthy part of vegetable ashes, &c. in a mixture of the nitrous and marine acids totis from hence, that fome have believed the magnefia (or powder feparated from this liquor, and freed from the acids) to be fimiler to the common earths. This conclusion is too hastily drawn; for feveral fubitances, if combined with the marine acid, and afterwards perfectly separated from it, are found to have affumed properties which they had not before: thus fixed alcaline falts, which in their common flate form with the vitriolic acid a vitriolated tartar, after they have been united with the marine acid, yield a falt of different qualities, the fal catharticus Glauberi (see page 293); and some of the foluble earths, from which only an infipid concrete was before obtainable by that acid, yield with it, after their feparation from the marine, a fal catharticus amarus (fee page 195.)

It is evident from this account, that if the magnefia shall be found to answer what some trials have given room to expect, the motherley of nitre is not the only fubftance from which it may be prepared. The reduction of the officinal absorbents, indeed, into a perfect magnefia, or foluble purgative earth, is not to be effected but by a procefs, which is attended with difficulty and trouble: but we have discovered fimilar productions eafily procurable. The terrefrious matter which alcaline falts precipitate so copiously from the bittern of fea Mix them together.

water, from folutions of the common fal catharticus amarus, made from that bitter liquor, and of the falts of the purging mineral waters, are in no other respect distinguishable from it, than in possessing a greater degree of that quality for which the magnefia is particularly recommended.

> MISTURA ALEXETERIA, Alexeterial mixture.

Take of

Common water, four ounces; Spirituous alexeterial water with vinegar,

Julep of camphor, each one ounce and a half;

Compound powder of contrayerva, four scruples; Nitre, two fcruples;

Syrup of orange peel, fix drams, Mix them together.

In hospitals and places ill aired, common inflammatory fevers fometimes change into putrid and malig-nant ones. To guard against any accident of this kind, it is adviseable, as foon as the inflammation begins to abate, or the pulfe to fotten, to exhibit three or four spoonfuls of this alexipharmac mixture every fix hours. Camphor feems to answer best when thus given in a liquid form; and to be most efficacious in such small doses, for abating inflammation and neryous fymptoms, and likewife for promoting a gentle diaphoresis.

MISTURA ANTIBYSENTERICA. Antidyfonteric mixture.

Take of L. Simple cinnamon water, feven ounces;

Spirituous cinnamon water, one ounce;

Electary of foordium with opium, halfan ounce.

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Take of 2. Extract of logwood, three drams;

Tincture of Japan earth, two drams;

Spirituous cinnamon water, one ounce;

Common water, feven ounces.
Diffolve the extract in the cinnamon water, and then add the common water, and the tincture.

In recent dyfenteries, after the necessary evacuations, a spoonful or two of either of these mixtures may be given after every motion, or once in four or five hours: if the first, which is a mild opiate, fails of procuring reft, it is a fign that fome of the corrupted humors still remain in the bowels, and that it is more proper to go on with the evacuation, than to suppress the flux. These medicines will sometimes likewife take place in the last flage of the difease, when through neglect or mismanagement it has continued till the firength is much impaired, the intestines greatly relaxed, and their villous coat abraded; provided there are neither ichorous or involuntary stools, aphthæ, petechiæ, hiccup, or great anxiety at the breaft. Rhubarb, and these aftringents, are to be so interposed, that at the same time the putrid humors are dislodged, the firength may be supported, and the intestines braced. See Dr. Pringle's excellent observations on the difeafes of the army, page 254, & fea. where the reader will find a full and fatisfactory history of the fymptoms and cure of this diftemper, fo frequent and fatal in the

MISTURA ad PHTHISIN.
Mixture against the philisis.

Take of . 1.
Ballam of copaiba, one dram;
Common water, four ounces;

Spirituous cinnamon water, one ounce:

Syrup of orange peel, half an ounce.

Let the balfam be diffolved in a proper quantity of yolk of egg, and then mixed with the other ingredients.

Take of
Thebaic extract, one grain;
Conferve of rofes, half a dram.
Mix them together, for a bolus.

Take of Oxymel of fquills, a dram and a half;

Thebaic tincture, fifteen drops; Spirituous cinnamon water, two drams;

Common water, two ounces. Mix them together.

In the advanced flate of a confumption, we may diffinguish two forts of coughs, one occasioned by the ulcers, and the other by a thin rheum falling upon the fauces and trachea, which parts being then deprived of their mucus, become extremely sensible to irritation. It is this last kind, perhaps, which is most painful and teazing to the patient. The same medicines are not proper for both.

The first fort requires balfamics, if the ulcer is open, and the matter can be expectorated. For this purpose, the first of the above mixtures is a very elegant and effectual formula; two spoonfuls are to be taken at a time, twice a day. If the balfam purges, two drams of the paregoric elixir, added to the quantity of the mixture here prescribed, will prevent that effect.

The other kind of cough can only be palliated by incraffants; and for that purpose, the second of the above compositions is one of the most successful medicines. The conserve is

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adapted to the nature of the disease, but of weak virtues: the opiate extract is the most efficacious inoredient, but is to be given with great caution, as opiates in general are apt to heat, to bind the body, and to obstruct expectora-

As these bad qualities are in good measure corrected by squills; as foon as the patient begins to complain of restless nights from coughing, the third mixture may be usefully exhibited at bed time.

MISTURA E VALERIANA, Luf. Valerian mixture.

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Simple pepper mint water, twelve

Wild valerian root, in powder, one ounce;

Compound spirit of lavender, half an ounce;

Syrup of orange peel, one ounce. Mix them together.

Wild valerian root, one of the principal medicines in epilepsies and vertigo's, feems to answer better when thus exhibited in substance, than if given in form of tincture or infufion. The liquors here joined to it excellently coincide with, and by their warmth and pungency greatly improve its virtues. Two spoonfuls of the mixture may be taken twice or thrice a

OLEUM CAMPHORATUM, Edinb. Campborated oil. Take of

Fresh drawn linseed oil, one ounce;

Camphor, half an ounce. Mix them together.

This preparation is defigned for external uses only, as an anodyne

altogether fafe, and otherwife well and discutient, in cases of burns. rheumatic or gouty pains, &c. tho' camphor thus diffolved in oil might not inelegantly be exhibited internally.

> PILULE ex ALLIO, Edinb. Garlic pills.

Take of

Garlic, White foap, each half an ounce: Millepedes prepared, a fufficient quantity to reduce the other ingredients into a mass of a proper confistence for pills.

In coughs and afthmas, where the breaft is oppressed by viscid phlegm, this attenuating and aperient composition is frequently of great fervice. If every dram of the mass is made into twelve pills, five or fix of these may be taken twice a day.

PILULE ALOSTICE, Edinb. Aloetic pills.

Take of Socotorine aloes,

White foap, each equal parts; Thin honey as much as will bring them into a mass.

This medicine is an ufeful apetient in cachectic and chlorotic indispositions, and obstructions of the bowels. A scruple, or half a dram may be made into pills of a moderate fize for one dofe.

PILULÆ CHALYBEATÆ, Edinb. Chalybeat pills.

