A Compleat

HISTORY DRUGGS,

Written in French by Monsieur POMET, Chief Druggist to the present French KING; to which is added what is further observable on the same Subject,

FROM

Meff's. LEMERY, and TOURNEFORT,

Divided into Three Classes,

Vegetable, Animal and Mineral;

With their Use

In PHYSICK, CHYMISTRY, PHARMACY,

And feveral other A R T S:

ILLUSTRATED

With above Four Hundred Copper Cutts curiously done from the Life; and an Explanation of their different Names, Places of Growth, and Countries from whence they are brought; the Way to know the True from the False, their Virtues, &c. A Work of very great Use and Curiosity.

Done into English from the ORIGINALS.

VOL. II.

LONDON:

Printed for R. Bonwicke, William Freeman, Timothy Goodwin, Matthew Wotton, John Walthoe, S. Manship, John Nicholson, Benjamin Tooke, Rich. Parker, and Ralph Smith. 1712.

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MOUNDA

Princed for A. Bennick, "Fillian From so, Timbric Colorin, Life of Whitel, Table Princed for S. Winfeld, Toke Medicine, Bryania Trice, 19th, Early, and Arigh-Smith, 1712.

An Account of the

NAMES of the AUTHORS

Quoted in this

WORK.

ACOSTA, (Christopher) an African Physician and Surgeon, who made a Treatise of Druggs and Medicines in the Year 1582, which was translated into Latin, then into French, and printed at Lyons in Ostavo.

Adversariorum Opus, done by Peter Pena and Matthew Lobel, both Physicians. This Book was printed at London, 1570, at Antwerp, 1576,

and reprinted at London, 1605, in Folio.

Agricola, (George) of the Rife and Causes of subterraneous Productions: Book the Fifth of the Nature of those Things which spring from the Earth. Book the Fourth of the Nature of Fossils. Book the Tenth of old and new Metals. Book the Second, Bermannus, or a Dialogue of Metallick Affairs, being a German Interpretation of Metallick Terms.

Aldinus; an exact Description of several scarce Plants, contain'd in the

Farnesian Garden at Rome: Printed there, 1625, in Folio.

Aldrovandi, (Ulyssis) Dendrologia, printed at Bononia in Folio.

Alpinus, see Prosper Alpinus.

Amatus Lusitanus, upon the five Books of Dioscorides; to which is added the Names of Plants in several Languages; printed at Strasburgh, 1554, in Quarto.

Ambrosinus Hyacinthus his Phytologia of the publick Garden at Bononia, or the first Tome of the first Part of Plants; printed at Bononia, 1666,

in Folio. .

Aut.

An Account of the Names of the Authors

Anguillara, (Alofius) third President of the Garden at Padua, his Opinion of several Plants; a small Work divided into sourteen Parts: with the Works of John Marinel in Italian; to which is added two Figures, one of the Chamaleon Thistle, and the other of Tree-House Leek; printed at Venice, 1691, in Octavo.

Apuleius Platonicus of the Virtues of Herbs, joyn'd with a Demonstration of the Herbs to every single Sign of the Zodiack, and also of the Erratick Stars, or such as are not fix'd; printed at Paris, 1528, in

Folio.

Barbarus, (Hermolaus) his five Books of Additions upon Dioscorides;

printed at Cologn, 1530, in Folio.

Bellonius: These Works are translated by Clusius, and placed in the second Volume of Plants, printed at Antwerp. There are besides printed at Paris several Treatises of the same Belon of coniferous and ever-green Plants, in Quarto: Of the wonderful Excellency of the Works of the Ancients, in Quarto: Of Embalming the Dead, in Quarto.

Benzonis, (Hieronymus) his History of the new World, render'd into Latin by Urbanus Calvatones; printed at Geneva, 1600, in Ostavo.

Boccones, (Paul) his Figures and Descriptions of choice Plants; print-

ed 1674.

Boetius de Boot of Bruges, Physician to the Emperor Rodolph the Se-

cond, his History of Gems and Stones; printed at Leyden.

Boutius, (James) a Physician of Batavia, who writ six Books of the Natural History of the East-Indies, but being prevented by Death left them unfinish'd: Afterwards William Piso reduced them into Order, illustrated and published them together with the Natural History of the West-Indies; printed at Amsterdam, 1658, in Folio.

Botanicum Monspeliense, the Montpellier Botanist; printed ot Leyden,

1676, in Octavo.

Breynius, (Fames) of Exoticks, &c.

Brunfelsius, (Otho) his Latin History of Simples, with Cuts, in three Volumes; the First publish'd 1530, another in 1531, and a Postbumous Work in 1536; printed at Strasburgh.

Caspar Baubinus's Pinax, or Store-House of Botanical Rarities; printed at Basil in 1623, and re-printed at the same Place, with some Altera-

tions, in 1671, in Quarto.

Cafalpinus, (Andreas) Aretinus, Professor in the University of Pifa, his sixteen Books of Plants; printed at Florence, 1583.

Ca-

Quoted in this WORK.

Camerarius upon the Epitome of Matthiolus; printed at Frankfort, 1586, in Quarto.

Camerarius on the Medical and Philosophical Garden; publish'd at

Frankfort, 1588, in Quarto.

Cardanus, (Hieronymus) of the Variety of Things; seventeen Books printed at Basil, 1581, in Ostavo.

Caftor Durantes's New Herbal; printed at Rome, 1585, and at Venice,

1684, in Folio.

Clusius, (Charles) his Appendix of the History of Plants, or his Description of several Roots as yet unknown; printed at Antwerp, 1611, in Folio.

Clusius of Exotick Plants, ten Books printed at Antwerp, 1605, in Folio.

Chisius's History of scarce Plants; printed at Antwerp, 1601, in Folio.

Clusius's History of several rare Plants observ'd throughout Spain.

Clusius's History of several scarce Roots observ'd throughout Pannonia, Austria, &c.

Columna, (Fabij) Phytobafanos, with Cuts; printed at Naples 1592.

Two Parts of the same Author of the less known Plants; the first of which contains 161 Figures; printed at Rome, 1616; the other 44 Figures, printed at the same Place, 1616.

Cordus, (Valerius) his Annotations on Dioscorides.

The History of Roots by the same Author, in sour Books, with several Cuts from Tragus, and some new ones added by Gesner.

A Sylva of Observations which were likewise publish'd together by

Gefner at Strasburgh, 1561, in Folio.

A Difpenfatory of the fame Author.

Cornutus, (fames) a Parisian Doctor, his History of the Plants of Canada, and others not known before; printed at Paris, 1635, in Quarto.

Cornarus, (Janus) who undertook Diofcorides, and added Cuts to every

Head; printed at Bafil, in 1557, in Folio.

Cortufus, (James) Anthony, a Senator of Padua, and President of the Physick Garden there, but who publish'd nothing but a Catalogue of the Padua Garden, with the Area or Plans of the same; printed at Venice, 1591, in Octavo.

Costeus, (John) concerning the whole Nature of Plants, in two Books;

printed, 1578, in Quarto.

An-

An Account of the Names of the Authors

Annotations of the fame Author upon the Musaum, with the Works

thereof; printed at Venice, 1570, in Folio.

Crescentius, (Peter) of Bononia, of the Parts of Agriculture, with the Nature and Usefulness of Plants; printed at Basil, 1548, with some Cuts.

Dalechamp's History of Plants in two Volumes; printed at Lyons in

Folio.

De la Duquerie, (John Baptist) his Lexicon Medico-Etymologicum.

Dioscorides of the Materia Medica, five Books in Greek, of which there are various Editions extant in Greek and Latin, with the Interpretation of Marcellus Virgilius, Goupislius Anssulanus, Johannes Ruellius, Johannes Cornarius, Johannes Antonius Sarracenus, and others.

Six Books of the faid Dioscorides, with Ruellius's Notes and small Cuts, 350; to each Chapter of which is added compendiary Annotations of the fecond Edition: Also thirty Figures of Roots not before delineated; by

James Dalechamp; printed at Lyons, 1552, in Octavo.

Dodonæus, (Rembertus) of Mechlin, Imperial Physician, his History of Roots in thirty Books; printed at Antwerp, 1616, in Folia.

Dodonaus's French History of the same, by Chisius.

The Belgick Hiftory, by the fame Author.

Euricius Cordus's Botanologicum, or Discourse of Botany, by Way of Dialogue; printed at Cologn, 1534, in Folio.

The Garden of Eystettensis, describ'd by Basilius Beslerus; printed at

Norimberg, 1613, in Folio.

Fracastorius's Works; printed at Lyons, 1590, in Octavo.

Fragosius, (John) Physician and Surgeon to the King of Spain, his History of Aromaticks, Fruits and Simples that are brought from both the Indies into Europe; publish'd by Israel Spachius, a Physician of Strasburgh, and printed at the same Place, 1610, in Octavo.

Fucbfus's Commentaries on the History of Roots; printed at Bafil,

1542, in Folio.

Galenus, (Claudius) of Pergamus, the most eminent after Hippocrates. Garzias ab Horto, Physician to the Vice-Roy of the Indies, his History of Aromaticks and Simples that have their Growth in India, digested into an Alphabetical Order, and found writ in the Portuguese Language, by the Way of Dialogue, but contracted by Chisus, and render'd into Latin: This Book was translated into French under the Title of the History of Druggs, Spices, and simple Medicines.

Gerard, (John) his History of Plants in English; printed at London,

1597, in Folio.

Gerard's

Quoted in this WORK.

Gerard's History enlarg'd by Johnson; printed at London, 1636.

Gesner, (Conradus) of the Gardens of Germany.

Gefner of the Collection of Roots,

Gefner's Catalogue of Plants in four Languages.

Gesner of the Nature of Fossils, Stones and Gems, with Figures, &c.

printed at Zurich, 1565, in Octavo.

Guilandinus, (Melchior) fourth President or Governor of the Garden at Padua, his Apology against Matthiolus; printed at Padua, 1558, in Quarto.

Gulielmus Pifo, Physician at Amsterdam, his Natural and Medicinal Account of both the Indies; printed at Amsterdam, 1658, in Folio.

Hariot, (Thomas) his Description of Virginia; Clusius turn'd it into Latin, and this is the first Part of the West-Indies.

Hermannus: See H. L. B.

Hermander, (Francis) his History of Plants, Animals, &c. of Mexico, first compil'd by this Author, and afterwards digested into a Volume by Nardo Antonio Reccho; printed at Rome, 1651, in Folio.

Hermolaus Barbarus, his five Books of Commentaries on Hippocrates; printed at Cologn, 1530, in Folio; and the fame Author's Corrections of

Pliny's Natural History; printed at Bafil, 1534, in Folio.

Hieronymus, or Jerome of Brunswick, his plain German Proof; to which is added Brunselsius's Herbal; printed at Strasburgh, 1531, in Folio.

Hippocrates's Works.

Honorius Bellus Vincentinus, a Phylician of Crete, his Epistles of

Plants, writ to Chifius, to which is added the History.

Hortus Medicus Edinburgensis, the Physick Garden at Edinburgh, or a Catalogue of Plants there, by Jacob Sutherland of Edinburgh, 1683, in Octavo.

Hermannus's Catalogue of Plants of the Garden at Leyden, by Paul Hermannus Professor of Physick and Botany in that University; printed there, 1687.

Hortus Malabaricus Indicus.

Hortus Regius Blesensis; printed at Paris, 1655.

Hortus Regius Parisiensis, the Royal Garden at Paris, 1665.

Johannes Bauhinus's History of Plants, carried on by Henricus Charlerus, Doctor of Basil, and enlarg'd by Chabraus of Geneva, 1650, in Folio.

Imperatus Ferrantes, a Neapolitan Apothecary, publish'd a Natural History in twenty-eight Books with Figures of Stones, Corals, Spunges,

An Account of the Names of the Authors

&c. and of Plants and Fruits, thirty-three; printed at Naples, 1599, and Venice, 1672, in Folio.

Ten Parts of the History of the West-Indies, with an Addition to the

ninth Part, in Folio.

Ten Parts of the East-Indies, in Folio.

Johnston's Natural History of Animals with Copper-Cuts; printed at Amsterdam, 1657, in Folio.

Lacuna, (Andrew) his Commentaries on Diascorides, with Figures; writ

in Spanish, and printed at Salamanca, 1552, in Folio.

Lemnius, (Levinus) of facred Plants; printed at Lyons, 1595, in Octavo. Lerius, (Johannes) writ the History of Brafil first in French, then in

Latin; printed at Geneva, 1594.

Linscotus, (John Hugh) his Itinerary and Voyage into the East-Indies, belonging to the Portuguese; with the Annotations of Bernardus Paludanus; printed at the Hague, 1599, in Folio.

Lobellius, (Matthew) his Figures of Plants and Roots; printed at Ant-

werp, 1581, in a long Form, in Quarto.

His Illustrations of Roots, together with the further Care and Diligence of William How an Englishman; printed at London, 1655, in Quarto.

Lobellius's Observations and History of Plants and Roots; printed at

Antwerp, 1576, in Folio.

Lonicerus, (Adam) this was the Herbal of Eucharius, writ in High Dutch, and afterwards publish'd under the Name of Adam Lonicerus,

with 833 Cuts about the Year 1582, at Frankfort.

Ludovicus Romanus his Voyage into the East: Seven Books with the Notes of Archangelus Madriguanus and others, who have describ'd the New World.

A general History of the Plants of Lyons, by Gulielmus Rovillius,

1586, it is usually call'd Dalechamp's History in French.

Malpighius, (Marcellus) his Anatomy of Plants; printed at London, in Fol. Marcgravius, (George) his eight Books of the Natural History of Brafil; this Work was printed in Holland with that of Pifo's, in the Year 1648, in Folio.

Matthiolus his Commentaries on fix Books of Dioscorides, &c. print-

ed at Venice, 1565.

Matthiolus quoted by Lobellius in the Book entitled Icones Lobellii.

Matthiolus on the Venice Edition, 1565.

Mentrelius, chief Physician to the Elector of Brandenburgh, his Universal Index of the Names of all the Plants in several Languages; with a small

Quoted in this WORK.

finall one of the fearcest Plants, and some Figures cut in Copper; printed

at Berlin, 1682, in Folio.

Mefue's Works of the Choice of cathartick or purging Medicines, with the Correction and Use of the two Books, whereof the First are the general Canons, and the Second treats of Simples; printed at Venice, 1623, in Folio.

Monard, (Nicholas) a Physician of Seville, his History of simple Medicines brought from America; writ first in Spanish, then done into Latin by Chifius, and afterwards translated into French by Antony Colin, Apothecary at Lyons: This Work was printed with that of Garzias ab Horto and Acosta, in the Year 1619, in Octavo.

Morison's Universal History of Plants; the second Part by Robert Mo-

rison Botanick Professor at Oxford; printed there, 1680, in Folio. The Hortus Regius Blefensis enlarg'd by Robert Morison; printed at

London, 1669, in Octavo.

Morison's Botanick Preludes.

Morifon's New Description, or ranging of umbelliferous Plants; printed at Oxford, 1672, in Folio.

Nebeniah Grew's New Anatomy of Plants; printed at London, in

Folio.

Nicander's Treacle and Alexipharmacks, with the Greek Readings, or Scholia of an uncertain Author; printed at Venice, 1523, in Quarto.

An Edition of the fame Author with the Greek and Latin Readings of

Gorraus; printed at Paris, 1557, in Quarto.

Oviedus Consalvus Ferdinandus his General History of the West-Indies:

This Work has been turn'd into French by Mr. Duret, in Octavo.

Paludanus Bernardus's Notes on the Indian History of Linscotius, with the Addition of Indexes, &c.

Paul Herman's Prodromus of the Batavian Paradife; printed at Amfter-

dam, in Octavo.

Parkinson's Terrestrial Paradise, in which is contain'd a History of all Flowers, Fruit-Trees, &c. that are cultivated in Gardens or Orchards; printed at London, 1629, in Folio.

Parkinson's Theatrum Botanicum; printed at London, 1640, in Folio.

Petrus Pena: See Adversariorum Opus.

Paulus Renealmus Blesensis his Specimen of the History of Plants, with Copper Cuts; printed at Paris, 1611, in Quarto.

Philip Pigafetta"s History of the Kingdom of Congo, &c.

Vol. II.

Pil-

An Account of the Names of the Authors

Pilleterius, (Caspar) of the Plants growing in Zeland, in an Alphabetical Manner; printed at Middleburgh, 1610, in Octavo.

. Pifo: See Gulielmus Pifo.

Pliny's History, in which several Things are extant concerning the Culture and Virtue of Plants. This Work was translated into French, by Mr. Dupinet, and printed at Lyons, 1581, in Folio.

Pitton Tournefort's Elements of Botany, or the Method of knowing

Plants; printed at Paris at the King's Charge, 1694, Octavo.

Leonard Plukenett's Phytographia; the first Part printed at London, 1691, in Folio.

Father Plumier's Description of American Plants; printed at Paris,

1693, in Folio.

Pona, (John) Apothecary at Verona, his Catalogue of Simples growing in Montebaldo, with the Description of several others, and sixteen Figures, adding Clusius's History of rare Plants. This Work, after several Editions, was translated into Italian by Francis Pona, Dr. of Physick, and the Author's Son; printed at Venice, 1617, in Quarto, at Basil, 1608, and at Antwerp, in Folio.

Prosper Alpinus of Egyptian Plants; printed at Venice, 1633, in

Quarto.

Prosper Alpinus's two Books of Exotick Plants; printed at Venice,

1656, in Quarto.

fohannes Baptista Porta, a Neapolitan; twelve Books printed at Frankfort, 1592, in Quarto: This Author writ several other Works, especially the Physiognomy, or History of several Plants adorn'd with Figures, in Octavo.

Quadramius, a Divine and Botanist to the Duke of Ferrara, writ a Treatise of Treacle and Mithridate; printed at Ferrara, 1597, in

Quarto.

Ray's Catalogue of English Plants, and the Isles adjacent; printed at London, 1677, in Octavo.

Ray's History of Plants; printed at London, 1686, in Folio.

Ray's Methodical Synopsis of British Roots by the same Author, John Ray Fellow of the Royal Society; printed at London, 1690, in Octavo.

Rauwolfius, (Leonard) his Description of several Plants in his Travels

into the East-Indies, and their Cutts; printed, 1583, in Quarto.

Renodaus, (John) his five Books of Pharmaceutical Institutions; to which are added Three of the Materia Medica; printed at Paris, 1608, in Quarto.

Robini

Quoted in this WORK.

Robini Hortus, or the Garden of John Robin's Royal Botanist to Henry the Fourth of France, with 214 Figures; printed at Paris, 1608, in Folio.

Rondeletius of Fish; printed at Lyons, 1554.

Ruellius's Translation of of three Books of Dioscorides into Latin, con-

cerning the Nature of Roots; printed at Bafil, 1537, in Folio.

Scaliger, (Julius Casar) his Animadversions upon six Books of Theophraflus, of the Causes of Plants; printed at Geneva, 1566, in Folio and Octavo.

Schola Estanica, printed at Amsterdam, 1689, in Twelves.

Schroder's Phamacopeia Medico Chymica, whereof there are feveral Impressions.

Schwenckfeldius's Catalogue of the Roots and Fossils of Silesia; printed

at Leipsick, 1601, in Quarto.

Suvertii Florilegium, in which, besides the many Figures, there are 47 Plants from both the Indies not describ'd before; printed at Frankfort, 1612, in Folio.

Sylvatici, (Matthei) Opus Pande Etarum; printed at Venice, 1499, in

Folio.

Tabernamontamus his German History, publish'd in three Parts, with 2087 Figures; printed at Frankfort, 1588, in Folio.

The same enlarg'd with the Description of Plants, Cutts, and several

Medicines, by Caspar Baubinus, in the Year 1613, in Folio.

The Figures, or Prints of the fame, with the bare Names in Latin

and High Dutch; printed at Frankfort, 1590.

Thalius, Silva Hercynia, or a Catalogue of Plants, growing naturally on the Mountains and Parts adjacent to Hercynia; printed at Frankfort, 1588. This Catalogue is usually joyn'd to and adorn'd with the Medicinal Garden of Camerarius.

Theophrastus's History of Plants; the Greek Edition printed at Venice, 1552, in Octavo; at Basil, 1541, in Quarto; and Gaza's Version at

Lyons, 1552, in Octavo, with Fordan's Correction.

Theophrastus Eresius's ten Books of the History of Plants which Bo-

dans illustrated; printed at Amsterdam, 1644, in Folio.

Thevet's Cosmography in French, publish'd with several Figures of Plants and Animals. The same Author has writ in French, a History of what is singularly remarkable in New France in America; whereunto is added twelve Figures of Plants; printed at Paris, 1557, in Quarto.

b 2

Tra-

An Account of the Names of the Authors, &c.

Tragus his History, which was often publish'd at Strasburgh in the German Language in Folio; but now is translated into Latin with 567 Cutts, tho' they are describ'd to 800; printed at Strasburgh, 1552, in Quarto.

Turner, (William) his History of Plants in English, with some Figures;

printed at London in Folio.

Veslingius's Observations upon Prosper Alpinus, concerning Egyptian Plants; printed at Padua, 1638, in Quarto.

Virgilius Marcellus's Interpretation of Dioscorides, with Commenta-

ries of the same; printed at Cologn, 1529, in Folio.

weeks, believed the most first and the same

Giacomo Zanoni's Herbal, taken from the publick Physick Garden at Bologna; printed there in 1675, in Folio.

alded twedvoursures of Plants; printed at Paris, 1577, in Prarts.

A Mark tone Calaban

CATALOGUE

OFTHE

SEEDS

OF

Several scarce and curious Plants lately brought from the American Islands; communicated to Monsieur Lemery's Bookseller, and publish'd with Lemery's Consent, by Joseph Donatus of Surian, a Physician of Marseilles, a Lover of Botany, and also Professor in America, being sent thither by the French King to promote Botanick Knowledge.

ACOUOUA, the first Sort being another Kind of Boxthorn, with feather'd or wing'd Branches, bearing Fruit of a red Blush, a round Flower, yellow and scented.

Acououa, the fecond Indian Kind; a wing'd Bramble first codded, with an Acacia-Leaf, and a white sweet Flower.

Abrus of Alpinus, Piso's scarlet Berry, which Baubinus has delineated with a black Spot.

Are-Kepa, with the Sharpness of Pellitory, and the Likeness of it.

Anouagou the first Sort, a Sea Pulse, purple, spik'd with a Stone Fruit not eateable, of a brown Colour, streak'd with white Spots.

Anou-

Anouagou the second Sort, a Sea Pulse or Pea, without purple Spikes, and with a less stony Fruit.

Anouagou, the third Sort, a stony Sea Pulse with a white spik'd Flower,

and narrower Leaves.

Anouagou the fourth Sort, with fquare, black, long Cods, and a white Flower.

Acacia, the first crown'd Sort, with flat, blackish, purple Pods; the Flower of a golden scarlet Colour.

Another crown'd Acacia, with narrower Leaves, podded, and that

grows in the Woods, with a fweet Flower.

Anacocco, a Kind of Indian Tree that bears an Apple, with a golden Fruit that is eatable, call'd a Baftard Mammon.

Acantha and Acacia of India, a fætid Pod, with a long and norrower

Leaf, and a fweet, golden, round Flower.

Alanalu, a milky Tree that bears a Prune, from which the Indians make the best Wine.

Acouaa, and the Amoroa of India, a Fruit bearing a thorny Ofier, with broad Pods, and a round, golden, fweet Flower.

Astragallus, the purple colour'd, with the longest Root, and a hairy Seed.

Abucia, the beautiful straight Sort of Alpinus, with narrower Leaves, less sweet and purple Flower.

Aipi Indian, a Fruit bearing milky Runner, that produces a Sort of

fcented Aloes, and is of the Size of a Cucumber.

Acain, a Tree bearing an Apple, with a very delightful red Fruit, and a Nut hanging down instead of a Anacardium.

Affourou, a Royal, Aromatick, Indian Tree, commonly call'd Indian

Wood.

Bipicaa, a Fruit of Angola, with a trefoil Leaf, a yellow Flower, and excellent for eating.

Bamia of Alpinus, a hairy Mallow, with a yellow Flower and Nut-

meg-Seed, as Baubinus has delineated.

Boucomibi, with a Periwinkle Fruit, Pods like Sword's Point, with a golden-colour'd Bell Flower, which the Indians call Guaya, or Cancros.

Bamatu with five Leaves, a Tree that is crooked, with a Pear Leaf, and a purple Bell Flower.

Balati, a low venemous Herb in the Woods, with a pyramidal Grape Fruit, of wonderful Virtues.

Cay-

Cayouti, the first Sort a fensible Bramble and chast Thorn, with short Pods, with a fweet, fnowy, round Flower, call'd Chaft Herb.

Cayouti, another Sort, bearing a chaft Fruit, and arm'd with terrible

Thorns, having a round golden Flower without Smell.

Cariarou the Third, a Sea Bindweed, with large fleshy Leaves and a purple Flower.