Gum ammoniacum, Extract of gentian, Salt of feel, Myrrh, each one ounce;

Syrup of fugar, a sufficient quan-

Mix them together, according to

In hysterical disorders, bleeding and purging, where a fanguine and plethoric habit indicates thefe evacuations, chalybeat medicines are most to be relied up-on; especially when joined, as in this composition, with bitters and deobstruent gums. At first taking, they are apt to increase the complaints, (as the experienced Sydenham observes) and occasion great diforders both of body and mind; which however foon go off, or may be relieved by a proper dofe of opium given at bed time.

> PILULÆ ECPHRACTICÆ CHALYBEATÆ, Edinb. Deobstruent chalybeat pills.

Take of Socotorine aloes, Extract of black hellebore, Salt of fteel, Galbanum, Myrrh, each one ounce; Syrup of fugar, as much as is fufficient. Beat them into a mass according to

PILULÆ ECPHRACTICÆ PURGANTES, Edinb. Purging deobstruent pills. Take of

Socotorine aloes, Extract of black hellebore, Scammony, each two ounces; Vitriolated tartar, three drams; Effential oil of juniper berries, one dram and a half; Syrup of buckthorn, a fufficient quantity.

Make these ingredients into a mass, according to art.

PILULÆ GUMMOSÆ, Edinb. Gum pills.

Take of Afa fetida, a nat ant lo musest Wood foot, or annually at sandy Myrrh, each two ounces; Fresh fquills,

Oil of amber, one dram and a Syrup of fugar, a fufficient quan-Mix, and make them into a mass, according to art.

> PILULÆ MERCURIALES LAXANTES, Edinb. Laxative mercurial pills.

Take of The mass of pil. cocciae, Gum ammoniacum, each one ounce; Quickfilver, one ounce and a

half: Thin honey, a fufficient quantity.

Grind the quickfilver with the honey, till they are perfectly in-corporated; then add the other ingredients, and mix the whole well together.

PILULE PACIFICE, Edinb. Pacific pills.

Take of Galbanum, Myrrh, White foap, each two ounces; Opium, one ounce; Syrup of fugar, a fufficient quan-Make them into a mass.

PILULE PECTORALES, Edinb. Pestoral pills.

Take of Gum ammoniacum, an ounce and a half; Myrrh, one ounce; Terebinthinated balfam of fulphur, one dram; Syrup of marshmallows, a sufficient quantity. Mix and make them into a mass.

PILULE SCILLITICE, Edinb. Scillitic pills. Take of

Gum ammoniacum. Lesier cardamom feeds, each equal parts; Beat them together into a mass.

PILULE STOMACHICE. Edinb. Stomachic pills.

Take of

Sotocorine aloes, one ounce and a half ; Gum ammoniacum, Myrrh, each half an ounce:

Vitriolated tartar, two drams; Essential oil of mint, half a dram; Syrup of fugar, as much as is fufficient to make them into a

All the foregoing pills are improvements upon fimilar compositions of the shops, which have been already described in the second part of this work. Their virtues and uses are fufficiently obvious from their titles, and the ingredients they are composed of. We shall only add, with regard to the dofes, that eight grains of the pacific pills contain one grain of opium; and that if a dram of each of the other masses is formed into twelve pills, the largest doses commonly given, are, of the feillitic, three; of the chalybeat, gum, and pectoral, four; of the deobitruent chalybeat, mercurial, and stomachic, fix; and of the purgative del obstruent, eight. The chalybeat, gum, pectoral, and feillitic pills, are taken twice a day; the mercurial, only every other day.

PILULE ASTHMATICE et ICTERICÆ! Afthmatic and icterical pills.

Take of

Hard foap, three drams: Gum ammeniacum, two drams; Powdered fquills, one dram: Simple fyrup, as much as is fuffi-

mass of a due consistence for being formed into pills.

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The ingredients of which thefe pills are composed, are of the most powerful kind, and excellently coincide with, and affift one another in attenuating or diffolving thick viscid humors, and deterging the vessels. Hence in jaundices arising from a lentor of the bile, or obstructions of the biliary ducts, in which the fæces are of a clay colour, and voided with difficulty: and in old flubborn coughs, afthmas, and the first stage of a confumption, where the patient complains of pains in his fide, boundness at the breaft, or hot and restlefs nights; this composition proves of fingular efficacy. A dram of the mass forms ten moderate sized pills, of which three are to be taken every morning and evening.

> PILULÆ PICEÆ, Edinb. Tar pills.

Take of

Tar, any quantity at pleafure. Mix with it as much powdered elecampane root, as will reduce it into a proper thickness for being formed into pills.

Tar, the refinous juice of pines and fir trees rendered empyreumatic by the fire employed for extracting it, is a hot, pungent, bitter fubftance; and by thefe qualities feems capable, where its offenfiveness can be born with, of anfwering feveral ufeful purpofes in medicine. The powder here mixed with it, though of no great virtue, is nevertheless a very useful addition, not only for procuring it a due confiltence for taking, but likewise as it divides the glutinous texture of the tar, and thus prevents its adhering to the intestines. and promotes its folubility in the cient to reduce them into a animal juices. Each dram of the Ppz mais

Gum

mass is formed into twelve pills, fix of which are taken every morning and evening, in diforders of the breaft, phthises, scurvies, &c. They are more different in quality from tar water than might be at first expected: that naufeous draught has little heat, pungency, or bitterness; the water extracting only a fmall quantity of the hot oil, which becomes foluble by the mediation of the acid produced in the preparation of the tar. See page 184. Some have imagined this acid to be the only substance that gives virtue to tar water; and hence have endeavoured to introduce an acid fpirit obtained from tar by distillation: but the effects of this, and all other acids, are directly contrary to those experienced either from tar water, or tar given in fub-

PILULE ROBORANTES, Edinb. Strengthening pills.

Take of

Olibanum, one ounce and a half; Styptic powder, one ounce; Salt of steel, half an ounce; Syrup of fugar, a fufficient quantity. Mix and make them into a mass.

This composition is a very effectual strengthner and astringent in the fluor albus, and other like complaints. Half a dram of the mass, formed into five or fix pills, is taken twice a day.

> POTIO BALSAMICA, Edinb. Balfamic potion.

Take of

Balfam of copaiba, three drams; Effential oil of juniper berries, thirty drops; Fennel water,

Compound horse radish water, each three ounces;

Syrup of marshmallows, two ounces.

Let the balfam and oil be well beat up with the yolk of an egg, and then mixed with the other ingredients.

This potion is given for promoting urine, deterging, and healing ulcerations of the passages: the dose is two spoonfuls, twice a day.

The author of the manufacture of drugs has discovered a more elegant method of uniting balfams with aqueous liquors, viz. by the mediation of gums or mucilages, as the mucilage of linfeed, of gum Arabic, &c. If any of the native balfams or turpentines be mixed with a proper quantity of thefe, they readily diffolve in common water, by agitation, into a smooth and uniform milk-like liquor.

PULYIS DIAROMATON, Edinb. Aromatic powder.

Take of

Canella alba,

Ginger, each equal parts. Reduce them into powder.

This is a moderately warm spice, and as fuch is occasionally made use of, where substances of that class are necessary: the largest dose usually given at a time is one fcruple. The powder is very elegant, and as useful as one compounded of the more coftly fpices.

PULVIS TESTACEUS CERATUS, Edinb.

Cerated testaceous powder. Melt any quantity of yellow wax,

and keeping it over a gentle fire, fprinkle into it as much prepared oystershells as the wax will take up.

This healing and lightly reftrin-

gent powder is fometimes of great other curious experiments on the fervice in dyfenteries and diarrhoas, and wherever the vifcera are fubject to be eroded by acrimonious humors: it is likewife supposed to be of confiderable efficacy for restraining immoderate menstrual fluxes. It is given to the quantity of a dram, twice a day.

PULVIS TESTACEUS COMPOSITUS, Edinb. Compound testaceous powder. Take of

Oystershells prepared, one pound; White chalk, half a pound. Mix them together.

This cheap abforbent powder is at least equally valuable, as a medicine, with the more coffly and compounded crabs claw and bezoardic powders of the shops. These kinds of preparations are given from half a scruple to half a dram, for absorbing or destroying acidities in the first passages; which seems to be the only good effect that can be reasonably expected from these simple antacid earths. Nor are they perhaps fo eligible even in this intention, as the alcaline falts.

It may here be proper to take notice of a quality hitherto little expected from these kinds of substances, that of strongly promoting putrefaction. Flesh mixed with a small proportion of chalk for instance, and exposed to a heat, equal to that of the human body, not only corrupts fooner than without this addition, but likewise in a far greater degree, refolving in a few days into a perfect mucus. Alcaline falts, on the other hand, both fixed and volatile, are fo far from promoting putrefaction (which they have been generally supposed to do) that they refift it with a power above four times greater than that of sea falt. This quality of the abforbent powders (for the discovery of which, with many

fame subject, the public are obliged to the ingenious Dr. Pringle) feems to forbid their use in all kinds of fevers, where the animal juices are already too much disposed to a putrefactive flate. We have formerly observed, that, in these cases, tho' very frequently exhibited, they are at best unserviceable: perhaps their ill effects would be oftner feen, if it was not for the quantity of acids usually given in acute diseases.

Pulvis vermifugus, Edinb. Vermifuge powder. Take of Tanfy flowers, Worm-feed, each three drams : Salt of fleel, one dram. Make them into a powder.

PULVIS VERMIFUGUS PURGANS, Edinb. Purging vermifuge powder. Take of Choice rhubarb, three drams; Scammony,

Calomel, each one dram. Mix and make them into a powder.

The title of these compositions fufficiently expresses their use: the largest dose of each, commonly given, is half a dram: the first is repeated twice a day. The fecond, which is a purgative, may be taken, if necessary, once or twice in a week.

SERUM ACETOSUM, Edinb. Vinegar whey. Take of

Cows milk,

Common water, each one pint; Vinegar, two spoonfuls:

Set the milk and water over the fire, and when this mixture begins to boil, add to it the vinegar; the curd, which then forms, is to be taken off.

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SERUM EPIDEMIUM, Edinb. Plague whey.

Take of Cows milk, boiling, two pints; Plague water, four ounces. Mix, and take off the curd.

These liquors are intended to accompany the use of diaphoretic and alexipharmac medicines in fevers: the operation of which, they greatly promote, provided they are drank warm, and in confiderable quantity.

SPIRITUS LAVENDULÆ COMPOSITUS, Edinb. Compound spirit of lavender.

Lavender flowers, a pound and a half.

Rosemary flowers, half a pound; Lemon peel, three ounces; Cloves,

Cubebs,

Shavings of red faunders, each two ounces;

Rectified spirit of wine, one gal-Ion and a half.

Let the flowers, as foon as gathered, and the fresh peel, be committed to diffillation with the fpirit, in the heat of a water bath, and the operation continued till the ingredients remain dry. The cloves, cubebs, and faunders are to be fleeped for two days, in the diffilled spirit; which is then to be strained off from them.

This is a very elegant spirit of lavender, at least equal to any of the officinal ones formerly described: see page 374.

SPIRITUS VOLATILIS OLEOSUS, Edinb.

Volatile oily Spirit.

Take of Oil of rofemary,

Volatile falt of fal ammoniac eight ounces :

Proof ipirit, one gallon and a

Draw off by distillation, one gal-

SPIRITUS VOLATILIS OLEOSUS EXTEMPORANEUS.

Extemporaneous volatile oily spirit. Take of

Dulcified foirit of fal ammoniac, one pint;

Effential oil of Jamaica pepper, two drams.

Mix them together, that the oil may be dissolved.

Take of

Spirit of wine, highly rectified, Spirit of fal ammoniac, each half a pint;

Effential oil of Jamaica pepper, two drams.

Diffolve the oil in the vinous fpirit. and mix this folution with the spirit of sal ammoniac: a white coagulum will be formed, which foon refolves again into a tranfparent liquor, depositing a quantity of a volatile oily falt.

Or,

Take of

Salt of tartar, one ounce; Crude fal ammoniac, three ounces;

Jamaica pepper in powder, twelve ounces;

Rectified spirit of wine, twentyfix ounces.

Let these ingredients be well mixed and shaken together; and then, having suffered the whole to settle for a little time, pour off the liquor for use.

By either of these methods, a volatile oily spirit may be made Oil of amber, each an ounce; and occasionally, and adapted, at pleafure, to particular purpofes. Thus, in hysterical disorders, where the uterine purgations are deficient, a preparation of this kind made with rue, favin, or other like plants, proves an ufeful remedy; in weakneffes of the flomach, mint may be used; and in cases of flatulencies, anifeeds, or fweet fennel feeds: thefe last greatly cover the pungency of the volatile spirit, and render it supportable to the palate. The spirits thus made by fimple mixture, are no ways inferior as medicines to those prepared by distillation: the only objection is, that they prove fomewhat unfightly from the tinge they receive from the oil, or drug, which they are impregnated with.

Syrupus ex ALTHEA, Edinb.

Syrup of marfomallows.

Talenf

Marshmallow root, three ounces; Liquorice roots, one ounce; English maidenhair, two ounces; White sugar, four pounds; Water, six pints.

Boil the water with the roots and maidenhair, till one third of the liquor is wasted; then strain the remainder, and having suffered it to settle, boil it again with the sugar, over a gentle fire, keeping it continually stirring, till it acquires the consistence of a syrup,

This fyrup is lefs compounded than that described under the same title, in the officinal pharmacopæia of Edinburgh; but might still be rendered more simple, without any diminution of its virtue. See page 438.

THERIACA, Edinb. Treacle.

Take of

Virginian fnakeroot, eight ounces; Wild valerian root, fix ounces; Scordium leaves, four ounces; Cloves,

Myrrh, each three ounces;
Galbanum, two ounces;
Saffron, one ounce;
Opium, half an ounce;
Honey, thrice the weight of the powders.
Mix them together, according to art.

This is an useful substitute for the theriaca Andromachi, to which it is equal in efficacy, though confisting of less than one fixth part of the number of its ingredients. See page 482. Two drams and a half of the composition here prescribed, contain one grain of opium.

TINCTURA CANTHARIDUM, Edinb. Tincture of cantharides.

Take of

Cantharides,

Camphor, each half an ounce; Balfam of copaiba, three ounces; Rectified fpirit of wine, three

Digeft the cantharides in the spirit for two days; and having then filtered the tincture, digeft it again in a fand hear, with the balfam; lastly, when this is diffolved, put in the camphor.