Caachira, the Herb Annil, from which Indigo, or a Paste is made. with which they dye Wool and other Things.

Cariarou, a fecond Sort, a rib'd Bindweed, variegated with a golden Flower.

Conyarali, with a flaxen Leaf, and white Flower.

Caatia, with the Germander Leaf, that is often us'd by the Poor for Li-

quorice.

Coucouli, a high Tree, bearing a fweet Fruit, and an Apple that is membranous, refembling a Myrobalan Nut, from whence is drawn a Cathartick, or Purging Oil.

Another Kind of Courirou, or fine Bindweed, with a fleshy Ivy-Ber-

ry Flower, a red Fruit, and a spotted Seed.

Caoucia, a Sort of Snake-Weed, with a Pellitory Leaf, that grows in the Woods and Fields, and is very fuccessful in curing the Biting of Snakes and other venemous Creatures, for which Use it yields Precedence to no other Antidote.

Ceratia, a thorny three-leav'd, and Pod-bearing Tree, with a fearlet

Leaf; Chefius calls the Coral-Tree.

Crithmum, bearing the Berry of the Palm of St. Christophers, with Leaves of the Thickness of the largest Purslane, and a little white Flower without Smell.

Cururuape, a Fruit bearing three-leav'd venemous Coralloide, or Shrub Plant, of the Periwinkle Kind, a famous Creeper, whose Leaves the Indians use for venereal Wounds.

Cocao, a Mexican Filbert, or Nut, from which the fam'd Chocolate

is made.

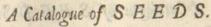
Cacontiba, an American Spurge Laurel, a Caustick Tree, with a white finelling Clufter of Seeds, that are a powerful Hydragogue, or the Indian Cnidium,

Cariarou, the first Kind, a rib'd Bindweed, with a golden Cluster,

and the Seed of a Polyanthos.

The third Kind of Cariarou is a Sea Bindweed, wit's a white sweet Flower.

The



The fourth Kind of Cariarou is a Sea Bindweed with a bloody Flower

and jagged Leaves.

Caratha, an American Herb, with longer Leaves than Aloes; a Da-Etiloides with a white acid Fruit, of which is drawn a fine tough Thread.

Calaba, an Indian Daphnoide Tree, or Sort of Periwinkle, with a Fruit like a Gall-Nut, from which the Indians draw an Oil, and anoint

therewith. Camara the Sixth, a Kind of Fruit bearing Penny-Royal Herb, with

purple Flowers knit together.

Caravicou, a small Kind of the Ricinus, or Pine-Nut, with a little

Seed, an American purging Fruit.

Dolicum, a whitish stony Cotton, or Flaxweed, with short Husks, or Cods, with the small black Berry of Pifo, not eatable.

Datura, a shruby, or stalky Strychnis, or Nightshade, with a round

prickly Apple, and a great purple Flower. Eleimou, Indian and odorous, a hairy Nephritick Herb of wonderful

Evonimus, a winding Shrub, bearing a Quadruple Berry, in Form

of an Apple.

Emouioubay, a very small creeping Mallow that is white, with a golden red Flower, with shining Bladders of Silver, the most excellent Uterine Herb.

Erecoulibanna, a purple Cress, Dittander, or Piperitis, gently prickly, with a caustick Root, the Smell whereof will stupisie Serpents.

An Indian reedy Grass, broad leav'd, with Branches, and very winding, with a purple Tail, and Stone-crop-Seed.

Guayacum, an Indian Tree with rounder Leaves than the Box, and a

purple Flower, commonly call'd Holy Wood. Jamabeu, the famous Ricinus, with Palm-Leaves jag'd deeply or in-

dented; Baubinus delineates it the Purging Hazel, or Filhert.

Inimboy, a thorny winding Fruit with stony Kernels; Chisius calls it

Lobus Spinofus, the Prickly Lobe. Ichicouliba, that refembles an Ash, with a golden horned Fruit and

Flowers almost like Pimpernel, the Root whereof is diuretick.

Jaboureitica, an Indian thorny Tree, with Leaves that finell very near refembling those of Rue, with very small purple Flowers, call'd, in French, Wood of Pian.

Tynaoa,

Jynaoa, an Indian purging Buckthorn, with a pointed fleshy Leaf, and an odorous red Flower.

Kebecati, a little maritime Tree, with a Fruit very like the Citron

Myrobalan, a Specifick in the Bloody Flux.

Kaconacon Bona, an Indian Mallow Tree shining with a Silver colour'd

Leaf.

Larani, with the white Flower; the great American Ricinus, the Black: Baubinus, in his Pinax, calls 'em Pignones de los Infiernos, or the Devil's purging Nuts.

Latyrus, the narrow leav'd, with a large blue Flower, the most beau-

tiful Bindweed.

Lithospermum Gramineum, Grass Stone-Crop, with the broad reedy Leaf, and a particular purplish black Tail.

Mynty, a Dysenterick Tree, with the Pear-Leaf and Olive Fruit, which

the Blacks use among their Eatables.

Macenilla, a venemous and milky Tree, with a fweet Fruit like an Apple, which the Indians poison their Arrows with.

Monbanitobon, the fecond Sort, a Kind of Eupatorium, that bears gol-

den Clufters on its Stalks.

Manalou, a yellow Bindweed that looks like a Briony, with a sharp

Leaf, and a red Olive-like Fruit.

Mantiakeira, a hairy foorching Pulfe, with a broad trefoil Leaf, a

golden crown'd Flower, commonly call'd a Grating Pea.

Merucuya the Golden, in Form of an Apple, adorn'd with a large purple Flower, with a spreading Leaf deeply indented.

Meeru, the First of Brasil, an Indian broad-leav'd Cane.

Matallon, another lagenarious Tree, with a leffer Four-square hollow'd Fruit, like a Tobacco-Box.

Another Mantiakeira, being a hairy Pulse, with a woolly Pod, and a

coronated purple Flower.

Meeru, or another Indian Cane with narrow Leaves, and a yellow

Flower.

Mebipi, a black American Pea, with a white Tuft on the Top, call'd,

the Pea of Good Life.

Mandubi, an American four-leav'd Plant, with a yellow Flower.

Moussambey, an Oleran Herb of the Indies, an erect horny Cinquefoil,

with a fine leavy Stem, and blackish purple Flower.

The third Montochiba, a fenny Violet-colour'd Almond-Tree, the Pe-

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Nozse

Noulourbue, another Soapwort, being a Tree that bears a Grape or Berry, which the Indians use for Soap.

Nhaloubonou, a maritime Tree, with a red Myrobalan Fruit, and a

Leaf broader and more fleshy than the Pistackia.

Ovacobiba, an unknown Sort of Almond Fruit; the Tree of which bears thirty-four Kinds of Gums, with Chefnut-Leaves.

Oulabouli, the first Kind, a Fruit bearing a Creeper, with golden

Flowers that fly away in Down.

The fecond Oulaboali, or Indian Golden Rod, with a fweet purple

Berry.

Onaiboubon, a hoary Fruit bearing Celandine, with the Leaves of Bears-foot, or Black Hellebore, and the Flower refembling the Cotton, with a whitish Sky Colour, whose yellow Juice purges like the Pine-Nuts of Monardus,

Ouroni, a white Apple, call'd Acaiu, of an excellent Tafte.

Ovacobiha, the third Sort, with an unknown Almond Fruit, and Walnut Leaves; the Tree bears thirty-five fragrant Gums in the highest Woods.

Oucoulibue, a high Indian Tree, with a fweet, woody, or dry membranous Apple, near to the Cathartick Myrobalan Nut, with a red

Flower.

Ovaraoua, an Indian Tree, like the Frangula of Matthiolus; the Der

coctions of whose Leaves and Bark purges downwards.

Ovacobiba, another Kind of the unknown Almond; being a lofty A-

merican Pistachia Tree, with woolly Leaves.

Ouloucouya, the first Sort, an Indian Scabious, with a sharp tuberous Root, very beautiful, fomething like the Sow Thistle, with a fweet red Flower.

Pifum, the Small Bladder Nut, with black Fruit, and a white, as Bau-

binus has delineated it; the Pisum Cordatum of Lobelius.

Papaver, the white prickly Poppy, with the Hellebore Leaf, whose

yellow or golden Juice purges dropfical Bodies.

Palmites, the fourth Sort fair and branching in the Woods, with a long Tail, very fweet and grateful.

Quya, and the round Indian Pepper less biting.

Qui Gumbo, the branching Mallow, with the Willow-Leaf and

Pine-Fruit, fit for eating. Quya, the third Sort, a fmall, oblong, biting, Indian Pepper, with

broader Leaves.

Rhagus

Rhaou, the Wood Tormentil Tree, that looks like a Phyllirea, with an Acorn Kind of Fruit, whose Root dies well, and is commonly call'd Ba-Stard Isabella Wood.

Ricinus, the less spreading American one, the Coralloides, with a Palm

Leaf.

Another Riboulichi, a whitish Indian Bay, appearing with a Poplar Leaf.

The large Ricinus, and Kerva of the Arabs, bearing Fruit in America, with the broadest Palm-Leaves.

Rhamnus Antinome, the fecond Berry-bearer; the Bark receiving a

Tincture in cancerous Wounds.

Another Riboulichi, a sharp American Bay, unknown, with a fost broad Leaf and Perforate.

Savariaba, a thorny Tree like a Sloe, containing a black purging Pitch, or Marrow.

Sesamum and Sensem, an Oleran Herb, or Indian Corn or Grain, from

whence is drawn a famous Oil amongst the Indians.

Sair of the Indians, a Hemp-like branching Sorrel, or four Dock,

crown'd with a purple Fruit, or Guiny Sorrel.

Solanum Mexicanum, the Mexican Nightshade, with the red variegated Flower, or the Mirabilis Peruviana of Clufius, which the poor People use for Falap.

- Tibouecaton, a deadly American Nightshade, with a prickly Leaf, and

a Gold-colour'd Fruit, like a Pear.

Titoulibue, a finall milky Tree, with a Citron Leaf, a joynted Fruit, and a white fweet Flower: 'Tis an excellent Febrifuge.'

Toutou, a woolly Indian Tree, with a large-belly'd Fruit arising out of

the Trunk. Tuboa, another woolly Tree that bears a less Fruit, which the Indians

make use of instead of the other. Toulichiti, a finall, intoxicating, blackish Berry, that grows in the

Woods, with a whitish, rough, jagged Leaf.

Tibouecatou, the fecond Sort a branching filky Nightshade, with a

white Apple-like Fruit, and a Thorny Leaf.

Another Sort of the Titoulibue, which is an high Tree in the Woods,

with lefs Leaves, and a red Flower without Smell.

- Tinoulou, a fenny Buckthorn, with Pods like a Crescent, and several Feet; the Flowers whereof are purging.



Tondoumibi, a spreading purple spik'd Creeper, with a wing'd Seed that is us'd to intoxicate Fish.

Another Sort less beautiful and spreading, with a spik'd Berry, and

odoriferous Flowers.

Toulichiba, a Sort of podded, wild, Campion Tree, with the Mallow Leaf; the Seed whereof is a Sort of purplish black Pulse, or the liguminous Kind.

Tobocora, a thorny venemous Sea-Tree, with a double round Leaf, and Berries turn'd up with little Horns, including in 'em a Sort of flat

Agat-like Stones.

Tapire, great, broad, white Peas, streak'd on the Back with a purple Colour, call'd the Grand Gorgane, which the Poor make good Food of.

Urucu, an Indian Tree with a hairy Chesnut Kind of Fruit, and a red Flower, with which the Indians extract a famous purple Dye, and befinear their Bodies with it instead of Cloths.

Urucu, an Indian Tree, bearing a Berry with a finooth Fruit, and a

Colombia Mexicanut, the Maxican Nighthade, with the red varietyeed

Transleve a finall milky Tree, with a Citron Leaf, a joynted Fruit,

the Frank.

Tuesas another woodly Tree that bears a lefs Fruit, which the Indiania

crown david a parole Front, or Cains Serrel.

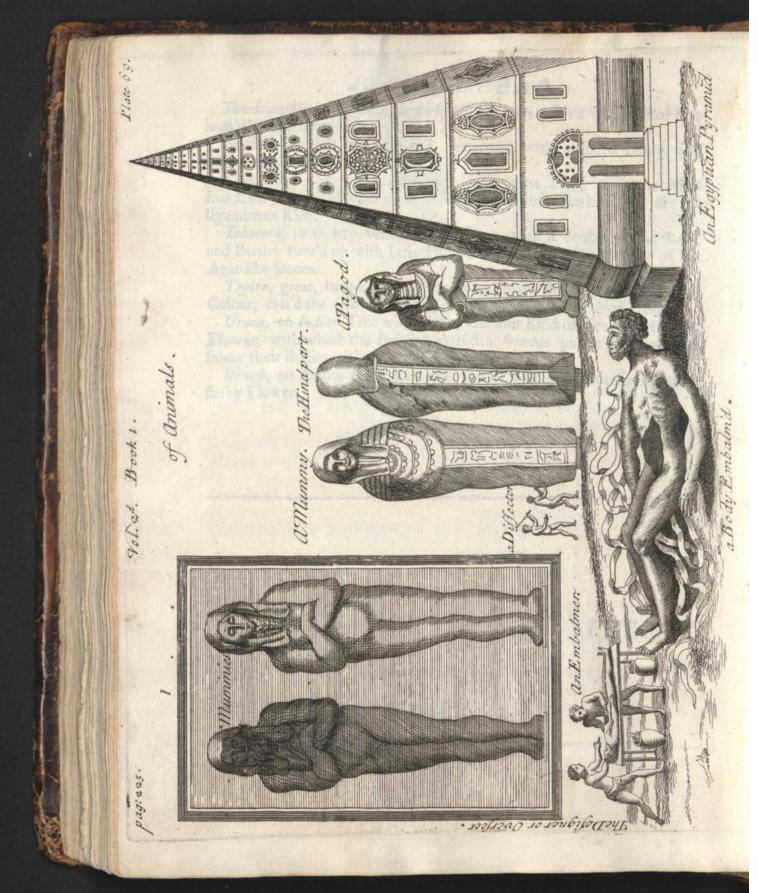
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fiefly Flower. Sorrell Sorrell on Hemp-like branching Sorrell or four Dock

POMET's







POMET'S General HISTORY

DRUGGS:

With what is further observ'd by Monsieur Lemery, Turnefort, &c.

Colume the Second.

BOOKL Of ANIMALS.

I. Of Mummies.

MONGS Tall the Teftimonies of Respect, which Antiquity paid to the Bodies of the Deceas'd, that of a decent Burial was always in most Esteem; by which last and pious Acknowledgment, they were willing to honour and preserve the Memory of those whose Actions had recommended them in their Life-time, and perform'd a pose of the Dead. The wonderful Pyra- frozen Scythia were bury'd in the Snow: mids of Egypt, of which I shall speak by But the most ancient Kind of Burial was and by; the Obelisks engrav'd and carv'd with fuch Pains and Industry; the Maufoleums; and in short all the rich and pompous Monuments, found throughout the World, are certain Proofs of the Piety and Regard of the Ancients towards the Dead. But as there are several different Nations, and dif-

ftoms, in paying their last Respect to the Deceas'd. All the Elements have been Partakers of the Spoils of the Dead, the Earth not having been thought fufficient alone to take care of the Relicts.

History informs us that the Fire burn'd and confum'd the Bodies of the Greeks, Romans, Gauls, Germans, and feveral other Nations; that there were a People who hung their dead Bodies in the Air, upon the Branches of Trees; that the old Inhabitants of the North found their Graves at the Bottom of the Work of Charity, tending to the Confola- Ocean, as the Echiopians, in the Current of tion of the Living, and the Peace and Re- their Rivers; and that the People of the that of Interring the Bodies, from whence we have Reason to believe, that Adam himfelf was buried after this Manner.

It was from the Jews that the Christians practis'd the Interment of the Dead, making Pits or Graves in subterraneous and retired Places, call'd Tombs, or Catacombs, ferent Religions, so there are particular Cu- and most usually Cemeteries, or Dormito-Vol. II.

most coftly Kind of Embalming was valued at a Talent of Silver, which may be computed at about eight hundred and fifty Livers, at that Time of Day, but reckon'd now wou'd amount to eight thousand Livers,

This Embalming was us'd to none but Perto be imploy'd in the Operation; one was a Kind of Deligner, or Overleer, who mark'd out such Places of the Body, as were to be opened to take out the Bowels. The next was a Dissector, who, with a Knife made of an Ethiopian Stone, cut the Flesh as much as was necessary, and as the Law wou'd permit, and immediately after fled away with all the Expedition imaginable; with Stones, and do him all the Injuries they cou'd, treating him as an impious Wretch, and the worst of Men. After this Operation the Embalmers, who were reckon'd as Holy Men, enter'd to perform their Offices; and began first, some to remove the Bowels in the upper Cavity, excepting the Heart and Reins; and others to cleanle the lower Belly, which they wash'd with Palm Wine, or other aromatical Liquors; and during the Space of above thirty Days, they wash'd the Body with Balfam, Gum, or Rofin of Cedar, and fill'd it with Powder of Myrrh, Aloes, Indian Spicknard, Bitumen of Judea, and other Things of the like Nature; but they never us'd Frankincense, which we now call Olibanum; either because of the great Veneration they had for that Drugg, or by they us'd Iron Instruments, which they thrust up the Nostrils, and pierced the Scull the Brain; and afterwards they fyring'd up precious and odoriferous Liquors.

The second Sort of Embalming was reckon'd at half a Talent, which was us'd to the middle Sort of People, where they contented themselves only to syringe the Body, or make Injections of Water, or rather of the Egyptians have the greatest Veneration, a Decoction made of Simples, or other are such as have a Head like a Cat, accom-

ries, that is Sleeping Places: But before Bu- when the Body was thus prepar'd, to put it rial they were embalm'd after a very curious into Salt for seventy Days; after which Manner, as shall be shewn. The first and Time they took it out, and having open'd the Hole they drew out the Intestines, which were almost wholly consum'd. This done, they wrap'd all the Body in Bandages of fine Linnen dip'd in Myrrh and Afphaltum; and the Designer, which they call'd the Scribe, or five hundred Pounds Sterling and upwards. cover'd the Wrappings with a painted Cloath, whereon was represented the Rites fons of the first Quality. Three People us'd of their Religion in Hieroglyphick Charaeters, and the Animals which the Dead lov'd

The History of the Beetle.

The Principal of all those Animals, or that for which the Egyptians had most Veneration, was the Beetle; as well because of its wonderful Birth or Production, as from the Abecause it was the Custom of the Relations nalogy or Resemblance they presend this and the Domesticks to pursue the Dessector Animal has with the Sun, and the strange Instinct in this Creature to continue its own Species; for this little Animal breeds without the Aid or Affiftance of any Female; for when the Male wou'd produce, he feeks out the Dung of an Ox or Bull, and having found it, he forms a round Ball, of the Figure of the World, which with his hind Feet he turns from East to West, and turning himself towards the East, he imitates the Motions of the World. Having thus roll'd the Ball, he puts it in the Ground and leaves it there twenty-eight Days, which is the Time that the Moon passes thro' the Signs of the Zodiack; and during that Time he harches the little Beetles in the Ball; and the twenty-ninth Day, which is the Day of the Conjunction of the Moon with the Sun, and the Time Productions are made in Nature, Reason of its Scarceness. As to the Head this little Animal rolls its Ball into the Water, where it opens, and the Beetles get out. It is upon this account some fay that it is with, to draw from thence the Subflance of made the Emblem of Birth, and the Symbol of Fathers; because these Insects have but one Father, and no Mother. They represent also the World, because of the Ball which they form and turn round; and Man, because there are none but Male Beetles: They are of feveral Kinds, but those for which Druggs, and Oil of Cedar; and afterwards, pany'd with Rays, which gives Occasion to them them to believe that these Animals have some their departed Friends, having such Regard Analogy to the Sun; and the more, because this Infect has thirty little Paws, made like Fingers, which represents the thirty Days that the Sun makes each Month in passing thro' the Signs of the Zodiack : As to the other hieroglyphical Characters, the History of 'em is too tedious, but they may be feen in Father Kircher.

The third Sort of Embalming was for the poorer People, which was made with a Mixture of Pitch, and Bitumen of Judea; or rather the Bodies were dry'd with Lime, or other Druggs of little Value; and fometimes they us'd Egyptian Nitre, Salt, Honey and Wax : fometimes likewife they boil'd the Bodies in Oil to consume the Moisture, which is the only Cause of the Corruption; for the Principle of Corruption is a moist Heat, that introduces itself into the Flesh by the Dissolution of Parts, and by the Mixture of heterogeneous Bodies, which possesses which the Heat opens and enlarges: The Air which is hot and moift is the most common Dissolvent of all Bodies, and the only Way to preferve them, is to defend them from the Air; to which we may add, that the Air being full of an infinite Number of Infects, which we cannot perceive, because of their Minuteto the Flesh and Prey upon it; and as they eafily encrease, there are Seasons wherein all the Plague, and other malignant and conta-

neration they had for their deceas'd Relations, Society, which engag'd him indispensably to vey'd out of their Sight, but rather fought the Time limited, otherwise he was blam'd out Ways to have them continually be- by all the World. fore their Eyes, to the End that they might imitate their Actions; that is to lay, live many other Expences for preferving their Bo-

to their Actions as to make them the Rule of their future Conduct.

For which Reason, when any of their Kindred died, they manag'd them so exquisitly, and dry'd them after fuch a Manner, that their Bodies became as hard as Marble Statues, which they call'd, in their Language, Gabbaras, which fignifies Mummies, and their Art of preparing them was so nice, that nothing in them was disfigur'd: They wou'd paint their Faces of feveral Colours, and sometimes with Gold, after they had been embalm'd, their Arms lying a-cross, the one upon the other, and bound about with fine Linnen, which had been before dipt in aromatical Gums; and then they put upon the Head a Napkin, like a Woman's Quoif, that hung down on both Sides upon the Breaft, and behind upon the Shoulders: They had besides, under the Chin, a twisted Neckcloth, that served to squeeze their Cheeks together, and tye their Jaws close, so that they cou'd not fall, and thus they appear'd rather like Persons asleep than dead.

If by any Sickness they were disfigur'd, they clap'd over their Faces Masks of Past-board, or of painted Cloath, resembling the dead Person, and embelish'd or adorn'd with several Colours: On the contrary, if the Person nels, they are thefe little Infects that adhere was not disfigur'd they left the Face and Ears naked, and so painted them as they pleas'd. The Dead being thus order'd, they were put the Air is full of them, especially in Time of into great Cases of Glass made on purpose, according to the Grandour of the Perion, gious Diseases; and it hath been observed and afterwards they plac'd them in the most by Microscopes, that what we call a Gan-elevated or highest Part of their Houses: grene is nothing elfe but a vast Number of And this they reckon'd such a valuable Pledge little Infects eating the Flesh, as Mites do and Token of their Faith, that if any of Cheefe. Therefore there is no other Way of them happen'd to want Money, he cou'd not keeping Flesh, but by excluding these Ani- give a better Security than the embalmed mals, which is done by Means of Honey, Body of his Relation; and that which made Oil, Spirit of Wine, and some other Li- it esteem'd so, was, that they wou'd spare no quors, that fetter and entanglethele Infects. Pains to pay the Money again; for if by But the Curiofity of the ancient Egyptians Mischance the Debtor cou'd not redeem this went much further, because of the great Ve- Pledge, he was reckon'd unworthy of civil which they fuffer'd not to be interr'd or con- find out Ways to recover his Kinfman in

The same Egyptians were besides at a great according to the Honesty and Integrity of dies: For after they were embalm'd, (tho'

not dry'd) with feveral precious Druggs, and wrap'd about with a great deal of fine Linnen, and sometimes they us'd above two hundred Ells of Bandage, so that nothing was feen but the Face, and fometimes nothing at all: they were likewise put up in Boxes or Coffins of precious Wood, which the Dead had caus'd to be made while living, together with the Body of the Idol or Pagod, which they worship'd in their Life-time. The Idols, or Pagods, were made of Gold and Silver, or other Metal; but most usually of the Clay of the Country, with hieroglyphical Characters, which denoted the Quality of the Dead, the Charge of the Embalming, the Time of their Death, and rhe Place from whence they came.

After they had thut up the Coffins of their deceas'd Friends, they carry'd them with great Pomp into the Places which they had caused to be built in their Life-time, as is to be feen at this Day by the Pyramids of Egypt, which are two or three Leagues from Grand Cairo; and Historians relate, that Chemmis King of Egypt made one, where one hundred thoufand Men were imploy'd for twenty Years, which was of a fquare Figure, and about fifteen Foot deep; and the Face or Front, on each Side of the Basis, was eight hundred Foot broad, and of the same Height, in which was a perperual Lamp. We may fee, by this, what Care was taken of their Dead; and we ought to undeceive those who are so credulous as to believe, that those are true Mummies which are brought us to fell again as a Commodity, being only Bodies pitched over.