Gum guaiacum, oil of juniper berries, and cochineal, which the Edinburgh college still retain as ingredients in their tincture of cantharides, are here judiciously omitted, as being at best unnecessary articles, in a medicine limited to so small a dose; and perhaps the camphor and balsam of copaida deferve the same state. This tincture is of the same strength, with regard to the cantharides, as those of the shops, already described, in page 413. The largest dose usually ventured on, is thirty drops, which, in cases that require the assistance of this powerful stimulant, may be taken twice a day.

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The general virtues of cantharides, and the cautions necessary to be observed in the exhibition of them, have been already delivered in page 105: their uses in some particular cases may be seen under the feveral preparations of them. We shall here observe, that tinctures of this fly have been found of remarkable fervice against the leprofy; Dr. Mead affores us, from large experience, that no one remedy is more effectual in that obflinate disorder. This virtue of cantharides he attributes to their diuretic quality; the confent of the kidneys with the cutaneous glandules being for great, that the humors accumulated in the latter are capable of being eafily discharged by the former, and that when the kidneys fail in their natural office, the urinary liquor fometimes tranfpires through the pores of the fkin, During the use of the cantharides, fuch purgative medicines as are proper for expelling the acrid and thick humors, are to be occasionally interpofed.

TINCTURA SACRA, Edinb.

Take of

Socotorine aloes, two ounces;
Aromatic water, three pints.
Macerate for two days, and then
frain off the tincture.

This is a judicious emendation of the tinctura facra of the shops: the wine, there employed for the menstruum, acts slowly and difficultly upon the aloes, and leaves a part undissolved; whilst the spirituous liquor, here made choice of, readily and perfectly dissolves it. See page 408.

TROCHISCI E SPONGIA USTA,

Lust.

Troches of burnt sponge.

Take of

Burnt sponge, one ounce;
Fine sugar, three ounces;
Mucilage of gum tragacanth, as
much as is sufficient to reduce
them into a mass of due confiftence, for being formed into troches.

Burnt sponge has lately been employed for the cure of scrophulous disorders, and not unfrequently with good success. These troches are a convenient form for the exhibition of it, especially to children, who are not easily prevailed upon to take medicines in less agreeable forms.

Unguentum digestivum,
Digestive cintment.
Take of

Yellow bafilicum,

Black bafilicum, each eight

Balfam of turpentine, four ounces; Mix, and make them into an ointment.

UNGUENTUM EMOLLIENS, Edinb.

Emollient ointment.

Take of
Palm oil, four pounds;
Yellow wax, half a pound;
Linfeed oil, two pints.
Liquefy them together.

Unquentum mercuriale, Edinb.

Mercurial ointment.

Take of

Quickfilver, two ounces;
Hogslard, purified, three ounces;
Suet, one ounce.
Work them well together.

Unguentum nervinum, Edinb.

Take of
Oil of bays, three pounds;
Suet, two pounds;
Oil of amber, two ounces;
Mix them together.

UNGUEN-

UNGUENTUM SULPHUREUM, Edinb.

Sulphur ointment.

Take of
Hogs lard, purified, two ounces;
Sulphur in powder, half an
ounce.
Mix them together.

Unquentum Tutie, Edinb.

Take of
Tutty prepared, half an ounce;
Fresh butter, two ounces;
White wax, one dram.
Mix them according to art.

UNGUENTUM TUTIE

CAMPHORATUM, Edinb.

Ointment of tutty with campbor.

Add to the foregoing ointment one dram of camphor. It is likewife made with two or more times this quantity of camphor.

Most of these compositions are improvements upon similar ones of the shops: see part II. chap. xxvi. The uses of all of them are so obvious as to render any comment on them unnecessary.

UNGUENTUM PICEUM, Edinb.

Ointment of tar.

Take of Tar,

Suet, each equal parts.
Liquefy them over the fire, flirring them carefully together.

This ointment has been found of confiderable use against scorbutic eruptions, and other cutaneous maladies.

Unguentum Paralyticum,
Paljey ointment.

Take of
Hogs lard,

Oil of bays, each four ounces;

Strong fpirit of vitriol one ounce.

Mix, and make them into an un-

This irritating composition is applied to numbed or paralytic limbs: it foon reddens and inflames the skin, and when this effect is produced, must be taken off; after which, the part is to be anointed with any emollient unguent, as that of elder.

Unquentum ad PSORAM, Ointment against the itch.

Take of Sulphur, one ounce;

White hellebore root, in powder, or crude fal ammoniac, two drams;

Hogs lard, two ounces.

Mix, and make them into an ointment.

Sulphur is a certain remedy for the itch, more fafe and efficacious than mercury: for, as Dr. Pringle very justly observes, unless a mercurial unction was to touch every part of the fkin, there can be no certainty of success; whereas, by a fulphureous one, a cure may be obtained by only partial unction, the animalcula, which occasion this diforder, being like other infects, killed by the fulphureous fleams, which exhale by the heat of the body. As to the internal use of mercury, which some have accounted a specific, there are several instances of men undergoing a complete falivation for the cure of the lues venerea, without being freed from the itch.

The quantity of ointment, above directed, ferves for four unctions: the patient is to be rubbed every night; but to prevent any diforder that might arise from stopping too

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Explanations of Characters, &c. 586

many pores at once, a fourth part worst cases, to subjoin the internal only of the body is to be rubbed at use of sulphur, not with a view to one time. Though the itch may purify the blood, but to diffuse the be thus cured by one pot of ointment, it will be proper to renew the application, and to touch the parts most affected, for a few nights longer, till the second quantity is also exhausted; and in the

fkin: there being reason to believe.

noveder, and all components.

Explanation of characters and abbreviations used in prescription.

(a grain. a scruple. denotes a dram an ounce.

ana or at, a, imports, that each of the ingredients preceding, are to be taken in the quantity following the word.

(partes æquales equal parts. quantum vis q. v. quantum fufficit q. f. fecundum artem f. a. fiat mifce kojet

T. M. balneum arenæ B. A. balneum mariæ fpiritus vinosus B. M. S.V. fpiritus vinofus rectifi-S. V. R. comp. or c. catus compositus cornu cervi catus on loib -bas pri C. C. C. Cornu cervi cornu cervi cornu cervi calcinatum

as much as you pleafe. as much as is fufficient.
according to art; the manner of making up the me-dicine being left to the difcretion of the compounder. make or let mix. make or let be made.

a fand bath. a water bath. fpirit of wine. rectified spirit of wine.

compound.

TABLE

TABLE of DISEASES,

with the principal REMEDIES adapted to each.

BORTION, to prevent. Peruvian bark, chalybeates, balfams, tincture of amber, tincture of lac, confection of kermes, peruvian electary: firengthening pills, firengthening powder, and all corroborants.

ABSCESS, fee ulcers.

Aches, fee pains, gout, rheumatism, fciatica.

ACIDITIES in the first passages, to ba, chalk, crabs eyes, oystershells, calcined hartshorn, and fuch other fimple earthy bodies as diffolve in acids. Chalk julep, chalk bolus, antacid lozenges, cardialgic lozenges, cardialgic troches, compound testaceous powder, compound powder of crabs claws, bezoardic powder, and other preparations, or compositions of the foluble earths. The fixt alcaline falts of wormwood and tartar; and the volatile falts, and fpirits of fal ammoniac, hartshorn and

ACRIMONIOUS humors, to thicken and obtund. Gum tragacanth, gum arabic, ichthyocolly; marshmallow root, comfry root, fatyrion, linfeed, quince feeds, maidenhair; bolar earths; and other glutinous and mucilaginous fubflances. Infusion of linfeed, pectoral infusion and decoction, mucilage of quince feeds, incrassing electary, compound powder and lozenges of gum tragacanth, and other preparations of the mucilaginous simples. Sperma ceti, expressed oils, and oily draughts.