Befides these pretended Mummies, and the former, we meet with another Sort; as those of Africa, which are call'd white Mummies, and are nothing else but the Bodies of those that are drowned in the Sea, which being caft upon the African Coast, are bury'd and dry'd in the Sands, which are very hot; and tho' they have been lufty Men in their Lives, after they have lain some Time there, they weigh not above thirty Pounds, and are then in a Condition of keeping for ever. There is one in Paris, in the Cabinet of Mr. Boudet, Nephew to Mr. Boudet, the King's Physician. These Mummies are little us'd, because they are both dear, and have little or no Virtue in them.

We may daily see the Jews carrying on their Rogueries, as to these Mummies, and after them the Christians; for the Mummies that are brought from Alexandria, Egypt, Venice and Lyons, are nothing elfe but the Bodies of People that dye several Ways, when ther bury'd or unbury'd, that are afterwards embowell'd, and have their several Cavities fill'd with the Powder, or rather Sweepings of Myrrh, Caballine Aloes, Bitumen, Pitch, and other Gums, and then wound about with a Cerecloath stuft, with the same Composition; the Bodies being thus prepar'd, are put into an Oven to consume all their Moisture; and being likewise well dry'd, they are brought, and fold here for true Egyptian Mummies to those who know no better. and don't understand that the Egyptians put fo great a Value upon their Dead, and what they did in this Kind was to preferve the Memory of their Friends, and not to make a Trade of: To prove what I fay, I shall relate whar Mr. Guy de la Fontaine, the King's Physician, and after him Ambrose Pary, have

The Sieur Guy de la Fontaine being at Alexandria in Egypt, went to see a Jew in that City, who traded in Mummies, that he might have ocular Demonstration of what he had heard fo much of; accordingly, when he came to the Jew's House, he defired to fee his Commodity or Mummies, which he having obtain'd with some Difficulty, the Jew at last open'd his Magazine, or Store-House. and show'd him several Bodies pil'd one upon another. Then after a Reflection of a quarter of an Hour, he ask'd him what Druggs he made use of? And what Sort of Bodies were fit for his Service? The Jew answer'd him, That as to the Dead he took fuch Bodies as he cou'd get, whether they dy'd of a common Disease, or of some Contagion; and as to the Druggs, that they were nothing but a Heap of several old Druggs mix'd together, which he apply'd to the Bodies; which after he had dry'd in an Oven, he fent into Europe; and that he was amaz'd to fee the Christians were Lovers of fuch Filthi-

But this is very different from what the ancient Physicians believ'd, when they preferib'd Mummy; but as I am not able to thop the Abuses committed by those who sell



this Commodity, I shall only advise such as Pound; Balm of Gilead or Peru, four Use is for catching Fish.

Some Authors will have it, that the Fat mix'd with Bitumen that flows from the Tombs, makes the true Mummy; and others fay that it is the preferv'd Flesh, which was made by a Tewish Physician, who wrote. That the faid Flesh, thus preserv'd and emeases. They have likewise given the Name that of Judea, and those which flow from several Mountains of Arabia, and other hot Countries; but those Appellations are very improper, they being fat, viscous, stinking Humours that breed in the Entrails of the Earth.

Of other Preparations made from Human Bodies.

Besides the Mummy that is met withal in the Shops, we fell Human Fat or Greafe, which is brought us from feveral Parts; but, as every Body knows in Paris, the publick Executioner fells it to those that want it; so that the Druggists and Apothecaries fell very little; nevertheless they vend a Sort that is prepar'd with aromatical Herbs, and which is without Comparison much better than that which comes from the Hands of the Hang-Man. This Adeps or Axungia is reckon'd very good for Rheumatisms, and other Difeases, proceeding from a cold Cause. Besides the Far, we sell the fix'd and volatile Salts of the Blood, Scull, Hair and Urine, and other chymical Preparations, to be found in Mr. Charas's Royal Pharmacopoia, &c. which those who defire to know further about these Preparations may have Recourse

Man's Greafe is emollient, discussive, anodine, and antiparalitick; it is good against the Gout and contracted Nerves, made into an Oyntment, as follows: Man's Greafe, two Pounds; Gum Elemi, half a Pound; the Falling Sickness. The Skulls of Cri-

buy, to chuse what is of a fine thining Ounces; mix and make an Oyntment, by Black, not full of Bones or Dirt, of a good melting all together. Man's Scull is a speci-Smell, and which being burnt, does not fick Medicine in the Cure of the Falling flink of Pitch: This is reckon'd proper for Sickness, and indeed of most Diseases of Contusions, and to hinder the Blood from the Head, taking of the crude Powder Coagulating in the Body; but its greatest rasp'd from the fresh Bone of the Skull, one Scruple or two in any proper spirituous Liquor: The Oil and volatile Salt are for the same Purposes, but in less Quantities.

Of the Moss upon the Human Scull.

The English Druggists, especially those of balm'd, ferv'd for the Cure of feveral Dif- London, fell the Heads or Sculls of the Dead, upon which there is a little greenish of Mummy to several natural Bitumens; as Mols, which is call'd Usnea, because of its near Resemblance to the Moss that grows upon Oaks; and as Mr. Charas stay'd a confiderable Time in England, and faw great Plenty of 'em, I have only related what he told me on this Subject. This Mofs is an Excrescence that grows two or three Lines high, on the Top and round Mens Sculls who have dy'd violent Deaths, and lain some Time on the Ground, or hung in Gibbets, or the like: It only begins to grow when the fielly Substance about the Scull is wasted away. The English Druggists generally bring these Heads from Ireland; that Country having been remarkable for them ever fince the Irifb Maffacre: You may fee in the Druggifts Shops of London, these Heads entirely cover'd with Moss, and some that only have the Moss growing on some Parts; and we ought not to be furpris'd at the Growth of this Moss on the Sculls of dead Men unburied, fince we daily fee the Hair of the Head, Beard, and some other Parts of the Human Body, grow after Death, as long as there is any Moisture left to supply Nourishment to the Part; and that the same Thing happens to the Nails is evident, but whether it will hold as to the Teeth, as some pretend, I dare not venture to affirm. The same Druggists send to foreign Countries, especially Germany, these Sculls cover'd with Mois, to put into the Composition of the sympathetick Oyntment, which Crollius describes in his Royal Chymist, and is very available in the Cure of Bees-Wax and Turpentine, of each one minals newly hang'd, ftrip'd of the fleshy MemMembrane, and the Brains taken out, being you to him for the Satisfaction of your Cuwell wash'd and dry'd, and separated with a Saw from the lower Part, is what the Druggifts fell by the Name of Human Scull.

A Mummy is a dead Body of a Lemery. Man, Woman, or Child, which is embalm'd and dry'd: The first Mummies were taken from the Burying Places of the ancient Egyptians, near the Pyramids, where the finest were to be seen a few Leagues from Grand Cairo. This Embalming was made with Balfams, Rofin of Cedar, Jews Pitch, Myrrh, Aloes, and feveral other aromatical Ingredients, capable to dry up the Humidity or Moisture of the Flesh, to stop the Pores, and prevent the Air from entring, and to refift Putrefaction. We use at this Day almost the same Druggs for Embalming dead Bodies; but whether it was that their Druggs were better than ours, or that they had a more perfect Method of Embalming than we have; or that their Burying Places were dryer, more impregnared with Salts and Bitumens, or less subject to Putrefaction; their embalm'd Bodies lasted vaftly longer without Corruption, than those we do at present, if we dare believe Tradition; for they pretend to show us Egyptian Mummies of near four thousand Years Duration; whereas we take a great deal of Pains in these latter Ages, to preserve them two or three hundred Years.

And here it may not be improper to give an Account of the modern Way of Embalming, from Mr. Dionis's Course of chirurgical Operations. Embalming is an Operation almost as ancient as the World, and which has been practis'd in all Ages; and either out of a venerable Regard to their Relations, or a Principle of Religion, Men have always endeavour'd to preferve their Dead, of the Truth of which Arabia and Egypt have furnish'd an infinite Number of Instances; but at present we embalm none but the Rich and Great, whose Relations only are willing to be at that Expence.

Mr. Penicher, a Parifian Apothecary, has given us a Treatife of Embalming, according to the Practice of both the Ancients and Moderns, which confifts of feveral learned Stories of the Embalming of David, Alexan- belongs to the Surgeon; and, Thirdly, Those

riofity; but talking indeed like an Apothecary, he gives us fo many Sorts of ballamick Powders, that he wou'd very much puzzle us which to chuse, if we did not know that they are almost all alike. He further pretends that it is the Apothecary's Right to prefide in Embalming; that the Composition and Application of the balfamick Matters belongs to him; and that the Surgeon is prefent for no other End than to make the Incifions, and fix on the Bandages which he prescribes; but daily Practice overthrows what this Author pretends to advance. 'Tis the Surgeon only which embalms; 'tis he who is charg'd with the whole Operation; and after the Apothecary has prepar'd what he requires, he is not to concern himself any further in it, unless he will attend as one of the Surgeon's Apprentices or Affiftants, to hand to him what he has Occasion for.

Mr. Penicher cites as a President for Embalming, that perform'd on the Dauphiness. We are not to be supriz'd if his Relation is not exactly just in several Circumstances; he transcrib'd it from a Memorial, which the Apothecary to that Princels gave him; and its Author believing Pharmacy fo much above Surgery, that the latter could not dispute it, has by this Memorial, taken all advantagious Hints, which feem'd to him to favour his Opinion: But having perform'd that Embalming my felf, none can be a better Evidence in this Case: The particular Relation of which, to avoid Repetition, I forbear here, because the Method which I shall lay down, of performing a compleat Balfamation, will inform you of all that paffed, at that of the Dauphinels.

After the Opening of the Body, and the Drawing up, and Signing of the Relation of the Particulars to be observ'd, with Regard to the Body, the Phyficians and Surgeons withdraw, leaving to the operating Surgeon, the Care and Direction of the Embalming: Wherefore, all depending on him, he causes to be brought into the Chamber where the Corps is, all the necessary Ingredients and Instruments for that Operation, and which we know to be of three Sorts: First, Those Enquiries on this Subject; he relates the which the Plummer is to make: Secondly, What der, and several others; wherefore I refer which relate to the Apothecary.

The

wou'd prove too little to hold it after Embalming; he bespeaks of him a leaden Barrel to put the Entrails into; and also a leaden Box made of two Pieces, to thut, to contain the Heart after it is embalm'd; ordering him to bring all of them to the Chamber where the Corps is, at the Hour which he appoints. The principal Part of the Surgeon's Apparatus confifts in Bands; for the Inftruments are the same which are us'd in opening of the Body. The Surgeon then is to prepare five Bands; two of three Fingers Breadth, and four Ells long, to bind the Arms; two of four Fingers Breadth, and fix Ells long each, to bind the Legs and Thighs: And one yet broader and longer to perform the necessary Circumvolutions about the Body. 'Tis the Apothecary's Business to furnish : First, The aromatical Plants well pulveriz'd in a Mortar: 2dly, The Gums and odoriferous Druggs beaten to a fine Powder; and, 3 dly, A Liniment to rub over and anoint the Body.

The first or coarlest Powder which serves to fill the great Cavities, and to be put in with the Entrails, is compos'd of four or five and twenty different Plants; to which End we make use of the Leaves of some of them, the Roots or Flowers of others, and the Rinds, Barks, or Seeds of others: The most proper, and the most easie to be gotten, are the Leaves of Laurel, Myrrh, Rofemary, Sage, Balm, Wormwood, Marjoram, Hystop, wild Thyme, Basil; Roots of Orrice, Angelica, Calamus Aromaticus; the Flowers of Roses, Camomil, Melilor, Lavender, Lemon and Orange Peel; the Seeds of Anife, Fennil, Coriander and Cummin: To all which, when well powder'd, are to be added so many Pounds of common Salt, as to encrease the Whole to thirty Pounds Weight. Of the other, which is the finest Powder, there must be ten Pounds, and it is to be compos'd of ten or twelve odoriferous Druggs, which are proper to preferve the Body for the Space of feveral

The Plummer being fent for, comes to take Alum, falt Peter; all which are to be well the Surgeon's Order about the Size of the powder'd, and pass'd thro' a Sieve. The Coffin ; because if he shou'd content himself Liniment is to be compos'd of Turpentine, with taking Measure of the Body, that Case Oil of Laurel, liquid Storax, and Balsam of Capivy, by reason that of Peru is so scarce, that it alone would coft more than all the Embalming Ingredients: Three Pounds of this Liniment are sufficient to make the neceffary Embrocations. Befides these three Articles, the Apothecary is to provide three or four Pints of Spirit of Wine, five or fix great Bundles of Tow and Cotton, two Ells of the broad Cerecloth, and a large Bundle of coarse Cord. The Surgeon, provided with all these Preparations, is ready to begin the Embalming, which he executes in the following Manner.

Having order'd to be fet near him the leaden Barrel, the Surgeon takes some handfulls of the coarfer Powder, and spreads it over the Bottom of the Barrel, and above that spreads Part of the Entrails; then lavs another Row or Bed of that Powder, and then another Lay of the Entrails, thus con-tinuing on Stratum fuper Stratum, 'till he has laid into the Barrel all the Parts which were contain'd in the Head, Breaft and Belly, except the Hearr, which he separates and puts to loak in Spirit of Wine, 'till he has finish'd the whole Body, when he embalms that in particular; he must remember to end with a Lay of Powder, and if the Barrel is not full, he is to fill it up with a Bundle of Tow; but if the Plummer has made it too high, the Operator is to order him to cut off all of it that is too long, that the Cover being folder'd on, no Part of it may remain empty.

The three Venters or Cavities being thus evacuated, we are to wash them with Spirit of Wine, before we fill them up; which done, we begin with the Head, filling up the Scull with the Powder and Tow mix'd together; and having got in as much as ic can contain, we put it again into its Place; and before we fow the hairy Scalp over it, we put betwixt them some of the finer or balfamick Powder; we pour some Spirit of Wine into the Mouth to wash it, and then fill it with the same Powder and Cotton: Ages; they are Myrrh, Aloes, Frankincense, We do the same to the Nostrils and Ears, Benjamin, Storax Calamita, Cloves, Nut- and then with a Pencil or Bruth, we embromegs, Cinamon, white Pepper, Sulphur, care the Face, Head and Neck, with a Li-

nimenta

niment; and after strewing the fine Powder fo perfectly rolls over the Body, that no Part on all those Parts, we form a Crust over the whole Superficies. With the Powder and Tow the Operator fills up the Breast and Belly, which is now but one large Cavity; for in taking out the Entrails, he has before taken out the Diaphragm, which separated them one from another; he is not here to be sparing of his Powders, which must prevail in this Part, the Tow being only made use of to bind and keep them together; he returns the Sternum, and after having cover'd it with the fine Powder, which he also thrusts betwixt the Ribs and Tegument, he performs the Suture with a Needle, from the Neck to the os Pubis, and a transversal one, from one of the lumbary Parts to the other: With a Pen-Knife we make around the Arm four large Incisions of half a Foot long each, and as deep as to the Bone, and as many on the Wrist; these we wash with Spirit of Wine, and fill with the odoriferous Powder; we cover the Arm with the Liniment with fame Powders, which eafily flick on by reason of the Liniment: We then take a Band with which we begin at the Hand, rolling it very tight up to the Shoulder, where 'tis to end and be fasten'd: Whilst the Operator is thus employ'd about one Arm, an Apprentice is to do the fame to the other, conform to this Example.

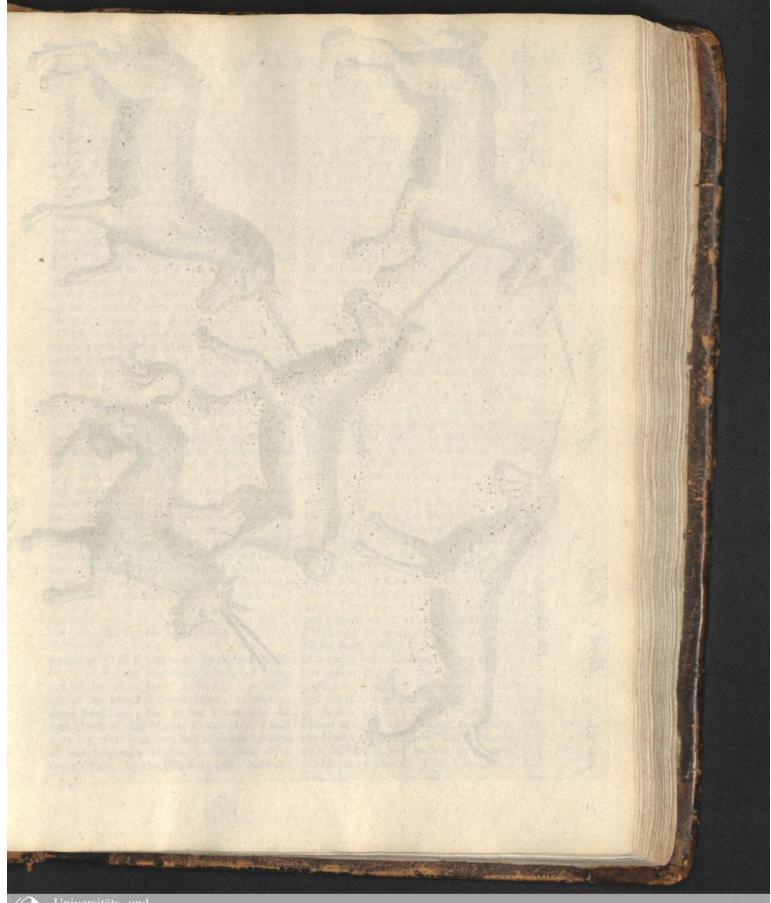
The same Operation is to be perform'd to the Thighs and Legs, with this Difference only; that the Incitions are to be longer, deeper, and more numerous than in the Arms: These Parts, thus cut, look like Switzers Breeches. After they have sufficiently imbib'd the Spirit of Wine, they are to be fill'd with aromatical Powders; the Liniment apply'd to them, and the Powders over them, the Operator rolls on the Band on one Thigh, whilit a Servant applies another on the contrary; these two Bands begin at the Feet, and terminate at the Groin: We then turn the Body to make the like Incisions on the Back, at the Region of the Reins, and on the Buttocks; and if the Corps is fat, we are also to do the same around the Belly and Breaft: The Lotions, Embrocations, and Application of Powders, are ended with the Belly Band, which is ftrong, very broad and long, and beginning at the lower Belly,

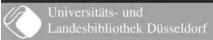
of it is left uncover'd.

The Body thus enamell'd, we lay it on a Cerecloth in which we wholly enclose it. cutting it fo as to come close over all the Parts without folding it; and with a Cord, which is to be ten or twelve Ells long, we begin to straiten it about the Neck, to form the Figure of the Head, that it may be accomodated to that of the Coffin: We run it several times around the Body, each Circumvolution at the Distance of half a Foot from the other, and draw it as tight as we wou'd a Pack to be fent by the Carrier. The Body is then put into a Linnen Shrowd, which with a String we tye at each of its two Extremities, leaving about a Handful beyond each of the Ligatures. We then call for the Coffin, ordering it to be brought near to the Table where the Body is; and if 'tis a Princels of the Royal Family, the Lady of Honour is to take hold of the Handful of the Shrowd which is left at the Head, and the the same Pencil, and gently strow over it the Lady of the Wardrobe of that at the Feet, and they lay the Corps into the Coffin, which last Service they claim as their Right.

If the Surgeon has any balfamick Powders left, he strows it in the Cossin, and fills the vacant Spaces with Bundles of aromatical Herbs, which he is to have ready provided for that Purpose; which done, the Plummer fixes on the Lid of the Coffin, which he folders on as expeditionfly and nearly as he can: Whilst he is Soldering the Coffin, the Surgeon embalms the Heart; he takes it out of the China Veffel in which he put it, washes it several Times in Spirit of Wine, and fills its Ventricles with the finest balfamick Powder, referv'd exprelly for that End, then encloses it in a Bit of Cerecloth, wholly sprinkled with the same Powder; he binds and fastens it with the same Cord, shaping this fmall Bundle in the Figure of a Heart, and fo putting it up in the Box. The Coffin being folder'd, we lay it on two Feet in the Middle of the Room, and cover it with a Pall, and lay on the Coffin the Box which contains the Heart, which we cover with Crape, and leave both of them to be carried to their destin'd Sepulchre.

Some of the Ancients pretended to have invented a Way preferable to all others, which









was to take out generally all the Flesh, and leaving only the Skin and Bones, to substitute in their Place aromatick Druggs, and Powders; but this is not to preferve the Body, but only the Skin and Skeleron, from Putrefaction. Some Moderns propole to us easier Ways, of which there are several Sorts with which Mr. Penicher has fill'd his Book; wherefore I shall forbear the Recital of them here, and content my felf in acquainting you that the History of Embalming, which I have just laid before you, is that which I have perform'd on the Dauphiness, and several Persons of the first Quality, being that which I take to be the best of them all. I have heard of ancient Sepulchres of Plaister, in the Middle of which the Body was placed, and also cover'd with Plaister; that in these Sort of Graves, the Bodies kept for a long Time, without emitting any ill Scent, because the salt Peter which is in the Plaister resists Putrefaction; and the Plaister imbibing the stinking Serofities which issue from the Body, stops the offensive Exhalations. This Fact may put some upon reducing it to practice; which in my Opinion shou'd be done the following Way: The Person refolv'd to try this Experiment, is to order the making either of a leaden or wooden Coffin, proportion'd to the Bulk of the Body, which is to be laid into it ftark naked; when having ready three or four Hods of Plaister strain'd through a Sack, so that it may reach to the Edges, the Corps must be wholly buried in Plaister: By this Method we may keep a Body feveral Days in the House, and then lay it in a Vault design'd for the Dead, without the Danger of any ill Scent; and in my Opinion, 'tis impossible to embalm a Body with more Ease and less Expence.

2. Of the Unicorn.

THE Unicorn is an Animal which our Naturalists describe under the Figure of a Horle, having in the Middle of his Head a spiral Horn, of two or three Foot long; but as we know not the real Truth of this Matter to this Day, I shall Horns are not only strong and sharp, like only fay, that what we fell under the Name the Horns of an Unicorn and Rhinoceros, bur of the Unicorn's Horn, is the Horn of a also solid, and not hollow or porous, like

or the Sea Unicorn, as you will find when we come to treat of Fish. This Horn was formerly in great Esteem, because of the mighty Virtues attributed to it by the Ancients, especially against Poisons, which is the Reason that so many great Personages have been very fond of it; fo that it has been valued at its Weight in Gold.

Ambrose Pareus, in a little Treatise which he compos'd of the Unicorn, fays, That in the Deferts of Arabia he found wild Affes, which they call Campburs, carrying a Horn in their Front, with which they used to fight against the Bulls, and which the Indians made use of to cure feveral Difeafes, especially venomous or contagious ones; and that the Arabs near the Red Sea, had another Animal among them, which those People call'd Pirassoupi, that has two Horns, long, ftreight and spiral, which the Arabs make use of when they are wounded, or bit by any venomous Creature; they let it infuse fix or eight Hours in Water, which they drink to cure them. He fays that this Animal is of the Size of a Mule' which also it resembles in its Head; and that the Body is hairy like a Bear, a little inclining to a fallow Colour, and the Hoof divided or cleft like the Deers. Johnston says, in his Treatise of Animals, that there are feveral other Unicorns to which the Reader may have Recourfe.

The Kinds of Unicorns now come to be confider'd: That it is a Beast having but one Horn all agree; but because several Kinds of Beasts have also but one single Horn, it is some Question which of these five must be the true: There is, First, The Orix, or one-horn'd wild Goat: 2dly, The one-horn'd Ox: 3dly, The Hart with one Horn: 4thly, The one horned Hog; and stbly, The one horned Ass. The First is certainly but a Kind of one horned wild Goat; by the Description of it differing not much from a Goat: It refembles a Roe, having a Beard under its Chin, of a palish white Colour, cloven hoof'd, with one Horn growing out of the Middle of its Head: They are bred in Egypt, Ethiopia, and many other Parts of the World; some of which are as large as Oxen: Their of the Onicorn's Flori, is the Horns of Harts. This Creature is faid certain Fish, by the Islanders call'd Narvual, the Horns of Harts. This Creature is faid Vol. II.

Foaming of the Bear, the Bellowing of the Bull, the Cry of the Panther, or the Roar-

ing of the Lyon.