Ague, fee intermittent fever.

Anasarca, fee ascites.

ANGINA. Wine, or tincture of ipecacoanha. Decoction of tamarinds with fena. Diaphoretic draught and julep. Gargarisms, mindererus's spirit. Camphorated cataplasm, volatile liniment, blistering plaster.

GANGRENOUS, or malignant, angina. Peruvian bark, myrrh, contrayerva root, virginian finakeroot; mindererus's fpirit: tincture of mint, faffron wine, cordial confection. Steams of hot vinegar, received into the throat; gargarifms, with vinegar, tincture of myrrh and honey.

Anthony's fire, fee eryfipelas.

APHTHÆ. Balfamic lohoch, common lohoch. Emollient gargarifms. Bliftering plafter.

APO-

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Apoplexy. External applications, bliffering plaffer, finapifms, volatile spirits, volatile plaffer, liniment and epithem, compound spirit of lavender. Sternutatories, sternutatory powder, cephalic powder, asarum, white hellebore. Massicatories, sialagogue troches, nerve troches, pellitory of spain. Glysters, with honey of hellebore.

Internal medicines.

Cathartics, colocynth pills, cathartic extract, cathartic boluses.

Emeties, antimonial wine, tincture of white hellebore. Aromaties and slimulants, cloves, pepper, cardamom seeds, cubebs, nutmegs, mustard, pepper mint, rosemary, lavender, wild valerian root, compound spirit of lavender, aromatic wine, guaiacum wine, cephalicale, infusion and electary; volatile salts and spirits, aromatic and fetid; oil of hartshorn, amber, rosemary, &c.

Apperite loft. Rhubarb; carduus, orange peel, gentian; mint, cinnamon; peruvian bark; and their preparations. Bitter infufion, ale, wine, and tincture; flomachic tincture and elixir; elixirs of vitriol; dulcified spirit of vitriol. Emetics.

Ascites. Cathartic draught, cathartic bolus, bolus of jalap with mercury, tincture of jalap, hydragogue julep, lunar pills, cathartic and diwetic faline mixture, diuretic bolus, diuretic ale, decoction of feneka, diuretic julep, diuretic infusion, diuretic draught, anodyne diuretic draught, tincture of cantharides, julep of squills, salt of wormwood, salt of tartar, balfamic

potion, garlic pills, fquill pills. Strengthening pills, bitter tincture, extract of gentian, aromatic electary, elixir of vitriol.

ASTHMA. Ammoniacum, squills, garlic, soap, millepedes, asa fetida, sulphur, sastron, elecampane, horehound, benzoine, balsam of tolu, peru, and copaiba. Milk and julep of ammoniacum; syrup, oxymel, and pills of garlic; vinegar, oxymel julep, and pills of squills; pectoral pills, bolus, oxymel and lohoch: asthmatic pills; tar pills; paregoric elixir; setid julep; balsams of sulphur; oil of hartshorn. Emetics. Blistering plaster. See expectoration.

ATROPHY, Steel wine, sugared steel, strengthening pills, strengthening powder; bitter insuson, wine and tincture; bitter tincture of rhubarb; stomachic pills; stomachic elixir and tincture; elixir of vitriol; wine of peruvian bark.

Belly-Ach, dry. Iliac bolus, infusion of sena, tincture of sena, tincture of jalap; acrid glysters; aromatic sotus, and other warm somentations and baths; cold baths.

BITE of a mad dog; pulvis antilyffus, musk.

of a viper, oil olive, rubbed warm on the part.

Blood, to flop, fee hæmorrhage.

Spitting of blood, fee hæmoptoe.

Bloody flux, fee dyfentery.

BREATH, fetid. Sweet - fmelling troches, and masticatories of the odoriferous refins, &c.

BRUISES, internal. Sperma ceti, Locatelli's balfam, balfamic potion, tion, balfamic electary, vulnerary decoction, lime water, fimple and compound, peruvian bark.

BURNS. Traumatic balfam, camphorated oil, camphorated spirit of wine, white ointment, camphorated white ointment, emollient ointment, ointment of calamine, the ointment called nutritum, ointment of three ingredients, ointment of elder, faturnine ointment.

CACHEXY. Chalybeat electary, chalybeat pills; bitters; bolus of rhubarb with mercury; fal polychrest; aloetic pills, tinctura facra, elixir proprietatis, elixir of aloes; elixir of vitriol; prepared antimony; mercurial pills; emetics. See atrophy and chlorosis.

CARDIALGIA. Magnefia alba, and other abforbents of acidities. Sugared feel; bitter tincture of rhubarb; tinctura facra; emetics.

CATABRH. Sulphur, balfams of fulphur, conferve of rofes, antihectic decoction, balfamic electary, arabic emulsion, pectoral infusion, opiates, bitter infusion with sena, blistering plaster. See acrimony to obtund, and expectoration to promote.

CHAPS. Oil of wax, white ointment, fimple ointment, or pomatum.

CHILBLAINS. Palm oil, common or diachylon plaster; volatile epithem, warm plaster.

CHINCOUGH. Ipecacoanha, fquills, rhubarb, bolus of rhubarb with mercury, mercurius dulcis, peruvian bark, ammoniacum, paregoric elixir, pectoral infusion, &c. blistering plaster.

Chlorosis. Strengthening pills, frengthening powder, chalybeat pills, chalybeat electary, fleel wine, tinctures of fleel, deobfirment pills, aromatic pills, aloetic pills, rufus's pills, tinctura facra, elixir proprietaris, aloetic alcaline wine, extract of gentian, bitter infusion, &c. bitter tincture of rhubarb, rhubarb bolus with mercury, mercurial pills, flomachic pills, tincture and elixir, elixirs of vitriol, aperient ale, tar water, decoction of the woods, emetics.

CHOREA SANCTI VITI, fee epi-

Colic. Bolas of rhubarb with mercury, aloetic pills, stomachic pills, stomachic pills, tinctura facra, bitter tincture of rhubarb, tincture of sena, bitter purging infusion, saline mixture, faline julep, aromatic distilled waters, pepper mint water, spearmint water, infusion of toasted bread, opiates. Glyster against the colic, emollient glyster, aromatic fomentation, stomachic cataplasm.

Consumption. Conferve of rofes, antihectic decoction, vulnerary decoction, pectoral infusion, pectoral bolus, balfamic electary, mixture for the phthisis, ammoniacum julep, feillitic julep, balfamic lohoch, pectoral pills, tar pills, feillitic pills, lime water, simple and compound, tar water, elixir of vitriol, blistering plaster.

Convulsions, see epilepfy.

Costiveness. Tinctura facra, aloetic pills, lenitive electary, folu-

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Table of Difeafes.

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tive fyrup of roles, folutive pow-

Couch. Oily draughts, lohochs, pectoral infusion and decoction, opiates, all agglutinants. See afthma, chincough.

Courses, see menses.

CRAPULA. Cathartic pills, emetics, tinctura facra, aloetic pills, aromatic pills, rufus's pills, elixir of vitriol.