The one horned Ox, Bull or Cow, is bred in Aonia of various Colours, intermix'd one with another, having a whole round Hoof, like a Horse, and but one Horn growing out of the Middle of the Forehead : It is alfo bred in India, where the whole Species eat Flesh, and are whole hoof'd, and fingle horned, which grows out of the Middle of their Foreheads; some of them are faid to be as high as Camels, and their Horn four Foot long: There are in Ethiopia a Kind of a purple Colour, which have but one Horn growing out of their Heads, which turns up towards their

The Unicorn Hart is a Beaft bred also in India, whose Feet resemble an Elephant's, the Body a young Horse, and its Head a Hart's; out of the Middle of which grows a Horn, about three Foot long: It has a roaring Voice almost like a Bull, but much shriller. The Unicorn Hog, is so call'd from his Head, being like a Boar's or Hog's Head, found, as some Authors say, in the Dominions of the Great Cham of Tartary. Thele Unicorns are fomewhat leffer than Elephant, having Hair like Oxen, Heads like Hogs, Feet like E-lephants, a sharp and thorny Tongue, and a Horn in the midst of its Forehead, wherewith he destroys both Man and Beast. Had this Horn grown out of its Snout, it would have been a Rhinoceros; but as it does not, it must be taken for one of the Kinds of Unicorns.

The one-horned Ass, is the Indian Ass, which equals in Bignels a Horse; all white on the Body, but purple headed and black ey'd, having one Horn in his Forehead, near three Foot long, whose upper Part is red or black; the Middle black, and the neather Part white; in these the great People of India drink, adorning them with all Kind of precious Things, believing that those who drink in these Horns are freed from any Sort of deadly Poilon or Infection. This Ass or Unicorn, exceeds all others of the Kind, both in Stature and Body, and Swiftness of Foot; they are so firong that no Horse can stand before

not to value the Barking of the Dog, the them, and fight with their fingle Horn like Bulls.

> The true Unicorn, if you dare believe Ludovicus Vertomanus, who fays he faw two of them at Mecha in Arabia, which were kept within the Verge of Mahomet's Sepulchre, is of a Weafel Colour, with the Head like that of a Hart, the Neck not long, and the Mane growing all of one Side; the Legs flender and lean like the Legs of a Hind; their Hoofs cloven like Goat's Feet, and the hinder Legs all hairy and shaggy on the Outfide: Of all the other five, the wild Indian Ass comes nearest to this Description, for the true Unicorn and he agree in these four Things: First, That both of them have one Horn in the Middle, 2dly, That both of them are bred in India, 3dly, In that they are both about the Bignels of a Horse. 4thly, In their Celerity and solitary Life in the Mountains; but herein they differ; First. In that the one borned wild Indian Ass, is whole hoof'd, and not cloven as the Unicorn is. 2dly, That his Colour is white on the Body, and purple on the Head; whereas the Unicorn is of a Weasle-like Colour. 3dly, That his Horns are purple, black, and white, whereas the Unicorn's Horn is wreath'd in Spires of an Ivory Colour. In the Year 1553, a great Unicorn's Horn was brought to the King of France, valued at twenty thousand Pounds Sterling; that which was presented to King Charles the First of England, is suppos'd to be one of the greatest that ever was seen in the World ; it was seven Foot long weigh'd thirteen Pounds, and was in the Shape of a Wax Candle, but wreath'd within itself in Spires; hollow about a Foot from its Root, growing taper by little and little towards the Point, of a polish'd Smoothness, and the Spires not deep, but like the Windings of Woodbine, and the Colour not perfectly white, but somewhat obscure.

Some in Poland have been found five or fix Foot long, being very tharp and fmooth; others in the Rivers, but less pure, outwardly blackish, and inwardly of a pure white; a third and fourth Sort, of a folid hard Substance, so that one wou'd take 'em to be Stone; and many other Sorts have been found in that Country. But that these, or any of the others, were true Unicorns





appear; and if all the Circumstances be confider'd, it is much to be doubted, whether any of them were the Right or no; for as much as the Druggists or Apothecaries were never known to have, or fell the True; that which is commonly fold, being from five to eight Foot in Length, and more, very sharp pointed, running taper all along, and twifted or wreath'd, of the Colour of Ivory, but of a much finer Grain, and very white within. But this Horn is not produced by a four footed Beaft, but comes from a Fish, call'd the Sea Unicorn, and is brought from Davis's Straits, near the North Passage.

Authors have ascrib'd almost incredible Things to it; the chiefest of which are to refift all Manner of Poylons, and to cure the Plague with all Sorts of malignant Fevers, the Biting of Serpents, mad Dogs, &c. and is chiefly us'd as a Cordial, for which Purpose a Jelly is made of it, together with a little Cochineal and Saffron; and the Shavings boil'd in Broths, &c. after the Manner of Shavings of Hart's Horn.

3. Of the Bezoar.

Pomes. THE Bezoar, which the Indians call Pozan, is an Animal that produces in his Stomach, or in a Bladder, a Stone that is call'd by that Name, to which they attribute great Virtues, which made it great Rate, as is at this Day the right and true Oriental Bezoar, as well because there is a great deal of Trouble in meeting with the Reafon these Animals do not produce any confiderable Quantities; and besides several of 'em have none at all: We ought then to Mr. Tavernier fays concerning Bezoar.

dom of Golconda lying on the North-East: It have nothing near the good Qualities of the is found in the Dung that is in the Maw of true Bezoar; fix Grains of which will do the Goats that browze on a Shrub, the more than thirty of this. As to the Bezoar Name of which I have forgot. This Plant that is found in Apes, as some believe, it is

Horns, none of our Authors have yet made Ends of the Branches which the Goats ear, the Bezoar forms itself in the Belly of these Animals: They take their Shape from that of the Buds and the Ends of the Branches, which is the Reason they are of so many different Figures. The Pealants, by feeling of the Belly of the Goat, know whether there is any Bezoar there, and so fell it according to the Quantity that is therein. To know which, they rub their two Hands under the Belly of the Goat, and press the Maw or Stomach, along on both Sides; fo that what is therein may fall into the Middle of the Maw, and they can perceive exactly, by Feeling, how much Bezoar there is.

The Rarity of Bezoar is in the Size, for the fmall Sort have nothing fo much Virtue in them as the large: But in that there is oftentimes a Cheat, because there are People who powder and mix Bezoar in a certain Pafte compos'd of a Gum, and something else of the Colour of Bezoar, and form it up in the same Manner as we see the natural Bezoar; but we may discover this Fraud chiefly these two Ways: The First is to weigh the Bezoar, and steep it some Time in warm Water; and if the Water does not change its Colour, or the Bezoar lofe its Weight, it is true and natural. The other Way is to run a sharp Piece of red-hot Iron against the Bezoar, if the Iron enter, and it fry, it is a Sign of its Mixture, and that it is not natural: Besides, the larger the Bezoar is the dearer it is, and heretofore highly valued, and to be fold at a rifes in Proportion as a Diamond: For if five or fix Bezoar Stones weigh one Ounce, that Ounce will be worth from fifteen to eighteen or twenty Livers; but if it be one natural Stone, as that certain Persons have Stone of an Ounce Weight, it will fell for a found out the Secret of Counterfeiting it, by hundred Livers: I have fold one of four Ounces and a Quarter for two thousand Livers.

There are a great many Bezoar Stones be well inform'd of the Nature, Shape and taken from Cows, both in the East and Distinction of these Stones, above any other Western Countries, and they are so large as Drugg; therefore I shall relate to you what to weigh seventeen or eighteen Ounces; of which Sort I have feen one that was prefent-Bezoar comes from a Province of the King- ed to the great Duke of Tufcany; but they bears little Buds, about which, and the fo strong, that two Grains will perform



more than fix of that of the Goat; but it is that is mark'd C, where this Stone is convery scarce, that Sort of the Ape Kind being particularly to be met with in the Isle of Mawhereas the other is of various Forms, according as it is thap'd from the Buds and Ends of the Branches which the Goats eat. As these Stones which are produc'd from the Ape are a great deal scarcer than the others, fo are they abundantly dearer, and more fought after; and when one is found of the Size of a Nut, it is fold fometimes for a hundred Crowns. The Portuguese, above all other Nations, drive a great Trade with Bezoar; because they are always upon their Guard, or watching one another for fear of Poilon.

But as I cannot alrogether agree with this Relation of Mr. Tavernier, I chuse to subjoin what Mr. Du Renou has observ'd of Bezoar; it is a very active Animal, says he, that skips from Rock to Rock, at his Ease, and is very fierce; fo that when he is closely purfued, he fometimes kills the Indian Hunters: The Hoof or Claws of his Feet are divided neither more nor less than the Goats; the Legs are pretty thick; the Tail fhort and turn'd up; the Body hairy as that of the He Goat, but shorter, and of an ash Colour inclining to Red, or rather of the Cofour of the Hind's Belly; the Head is shap'd like the Goat, and arm'd with two black Horns jagged at the lower Part, and turn'd backwards. What I shall relate here is true; I having seen two of these Creatures at the Marshal Viery's Castle; besides what is further confirm'd from the Sieur Renou; what I gain'd was the four Feet, the Horn and the thin Membrane that invests the Bezoar Stone; as to the Horn and the four Feet, they agreed exactly with the Relation made by the Sieur du Renou: As to the Membrane, mention'd before, that is one of the greatest Curiofities that has been feen a long Time in France, by the Account of the most intelligent People.

This Membrane, mark'd in the Plate, A, is of the Size of a Goofe Egg, supply'd on the Outside with a rough short Hair, of a dun Colour, which being cut afunder, appears to enclose a Shell mark'd in the Cut, B, that is thin and brown, which makes a

tain'd, to which they give the Name of Bezoar, which we may fee is contrary to what dagafear. This Sort of Bezoar is round, all Authors have wrote of it; and I shou'd not have had the Confidence to have advane'd this, if I had not had the Original in my Hands, which makes it plain that there can never be more than one Bezoar Stone at a Time in the Belly of this Animal, because of the Bigness of this Membrane; and 'tis likely the great Number of these Animals that have no Bezoar at all in them, occasions their Scarcity and Dearnels.

However, if you would have the finest and best oriental Bezoar, you must chuse that which is thining, of a pleafant Scent, tending to that of Ambergriese, smooth to the Touch, and which, rub'd on Paper done with Ceruffe, makes it become yellow; the less it is broken in Pieces, and full of Bits irregularly shap'd, the better; and take care that the False ben't mix'd with the True, especially when 'tis bought in large Pieces; for the more thining, large, intire, and round it be, the more it is valued: But as to the particular Figure or Shape, it is of no Consequence, for its physical Use, whether it be long, round, crooked or twifted, fmooth, rough, white, yellow or Grey, but the principal Colour that is usually to be met with, is the Olive Colour.

The Use of Bezoar was formerly very common, but at prefent we scarce know what it is, by reason of the Iniquity of the Times, and its extravagant Price, or that it grows out of Fashion; for Medicins have their Modes as well as Cloaths; notwithstanding which, this is a Preservative from pestilential Air, and a Remedy for the small Pox, Measles, or other contagious Difeafes: It is reckon'd also proper against Vertigo's, Epilepsies, Palpitation of the Heart, Jaundice, Colick, Dysentery, Gravel, to procure Labour Pains, and against Poisons; Dole from four Grains to twelve: The Jews call this Stone Bel-Zaard, which fignifies the Master, or Overcomer of Poison.

Of Occidental Bezoar.

The Occidental Bezoar differs from the Oriental, in that it is usually much larger, Covering for another Shell, that is white, being found fometimes of the Size of a small Hen's Hen's Egg : It is likewise of diverse Colours, and the Goat ; the Inhabitants, otherwise but most commonly of a light Grey; it is call them Bezoar, from whence the Name made up of several Laminæ or Crusts, of Bezoar arises. laid one over another like the former, but much thicker, and being broke, appears as will skip from Rock to Rock, and is danif it had been sublimed, in that one sees a great many little Needles shooting like those in Salt of Lead, and the Bottom is foft, and very smooth, of a reddish grey Colour.

it is found in some Goats, Harts, or those Animals that produce the Bezoar; and as they are but rarely met withal in the Belly of these Animals, that makes it, that very few are brought into France; it has also a very fweet Smell, and is much stronger than the Oriental Bezoar. And because this Bezoar is very scarce, the Dutch and other Nations make it, with a grey Pafte, which they form into round Balls of what Size they please; and I can affure you that I have feen one of the Bignels of a Tenis Ball, that was in the Middle, of a gilt Silver Cup fo fix'd, that it could not be remov'd, to the End that it might be infus'd in the Liquor put into the Cup, in order to give a Flavour to it before they drink it.

Begoar is a Stone taken out of Lemery, the Belly of certain Animals in the East-Indies, of which there are feveral Sorts. I have here mention'd four that are of Use in Physick. The first Kind, or that most commonly us'd is call'd, Lapis Bezoar Orientalis, or the Oriental Bezoar; it is found in Balls of different Sizes and Shapes; for some are as big as a Wall-Nut, others as a Nutmeg, others as a Hazel-Nur, and fome as a large Pea; some are round, others oval, flat or bunch'd: The Superfices of all of them are smooth, polish'd, thining, of an olive or grey Colour : Their Substance. when broke, divides like Laminæ or Scales, that are form'd successively by different Accessions of saline Humours, which petrifie in the Belly of the Animals, after the same Manner as Stones are form'd in the Channels of a Current of the Waters, which continually leave behind them certain Salts, which Crust or Stone. The Bezoar is produc'd in stica de solio, the Portuguese Pedro de Vassar,

This Animal is very nimble, fo that he gerous to the Hunter; for he will defend himself, and sometimes kills the Indians that purfue him. The Head refembles that of the He Goat; the Horns are very black, This Bezoar is brought from Peru, where and are bended almost to his Back; the Body is cover'd with an ash-colour'd Hair, inclining to Red, much shorter than that of the Goat, and nearest to the Dears; the Tail is short, and turns up again; the Legs are pretty thick, and the Feet are cleft like those of the Goar, Chuse your Oriental Bezoar in one whole Stone, that is smooth, thining, and of a pleasant Smell, inclining to Ambergrise; they divide into Laminæ or Flakes, when broken, of a grey or olive Colour; the largest are the most valued by the Curious, but it is of little Moment in Physick of what Size they are; it contains in it some small Matter of volatile Salt that is sulphureous and oily; it is esteem'd as a great Cordial, proper to promote Sweat, and drive away malignant Humours: The Dole is from four Grains to ten or a Dozen in any Cordial, or other proper Liquor.

The second Bezoar is call'd, Lapis Bezoar Occidentalis, or Occidental Bezoar; it is a Stone usually larger than the Oriental, but is not fo flick and fhining, of an ash or whitish Colour; they separate likewise into Laminæ, but a great deal thicker than the Oriental Bezoar, interspersed with a great many small Points on the Infide; this has the same Virtues with the other, but much weaker, being given to half a Dram.

The third Sort is call'd, Bezoar Porci five lapis Porcinus, or the Hog Stone; it is almost of the Bigness of a Filbert, differently shap'd, and usually of a whitish Colour, inclining something to a greenish, but now and then of other Colours; the Outfide is smooth: They find this Stone in the Gall of certain Swine in India, in the Maluccoes, and feveral other Parts; coagulate and form themselves into a hard the Indians call them in their Language Maseveral Paris of the Belly of a wild Goat in or Piedra de Puerco; and the Dutch, Fed D the East-Indies, which they call, in Latin, de Porco : It is very scarce, and much valua-Capricerva, because they partake of the Dear ed, to that they sell it in Holland for four hundred Livers, and more: This Stone is Instinct, goes to rub itself against a Tree to fought after by the Indians with a great deal break it; and this corrupted Blood being

of Industry.

Poison, and reckon it very proper to cure a Malady they call Mordoxi, which comes to the Hands of the Jews in Holland and ofrom an irritated Bile, which causes those ther Places, or of other Persons, who sophithat are feiz'd with it to be worse than them that have the Plague: It is likewise us'd for the fmall Pox, epidemical Fevers, in hyfterical Cafes, and for the Stoppage of the Courses; lieve that those are the Cods of the Animal; it is pretended to excel Oriental Bezoar: When they use it, they let it stand infusing some Time in Wine or Water, that it may impart its Virtue, then they drink the Infusion before Meals; it has a little Bitterness which is not unpleasant. There are those who have these Stones hung in little Gilt Chains to put into any Liquor for the Infufion, they keep 'em in little golden Boxes.

The fourth Sort of Bezoar is call'd Bezoar Simile, or the Bezoar from the Ape; it is a Stone as big as a Hazel Nut, round or oval, and blackish: They say it is taken from a Kind of Ape that is found particularly in a certain Island of America. This Stone is very scarce and dear; so that Mr. Tavernier fays, that when it is as big as a Wall-nut, they fell it for above a hundred Crowns: They are esteem'd more sudorifick and proper in malignant and pestilential Cases, than all the other Bezoars. The Dole is from two Grains to fix: The Signification of the Word Bezoar, according to some, is a Counter Poison; according to others, the Over-

4. Of the Musk-Cat, or Goat.

comer, or Mafter of Poisons.

HE Musk-Cat is an Animal which comes very near to the Colour and Figure of a Hind, only it has a longer Body, according to the Skin which I have seen in the Possession of the Sieur Nicholas Rondeau at Roan. There are a great many of these Animals in the Kingdoms of Tunquin and Boutan, and in divers Parts of

That which we call Musk is a corrupted Blood, which is collected under the Belly of this Animal, after the Manner of an Impostume; and when it is ripe, the Beast, by

dried in the Sun, acquires a strong Smell They use it as a great Preservative against that is very disagreeable, which it ought to retain when it is pure, and has not come insticate it with Earth, dried Bloud, and other Contrivances.

> They are much abus'd who are made beand that he gelds himself when he is pursued, as knowing that he would be taken for his Testicles: But this has been imagin'd, because the People who put it into Bladders, cut them out into that Shape. Others would have it, that the Musk is a bruifed Bloud, which is produc'd over all the Body of this Animal, by breaking it with Clubs; and that they afterwards wrap it up in Pieces of the Skin, which they cut and fow into the Fathion of Cods; but fince both these Originals of Musk feem very odd and fanciful, I think it best to relate what Mr. Tavernier has written in his fecond Volume, Page 316. that the Reader may encline to which Opinion he likes beft.

> " The best Sort, and greatest Quantity of " Musk comes from the Kingdom of Bou-" tan, from whence they carry it to Patna, a principal City of Bengal, to traffick with the People of that Country. All " the Musk that is fold in Perfia comes from " thence; and the Merchants who trade in " Musk, had rather that you should give " them yellow Amber or Coral for it, than " Gold or Silver; because those are the " two Things of greatest Esteem amongst et them.

> " After they have flain this Creature, " they cut the Bag which is under the Belly, about the Bignels of an Egg, and lies " nearer to the genital Parts than the Navel; " then they take the Musk out of the " Bladder, which at that Time is like clot-" ted Blood. When the Country People " would adulterate it, they put the Liver " and Blood chop'd together instead of some of the Musk they take out. This Mixture produces in the Bladders, in two or " three Year's Time, certain little Animals " which ear up the good Musk; so that " you shall find a great deal of Damage

" Pealants, when they have open'd the Blad-" der, and taken out as much Musk as they " can, fo as not to be perceiv'd, put in " small Bits of Lead to render it more weigh-"ty. Merchants who buy and transport it " into other Countries are more easie under " this Deceit than the other, because those " little Animals don't engender in it; but " the Cheat is still more difficult to be difcover'd when they make little small Pur-" fes of the Skin of the Belly of the Ani-" mal, and fow them up fo neatly with "Threads of the same Skin, that they seem " to be real Bladders, and fill these Purses " with that which they have taken out of " the real Bladders, together with the fraudu-" lent Mixture they would add to it; " which the Merchants can have no Know-" ledge of. It is true, that if they tye up " the Bladder as foon as they have cut it off, without giving Air and Time for the Perfume to lose a little of its Force by Evaporation, whilft they draw out that which they would take from it, it would follow that when any one put the Bladder to his " Nofe, Blood would burft forth imme-" diately by the Force of the Perfume, " which ought of Necessity to be tempered, " to render it agreeable, without burting " the Brain. The Perfume of this Animal " which I brought to Paris was fo ftrong, " that it was impossible to endure it in the " Lodging; it gave all the People the Headach, fo that it was remov'd into the Out-" House, where some of my Servants cut " the Bladder; which however did not " hinder the Skin from retaining some of the Perfume. They don't begin to find this Animal 'cill about the 56 Degree, but in the 60 there is a great Number, the Country being full of Forests. It is true, that in the Months of February and " March, when these Creatures have en-" dur'd much Hunger in the Climate where "they are, by reason of the Snows that fall in great Quantities, so as to be ten or " twelve Foot deep; they come from the "North, Southward to the 44th, or 45th " Degree, to eat the Blades of the green " Rice; and it is at that Time the Coun-

" when you come to open them. Other " Arrows. Some Persons have affirm'd to " me that they are so lean and feeble, thro" " Hunger, that they suffer themselves to be " run down. There must be a prodigious " Quantity of these Creatures, fince each " has but one Bladder; and the largest commonly being no bigger than a Hen's Egg, cannot furnish above half an Ounce of Musk; fo that fometimes there must be three or four Bladders to make one Ounce. " The King of Bouran fearing least these " Tricks which are play'd with the Musk should spoil the Trade for it, fince it can be had from Tunquin and Cochinchina. " where it is dearer, because it is not taken in " fuch large Quantities, has fome Time tince commanded that none of the Bladders should be fow'd, but all brought open to Bouran, " which is the Place of his Refidence, there " to be inspected and seal'd with his Seal. All these which I bought were of this " Kind; but notwithstanding all the King's Precautions, the People have a conning " Way to open them and put in their small " Bits of Lead, (as I have faid) which the " Merchants endure the more patiently, be-" cause it does not spoil the Musk, but on-" ly deceives them in the Weight.

Musk is to be chosen in very dry Bladders, where the Skin that covers it is very thin, and there is but little Hair upon it, because there are some, where there is more of the Skin and Hair than the real Commodity. Let it be of a brown Colour, which is the Mark of the right Tunquin Bladders, which is much more efteem'd, and better than that of Bengale, which is cover'd with Skins that have white Hair upon them. When the Musk is separated from its Cover, that should be made Choice of, which is of a dark Colour; of a strong and unsupportable Smell; of a bitter Tafte, and has as few hard and black Clots in it as is possible; and being put upon the Fire, will burn and be consum'd; but this last Mark is not of general Use, but serves only to discover that which is mix'd with Earth, for the Fire will not manifest the Falsity of that which is counterfeited with Bloud. Others will have it, that the right Musk-ought to leave an Oiliness when press'd " try People lay Nets for them in their Paf- with the Fingers. But as this is a Commo-" fage, and kill them with their Staves and dity very difficult to be known, and the

moft

most Cunning are deceiv'd in it; it has given this acquires a strong disagreeable Smell: therefore one ought not to frive for a good portation; and this is the Musk we use. Penniworth, but to buy it of honest Merchants, and reject all the Sorts of Musk mals that yield Musk, chiefly in the Kingwhich Persons carry about to sell, both in and dom of Boutan; they catch 'em usually at out of the Bladders, it being nothing but Spring Time, or in the Beginning of Sum-Dirt; whereas to cover their Roguery, they mer: For after they have been almost stary'd, pretend to fell it cheap, because they brought during the Winter, because of the Snows it out of the Country themselves, or that they have stole the Customs, which are indeed very high upon it; or that they are Mariners and their Captain has given it to them for their Wages, and by that Means put off their false Druggs, selling more for twenty Pence, than an honest Merchant can afford for twenty Shillings. I say then, that as for that which is mix'd with Earth it is easie to know it; because if a little be put upon lighted Charcoal, if there is any Earth it will remain; but on the contrary, if it be mixt with the Blood and Liver of the Beaft, there will remain only a little whitish or grey Dust; which yet is to be rejected. as well as that which is of a pleasant Smell, because it does not get that agreeable Scent, but by the Addition of some Druggs that open the Parts of it.

The Use of Musk is not very frequent in Phyfick, because 'tis very improper for Women; but 'tis much us'd by the Perfumers; and if the Demand for it be not fo great as formerly, it is because Perfumes are not so much in use as they have been hererofore.

Moschus, or Musk, is a Kind of Lemery. bilious Blood fermented, coagulated, and almost corrupted, which is taken from a thick Bladder or Pouch, as big as a Hen's Egg, which is found under the Belly towards the genital Parts of a wild four-footed Animal, call'd, Moschus, Moschius, Dorcas Moschi, Capreolus Moschi, Gazella Indica; they fay it is of the Shape and Colour of a Hind; is produced in the Kingdoms of Boutan, Tunquin, and several other Parts of Afia; it frequents the Woods and Forests where they hunt it; and when they have kill'd it, they cut out the Bladder or Cod, which is under the Belly; then they separate the coagulated Blood which they dry in the Sun, and reduce to a kind of light Moss,

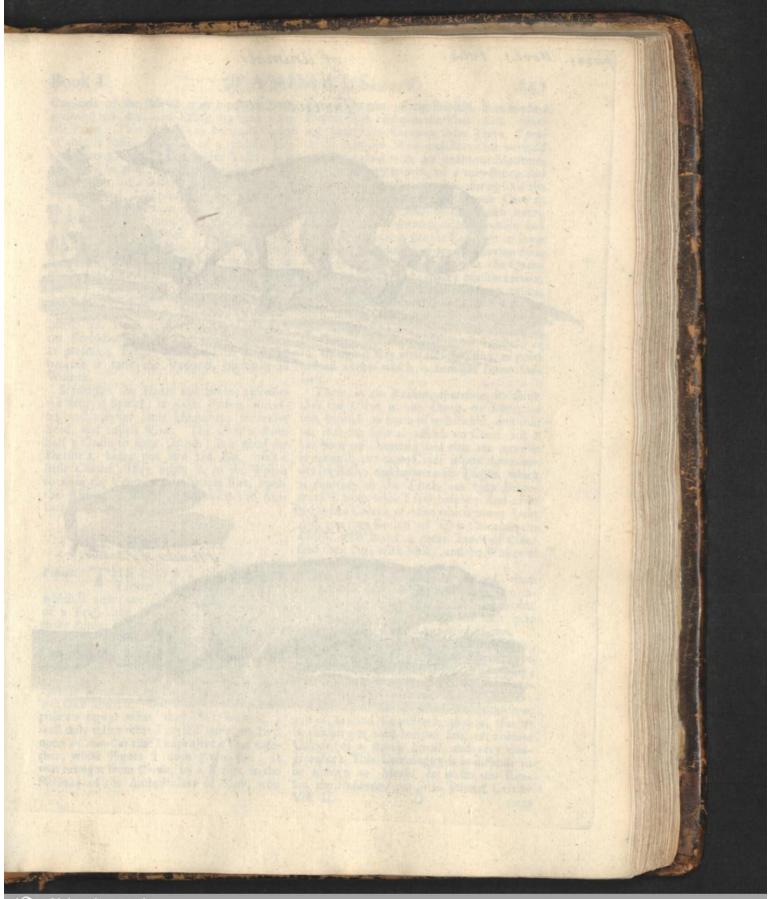
Occasion to many Persons to mix it, and They then wrap it up in Bladders for Trans-

There are a prodigious Number of Anithat fall in those Countries, ten or twelve Foot deep, they come to feek for Food; their Blood being then in a great Hear, and violent Fermentation; the Musk they then get is likewise strong and spirituous, which is the Reason they do not expose it for some Time to dry in the Air, least it shou'd quite destroy the Smell. They cannot take a great deal of Musk from any one of thefe Animals, because they have but one Cod apiece, which does not yield above three Drams of Musk dry'd. They fay that that Bag, during the Rutting of this Creature, has an Abscess form'd in it; which when fully ripe it makes the Beaft itch and rub himself against Stones, Rocks, and Stumps of Trees, 'till he breaks it; and it is this Corruption, that when it is spilt and dry'd in the Sun becomes Musk.

There is no Impossibility in this Story; but yet it is not to be thought, as most of the Naturalists, both ancient and modern, have done; that all the Musk we have is taken from these Abscesses. For is it likely that they can follow the Track of these wild Beafts, through the Woods and Forests, to gather up this Matter which they have thrown fometimes into Places inacceffible, into Mire or Sands? If we had no other Musk but that, it would be much scarcer and dearer than it is ; besides, a dry'd Abscess would be of another Colour than Musk, for it would be of a light Grey.

When you buy Musk in the Bag, you should chuse that which is dry; let the Bag be thin, but little Hair upon it; for the more Hair and Skin there is, there will be the less of the Musk. Let the Hair be of a brown Colour, for that is the Mark of Tunquin Musk, which is most esteem'd. The Musk of Bengale is wrapt in Bags, with white Hair upon them.

When the Musk is separated from the Bag, almost powder'd, of a dark reddish Colour; it must be kept in a leaden Box, that the





Coolness of the Metal may hinder it from growing too dry, and losing its most vola-tile Parts. That Musk is to be made choice of that is fufficiently dry, of a reddift Colour, strong Scent, and a bitter Taste: It is almost all Sulphur, or Oil and volatile Salt; it has very little Earth in it: The Scent is naufeous and difagreeable when you fmell to a great deal of it at a Time, but sweet and pleasant when some few Grains are mixt with a Quantity of other Ingredients. The Reason of the Difference is this; when it is in a larger Quantity, the Parts evaporate fo much, that they oppress and tire the olfactory Nerve; whereas on the contrary, when there are but a few volatile Particles, they only affect it with an agreeable Titillation. Musk has been us'd much more amongst the Perfumers and Confectioners, than it is ar present; People are afraid of it now, because it raises the Vapours, especially in Women.

It fortifies the Heart and Brain, refreshes the decay'd Spirits; it resists Poison, discusses and rarefies gross Humours; increases Seed, and expels Wind. The Dose is from half a Grain to four Grains: It is good for Deasness, being put into the Ear, with a little Cotton; they apply it to the Womb to allay the Vapours in hysterical Fits, upon the Rising of the Womb, call'd the Mother.

5. Of the Civet-Cat.

Pomet. THE Civet is a thick unctuous Liquor, found in a Pouch which is under the Tail, and near the Anus of a Beaft like a Spanish Cat, but much more fierce, and very voracious; this Animal has from hence the Name of the Civet-Cat, and is very common in China, the East and West-Indies, and likewise in Holland.

Authors differ extreamly concerning the Nature of this Animal, and that which we take from it. But as it is not my Purpose to repeat what they have written; I shall only relate what I myself have practis'd upon a Civet-Cat that I kept alive a Year together, whose Figure I have given you: It was brought from China, by a Person in the Retinue of the Ambassadors of Siam, who

gave it to one of my Friends, who made a Present of it to me in the Year 1688. Having kept this Creature some Days, I perceiv'd that the Wall and Bars that enclos'd it were cover'd with an unctuous Moisture, thick, and very brown, of a very strong and disagreeable Smell; fo that during all the Time I kept this Animal, I took Care to gather the Civet out of the Pouch every other Day, not without some Trouble and Hazard, because it put the Creature to some Pain or Apprehension of it; and having done fo for fome Months, I had about the Quantity of an Ounce and a Half; but 'tis certain, that if the necessary Care had been taken, and the Beaft could be hindred from rubbing itself, I might have got a great deal more: but I neglected it, because the Colour of the Drugg, did not please those I show'd it to, though it was well scented, and as good at least as that which is brought from Hola

There is no Reason, therefore, to think that the Civet is the Dung or Sweat of this Animal, as some have believ'd, and told us, that the Animal affords no Civet 'till it has been well beaten; and that the more it is enrag'd, the more Civet it lets down under its Belly, and between its Thighs, which is contrary to the Truth, as may be remark'd from what I said before: And as to the white Colour of that which comes from Holland, the Reason of it is because the Dutch, who make a great Trade of Civet, seed their Cats with Milk, and the Whites of Eggs.

Besides the Civet from Holland, there comes some from Brazil which is brown, agreeable both in Smell and Colour to that I gather'd from my Animal; and they give it the Name of Guinea, or Brazil Civet.

There is a third Sort call'd Occidental Civer, of which, because it is so common, and has no Relation to this Chapter, I shall say nothing; and therefore remit the Reader to the several Authors that have treated of it.

That Civet is to be chose which is new, and of a good Consistence, that is, that it be neither too hard nor too soft, of a white Colour, of a strong Smell, and very disagreeable: This Commodity is as difficult to be known as Musk. It is for this Reason the Hollanders put little printed Certifivol. II.

eates upon their Pots of Civer, to give it the bethicus, Felis odoratus, in English the Civer-Credit of being pure and not fallisted; and Cat: It is a Creature much bigger than a that it is such as it came out of the Pouches Cat, and less than a Badger, having someof the Civet-Cats; but the best Way is thing in it that resembles a Fox; the Face to buy it of honest Merchants, without is sharp like a Martin, with a black Nose; relying upon the printed Papers, or the its Ears short and round; its Eyes blue; the Colour, fince it may be of a Gold Colour, Leg and Foot black, more broad and open and yet be good; for if it be kept a little than a Cat's, but the Claws not to crooked, Time, though the Pots be never open'd, nor hid in the Feet, but its Teeth are more the Top, how white foever it were before, will become yellow, and of a Gold Hair of the Legs, and Feet, is very Colour; and as it grows old will be still the fine and fost, but in other Parts harsh, and browner.

rub'd with Civer, and one can write upon it, must be wash'd every Day. Merchants buy it is an infallible Mark that it is natural, the young Ones, and breed them tame, which I have found to be falle, having rried it several times. But besides the Care must Eggs, Bread, Flesh, &c. so that a Cat that is be taken to have it from honest People, one must look whether in Keeping it does not grow musty and decay'd; because that which is mix'd will grow mouldy, both at Top and Bottom, especially if any Air get to it, and will have a rank Scent, and very difagreeable: When this happens to People who have falfified it, and it becomes unfit for Sale, as well for its ill Colour as its Smell, which is different from the right Civet; they colour it with fome Druggs, and fo pass Indies. it off under the Name of Guinea Civet, which will eafily be found out by its reddish Colour, which they commonly give it, and not trufting to the Dutch or French Prints they put upon it, which ferve only to cover Musk, because the Scent is finer : It is of a their Knavery, and to get twenty, or two fubtle and clear Nature, and contains a great and twenty Livers for that Commodity, deal of Oil and volatile Salt; it comforts which does not stand them in perhaps forty

is most in Request with the Confectioners and Perfumers, where it ferves to perfume, and give a Scent to other Ingredients. This Drugg is to be us'd with a great deal of Civet put up in a Peffary, or Piece of Spunge, Discretion; for if one exceeds, though never so little, the just Quantity that should be us'd instead of a pleasant Smell, it renders one that is very disagreeable.

Zibetbum, Zibetha, Civeta, Zequid Matter, or congeal'd Liquor, unctuous, of a Scent that is very firong and unpleasant: The Beast from whence it is

tetrible; it has Spots all over the Body; the ftanding upright: It is a neat and cleanly Many Persons affirm, that if a Paper is Beast, and therefore the Place it is kept in feeding them with Bran, Rice-Milk, hard large and gentle, may come to be valued at between four and eight Pound Sterling.

The best Civer is said to be made in England; but great Quantity is fent from Hol-land, with printed Certificates, into all Parts of Europe. The best is of a clear, fine, lively, whitish Colour. The West-Indian, Barbadian, and African Civets, are next in Goodness; but the blackest is the worst, which generally comes from the East-

It is a valuable Commodity, so that an Ounce when pure has been valued at forty Shillings : It is often adulterated with Ox Gall, Storax and Honey. It is much to be prefer'd to the Spirits, and is good against all Diseases of Head, Brain, and Womb. The following Cives is of very little Use in Physick, but Mixture is good to perfume Cordial Waters and Powders, for the fore-mentioned Intertions. Take one Ounce of Civet, Musk in fine Powder, fix Drams; Ambergrise two. prevails against hysterical Fits and Vapours, put into the Ears with a little Cotton, it helps the Difficulty of Hearing. If that Mixture be ground with an equal Quantity of the Yolk of an Egg, it so opens its Body, as to make it Lemery, petium; in English, Civet, is a li- mix exquisitely with any aqueous Substance; also with twelve or fixteen Ounces of Spirit of Wine, you may draw a most admirable Tincture for the aforefaid Purpofes; and taken is call'd in Latin, Hyena, Catus Zi- being anointed upon the Glans, just before

6. Of the Castor or Beaver.

Pomet. THE Caftor, or Beaver, call'd they may go higher or lower, according to by the Latins, Caftor or Fiber, the Rife or Fall of the Water. is a four footed Animal, placed amongst the amphibious Creatures that live equally on the little Tefticles, furnish'd with all the other Land, and in the Water: At Land it feeds Vessels and Instruments necessary for Geneupon divers Fruits, Leaves, and Barks of ration, which the Royal Academy have dif-Trees, and especially of the Willow Tree; cover'd some Years ago in the Thighs, and Days; and all the rest has the Taste of out troubling myself whether these are true Fleth, fo that it is not us'd but at other Testicles or no, since this Treatise is not a-Times.

The Beaver has a Head almost like that of the Mountain Rat, but a little bigger, and proportionable to the Bulk of his Body, which is thick and gross, much about the Size of a Pig of fix Months old, and pretry large Teeth; the Under standing out beyond their Lips, three Fingers Breadth; the Upper about half a Finger, being very broad, crooked, firong and sharp, growing double, very deep in their Mouths, bending circular, like the Edge of an Ax, and are of a yellowish Red. They take Fishes upon them as if they were Hooks, and will gnaw in funder Trees as thick as any Man's Thigh, Bones; where he bites he never loses his Hold 'till his Teeth meet together: The Briftles about their Mouths are hard as Horns, their Bones are folid, and without Marrow; their fore Feet are like a Dog's, and their hinder like a Swan's : Their Tail is cover'd over with Scales, being like a Soal, about fix Inches broad, and ten Inches long, which he uses as a Rudder to steer with, when he fwims to catch Fish. And the his Teeth the outward Pouch has contracted a brown are so terrible, yet when Men have seiz'd his Tail they can govern the Animal as they upon four or five Inches of the Tail, and the rest scaly.

Coition it is faid to cause Impregnation, and The Beavers make themselves Houses o cure Barrennels. Civet is anodine and good square Timber, which they gnaw down with for the Colick in Infants, if applied to the their Teeth, almost as even as if it were fawed, and almost as equal as if it were measured; they lay these Pieces a-cross, and each is let down by large Norches into the other; so that having dug a Hole for their Foundation they build feveral Stories, that

I shall not dispute the Existence of those and in great Rivers upon Shell Fish, and near the Groin of the Beaver : But having fuch other Prey as it can catch. This Va- never feen thefe little Tefticles plac'd in the riety of Food is the Reason why it's hinder Rank of Druggs, nor any thing fold for Parts, to the Ribs, have the Tafte of Fifth, Cofforeum but that Part of the Animal and that they are eaten as such upon Fasting which the Ancients call'd Fibri Testes, withbout Generation, it will be sufficient to give a just and exact Description of those Parts of the Animal, fince I know no other fo apt to be sophisticated as they.

That which we call Castoreum, is a fleshy Substance, contain'd at the Bottom of two pretty large Pouches, equal, diftinct, placed Side-ways, one by the other, and wrapt in one common Bag, fix'd below the Fundament of the Animal between the two Thighs, cover'd by a common Skin that encloses the whole Body, and there outwardly representing two Testicles, like those of a Boar; which though they lye within, yet may be diftinguish'd without the Skin, and taken in the being able to break in Pieces the hardeft Hand, altho' they don't hang down as the Tefficles of other Creatures. Having open'd the hairy Skin, you meet with the common Pouch, and in that the two others diffinct from one another, which contain the Matter that we call Caftor.

The Custom is to tye these two Pouches as they are found, and hang them in the Chimney 'till they are well dry'd, and the Matter contain'd in them be grown hard, and

When these internal Pouches are open'd. please. The Beaver of Dantzick has Hair there is found in the lower Part a Matter flethy, folid and pulverifable, of a Colour like Cinamon, intermix'd and ty'd together with Fibres and Membranes, exquifitely in- to counterfeit it, which they do, by Mixing these lesser Pouches, a little above the fleshy Matter another Pouch, dictinct, but much less, and fasten'd to that which encloses it, which contains an oily Moisture, of a Scent as ftrong as the former: This being new is like the best Honey before 'tis coagulated, but is of the Colour and Substance of Suet as

it grows older.

These are the true Marks of the Castor that is fold to be us'd in Treacle, Mithridate, and divers other cephalick and hysterical Compositions; and these I can avouch to be true, having bought and fold a great deal, and knowing that no Person of understanding will contradict me. But I can speak with more Certainty upon what M. Charas, who dwelt near the Rhofne, and those Places where these Animals are taken, has affur'd me; that he bought of a Peasant's Daughter the Pouches of a Beaver, just taken from the Body, which he hung up in the Chimney, being then of the Colour of Flesh; and appearing like Testicles, which Shape they retain'd when dried, that they then weigh'd fourteen Ounces; and being cut open had all the inward Parts, as I have describ'd them: That he afterwards got a live Beaver from the fame Place, which a Country-Man brought him in a Tub, which was in all things conformable to the Description I have given; and especially as to the Pouches, which being situated in the same Place as those of a Boar, were of so large a Size, that they were more than an Handful. The Beavers being of different Sizes, their Pouches are proportionable; so that when they are dried we have them from four to fixteen Ounces.

These Animals are bred in the Rosne, the Lifere, the Oife, in France, in Spain, Savoy and Italy; there are a great many taken along the Elb, and the great Rivers of Germany and Poland; as likewise in Lithuania and Muscovy, the Lakes of Canada, and Hudson's Bay, in America; but it is almost a general Rule, that the Fur is finer, longer, and fofter, according to the Coldness of the Region they are bred in.

The Dearnels of Castor, and the Avarice of wicked Persons have induc'd People

terwoven, and of a Scent that is extreamly the Powder of the true Castor with Gums strong. There is likewise found in each of that there is no Necessity of naming, and putting them in the Skins, which have conrain'd the Testicles of Lambs and Goats, then they hang them in the Chimney, and pass them off for true Caftor: But it is easie to difcover the Cheat, by cutting the Pouches, and looking for the Marks I have given you; of which, the most effential is that you will find none of the Fibres and small Skins so naturally intermix'd in them. And whereas the true Castor, when pounded, will pass through a Silk Sieve, and leave feveral little Membranes upon the Silk; the Gums won't pass, but remain clotted, without any Appearance of the little Skins before-mentioned.

> I shall pass over that which several considerable Authors have reported of the Beaver, that being pursued by the Hunters, he bites off his own Tefficles, and leaves them for his Ranfom; feeing he can no more bend his Body, fo as to come at them with his Teeth than a Boar can do; and besides being always near great Rivers, it is easie to escape by plunging into the Water.

> Caftor diverfly prepar'd is recommended in Difeases of the Brain and Womb, both inwardly and outwardly. The oily Substance is likewise us'd in Oyntment, and in the Composition of Oil of Castor.

There was a Beaver diffected in the Academy of Sciences, which was three Foot and an half long from its Nose to the Extremity of its Tail; his greatest Breadth was twelve Inches, and he weigh'd above thirty Pound: His Colour was brown, and very shining, inclining to a dark Grey : His longest Hair was an Inch and an half long, and fine like the Hair of one's Head; the shorter was an Inch, and as soft as the finest Down; his Ears were round and very short, without Hair within, and outwardly like Velver; he had four cutting Teeth, fuch as Squirrels and Rats, and other Creatures have that are us'd to gnaw Things: These Teeth below were above an Inch long; and the upper ones, which come fomething forward, were not directly opposite, but so dispos'd as to work in the Nature of Sheers, passing one by another, being very sharp at the End, and cutting like an Ax; their Colour was white



withour, and of a bright Red within, in- full of little Strings, and have a Smell that is clining to a bastard Sassron: It had sixteen strong and piercing. Grinders, eight of a Side. The Claws be- The Skin of the hind were joyn'd by a Web, like those of a Goose; but those before were without such and they use them for Hands as Squirrels do. Their Nails are cut floping, and hollow'd like a Pen to write with. The Tail, as well as the Feet, has more of the Nature of a Fish, than of a terrestrial Animal, and tastes like it, being cover'd with Scales of the Likeness of Parchment, about a small Straw's Breadth, of an irregular hexagonal ment against the Palfy, Convulsions, hyste-Figure, which form an Epidermis, or Skin that joyns them together; it was eleven Inches long, and of an oval Figure, four Inches broad at the Root, and five in the Middle; this helps him in Swiming, and to beat his Mortar that he makes use of in Building his House, which he has sometimes of two or three Stories. His Testicles were not fasten'd to the Back-Bone, as Matthiolus, Amatus Lusitanus and Rondelet have told us; but they are hid in the Sides of the os Pubis, about the Groin, and don't appear without, any more than the Yard; nor can they be cut out without killing of the Creature : It had four large Pouches, fituated at the lower Part of the os Pubis; the two first were of the Figure of a Pear, and had a Communication with one another; they had an inward Covering, which was fleshy, of an ash Colour, streak'd with a great many white Lines, which had feveral Folds like those of the Skin of a Ram's Cod, and two Inches long, where there was a greyith Matter of a foetid Scent, and very thick; and this is the Castoreum so much spoken of.

The Caftor, or Caftoreum of Danzzick, being heavier, and of a stronger Scent, is preferable to that of Canada, which is generally dry, not clean, and has very little Smell: Let the Pouches be weighty, and fleshy; and Care must be taken that they be not fill'd with Honey, or any other Counterfeit, which is easily distinguishable; because they which are so fill'd up are bloated, smooth, bright; and if press'd a little, send forth a liquid and corrupted Honey; whereas the others, on the contrary, are hard and weighty; and when they are cut will be

The Skin of the Castor is esteemed the finest and softest Fur in the World, and is a valuable Commodity for making Beaver Membranes, not unlike the Mountain Rat, Hats. In Poland they line all Sorts of Garments with it, as making the best Show, and enduring the longest of any Fur : The Hair should be long, soft, and filky, and that of the fat Castor is preferable to the lean: The Skin being burnt to Ashes, and the Powder applied to the Nose, stops Bleeding.

The Fat of the Beaver is us'd as an Ointrical Fits, Apoplexy, and Falling Sickness: Take half a Pound of Beavers Far, Oils of Rolemary, Nutmegs, Amber and Mace, of

each, one Dram.

The general Virtues of Castor are in strengthening the Head and Nerves, being prevalent against the Biting of Serpents and mad Dogs; it helps Forgetfulnels caus'd by Sickness, curing Convulsions, Pains and Noise in the Ears from cold Humours, Coughs, Catarrhs, and Diftillation of Rheum, provoking the Terms, caufing a speedy and easie Delivery to a Woman in Travel bringing away both Birth, and after Birth, and dead Child. It has been found effectual in Epilephe, Apoplexy, Fits of the Mother, Gripings of the Belly and Cholick. It is prepar'd feveral Ways; but the Powder may be prepar'd as follows: Take pure Caftor in fine Powder, two Ounces; Saffron, Pepper, Bay-Berries, Tarrar vitriolated, Camphire, of each, one Dram; mix them. The Dofe is from one Dram to four Scruples in any proper Vohicle.

The Castor or Beaver is a fourfooted Animal, amphibious, for it Lemery. can live by Land or Water. It is about the Bigness of a Pig of fix Months Old; its Head is of the Shape of a Mountain Rat : Its Teeth are large, ftrong, ftarp and cutting; its Body short and hairy : Its Skin is cover'd with a very foft Hair, of which they make Hats. Its Tail is about a Foot long, an Inch thick, four Fingers broad, without hair, fealy, grey, hollow towards the Root, strengthen'd by Joynts, running into one another. Its Legs are thora, those before refembling a Dog's, and the hinder ones, a Swan's; it feeds upon Fruis,

Leaves, ...

Leaves, and Bark of Trees; and upon Fish and Powder of Kidneys, &c. as also whole a great Dainty both boil'd and roafted.

If you would take hold of a Beaver, you The Caftor contains a great deal of

him as you pleafe.

Masters, some Servants: They generate in plexy; and is a Medicine for Deafness. the Beginning of Summer, and bring forth The uncluous Liquor which is found andraw the Timber on the Belly of their An- Nerves. cients, they lying on their Backs; they love their Young; they use their fore Feet like Hands, and their Cry is like that of an In- 7. Of the Elk. fant. Their Tefticles are plac'd at the lower Part of the Belly, between the Pomet. THE Elk is a wild Creature Thighs near the Fundament, but they lye the Chimney, leaving them 'till they be dry and hardned, and the outward Purse is of a brownish Colour; and this is what they call Caftor: If you then open these inward Purses you will find a Matter which is hard, brittle, of a yellowish Brown, intermix'd with many loofe Membranes of a ftrong and piercing Odour; and underneath this Matter there is another Pouch which encloses an un-Auous and fattish Liquor, very like Honey, which as it grows old, comes to the Colour and Confiftence of Suet, and is of as frong a Scent as the Parts that are more folid.

Some of these Purses are larger, some less, according to the Beaft they are taken from. They are best cur'd by taking them out, cleanfing them purely, and drying them well in some shady Place; which when it is well done they will keep feven Years. It is

when it is in the Water : It is half Flesh and Kidneys put up into little Bladders, but may half Fish: The First is not reckon'd good, be discover'd by being black, mouldy, and but the Tail and hinder Legs are sweet like not apt to crumble; whereas the Genuine is the Tuny, having a folid Fat; some of the of a foetid, strong, and unpleasant Smell; Tails weigh four Pound, and are accounted and of a ftrong, sharp Biting, and bitter Tafte; and of a brittle Substance.