CUTANEOUS foulnesses, fee itch, le- DYSURY, fee nephritis. profy, &c.

DEFLUXION, fee catarrh.

DELIVERY, to promote. Powder to promote delivery, liver and gall of the eel, opiates, emmenagogues, see menses.

DIABETES. Alum whey, peruvian electary with alum, flyptic powder, lime water, fimple and compound, antihectic decoction, elixir of vitriol, dulcified spirit of vitriol, tincture of roles, colbatch's flyptic powder, faturnine tincture. Mild emetics and cathartics.

DIATHORESIS, to promote; fee fweat.

DIARRHOEA, ee dysentery.

DIGESTION, to promote. Rhubarb, mint, peruvian bark, bitters, aromatics, aloetics, chalybeates, elixir of vitriol. See appetite loft.

DROPSY, fee afcites and tympany.

DYSENTERY. Ipecacoanha, tincture and wine of ipecacoanha, cerated glass of antimony, rhubarb, bolus of rhubarb with

mercury, bitter tincture of ahua barb. Decoction and extract of logwood, antidysenteric electary, bolus, pills, and mixture, binding electary, binding julep, af-tringent decoction, strengthening pills, diafcordium, decoction of diafcordium, ftrengthening confection, lime water, balfamic lohoch, cerated teftaceous powder, opiates. Emollient. anodyne, flarch, aftringent, and balfamic glysters; aromatic fomentation, bliftering plafter.

EPILEPSY. Wild valerian root, peruvian bark, afarum, betony, rofemary, cloves, and other aromatics, afa fetida, oil of hartshorn, oil of amber, oil of rolemary, compound spirit of lavender, spirit of hartshorn, volatile aromatic spirit, fetid aromatic spirit, fetid tincture, tincture of foot, fimple and volatile tincture of valerian, caftor bolus, cephalic electary, cephalic ale, cephalic infusion, antepileptic powder, antepileptic bolus, valerian mixture, fetid julep, gum pills, Emetics, cathartics. Cephalic powder, bliftering plafter, epifpastic cintment, finapisms, fimple and compound.

ERYSIPELAS. Glauber's falt, bitter purging falt, faline cathartic draught, acid electary, decoction of tamarinds, alexetereal bolus, diaphoretic draught and julep, mindererus's spirit. Externally, blistering plaster, camphorated cataplasm, anodyne fomentation, aromatic fomentation, camphorated spirit of wine, faturnine ointments, ointment of elder, camphorated white ointment, ointment of tutty with camphor.

Exco-

Excoriations. White ointment, ointment of calamine, pomatum, nutritum, faturnine ointment.

Expectoration, to promote. Elecampane, liquorice, florence orris root, groundivy, maidenhair, coltsfoot, benzoine, olibanum, honey, millepedes, sperma ceti, expressed oils, garlic, squills, ammoniacum, soap, saffron, sulphur, balsams. See acrimony, asthma, cough.

Eyes, inflamed. Cathartics, mercurial pills, expression of millepedes. Externally, eye water; camphorated vitriolic water; eye ointment, white collyrium, alum collyrium, alum curd, razi's white troches, compound powder of cerusse, the ointments of tutty; blistering plaster, epispastic ointment.

fapphire coloured water.

FEVERS, continued. Virginian fnakeroot, contrayerva, wild valerian, faffron, camphor, musk, wine, camphor julep, camphor emulfion, musk juleps, compound decoction of fnakeroot, tincture of fnakeroot, compound tincture of fnakeroot, fudorific tincture, alexeterial water, fimple and spirituous, alexipharmac bolus, alexeterial bolus, caftor bolus, alexipharmac pills, alexipharmac powder, compound powder of contrayerva, alexipharmac electary, cordial mixture, cordial confection, london philonium, mithridate, theriaca.

Volatile falts, volatile fpirits, fpirit of mindererus, vinegar, vinegar of elder, treacle vinegar, vinegar whey, fpirituous alexeterial water with vinegar, treacle water, plague whey, plague water with vinegar, camphor julep

with vinegar, alexipharmac julep, diaphoretic julep, diaphoretic draught, acid diaphoretic julep, diaphoretic bolas, decoction of tamarinds, nitrous decoction, faline antiemetic mixture.

Fevers, intermittent. Emetics; peruvian electary, tinctures and other preparations of the peruvian bark; febrifuge decoction, alcaline infusion, rhubarb, bitters, tinctura facra, bitter tincture of rhubarb, chalybeates, fal ammoniac, faline mixture, diaphoretic bolus, diaphoretic julep, oil of amber.

FLATULENCIES. Anifeeds, ginger, carminative powder, aromatic powder and species, aromatic tincture, tincture of sena, pepper mint water, carminative juleps, compound spirit of lavender, volatile aromatic spirit; cinnamon, anifeed, juniper, and other diffilled aromatic waters.

FLOODING, fee abortion, and menfes to restrain.

FLUOR ALBUS. Emetics of ipecacoanha, rhubarb bolus with mercury, laxative mercurial pills, chalybeate pills, chalybeate electary, steel wine, and other preparations of iron, strengthening pills, strengthening powder, peruvian electary with alum, flyptic powder, dulcified spirit of vitriol, lime water, simple and compound, balfamic potion, tincture of cantharides, tincture of amber, tincture of lac, anti-phthifical or faturnine tincture, colbatch's flyptic powder. Strengthening fomentation, injested. Anodyne balfam, applied externally.

FLUX of the belly, fee dyfentery.

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Table of Diseases.

FRECKLES. Magistery of bismuth, magistery of tin, virgin's milk, litharge vinegar, acrid juice of anacardium.

GANGRENE. Peruvian bark, camphor, contrayerva, myrrh, alexeterial bolus. Externally, oil of turpentine, camphorated cataplaim, egyptian ointment or honey, tincture of myrrh and aloes.

GIDDINESS, fee vertigo.

GLEET, fee fluor albus.

GONORRHOEA, wirulent. Decoction of tamarinds with fena, laxative mercurial pills, electary for a gonorrhœa, balfamic potion; tincture of cantharides. Emollient fomentation, balfamic injection, mercurial injection.

Gout. Soap, decoction of feneka, guaiacum wine, guaiacum wine with hellebore, feillitic pills. Emollient cataplasm, anodyne balsam, anodyne plaster—gout in the stomach, ipecacoanha, aloetics, aromatic species, aromatic tincture, compound spirit of lavender, extract of sastron, camphor, peruvian bark, bitters, chalybeates. See sciatica, rheumatism.

GRAVEL, see nephritis.

GREEN SICKNESS, fee chlorofis.

GRIPES, fee colic, dry belly ach, acidities.

Gums, foul and bleeding. Tincture of lac, aftringent gargarifm.

HEMOPTOE. Decoction of tamarinds, antihectic decoction, vulnerary decoction, arabic emulfion balfamic electary, the peruvian electaries without ficel, lime water, dulcified spirit of vitriol, tincture of roses, antiphthisical tincture, pectoral infusion, styptic powder.

HEMORRHAGE. Decoction of tamarinds, nitrous decoction, purging glyfters, alum water of bates, flyptic water, colcothar of vitriol; dulcified spirit of vitriol, tincture of roses, antiphthissical tincture, styptic powder and tincture of helvetius, styptic powder of colbatch.