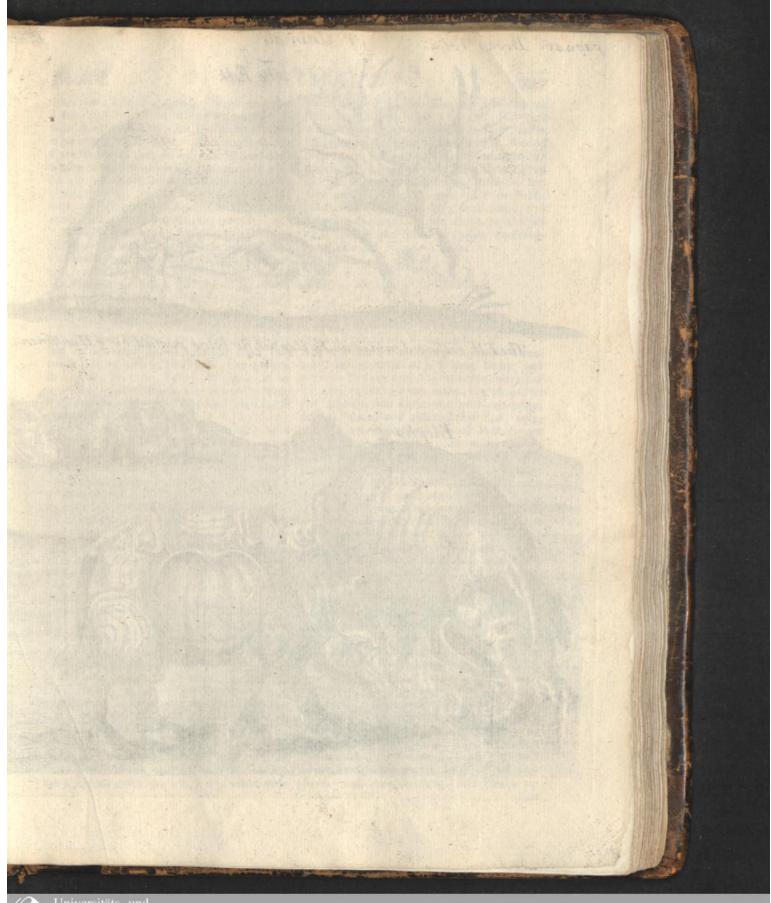
must seize on his Tail, and so secure him, exalted Oil, and volatile Salt; it atenuates that he cannot turn to bite you, and by the viscous Humours, strengthens the Brain, Hold you have of his Tail, you may govern provokes the Terms in Women, allays Vapours, resilts Putrefaction, causes Perspira-Amongst the Beavers some are accounted tion; is proper for Epilepsy, Palsy, or Apo-

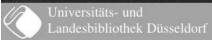
in the End of Autumn. They are cleanly in nex'd to the Testicles of the Beaver has the their Houses; for making of which, they same Virtue, and is strengthening to the

within under a fleshy Skin, which is hairy, in the cold Countries, especially in Sweden, and covers all the Belly; however, they Normay, Canada, and other Parts. This may be diftinguished outwardly, and handled. Animal is about the Height of a Coach-When they would have these Testicles, they Horse, or a large Ox; the Head is very open the fleshy bairy Skin, under which they thick, the Eyes are bright, the Horns upon find the first common Purse, which contains the Head are spreading and large, like those the two others in the Shape of little Purses, of the Deer; the Legs long and slender; or the real Testicles of an Animal, then they the Feet black and divided at the Hoof, as tye them by the Neck, and hang them in those of the Ox or Cow; as to the Hair it is foft, and of a blackish yellow. I shall not stand to relate what Abundance of Authors have faid concerning this Animal: I shall only say, that the Name Eland, or Elan, given by the Germans, fignifies Mifery; as well because that this Animal lives no where else but in desolate Places; as Woods, Forests, and the like, as because he is very subject to the Falling Sickness; and as foon as he is attack'd with this Disease, he fails not to put his left Foot to his left Ear to cure himself thereof, which has given Occafion to the Ancients to believe that the Elk's Claw, or the Horn upon the left Foot, was a Specifick for the Epilepsy.

Of all the Parts of this Animal, there is none used in Medicine but the left hind Foor, for the Reasons aforesaid; upon which Account the Buyer must take Care, that what adulterated by Gum Ammoniacum, Blood is offer'd to sale be not the Foot of some









other like Animal; that is difficult enough to diffinguish, unless the Leg or the Skin be with the Foot, to fee, by the Hair, whether it be the left hind Foot. You ought to take Care likewise, that it be not Worm-eaten, which often happens when they are old; but on the contrary, let the Claw be heavy, black, thining, and very fmooth; it is of fome Use amongst the Apothecaries for some other Diseases, as well as that named.

Some People eat the Flesh as Venison; the Skins are dreffed by Tanners, with Fift-Oil and Alum, to make Breast-Plates of, and to shelter from Rain: They may be known from a Deer or Hart's Skin, by blowing through them; for the Breath will come through like as in Buff. The Nerves are us'd against the Cramp, by binding the effected Part with them. The Horns are faid to be Antiepileptick; but the chief Virtue is faid to lye in the Hoof, being worn in a Ring, or hung about the Neck, so as it may touch the Skin; it is inwardly taken in Powder, being raip'd, or filed like Hartshorn.

Alce five Alces, or the Elk, is a Lemery. four-footed wild Beaft, of a large Size, betwixt a Deer, an Ass, and a Goar, having great branched Horns, bending towards the Back on the plain Edge, the Teeth or Branches of them being upwards, folid at the Root, and round like a Hart's-horn, but much broader; they grow as it were out of their Eye-Lids, are very heavy, weighing at least twelve Pounds, and are about two Foot long, which Horns they lofe every Year. It is headed something like a Horse, has long Ears, a broad Forehead, and an upper Lip to great, that hanging over the nether it to much falls over, that it cannot eat for it but by going backwards: It is a long-back'd Beaft, with a short, or almost no Tail, and a cloven Hoof like the Hart; his Hair almost of the same Colour, and sometimes of a brown Ruffet : He has a ftrange Kind of a Mane, lying both on the Top of his Neck, and underneath his Threat, where it sticks out like a Beard, or curl'd Lock of Hair.

This is a melancholy Beaft, and frequently afflicted with the Falling Sickness, con-tinuing in the Pangs thereof, 'till the Hoof of

rubbing the Part, the Creature is thereupon immediately deliver'd. In the Northern Climes they live in Herds, and are taken by Hunting; for upon the flightest Wound they are so timorous a Creature, they immediately fall down and yield themselves a Prey to their Enemies. In Sweden, Livonia, &c. they are taken, tamed, and us'd for Beafts of Burden; for they are both swift and strong, and serve well to draw in Sledges upon the Ice and Snow in Russia, Scandinavia, and other Northern Parts.

8. Of the Elephant.

HE Elephant is an Animal, that in Height and Thickness, exceeds all the Beafts of the Earth; it is a very understanding and tractable Creature, being arm'd with a long, fleshy, and nervous Trunk, which ferves him inftead of an Arm or Hand upon many Occasions: Is has likewife the Diferetion or Knowledge, how to extend and contract his Body upon entring into a Paffage several Feet lower than its Body, provided it be wide enough for its Bulk. I don't believe it will be necelfary to give a very particular Description of this Animal, because there is scarce any confiderable Town in Europe but where this Creature has been feen; only it may not be amifs to inform you that the Elephants come from the Eastern Parts of the World, but more particularly from the Great Mogul's Country. They are the Males only that are arm'd with great Teeth or Tushes, at the upper Part of the lower Jaws, for the Females are much less; both these are call'd Ivory, of which feveral fine Works are made, as well as Medicines and other necesfary Things for Life.

I shall not trouble myself to give an Account of all that has been writ upon this Subject, by the Ancients, in Relation to the Elephant, but only take Notice of some few Things that may be entertaining to the Reader, if they afford him no further Inftru-Ction. Ambrose Parry gives an Account of two Sorts of Dragons which deftroy the Elephants after this Manner: Thele Dragons wind themselves about the Legs of the Elethe left Yoot touch the left Ear; wherewith phants; and then thrufting their Heads up

their Nostrils they put out their Eyes, sting Arms of the Male Elephant; the best and them, and suck their Blood 'till they are whitest of which comes from Angola, Cei-dead.

Pliny affirms he faw an Elephant which learn'd the Greek Letters, and was able with his Tongue to write a Greek Sentence; and in the Plays of Germanicus C.esar Elephants danc'd after Instruments of Musick, keeping Time and Measure. The Elephant is faid to have a Kind of Religion; for it worfhips, reverences, or observes the Course of the Sun, Moon and Stars: For when the Moon shines they go to the Waters where they may see her; and when the Sun rises, they falute or reverence his appearing, by holding up their Trunk to Heaven in Congratulation for the Light; by a Kind of natural Instinct, they have some Fore-knowledge of their own Death; and when any of their Kind dies, they cover the dead Carcase with Dust, Earth, and green Boughs. They have a paffionate Love to their Mafters and Keepers, and feldom forget to revenge an Injury on those that have offended them, as they are always grateful to their Benefactors. Aynon faith, an Elephant was cheated of the half of his daily Allowance by his Overfeer; By Chance the Mafter came and ferved him; upon which the Beaft divided it into two Parts, before his Master, laying one of them aside; by this the Fraud of the Servant was detected.

Pliny says, that an Elephane which was duller than ordinary, was found by his Mafter in the Night, practifing Things which he had taught him in the Day, with much Difficulty, and many Blows. It is reported they will live two or three hundred Years, if not prevented by extraordinary Accidents. They only breed in hot Countries, and scarcely can bear Cold and Winter Weather. As to their Teeth, they are often found very large. An Elephant's Tooth was fold to a-Venetian Merchant about twelve Foot long, and three Foot Diameter; and it weigh'd fo heavy, that he cou'd not lift it. Vertomannus faith, that he faw in the Island of Sumatra two Elephants Teeth, which weigh'd 336 Pounds: when these fall off which is about every tenth Year they bury them in the Earth, with their Feet.

The Ivory, which the Latins call Ebur, and I is the Teeth, or rather the Weapons, or dren.

whitest of which comes from Angola, Cei-lan, and other Parts of the East-Indies. The Trade of Ivory, or Elephants Teeth, is very great in France, as well as England, for many Purpoles. There is a Spirit and volatile Salt made from it, by the Retort, which is highly efteem'd in Diseases of the Heart and Brain; it is cold and dry, a pestilential Antidote, moderately binding, and strengthening the Bowels. Take Filings, or Raspings of Ivory, half a Dram; Powder of Man's Scull, Bezoar Mineral, of each fifteen Grains; mix 'em for a Dose in the Epilepsy, or any malignant Fever: Mix'd with Japan Earth, and Jesuits Bark, it is good for the Fluor Albus, Bloody Flux, Weakness of the Back, & likewise Cocheneal and Saffron, being added it becomes an excellent Cordial.

Ivory Black is made of burnt Ivory that is taken from the Fire whilft it retains its Blackness, is then pounded, and with Water made into little flat Cakes or Troches for the Painters; which when good ought to be very finely ground, soft and brittle. The Apothecaries, or others, which distil Ivory by the Retort, instead of throwing the burnt Ivory that remains in the Retort away, may pound it and make it into little Cakes or Troches, as I have said before, and then sell it to those who buy Ivory Black, or else put it upon a good Coal Fire, to reduce it to a white Powder, which is call'd Spodium, or burnt Ivory.

Spodium, or Ivory calcin'd to a Whitenels, is burnt for the Purpole, that it may be ferviceable in Medicine; the best is that which is white within and without, heavy, easie to break, in fine Shells; the least full of Dirt and Filth that may be. They bruife the Spodium upon a Sea Shell, or Stone, and make it into Troches, which is what we call Prepar'd Troches of Ivory or Spodium. The same Virtues are attributed to these, as to Coral and other Alkalies. The Ancients, besides Ivory, burn'd Canes or Reeds; and the Canes thus reduc'd to Ashes were also call'd, Burnt Ivory, Spodium, or Antispodium; it strengthens the vital Parts, refists malignant Fevers, prevents Miscarriages in Women; helps Conception, cures Vapours and Fits; and likewise kills Worms in Chil-



Of the Rhinoceros.

most the wild Boar; he is so call'd, because of the Horn that grows out of his Snout, which is black, about a Foot and half long, hard, pyramidal, folid; the Point or Tip whereof turns up again towards the Crown fame Way as the other, but is not above a Hand's Breadth long. This Animal is cover'd by which he receives his Meat; with this he has two, as it were Targets, upon his Body, like the Wings of a Dragon, coming from other Place; with this he can draw up a his Back down to his Belly. In like Man- great Quantity of Water, and shoot it out ner the Legs are scal'd to the Hoof's, which again, to the annoying of his Enemy. are parted into four distinct Claws.

This Animal is an Enemy to the Elephant, and in fighting with him, fixes his Horn in the fost Part of the Elephant's Belly; for which Cause it is said, that an Elephant will run from him. When they fight they whet their Horn before-hand against Stones: They are not fierce against Mankind without great Provocations; their Cry is like rifick.

enter into it, as a Finger into the Mouth of a Dog; their Eyes are really large in themselves, but appear small in Comparison, and their Ears little in Proportion to the rest of the Body, not much unlike the Wings of a Bat : The Teeth on either Side are four, to eat with and grind their Food, with two

others, one on each Side, which hang forth beyond the rest: It has a Trunk at the End of the Snout, call'd Proboscis, Sen Tuba, sen The Rhinoceros is a four-footed Animal, of Manus Nafuta, which is a large hollow the Size of a Bull, whose Body resembles Thing, hanging from his Nose, like Skin, downwards, serving instead of a Hand. When he feeds it lies open to draw in both his Meat and Drink; by this he receives of his Keeper whatever he gives him, and in Swimming draws throw it his Breath; it is of the Head. There is also another Horn crooked, griftly and inflexible at the Root, of the same Colour and Hardness, towards next the Nose, where it has two Passages, the Middle of the Back, which turns the one into the Head and Body, by which the Elephant breaths, the other into the Mouth all over with ftrong Scales, befides which he fights in War, and is able to take up a small Piece of Money from the Ground, or any

He is faid to have four Venters, or Bellies, and Lungs four times as big as an Ox; his genital Member is like a Horse, but less. and the Tefficles lye inward about the Reins: The fore Legs are much longer than the bind Legs, of thort Joynts, and of equal Bignels, both above and beneath the Knees; the Ancle-Bones are very low, he bends his hind Legs as a Man when he fits, but not the Grunting of a Hog: The Indians make both together, and so leaning on one Side Bottles of their Skins to put Liquors in; the fleeps most commonly against a Tree: Their Powder being infus'd in Wine, or taken by | Feet are round like Horses, and as broad as a itself to a Scruple, is good against malignant Bushel, having five distinct Toes upon each Diseases. The Horn which is chiefly us'd as Foot, which are very little cloven, but the Unicorn's, is faid to be good against all without Nails; they are for the most Part contagious and malignant Fevers; for being a of a Mouse Colour, or darkish brown; the high Alkaly, both fix'd and volatile, it en- Skin is harder on the Back, and fofter on counters and destroys the malignant Acids, the Belly without any Covering of Hair which ftir up and influence the most perni- or Briftles, unless here and there one scarcious Difeafes; 'tis reckon'd a fingular Sudo- teringly; it is fo tough, that a sharp Sword or Iron cannot pierce it: The Tail is like Elephas five Elephantus, is a Qua- an Ox's, but without Hair, except at the Lemery, druped, efteem'd the biggeft in End. The Sound or Noise they utter, has the World, of a monstrous Shape; the most Resemblance to Braying, and seems the Head is great and deformed; the Mouth as if a ways hoarfe. [The Virtues of the fo large, that a Man's Head may as easily Elephants Teeth, or Ivory, are fully fet forth in Pomet].

> The Rhinoceros, call'd fo from carrying his Horn upon his Nofe, is a large four-footed Animal, that looks as if he was something of the Boar Kind, only that he is much larger, and more lubberly and dull. His Head is thick; and enclos'd in a Sort of flat Cowl. Vol. II.

for which Reason, according to the Rev. Portuguese have given him the Name of Moine des Indes, or the Indian Monk: by reafon of his Horn fo advantagiously placed, he becomes formidable to the Bufflers, Tygers and Elephants, which he engages sometimes. This Animal is found in the Defarts of Africa, in Asia, at Siam, and in China, where Salt and Oil; they are useful to refift Poyfon, strengthen and fortify the Heart, proservative against infectious Air.

9. Of the Camel.

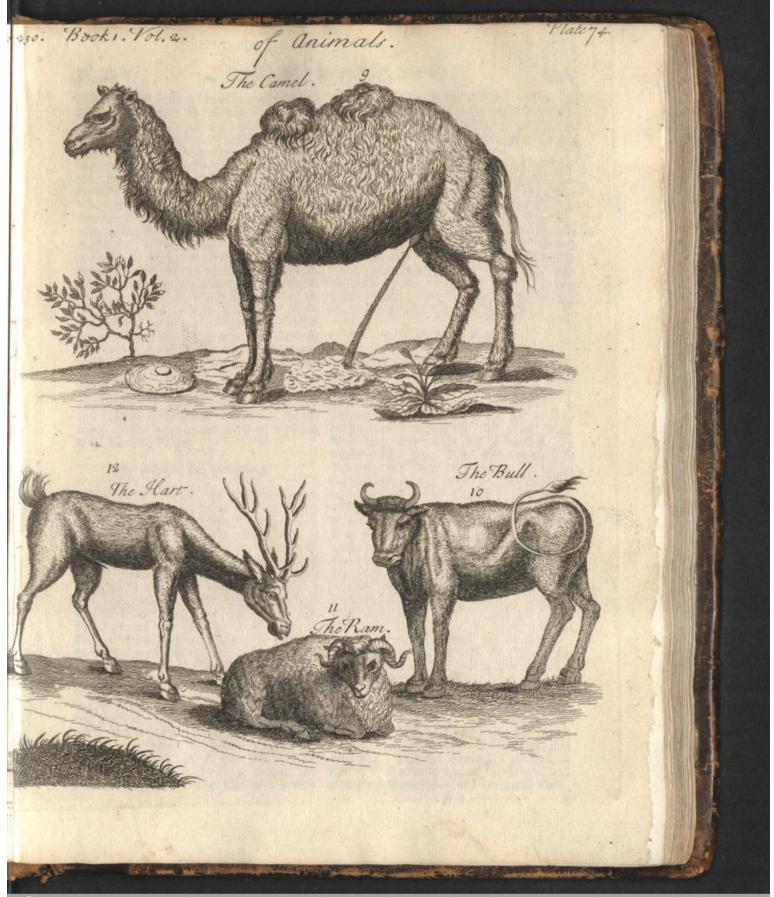
THE Camel is a gentle domeftick Animal, whereof there are great Numbers throughout all Africa, and particularly in Barbary, and the Defarts of Getulia and Libya, and are the greatest Riches of the Arabs. Those of Africa are better than other, because they will travel forty or fifty Days together upon Barley only, and ten or twelve without eating or drinking at all. The Female carries her Burchen eleven Months. When the Camels travel in the Caravan, or labour in the Field. the Drivers of them whiftle and fing; for the more they encourage these Animals, the better they march; their Food is Grass, Hay, Thistles, Barley, Oats, Rushes and Herbs. When the Turks, and other People of There are three Kinds of Camels; those Asia, or Africa, travel with their Caravans, call'd Hegin are the biggeft, and will carry a thousand Weight: The second Kind are what they call the Bechet, that have two Bunches on their Back, and are the best to ride upon; but these are only to be met with in Afia. The Third they call Dromadaries, which are the smallest and finest, but fit for no other Use but riding upon, and are so fwift that they will travel thirty-five, or forty Leagues a-Day, and continue fo to do nine or ten Days through the Defarts, with Top like Needles, as in Salt Petre refin'd, little or no Sustenance

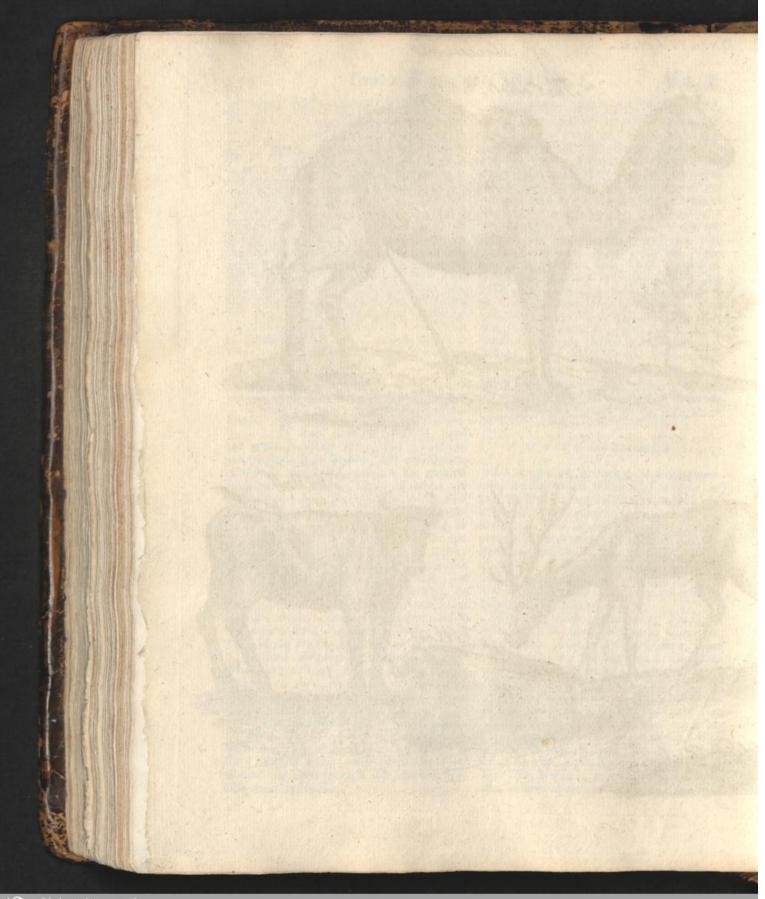
When these Animals are to be loaded. Father Le Comte's Memoirs of China, the they strike em over the Knees, and upon the Neck with a Stick, and they kneel upon the Ground to receive their Burthen; and when they are loaded, upon the Sign being given, they rife presently with it; these Creatures bear Hunger and Thirst with great Patience; fome fay they carry Water in their Stomachs a long time to cool them, by Means of a they feed upon the Branches of hairy and large Ventricle, about which they find a conprickly Shrubs and Trees. The Horns, fiderable Number of Bags inclos'd in the the Nails and Blood are all us'd in Medicine, Tunicles or Coats thereof, in which it apcontaining in them a good deal of volatile pears these Animals keep Water in reserve: And hence it is that some Persons affirm, that when the Turks go with the Caravan, cure Sweat, stop Fluxes of the Belly, and or to Meca, and Water is scarce, they are good against all contagious Diseases: kill their Camels to drink the Water they The Dose is from a Scruple to two, either have in their Stomachs. It is from these Ain Infusion or Powder, which drunk in nimals we have the Hair that is call'd by their Wine, purifies the Blood, and is a good Pre- Names, and of which several fine Stuffs are made; the best of which is that on the Back, and the least full of white Hair : In thort, the Camel of all Animals is the most gentle, the least chargeable to keep, and which brings the greatest Profit to his Owner,

Of natural Salt Ammoniac.

Sal Armoniack, or rather Natural Ammoniac, is a Salt white within and without, of a saltish Taste, pretty like common Salt, only that it is more pungent. It is brought us fometimes from Arabia or Libya; but at present we have very little, by reason the Venetians and Dutch have found out a Way of making a Composition, that near resembles it in its Virtues; but there is a great deal of Difference in the Figure betwixt the Natural and Artificial.

When the Turks, and other People of their Camels, passing thro' the Delarts, urine upon the Sands; and the Sun thining fierce on the Urine, fails not to dry it up, and reduce it into a white Mass; the Truth of which has been testified by a Tryal made of a Piece which Mr. Tournefort gave me the 6th of March, 1693, whose Figure is here represented and mark'd A, and which I keep by me as a great Rarity. This Salt is cristalliz'd; that is to fay, it appears on the and hollow on the under Side, where there







fublim'd by Means of the Sun, which raifes it above the Sands that are very hot.

The Ancients univerfally agreed, that there was a natural Sal Ammoniac; that this Salt was found in the Libyan Sands, and that it was made from the Camels Urine, which travel'd to the Temple of Jupiter Ammon, from whence it took its Name : And others fay that it comes from the Greek Word Ammos, which fignifies Sand; and therefore we ought not, as is commonly done, to call it Armoniack, but Ammoniack. There is, befides this, another Salt Ammoniac, or Natural Armoniac, or rather more properly speaking an artificial one, which is made after the same Manner as we make Salt Petre, that is drawn from a Kind of Earth, or faltish Scum or Drofs that is dug out of old Caverns, and the Chinks of Rocks, which are betwixt Labor, Thanusseri and Tzerbint : But as these two Salts are almost unknown to us, and that we meet but with very little of them, for this Reason we shall content ourselves with that brought from Venice or Holland, but the last is chiefly what comes to Paris, especially in Time of Peace.

Of artificial Sal Armoniack.

The Sal Armoniack, or rather Acrimoniack, or according to fome Acrimonial, is a Mass or Composition of several Things, made in Shape of a Pot-lid, which the Venetians or Dutch make, according to the Relation of feveral Authors, from Human or Animal Urine, common or Sea Salt, and Chimney Soot, boil'd altogether, and fublim'd into a Salt, and form'd into Cakes, as we have it now brought to us. Some have affur'd me that Sal Armoniack was likewise compos'd of all Sorts of Blood, which I cannot be fatisfied in, having never feen it done.

That Sal Armoniack is the best which is clearest, whitest, and most transparent; and which being broke, there appear in it as it better, and more successful against Quarwere Needles, and that which is the dryeft; but reject that which is very commonly met with, and is black without and within; and which being broke is almost all grey or black: That which comes from Venice is the pureft; that from Antwerp and Holland, the

is some Sand, which shows that the Salt is considerable for several Trades, besides the many excellent Preparations made from it in Chymistry; it serves the Dyers, Goldsmiths, Founders, Pin-Makers, and almost all that work in Metals, and the Farriers.

In the Sublimation of this artificial Salt. according to the Composition mention'd before, the volatile alkalious Salts of the Urine and Soot, do raise up as much of the Acid, or Sea Salt, as they can hold firictly together, which feems to be fix'd; fo that it appears this Salt confifts of two different Natures and Properties; to wit, of Acid and Alcaly fix'd, and Volatile; and accordingly two different Spirits, or Salts, may be drawn from it, viz. a volatile alcalious Spirit and Salt, and an acid Spirit and fix'd Salt.

To purifie Sal Armoniack.

Diffolve it in a sufficient Quantity of Water, filtrare the Diffolution; and in a Glafs Vessel, either evaporate 'till it is dry, by which you will have a pure white Salt, or evaporate it 'till a Pellicle arifes, and fet it to chrystalize according to the usual Way. You may also purifie Sal Armoniack, by Sublimation, thus: Take Sal Armoniack in Powder, Sea Salt decrepitated, or rather Smiths Scales; mix them, and put the Mixture into an earthen Cucurbit; and having plac'd it in Sand, fit to it a blind Head; give a gentle Fire at first, and encrease it by little and little, until you can fee the Sal Armoniack rife up like Meal, and flick to the Head and uppermost Part of the Cucurbit, and continue the Fire 'till nothing more will ascend; the Veffel being cold, gather these Flowers with a Feather, and keep 'em in a Glass close ftopt; they are only Sal Armoniack, and their Virtues the same with the former, being given only to one Scruple: Thus purified from Sea Salt, the Flowers are white; but from Iron Scales they are of a yellowish Colour; the latter being much the tans; and both of them are very powerful Agents in all chymical Operations, for extracting the Sulphurs of Metals and Minerals, both by the Help of Sublimation, and otherwise. This Sal Armoniack purified, is also us'd outwardly against Gangrenes, and most common Sort. The Use of it is very to consume superfluous and corrupted Flesh;



fey and Inflammation of the Throat, and in a Bath ir gives Relief in the Gout, especially if Clothes be made wet therewith and applied.

feven Ounces, and better, of a white fix'd Mass, from which you may distil an acid Spirit, as you do Spirit of Salt; for indeed it is a Kind of Spirit of Salt, or little better; otherwise you may dissolve it in Water, filtred.

Of volatile Spirit of Sal Armoniack.

Take Sal Armoniack and Quicklime in Powder, fix Ounces of the first, and one Pound of the latter; mix them in an Iron Mortar; add three or four Ounces of Water or Urine; put them quickly into a Retort, the Half whereof is empty; fet it in a Sand Furnace, with a very large Receiver, luting the Junctures close; begin the Distillation without Fire for a Quarter of an Hour; then add the Fire, increasing it by little and little, 'till no more Spirits come forth: Take off the Receiver, and immediately turning away your Nofe, put the Spirits into a Glass, which keep close stopt for Use, you will have four Ounces of Spirit or better: This is stronger than that made with Tartar, being endow'd with the fiery Particles of the quick Lime; which being mix'd with Spirit of Wine, prevents the coagulating; whereas that made with Tartar will cause a Coagulum upon the Spot. This Spirit prepared either Way, corrects and hinders Putrefaction, more than most other Things in the World; and powerfully refifts the Poison or Venom of the Plague or Peftilence; and is very profitably given a-gainst all putrid Fevers: The volatile Spirit and Salt, are more fubtil and penetrating, and of a kinder Tafte and Smell than those which have been extracted out of plain Urine, because they were not fermented and depurated by common Salt. This Spirit is good in all hypochondriacal Cases, Suffocation of the Womb, &c. but chiefly against Diseases of the Head; as Vertigo, Lethargy, Epilepsy, Deafnels, Pally, Trembling, and the like: In a Word, it is good in all Diseases proceeding from Corruption, or Obstruction of Humours.

Of the acid Spirit, and fix'd Salt of Armoniack.

After the Spirit is drawn off with Tartar, there remains at the Bottom of the Cucurbir

Mals, from which you may diftil an acid Spirit, as you do Spirit of Salt; for indeed it is a Kind of Spirit of Salt, or little better ; otherwise you may dissolve it in Water, filtre and chrystalize, so will you have a very good Salt against intermitting Fevers, given from ten Grains to thirty; this is as agreeable an Acid as any we have; and is very proper to allay the Heat of Fevers, to provoke Urine, and stop the too violent Fermentations of the Blood. There is another Way of making the fix'd Salt, by the Means of Egg-Shells, or quick Lime, which they reduce with the former Mass, into a clear transparent Body, like Crystal, which is a very good Caustick, but easily runs to Water; for which Reason, those who are desirous to keep it, put it in a Glass Bottle well stop'd. fo that no Air can enter. This fix'd Sal Armoniack being reduc'd into a Liquor, is what some call, tho' improperly, Oil of Sal Armoniack; and is indeed an Oil per deliquium, which several Persons keep for the Resuscitation of Quick-Silver.

tall tractable Beaft, that is of migh- Lemery. ty Service to all the People of Afia and Africa; his Neck is long, the Body very thick and broad, having a Bunch on his Back, and fometimes two: The Tail is like that of an Ass, his Buttocks are small, considering the Bulk of his Body, and the Legs very long. The Female goes with Young eleven, and sometimes twelve Months; and when the young Ones arrive at an Age and Size fit for Service, they load 'em with Burthens as we do Horses in Europe : But as this Animal is very high, so that it is difficult to load them, they are taught, while young, to kneel down upon their Knees to receive their Burthens; and this is the Reason that they become, in Time, fo callous and hard, that they have seatce the Sense of Feeling on

Camelus, or the Camel, is a very

These Camels are the usefullest Creatures in Africa; the Arabs make great Advantages of em, because they wil live hard, and endure both Hunger and Thirst with much Ease, and wonderful Patience. These Beasts are great Lovers of Singing and other Musick; so that those who travel long Journeys with them, sing or pipe all the Way to make them.

that Part.

are three Sorts of 'em; the First, or largest us'd in Physick, instead of that in the Stag's fized, is call'd Hugium; the Second more Heart, tho' very improperly. peculiar to Asia, is nam'd Becheti; and the Third is Dromas five Dromadarius, the Dromedary, which the Arabs call Raguabil; and is a small, thin, lean Creature, in respect of the others.

proper for the Piles or Hemorrhoids: The that made in England or Flanders. Brain being dry'd and bear to Powder, is The strong English Glue ought to be chose good for the Epileply; the Gall mix'd with well boil'd, dry, clear and transparent, of a the Milk loofens the Belly, procures an Ap- not gravelly or foul, but the smoothest and the Teeth, and make Sal Armoniack of. The Dung is vulnerary and deterfive, and the Milk and Flesh good to eat, so that the Arabs feed upon them.

10. Of the Bull, &c.

Pomet. THE Bull, Ox, Ram, or Wether, are Animals fo well known to all the World, that it would be useless to give a Description of them. There is sometimes found and of diverse Crusts like the Bezoar; for the Gall Stone, which if good ought to be high colour'd and well dry'd; for if they are purchas'd when taken fresh from the Animal, they wast considerably in drying; sometimes this Stone is fold pretty dear, especially if it falls into the Hands of Persons who know its Value. The greatest Use that is made of it is for painting in Miniature, as they use Gamboge: The same Virtues are ascrib'd to this as to Bezoar; but as this Stone is to be met with at Home, it makes it not so much valued as Oriental Bezoar. We likewife, fometimes, meet with a Cartilage in the Heart of an Ox, like that of the Stag, to which they give the Name of the Bone in

go the faster and more chearfully. There the Heart of the Ox, which is now and then

By the Burning of Beef Bones, there is a Black made, call'd Bone Black; it ought to be fine, brittle, shining, and well ground; its Use is for Painting. There is a Glue made of the Cartilages, &a well boil'd in Water, All the Parts of the Camel yield a great which is cast into Moulds, and afterwards deal of volatile Salt and Oil; the Flesh be- spread out and dry'd; this is then call'd Bulls ing eat, provokes to Urine; the Greale or Glue, or strong Glue, of which they make Fat is emollient, foftening, and refolutive, a confiderable Trade in France, especially of

Honey is reckon'd proper for the Quinfey; reddish Brown, easie to break with the Fift, perite, relieves or gives Ease in an Asthma: neatest that can be had; rejecting such as The Blood is faid to be proper to incline Wo- when it is melted flinks much; as all the men to conceive, if the Region of the strong Glues that are made at Paris, or there-Womb be fomented therewith after the men- abouts do, which are less valued for any Kinds strual Flux. The Urine is good to cleanse of Works, than that which is brought from England. The Flanders Glue ought to have the same Qualities with the former; but not being so much boil'd, they use this Glue for Har-making; it serving them better than that of England, as well as to paint in Water-Colours.

The West-India Company in France bring, especially to Rollen, a great Quantity of Ox Hides from Barbary, of which the Merchants of Rouen make a confiderable Bufinels, but at Paris they fell but few; the greatest Share comes from Senegal with the Gum and in the Bladder of Oxen, a Stone of the Colour the Gold Duft. As the Merchants of Rouen and Shape of the Yolk of an Egg, that is foft, are oblig'd to give Credit for three Years to the Tanners; if by Accident any Tanner which Reason it is call'd the Ox Bezoar, or comes to fail or die, and that the Successor of him is not able to pay for his Goods, the Merchant is permitted to open his Tan-Pits, and withdraw his Merchandize. Besides these, we sell Ox Hides from Hungary; the best are the whitest, and the true Hungarian, because they are much better than those which are made in France; likewife English Calf-Skins, and others without Hair, or drefs'd, which come from feveral Parts, as well as Flocks and Beafts Hair: Over and above all these we trade in Beef-Suet, or Tallow, that comes from Ireland, which ought to be new and white.

> Bos, in English, the Bull, Ox, or Cow, are fluggish horned Beasts, which

which chew the Cud, and cleave the Hoof; Spirit, are powerful Openers of Obstruthe Horns of the Bull are short, of the Ox ctions. They find sometimes in the Stomach Horns and Colour, according to the Variety of Countries where they are brought forth; they yield from every Part a great deal of Oil and volatile Salt. The Flesh of the Bull is coarse and tough to that of the Ox; the Cow's Flesh, if fat, is good Meat; but if old and lean it is not earable: The young Bullock's Flesh is fine, but much inferior to the Oxes. Veal is a pleasant Meat, easie of Digestion, loofens the Body, and heals the Bowels in a Bloody Flux.

The Blood drunk warm is said to cure the Spunge, to deterge and dry up Wounds. Epilepfy; besmear'd upon the Skin warm, it takes away all Foulness; and is also good against the Gout and other Pains: The Fat is emollient, and is us'd in Balfams, Oyntments, and Plaisters; it eases Pains proceeding from Cold; cures Kibes and Chilblains, and heals the Chapping of the Hands, the common Cow or Ox, fave that their Lips, Nipples. Fundament, &c. The Chymical Oil is good against the Gour, Palsies, Numbness, Contractions of the Nerves and Muscles, Lameness, &c. the Marrow is of the same Effect, but much finer. The Horns are alexipharmack, and by fome call'd the English Bezoar; the Powder rasp'd from the Horn much exceeding the truest and best Oriental Bezoar. Moreover it is of fingular Use in the Falling Sickness, Pits of the Mother, Convulfions, Palfies, Lethargies, &c. The Hoofs, and the Volatile Salt thereof, are Specificks for all the Diseases the Horns are faid to be good against.

The Gall mix'd with the Marrow and Fat of a Hen, and dropt into the Ears eafes their Pain; that of a Bull is sharper and stronger than of an Ox or Cow; and mix'd with Honey is a good Vulnerary, and cures almost all Difeases of the Eyes, if curable; there is no better Eye-Salve than it is : By itself it is a good Colliny against Blood-shot, Clouds, Films, Haws, or Pearls in the Eyes; mix'd with Myrrh and Aloes, it cures Ulcers of the Yard and other Parts, together with the and Leprosie: The Dung is temperate, difcures the worst Kind of Jaundice and Dropsie, nor is their Beef any ways inferior to ours, by provoking to Urine; the volatile Salt and but is only of a larger Kind.

very large; it is a Beast generally known, of an Ox or Cow, a Sort of large Ball like yet they differ much in their Shape, Size, a small Apple, of a round Figure, a little, flattish, having usually towards the Middle, a round Hole, wherein one may put one little Finger; it is of a reddish grey Colour: This Ball is made of the Hair which the Ox or Cow licks off her felf, and which in Process of Time stick one upon another 'till they are collected into a Mass; it is reckon'd proper to ftop the Hemorrhoids and other Fluxes: The Dole being from half a Scruple to half a Dram, powder'd and taken inwardly; it is likewife us'd externally, like

> There is another Kind of this Creature, call'd a Bison, which is but a wild Cow, Bull or Ox, breeding in Scythia, Moscovy and Scotland; but those in Scotland are white; it is call'd Vacca Paonica in Latin, in Greek, Bison; they differ nothing from Mane is like a Lyons; and they have a Beard under their Chin, being much larger than those which are common with us: Those in Scotland are of a leffer Kind, and white, where they were once in vast Numbers, but are now mostly destroy'd : Their Flesh, and all their other Parts, were equal in Goodness with the common Sort before treated of.

To the Bison we will add the Urus, call'd in English, the Ure-Ox, or Cow, but unknown to the Greeks. These also are a Kind of wild Oxen or Cows, differing little or nothing from our common Ox or Bull, fave in their Magnitude or Stature, coming near to the Bignels of an Elephant; when grown up it is a wild untameable Creature, nor can it be made sociable like ours, unless they be taken when Calves, and brought up young. They breed in the Woods of Hercynia, in the Pyrenean Mountains, in Pruffia, &c. where they are faid to be fo wild, cruel, and untameable, as they neither fear or spare Man or Beaft; their Largeness and Strength is incredible: Their Goodness for Food, and Piles; mix'd with Nitre, it removes Scurf Vertue of their Flesh, Milk, Hides, Horns, and other Parts, as also the Flesh of their custive, anodine, &c. The Urine drunk Calves, differ nothing from our tame ones,

11. Of

II. Of the Ram or Sheep.

Pomet. SHeep are one of the most neceslary Animals for the Use of Mankind, and therefore bred in most Nations of the World, tho' the Difference of Climates makes some Difference in their Colour and Shape. The Sheep in Greece are less than the Sheep of Egypt, and the Oves Pyrrhice were like Boves, by reason of their exceeding Largeness, their Name being deriv'd from Pyrrbus their Master. The Sheep of Chius are very small, and the Rams of India not much bigger than our Lambs. In Spain their best Sheep have black Fleeces, and all their Sheep bear exceeding fine Wool; near the Alps they are grey, or Honey colour'd; in Asia, Betica, and Erythrea, red like Foxes; at Canufium they are yellow, or Lyon Tawny; and so also at Tarentium; in Istria and Liburnia the Sheep bear Wool so coarse, that it may rather be accounted Hair than Wool. The Sheep of Apulia gave the Name to Lana Italica for excellent Wool; yet it was short and coarse, good for nothing but to make Garments to ride in, and to wear in rainy Weather. The French Sheep are not of the best Kind, but the Flemish have a fine, foft, curled Wool; so also have the Sheep of Miletum, Attica, and Gadilonea, reaching to America. Those in Poneus and Cappadocia coarser. In Scotland the Sheep bear good Wool; but that of the English Sheep excels, in Softness and Fineness, all other Wool in the World, except the Spanish Wool; and yet the Spaniards had the Sheep which bears that superfine Wool first from England. In Ethiopia the Sheep bear no Wool at all, but Hair like Camels Hair. In Gortynis the Sheep are red, and have four Horns. In some Part of India both Sheep and Goars are as big as Affes, and bring four Lambs at a Time, never less than three. The Arabian Sheep are in Size, Figure and Colour, like the English Sheep; but there are two Sorts amongst them that are distinguish d by the Length and Breadth of their Tails, being so extravagant both ways, that the Sheep cannot move from one Place to another without Affistance.

are two Kinds of wild Sheep, the Musmon and the Subus; the Musmon is not unlike a common Sheep, except in its Wool, which feems to be rather the Hair of a Goat, being the fame which the Ancients call'd Oves Umbric.e, the Umbrian Sheep: Some will have this to be a Kind of wild Goat, which it does not so much resemble, for it wants the Goat's Beard, and its Horns are absolutely like Rams Horns: They are bred in Corfica, Sardinia and Spain; and are faid to be got between a Ram and a She Goat, as the Cinirus is between a He Goat and an Ewe. The Form of the Musmon is much like a Ram; his Horns grow from his Head like a Ram's, and bend backwards almost to his Ears; it is exceeding swift of Foot, not much inferior to the swiftest Beast; the Skins of them are fo thick, that in the Place where they are bred, they are us'd for Breaft-Plates: Those Sheep live on the Mountains, and are admirable Meat, but are scarcely found any where now, but in Sardinia.

The Subus is a Kind of wild, or rather Water Sheep, of an amphibious Nature, living both on the Land, and in the Water : he eats Fish, which flock about him in great Abundance; but tarries no longer in the Water, than 'till his Belly is full : This Sheep is of a bright yellow Colour, like those of Crete, but its Wool is not so rough; it has two large Horns upon its Forehead, swims well, and is very greedy after Blood. This much of the wild Kind, and fuch as are not common, we shall now return to those that are so.

The Sheep is the mildest and most inosfenfive of all the Creatures upon Earth, of which there is no Part but what is profitable and useful to Mankind: The Flesh, Blood, and Milk, are for Food; the Skin and Wool both together, and a-part, for Cloathing: The Bones for making of Tests or Coppels to melt Gold in ; the Guts for Inftruments of Musick and Bow-Strings; the Horns and Hoofs for Trumpets, and other little Toys, besides their physical Use, and the Dung for Manuring of Land: Their Flesh is the universal Food of Europe; and in some Countries they make Butter and Cheese of their Milk. As to their Wool, they are very profitable in all Nations, being fhorn in the cold Countries once a Year; but in the hotter Befides the common Sort of Sheep, there Countries twice a Year; in some Places



they are never shorn; but according to the of which is the softest, and least full of long old Gustom, they pull the Wool from the Sheep's Back, whence the Name Vellus, a finest and more saleable Commodity, of Which there are these several Sorts that are

Having thus far given a Description of this Animal, I shall now proceed to shew its medicinal Uses: From the Horns is drawn a volatile Oil, Spirit and Salt, any of which are efficacious against Diseases of the Head, Brain and Nerves; as Epilepfies, hysterical Fits, Vapours, &c. from the Hoofs and Urine you may extract the same Preparations. The Dung is a prevalent Medicine against the Jaundice, Dropfie, Cholick, Pleurifie, Spleen, Stone, Gravel, Scurvy, &c. taken either in Powder, Tincture or Decoction; the Dung made into a Cataplasm with Camphire, Sal Armoniack, and a little Wine, opens, digests, attenuates, and eases Pain: It is excellent in Abscesses about the Ears and other Emunctories, Swellings in Womens Breafts, Pain of the Spleen and Gout.

The Skin, besides its Uses for Leather, Parchment, Size, &c. has some medicinal Uses of considerable Moment: A Lamb-Skin newly taken off and applied hot, is an admirable Thing to give Ease in Pain, strengthen any weak Part, and cure a Bruise newly taken; so a strong Broth of it made in Claret, by Bathing in it as hot as can be endured, will asswape Tumours, strengthen weak Joynts and Limbs, and restore a Wasting of the Parts, from an Atrophy or Consumption; and some say it is powerful enough to remove a Diabetes.

The Tallow and Cawl ferves for making Balfams, Oyntments, and Emplaifters, and the Marrow is good against the Colick, Gripings of the Guts and Exulcerations of the fame. The Oesipus is only the Sweat of the Sheep condensed upon the Wool, and making it greasy; it is emollient, discutient and anodine, being useful against Contusions, Strains and Weakness of the Joynts and Limbs. The Guts being cleans'd, dry'd and twisted, serve for Strings to Bows and Instruments of Musick; a Jelly made of Sheeps Feet, is prevalent in Consumptions, Fluxes of the Bowels, Exulcerations, and the like.

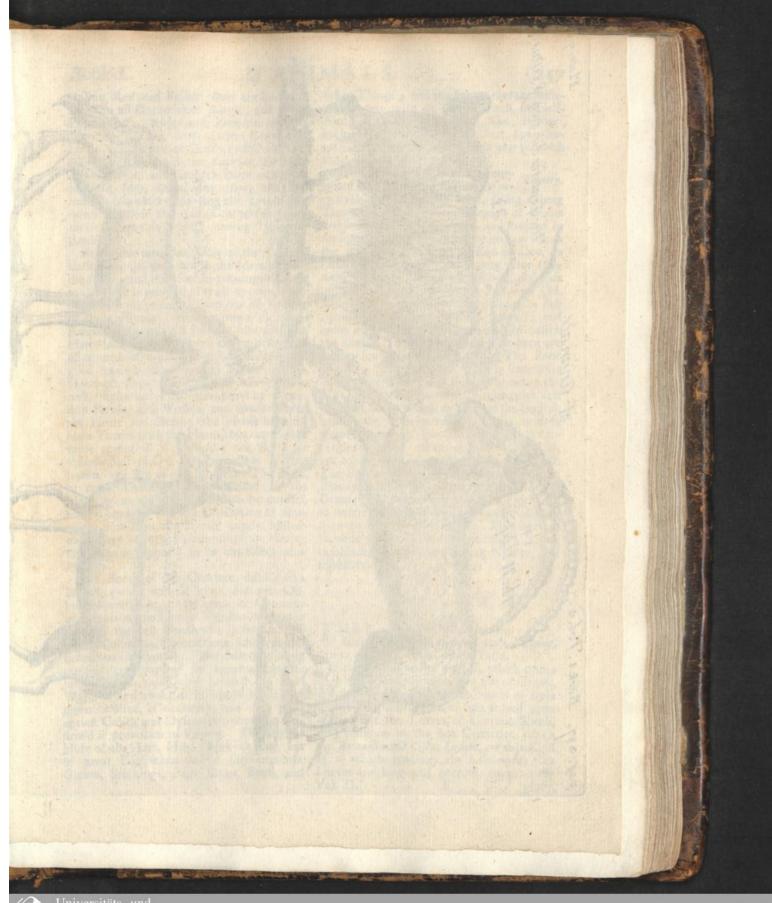
There is a great Trade carry'd on throughout the World with Wool; and amongst the rest, Persian Wool is in great Vogue; the best

of which is the softest, and least full of long Hairs; but Spanish Wool is reckon'd the finest and more saleable Commodity, of which there are these several Sorts that are esteem'd the most preserable. Vigognia and Segovia Wool the sinest Sort, the small Segovia and Segovia of Castille, &c. The ordinary Sort of Navarre and Arragon; the sinest white Wool of Sevil, Mallaga, and Portugal. Besides these, there are the German Wools of Roslock, Straisunt, and Anclam, Newmark, Weydacker, Steein, Thoorn, Dantzick, Prussia, Lunenburg, Bremen: The Wool that is produced in Berry, and the adjacent Parts of France, is the longest, and generally the coarsest in Europe.