HEMORRHOIDS. Flowers of fulphur, electary of fulphur, or hæmorrhoidal electary, anodyne glyfter, anodyne fomentation, emollient ointment, hæmorrhoidal liniment.

HAIR, to increase: simple ointment or pomatum—to take off, quicklime and orpiment, made into a paste with water, and suffered to remain for a minute or two upon the part.

Headach. Embrocations with vinegar of roses, compound spirit of lavender, volatile spirits; sternutatory powder, cephalic powder, by themselves, or with a small proportion of yellow emetic mercury; cephalic plaster; blistering plaster.

HEARTBURN, see cardialgia.

Hiccur. Compound spirit of lavender, musk, musk julep, cordial julep, volatile aromatic spirit, peruvian bark, opiates, tinctura sacra. Externally, anodyne balsam, stomachie cataplasm, camphorated cataplasm.

Hoarseness. Extract of liquorice, oily draughts, balfamic lohoch, starch flarch lohoch, lohoch of fperma ceti, and all lubricating oily medicines.

Hypochondriacal and hyste-RICAL diforders. Penny - royal water, rue water, antihysteric water, castor water, oil of am-ber, oil of hartshorn, spirit of hartshorn, volatile aromatic ipirit, compound spirit of lavender, tincture of caftor, tincture of foot, tincture of peruvian bark, antihysteric julep, fetid julep, musk julep, cephalic ale, cephalic infusion, castor bolus, peruvian electaries, elixirs of vitriol, elixirs proprietatis, fetid glyster, gum pills, aloetic pills, de-obstruent pills, hysteric pills, stomachic pills, chalybeat pills, chalybeat electary, and other chalybeates, rhubarb bolus with mercury, bitter tincture of rhubarb, tinctura facra, emetics, antihyfteric plaster.

JAUNDICE. Emetics, rhubarb bolus with mercury, bitter tincture of rhubarb, tinctura facra, white foap, expression of millepedes, scillitic pills, icteric pills, icteric decoction, aperient apozem, aperient ale.

ILIAC PASSION. Cathartics and opiates; iliac bolus: acrid purgative glysters; aromatic fomentation. See colic, and dry belly ach.

Imposthume, fee ulcer.

INFLAMMATION. Camphorated fpirit of wine, white ointment with camphor, ointment of poplar buds, unguentum nutritum, faturnine ointment. See eryfipelas.

INTERMITTENTS, fee fevers intermittent.

ITCH. Sulphur, taken internally; or ointments of it applied externally. Troches of fulphur, ointment of fulphur, ointment for the itch.

Kibes. Oil of wax, unguentum nutritum, faturnine ointment, red deficcative ointment.

Kino's Evil, Mercurial pills, e-Leprosy, thiopic pills, golden or precipitated fulphur of antimony, medicinal regulus of antimony, tincture of cantharides, camphor, lime water fimple and compound, decoction of the woods, burnt fponge, powder againft the evil, balfam of guaiacum, fcorbutic ale, fcorbutic juices, tar water, tar pills, viper broth. Externally, mercurial ointments and platters.

LETHARGY, fee apoplexy.

Lice, pediculi inguinales. All mercurial lotions and unguents, ointments against the itch, oil of lavender.

Looseness. Rhubarb, decoction of logwood, extract of logwood, binding electary, binding julep, decoction of japanearth, diafcordium, strengthening confection peruvian electaries. See dysection.

Lowness of spirits. Aromatic diflilled waters, cordial julep, musk julep, cordial mixture, extract of fastron, oil of cinnamon, spirit of sastron, cordial confection, cordial electary, spirit of hartshorn, volatile aromatic spirit, compound spirit of lavender, confection of kermes, tincture of sastron, sastron wine, castor bolus.

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of white hellebore; tincture of black hellebore, extract of black hellebore, tincture of jalap, tinctura facra; diuretic infufion, lixivial falts, diuretic falt; afa fetida, musk, camphor, fetid julep, gum pills ; bliftering plafter ; honey of hellebore.

MEASLES, fee fevers.

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MELANCHOLY, fee hypochondriac diforders, and mania.

MENSES, to promote.

Aloes, black hellebore, favin. fquills, faffron, mustard rue, fquills, faffron, mustard feed, myrrh, galbanum, oil of favin, penny royal water, tinctura facra, rufus's pills, elixir proprietatis, extract and tincture of black hellebore, aperient ale, bitter infusion, ammoniacum julep, antihysteric julep, scillitic pills; emmenagogue powder, bolus and electary; chalybeat pills, and other preparations of fleel; troches of myrrh, compound powder of myrrh, compound elixir of myrrh, antihysteric water. laxative mercurial pills. to refirain.

Alum, peruvian bark, and all its preparations, flyptic powder, tincture of rofes, dulcified spirit of vitriol, firengthening pills and

MILK, to repress from the breasts. Camphorated spirit of wine, commen or diachylon plaster.

MISCARRIAGE, fee abortion.

MORTIFICATION, fee gangrene.

MOTHER FITS, fee hysteric diforders.

NAUSEA, fee vomiting.

MANIA. Antimonial wine, tincture NEPHRITIS. Hard foap, lime water, diuretic bolus, diuretic powder, diuretic decoctions, nirrous, decoction, infusion of linteed, common and arabic emulfion, oil of juniper berries, oil of turpentine, nephritic decoction, common lohoch, faline mixture, baliamic potion, diuretic julep, feillitic julep, scillitic pills, dulcified spirit of nitre, dulcified spirit of salt, salt of amber, tincture of cantharides, opiates, lenitive electary, nephritic electary, tincture of fena, elixir falutis. Emollient fomentation, emollient glyfter, turpentine glyfter.

NUMBNESS, fee palfey.

PAINS, to eafe. Thebaic extract, tineture and folution; liquid lau-danum, pacific pills, storax pills, faponaceous pills, caftor bolus; fyrup of white poppies, philonium, mithridate, theriaca, diafcordium, strengthening confection, anodyne and diuretic draught, and other compositions containing opium. Externally, a-nodyne fomentation, balfam of turpentine, camphorated oil, anodyne liniment, anodyne balfam of guido, anodyne balfam of bates, anodyne platter, nerve ointment, warm plaster, blistering plaster.

PALSEY. Garlic, arum, pellitory of spain, virginian snakeroot, wild valerian root; rofemary, rue, fage, lavender, cardamom feeds, cloves, cubebs, lovage feed, muftard feed, guaiacum, faffafras, afa fetida, camphor, golden fulphur of antimony, antihysteric water, compound horse radish-water, antiscorbutic juices, decoction of the woods, cephatic ale, castor bolus, guaiacum bolus; antihysteric julep, diaphoretic julep, diuretic julep, fetid julep, cephalic infufion, oil of hartshorn, oil of amber, spirit of hartshorn, compound spirit of lavender, falt of amber, tincture of caftor, tincture of foot, fetid tincture, mustard whey, paralytic infusion, emetics, bolus of jalap with mercury, and other cathartics; fetid glyfter. Externally, cephalic powder, sternutatory powder, balfam of turpentine, saponaceous balfam, anodyne liniment, nerve ointment, paralytic ointment, warm plaster, bliftering plafter.

Peripheumony. Pectoral bolus, barley water, infusion of linseed, common lohoch, ammoniacum julep, scillitic julep, diaphoretic julep; blistering plaster.

Phleom viscid, to attenuate. Garlic, squills, ammoniacum, alcaline infusion. See asthma.

PHTHISIS, fee confumption, ashma, loofeness.

PILES, fee hæmorrhoids.

PLEURISY, fee peripneumony.

Putrefaction, to prevent.

Peruvian bark, myrrh, aloes, contrayerva, horfe-radifh root, feurvy grafs, mustard feed, fixt alcaline falts, volatile alcaline falts, and neutral falts.

to promote.

chalk, crabs claws, and other abforbent earthy bodies.

Quinsey, see angina.

RHEUMATISM. Decocion of burdock, decocion of fenecka, decocion of the woods, decocion of tamarinds, fcorbutic juices, fcorbutic ale, diaphoretic julep,

guaiacum bolus, theumatic bolus, white foap, fcillitic pills, mustard seed, oil of turpentine, paralytic infusion, guaiacum wine, mercurial pills. Externally, emollient cataplasm, anodyne balsam, balsam of turpentine, faponaceous balsam, camphorated oil, anodyne liniment, volatile liniment, saponaceous limment, anodyne plaster, soap plaster, warm plaster, bistering plaster,

RICKETS. Ens veneris, or martial flowers; aromatic fomentation, nerve outment.

RUPTURE. Internal corroborants. Strengthening plafter.

SCALDS, fee burns.

SCALDED HEAD, fee leprofy.

Sciatica. Ifchiadic cataplaim.

grafs, mustard seed, buckbean, water dock, compound horse-radish water, scorbutic ale, scorbutic wine, muntingius's scorbutic wine, storbutic elixir, elixir of vitriol, scorbutic juices, scorbutic whey, paralytic infusion, acid elixir proprietatis, chalybeat pills, steel wine, chalybeat electary, and other preparations of iron, peruvian bark, water, tar pills; bitter infusion, simple and purging; sal polychrest, acid electary, decoction of tamarinds, bitter tinture of rhubarb, tinctura sacra, stomachic pills.

SEMINAL WEAKNESS, fee fluor albus.

SLEEP, to procure. Thebaic extract, tincture and foliction; and all opiates. See pains, to cafe.

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SMALL POX, fee fevers - bloody fmall pox, flyptic powder, peruvian electary with alum.

SPIEEN. Deobstruent pills, scorbutic juices, cummin plaster, ammoniacum plaster with hemlock, see hypochondriac disorders.

Sprains. Common plaster, strengthening plaster, oxycroceum, aromatic fomentation.

STITCHES. Warm plaster, blistering plaster.

STOMACH, to firengthen. Calamus aromaticus, gentian, zedoary, ginger, rhubarb, wormwood, carduus, mint, leffer centaury, chamemel, orange peel, nutmegs, mace, cinnamon, peruvian bark, aloes, myrrh, common and pepper mint water, stomachic tincture and elixir, elixir of vitriol, elixir proprietatis, elixir of aloes, aloetic alcaline wine, extract of gentian, bitter infusions, bitter ale, bitter wine, bitter tincture, tincture of mint, tincture of peruvian bark, rhubarb bolus with mercury, aloetic pills, flomachic pills, chalybeat pills, bitter tincture of rhubarb, tinctura facra, wine of ipecacoanha, and other emetics. Externally, flomachic cataplasm, stomach plaster, aromatic fomentation.

STONE. Lime water, oyftershell lime water, hard foap. See nephritis.

SURFEIT, fee crapula.

SWEAT, to check.

Elixir of vitriol, acid and fweet;
dulcified fpirit of vitriol: peruvian bark, and its preparations;
faturnine tincture.

to promote.
Guaiacum, fassafras, fassion, camphor, opium, extract and

refin of guaiacum, decoction of the woods, guaiacum bolus, diaphoretic bolus, volatile falts and spirits, mindererus's spirit, diaphoretic draught, diaphoretic julep, sudorisic tincture, tincture of snakeroot simple and compound, compound decoction of snakeroot, camphor emulsion, castor bolus, golden sulphur of antimony. See severs continual.

TEETH, to cleanse. Creme or crystals of tartar in powder, vitriolated tartar in powder — Toothach. Essential oils, nitre, sialagogue troches.

TENESMUS, see dysentery.

THIRST, to quench. Cooling julep, acid electary.

THROAT SORE, fee angina.

TUMORS, to discuss.

Litharge vinegar, fal ammoniac, mindererus's spirit, camphorated spirit of wine, discutient cataplasms, ointment of elder, gum plaster, mercurial plaster, common and diachylon plaster with gums, soap plaster, camphorated oil.

Ripening cataplasm, suppurating cataplasm.

Twitching of the tendon. Musk, camphor, volatile salts, alexipharmae boluses.

TYMPANY. Mild eathartics, carminatives, bliftering plafter.

VENEREAL disorders. See virulent gonorrhœa and leprofy.

VERTIGO, see epilepsy.

ULCERS. Tranmatic balfam, Locatelli's balfam, balfam of amber, tincture tincture of myrrh and aloes, green balfam, ointment of gum elemi, arcæus's liniment, basilicum ointment, faturnineointment, ointment of calamine, epulotic cerate.

Vomiting, to excite. Powder of ipecacoanha, wine and tincture of ipecacoanha, fyrup of fquills, white vitriol, emetic tartar, antimonial wine, tincture of white hellebore, yellow emetic mercury, verdegris.

to restrain.

Mint water, tincture of mint, faline antiemetic mixture, elixir proprietatis with acid, bitter tincture of rhubarb, tinctura facra, dulcified fpirit of vitriol, elixir of vitriol, emetics, chalybeates, opiates. Externally, anodyne balfam, flomachic cataplaím, flomach plaster, aromatic fomentation.

URINE, to promote. Garlic, burdock, eryngo, fennel roots, parfley roots, fenecka root, fquills, pellitory of the wall, chamemel flowers, wild carrot feed, fweet fennel feed, mustard feed, venice turpentine, balfam of copaiba, cantharides, millepedes, nitre, compound horferadish water, vinegar of fquills, oil of turpentine, oil of juniper berries, decoction of burdock, decoction of fenecka, diuretic decoction, nitrous decoction, diuretic ale, diuretic bolus, nephritic electary, nephritic decoction,

common and arabic emulfion, expression of millepedes, saline mixture, diuretic draught, anodyne diuretic draught, diuretic julep, scillitic julep, balfamic potion, salt of tartar, salt of wormwood, diuretic salt, sal polychrest, dulcified spirit of nitre, dulcified spirit of salt, salt of amber, tincture of cantharides, scillitic pills, turpentine glyster.

URINE, involuntary. Lime water, dulcified spirit of vitriol, alum whey, peruvian electary with alum, styptic powder, antiphthifical tincture.

-bloody, fee hamorrhage.

-bot, nitre, fal prunell, common and arabic emultion, fperma ceti pills, oily draughts.

WARTS, to extirpate; all caustics.

WHITES, fee fluor albus.

WIND, fee flatulencies.

WORMS. Savin, tanfy, wormfeed, powdered tin, vitriol white
and green, mercurius dulcis, rhubarb bolus with mercury, fugared mercury, fugared fleel, laxative mercurial pills, vermifuge
powder, purging vermifuge powder, effential oil of wormwood,
anthelmintic powder, anthelmintic fugar cakes, vermifuge ointment.

Wounds, fee ulcers.

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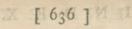
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