12. Of the Hart or Deer.

THE Deer is an Animal fo well Pomer. known every where, that it wou'd be needless to give a Description of him; I shall only inform you that there are three Kinds understood by this general Word Deer, viz. First, The Hart and Hind, which are called in England, the Red Deer. 2dly, The Fallow Deer; and, 3dly, The Roe-Buck and Doe; all which are Animals of very long Lives, as may be feen by a Stag's Head kept at the Castle of Amboise, of a prodigious Length, which testifies the extream Age of the Creature that bore it. Some French Historians relate, that Charles the Sixth kill'd a Deer in the Forest of Senlis, which had a golden Collar about his Neck, wherein were engraved these Words, Hoc C.efar me donavit; Cæfar gave me this. This aniwers to a Story that paffes in England, where it is reported, that King Fames the First, in Hunting, took a Hart with a Collar, having an Infeription with Julius Cafar's Name thereon. But as to the Longevity of these Creatures, ancient Authors have been abundantly more profule in their Allowances than the Moderns; for it is affirm'd by some of the former, as a possitive Truth, that Agathocles, King of Sicily, Hunting in Calabria, took a Hart with a Collar upon him, on which was written Diomedes Diana, which was suppos'd to be done before the Siege of Troy, which was a thousand Years before his Time

The







The Red and Fallow Deer are generally found in all Countries of Europe, and several Parts of Asia, Africa and America, in Parks, Woods or Forests, seeding upon Grass, Hay, Herbs, and Leaves of Shrubs and Trees: The Roebuck is bred chiesly in America, Syria, Arabia, Greece, and several Parts of Africa, in Lycia, Italy, Spain, the Alps, and Germans. It is observable that the Lycian Roes, never go over the Syrian Mountains; yet their Delight is wholly among Hills and Rocks.

As to the medicinal Uses of the Parts of these Animals, they are in the Main one and the same; and therefore in treating of them, we shall do it generally for all at once. The Horns are the principal Parts in Use, whereof there are many Remedies prepar'd; as the Raspings, the calcin'd Powder, the Gelly of Harts-horn, the Oil, Spirit and volatile Salt; all or most of which are great Cordials, and good against fainting and swooning Fits, Heart-burnings, Convultions, falling Sick-ness, hysterical Fits, &c. provoke Swear, stop Fluxes, kill Worms, and comfort both the Heart and Brain; the Hoofs have the same Virtues with the Horns, but are much more powerful Cephalicks; the Spirit or volatile Salt or Oil, being excellent in Epilepfies, and Fits of the Mother. The Bone, or rather Cartilage, that is found in the Heart of an old Deer, is faid to be cordial, and is brought into the Confection of Hyacinth; it revives the Spirits, expels Melancholy, and helps the Palpitation of the Heart; this Bone is suppos'd to be the Effect of a

The Bones of this Creature, diffill'd in a Retort, yield a volatile Spirit, Salt and Oil, but neither so fine, or so much in Quantity as arises from the Horn: The Fat or Suet is equal to the best Emollient; it lenisses and softens Callosties, Contractions, schirrous and concerous Substances: The Marrow being purissed, and prepared for keeping, has the same Virtues, and may be used the same Way. The Powder or Filings of the Pizzle, given in Wine, is diuretick, and very good against Colick and Dysentery; some have affirm'd it provokes to Venery. The Skin or Hide of the Hart, Hind, Buck or Doe, are of great Use when dress'd for Garments, Gloves, Stockings, Bags, Shoes, Boots, and

other Things; and the Stones that are sometimes met with in the Stomach, or Gall-Bladder, are something like Bezoar, both in Figure and Virtue, but not altogether so powerful, and nothing near so much valued.

Cervus, or the Deer, is a large four- Lemery. footed Animal with Horns, that is very lively, sprightly and agile, living a long Time, and bearing a great Branch of Horns that serve him for his Defence, and drop off in the Spring Time, instead of which new Ones put forth. The Female, Hind or Doe, is call'd Cerva in Latin; the young One Hinnulus, or the Fawn; the Whole abounds with Abundance of volatile Salt and Oil. The Velvet Horns are fo foft, during the first Month, that they may easily be beat off; and being made into a Jelly, are us'd to hasten the Birth. The Raipings of Harts-horn are proper for Ptisans, Jelly, &cc. The Bone found in the Heart of a Stag, is sometimes half as long as the little Finger, broad as the Nail, flat and thin, usually triangular and white: Chuse the least rather than the biggest, because the Bone in an Ox's Heart is often impos'd upon you for that; it is almost cartilaginous when taken out of the Animal, but hardens into a bony Substance afterwards. The Bone in the Deer's Heel is proper in the Bloody Flux, being given in Powder to a Dram: The Marrow is yellowith, inclining to white, and may be us'd externally in Rheumatisms, Sciatica's, &c. The Suet is likewise profitable for the same Ends, being emollient, strengthening to the Nerves, and resolutive.

13. Of the Goat.

THE Goat is an Animal univerfally known in France, Italy, Pomet,
Cyprus, Candia, and other Parts.
The chief Commodity we fell, which comes
from these Goats, is a Kind of Fat or Grease,
which is found sticking to the Beards of these
Animals, especially such of 'em as seed upon
nothing but the Leaves of a certain Shrub,
very common in the hot Countries, which
the Botanists call Cistus Ledum, or that Kind
of it which produces the Labdanum; the
Leaves are long and narrow, rough, very
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gluey, of a dark Green, that continues all to keep it for Use : They usually prepare the the Year.

The Inhabitants of the Country gather this Grease with wooden Instruments, like Combs, and then make it up, being commonly full of Hair and other Filth, into a Mass or Cakes of different Size, and Weight, which is what is call'd Labdanum, or Ladanum, that is natural, or in the Beard: but fince the Islanders understood that there was a fweet pleasant Smell in this greafy Matter, and that when it was well purified, it wou'd be confiderably valued; they have taken Care to melt it, and strain it thro' Cloths, as well to take out the Drofs, as to give it a more fragrant Smell: Having thus refin'd it, they wrap it up in fine thin Bladders, as we have it brought us, and to which we give the Name of Liquid Labdanum, or Black Balfam. This Fat thus prepared, is much us'd in England; as for what is us'd in France it is scarce worth speaking of; the Suet, which is not easy to distinguish; there-Perfumers being the only People that deal in fore do not deal with Merchants you cannot is, either because of its Dearness, or because trust: As to the Skin it is of vast Use, as it is but little known. The worst of the to carry Wine, Oil, Turpentine, and liquid Labdanum is melted into Rolls, which they twift as they do Wax Candles, and this they call Twisted Labdanum.

Chuse the bearded Labdanum, the most fragrant and cleanest you can get: The liquid Kind ought to be of a folid Confiftence, of a Smell, inclining to that of Ambergrise, which has given Occasion to some Merchants to sell liquid Labdanum for black Ambergrise. As to the twifted Sort, it ought to be rejected as being full of nothing but Dirt and Sand. Besides these different Sorts of Labdanum, we have prepared Goat's Blood, which is us'd in Medicine, and that it may be endow'd with the excellent Qualities, which the Ancients attributed to it, the Beast must and fuch as are proper to break the Stone, and must not be above four or five Years old. Having cut its Throat, you are to referve only the middle or fecond Blood, rejecting what comes out first and last. This you are to put into an earthen Veffel cover'd with a clean Cloth, to hinder Duft or Dirt from falling into it, and then expose it to the Sun, or fer it in the Shade to dry; and when it is well

Blood of a Goat in the Month of July, because then the Herbs on which they feed, are suppos'd to have their full Virtues. Van Helmont affirms, that if you hang the Goat by the Horns, and bending the hind Feet to the Sides of his Head, in this Posture cause his Testicles to be cut out, and dry the Blood that runs from the Wound, it will become as hard as Glass, and difficult to be beat into Powder, and quite different from that taken from the Throat. He moreover afferts, that one Dram of this taken will infallibly ease and cure the Pleurify without Blood-letting.

We bring from Auvergne near Lyons and Nevers a great deal of Goats Suet; it being not only of some small Use in Physick, especially that of the He Goar, but is also us'd to many different Purpoles; it ought to be dry, of a clear White within and without; and take care it be not mix'd with Mutton other Liquors in. The Eastern People use the Skins of these Creatures for little Boats to cross a River with, and to carry their Goods upon the Euphrates, and other Rivers in the East-Indies.

Besides these Uses, the People of the Lefine Jet Black, sweet and pleasant to the vant dress these Goats Skins, and dye 'em of a red Colour, by the Help of Stick-Lac, and other Druggs, and then it becomes what we call Turkey-Leather, and have such considerable Trade in, because of the great Use made of it in France, upon feveral Occasions. The true Turkey-Leather shou'd be of a beautiful scarlet Colour, and a fine Grain. We make this Kind of Leather at Marfeiles and Paris; but it is not of fo good a Colour, and will not last so long. As to the black be fed for some Time with aromatical Herbs, Leather, the best comes from Barbary, in that it is of a finer Black, and better Grain. They make this also at Roilen, of what they call green or raw Skins; but it is neither fo good nor so beautiful as those made in Barbary.

14. Of the Wild Goat.

HE Wild Goat is an Animal lirtle known in France, and very dry'd, it ought to be put into a Glass Vial common in Switzerland; upon which Account

late what Father Belon of Mans has writ of it. "Wolves will not live in the Isle of " Crete, for which Reason they leave all " their Cattle in the open Pastures without Fear, and especially their Sheep and Lambs. "When the Inhabitants of the Country " take the Fawns of the wild Goats, of which there are great Plenty, they bring " 'em up with the domestick Goats, and so they " become the Property of those who tame " them; but the wild Ones are theirs who can take or kill them : They do not ex-" ceed the common Goat in Bulk, but they " have no less Flesh upon 'em than a large " Deer, and they are cover'd with the " fame Sort of Hair, short and thick, not like the Goats. We have fome of 'em also on our Mountains, and especially on Precipices that are difficult of Accels; and " one wou'd wonder to see such a little Ani-" mal carry fuch a Weight of Horns on his " Head. There are two Sorts of these Goats, as I have made appear from the different Horns brought from Cyprus and " Crete, which I presented to Monsieur Le Bailly of Lyons. There are some Peasants on the " Tops of the highest Mountains of Crete, that are such Archers, especially about the Mountains of Sphachia and Madara, " that they can wound with their Arrows " five and twenty Paces diftant; and in order to come at them, they take the She Goats which they have tam'd, and brought up from young ones, and tye them in some Paffage of the Mountains where the He " Goats use to go and ly in wait on the contrary Side to the Wind, for fear the wild Goat, who is so exquisite of Smell, as to fcent you a hundred Paces, shou'd discover them; the Male finding the She Goat on the Way, ftops, and then the Peafant draws his Bow; and if by Chance he wounds him but flightly, or that the Arrow flicks in his Body, he knows how to cure himself; for he runs to the Dittanny, " which is an Herb that grows upon the " Rocks in Crete, and browles upon it, by which Means he heals himself". The Switzers hunt these Animals both for Eating and for their Blood, which they prepare as aforesaid, and use for Diffolving the Stone,

count I thought it would not be amifs to re- the Blood of the common Godt; especially when they feed on Saxifrage, or other Herbs of like Qualities.

Caper vel Capra, Hircus vel Hirca, the He or She Goat are Lemery. both the Tame and the Wild, one or other of which are Inhabitants of most Parts of the World; besides which are the Rock Goat and the Orge, or the African wild Goat; but I shall confine myself here to the wild and tame Goat, that feed upon barren Mountains, and wast Places, and eat almost all Sorts of green Things whatsoever; so that they live and grow far, upon what any other living Creature wou'd be starv'd with: Their Increase is prodigious; for they fomerimes bring forth four, and fomerimes five at a Time; and the Ewe Kinds will have young ones before they are a Year old: The Profit of keeping Goats, which is only proper for barren and hilly Countries, besides the Advantage of keeping the Family, arifes from their Hides and Tallow; their Hides being the same Skins which in Turkey they make Turkey Leather of; and in Spain, Spanish Leather and Cordivant, so call'd from Corduba: These Skins are so valuable, that in some Countries they go in Tale for Money, as the Cocao Nuts do in others.

Of what Use the Leather is, daily Observation proves to us; of the best tann'd Leather, which is the Turkey and Spanish, are made Covers for Chairs, also Shoes and Boots for the Gentry and better Sort of People; of Cordivant and Kid Skins, are made vast Numbers of Gloves of all Sorts, of the Vellum may be made Covers for Books, Drum-Heads, Deeds, Maps, Books, and other Writings: This is the best Sort of Leather for universal Use, both for Strength, Substance and Goodness, next to Neats Leather: The Horns and Hoofs of these Creatures abound with a great deal of volatile Salt, Oil and Spirit, which are equally useful with the Preparation from Harts-horn. The Powder of the dry'd Testicles is boasted by some to be no ways inferior to Castor : and being given to a Dram cures Fits of the Mother to a Miracle. A volatile Oil drawn from the Brain of the Goat, and well reckified, is compar'd with Goddard's Drops, that made fuch a Noise in the Reign of King for as much as it has greater Virtue than Charles the Second, and may very likely an-



fwer as well, fince that Medicine was no Liver is proper to ftop Fluxes of the Belly : more than an exalted volatile Oil, as this is, and so may be rank'd in the same Class.

15. Of the Shamoy or Rock Goat.

Pomet. T Pon our Mountains, and especially on the Pyrenees, we meet with a Kind of wild Goat, call'd, the Shamoy, or Rock Goat. There is a great Trade carry'd on with these Skins, by which they convey Oil, Wine, and other Liquids, out of the mountainous Countries, and of which they make several other Uses; for these Shamoy Skins being dres'd are converted into Gloves, Stockings, Drawers, Breeches, Waft-coats, Petricoats, Caps, &c. becanfe they may be wash'd as Linnen is, and be dyed into what curious Colour you please; as Orange, Lemon, Buff, Black, Green, Red, Blue, or the like.

This Shamoy is a very wild Animal, that is not to be met withal, but on the very Heights of the Rocks and Mountains; for which Reason the Latins call him Rupicapra, or the Rock Goat, and he mostly feeds upon the Herb we call Leopard's Bane. Sometimes we find in the Bladder of these Animals a Stone of different Colours and Sizes, which is call'd German Bezoar, because the Germans esteem this not inferior in Vertue to the Oriental Bezoar.

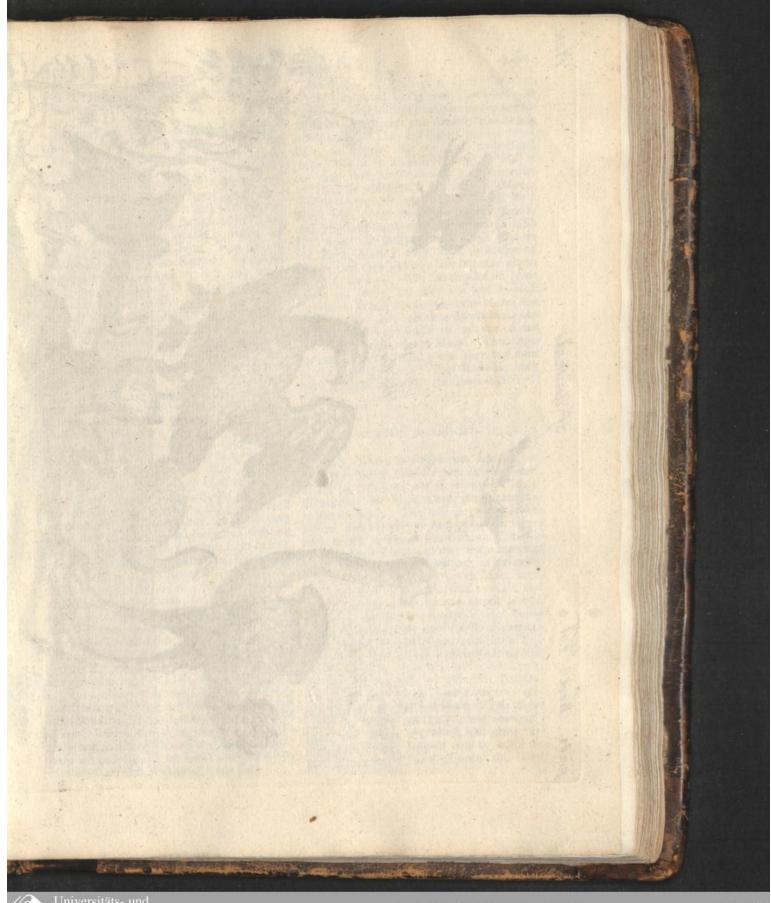
The Shamoy is of the Size of the common Goat; his Horns are fmall, black, bent forwards, and very sharp; the Tail not above three Inches long; they have large Eyes, and never frep but on the Tips of their Toes; they are coated like a Faun, and have a Streak running all along the Back.

Rupicapra, or the Rock Goat, is a Lemery, wild Goat, no bigger than the common Kind, which frequents the Rocks and high Hills; as the Alps, Pyrenees, &c. The Horns of this Animal are oddly turn'd, for they rife upright first, and then wind forward like a Hook: They feed upon the Plants that grow on the Sands and Tops of the Rocks; the Chief of which is the Doronicum Romanum: The Male is call'd, in Latin, Dama, being a very thy and timorous Creature; both the He and She afford their Blood allays Vertigo's : The Fat is excellent for Ulcers of the Lungs and Phthificks, being taken in Milk; the Gall dries up, and wafts away Films and Cataracts in the Eyes.

16. Of the Shagreen.

CHagrin in the French, or what is call'd Shagreen in English, is the Pomer. Skin of an Animal very common in Turkey and Poland, which the Turks and Poles make use of to carry their Baggage; as in other Parts they do Mules, Horses, &c. When this Animal is dead they take the hinder Part of his Skin and hang it in the Air, after having strewed it, when raw, with Mustard-Seed: They leave 'em thus expos'd to the Weather several Days, then take 'em in and tan them; and when they are dress'd export them. This Skin is very hard when dry, and soft when steep'd in Water. It is pretended, and I have been affured, that that which makes this Skin fo bard, is because this Animal fits down and refts upon his Buttocks. They bring two Sorts of Shagreen from Turkey; to wit, the grey or alh-colour'd, which is the best, and the white or Salted Shagreen.

Chuse your Shagreen Skins of right Turkey, or Constantinople, as being much better than those of Algiers and Tripoli. There come fome likewife from Poland, which you ought not to meddle with, because they are too dry, and will not take in the Alum when they come to be dy'd: Likewise chuse the largest, fairest, and evenest Skins, with a little round Grain well form'd, with as few Places altogether fmooth as possible: These of a large and uneven Grain, being less saleable, tho' no less fit for Use. The Use of this Shagreen is very universal for all Sorts of Pocket Utenfils, Watch-Cases, travelling Furniture, and the like. They may dye this Skin of what Colour they please; but the most common are Black, Green and Red; the most beautiful and dearest is the red Colour, because of the Vermillion and Carmine with which it is dyed. You may know the true Shagreen from the Spanish Leather made Abundance of volatile Salt and Oil. The into Shagreen, because the last is neither so







rough nor so hard; but will wear smooth, which the True will not.

Besides the several Parts of Quadrupeds already describ'd, we sell Bears-Grease and Tallow, which are brought from the Mountains of Switzerland, Savoy, and Canada; the Greafe, to be good, ought to be fresh, or new melted, greyish, gluey, and of a ftrong ill Smell, of a middle Confiftence, that is to fay, betwixt hard and foft; and meddle not with that which is white and hard, being mix'd with Suer. This Fat, or Greafe, is a Sovereign Remedy for curing cold rheumatick Humours; it is also much valued for eafing Pains of the Gout, by rubbing the afflicted Part, and to make the Hair grow; it being esteem'd admirable against Baldness, especially when incorporated with Bees in Powder and Nut Oil. As for the Bears Tallow, there is but very little of it brought into France, it being but little used, and that only by those who will not come up to the Price of the Greafe.

We fell likewise the Grease of the Badger, as very fovereign in nephririck Cases, and Sciatica Pains; so we have also Pencils made of the Badger's Hair for the Painters Ufe. This Creature is about as big as a Fox, but shorter and thicker; the Skin is hard, rough, and has rugged harsh Hair upon it, of an intermingled grifled Colour, fometimes whiter, sometimes blacker; the Back almost black, the Belly almost white, the Teeth very sharp, the Tail short and hairy, of different Colours, long snouted, has short Legs before, yet shorter behind, little Ears, small Eyes, sharp Claws, and is a Beaft commonly very fat, and of a strong stinking Smell; the whole Length of him, from the Snout to the Tip of the Tail, is not above two Foot and a Half.

The Liver and Bowels of the Wolf dry'd, are recommended for the Cure of all Diferences arising from the Liver and Bowels, particularly the Colick. We also sell the Grease and dried Lungs of the Fox; the last are esteem'd excellent against Coughs, Asthma's, Phthisicks, Wheesings, Hoarseness, Shortness of Breathing, and all other Diseases of the Lungs: The Grease is admirable for the Ear-Ach, and to rub the Limbs of such Persons as are subject to Convulsions, Palsies, Tremblings, and Weakness in any Part.

There are the Cods of a little Creature brought us, call'd, in the American Islands, a Musk Rat, because of its Resemblance to our common Rats, except that the West-Indian are much larger : They fell thefe Cods for Musk Cods, to People that do not understand them; but it is an easie Matter to find it out, fince these are no longer or thicker than a Child's little Finger. The Musk Rats, according to Father Du Tartre, have the same Shape with ours, but are so much bigger, that one will out-weigh four of ours: The Hair upon the Belly is white, and that on the Back, black; they fmell fo ftrong of Musk, that they perfume all the Air about them, as they go. The Inhabitants of Martinigo eat 'em; but they are forc'd, after they have skin'd them, to leave them one Night in the Air, and then throw away the first Water they are boil'd in, to take off the too firong Scent of the Musk. These Rats are natural to the Island; and they had none of the common Kind, 'till of late that they were brought thither by the Ships that trade

17. Of the Offrich.

THE Offrich is a Bird that has fhort Wings, and is much valued for its Feathers, which serve as Ornaments for Hats, Caps, Beds, and Canopies of State. The Offriches are taken in Africa, and are very common in Peru, where they march in Flocks like Cattle: The Natives eat their Flesh, and their Eggs are good Mear, tho' hard of Digeftion: This is the largest of all Birds, being seven Foor high, and fometimes more; his Head is small, depress'd, or flat crown'd, and almost like a Goose's; the Bill is compress'd, and being compar'd to the Body very fmall, of a triargular Figure, Horn Colour, and black Tip, great Eyes, with a Hazel colour'd Iris; the Head and Neck, almost as far as the Breast, are bare of Feathers, as also the Thighs; the Head and Neck cover'd with a certain Down, or thin fet Hairs: The Sides under the Wings and Thighs are absolutely bare; the Wings are small, and altogether useless for flying, design'd only to assist the Bird in running. The Feathers of the Back,

in the Cock, are Coal black; in the Hen and Gravel, to help 'em to grind their Food, only dusky, and so soft that they refemble a Kind of Wool; the Wing-Feathers beneath, are of the same Colour with those in the Back; but above, in their upper Part, they are purely white: The Tail is thick, bushy and round, not as in other Birds, spread out in Breadth. The Feathers in the Cock being whitish, in the Hen duskish; its Neck and Legs are very long; it wants the back Toes, and has but two others; the one Toe is five Inches and a half, and the other eight Inches long, cover'd with great dif-joynted annulary Seales; it lays very large Eggs as big as a Ball of four or five Inches Diameter, and that has Meat enough in it to ferve feven or eight People, contain'd in a hard ftrong Shell, which they cover in the Sands, and forfake never taking any more Care of 'em, but leave them to be hatch'd by the Heat of the

They have diffected feveral Offriches in the Academy of Sciences; the largest whereof was feven Foot and an Half high from the Ground to the Top of his Head. The Eye is oval like a Man's, having large Eyebrows; and the upper Eye-lid is moveable contrary to the Generality of Birds, with an Eye-lid within, as a great many Brutes have ; she Bill is short and pointed; the Tongue is small and adhering, as that of Fishes; the Thighs large, fleshy, and without Feathers, cover'd with a white Skin, a little reddish; the Legs are cover'd with great Scales; the Feet cleft, having only two Toes, with large Claws. The Offrich carries the Quill exactly in the Middle of the Feather, upon which Account the Egyptians represented Juflice by it. When we come to examine the Infide of this Creature, we meet with five Diaphragms or Partitions, which divide the Trunk into five Parts; four of which are placed straight up and down; and a fifth is situated a-cross, or thwart the Ventricles, which was found full of Herbs, Hay, Barley, Beans, Bones and Stones, whereof he had one of the Bigness of a Hen's Egg: They found in one leventy Pieces of Money; the most Part of which was wasted and gone, perhaps by their mutual Attrition, one against the other, rather than by Corrosion: For it is observable, that the Offriches swallow

and not to nourish 'em, or to digeft it, as the Ancients believed.

The Flesh is fat, and said to cause an Appetite, and restore in Consumptions. The Ventricle, or Skin of the Stomach, ftrengthens and affifts Digeftion; the Fat is hotter than Goose Grease, and may be us'd with great Advantage to diffolve hard Swellings, relax contracted Nerves, and ease Pain. Besides the African Offrich, already describ'd, there are three other Sorts, to wit, the American, the Emeu, or Caffowary, and the Dode.

The American Offrich is somewhat less than the former; their Legs are long, and they have three Toes on each Foot, one of which stands backwards; its Head is like that of a Goofe, the Neck twenty-four Inches long, which they carry bended like a Swan or Stork; the Bill is compress'd, or flat, but not very broad, two Inches and a Half long, the Wings small, and not fit for flying, which they only affift themselves withal in Running, which they do with that Speed, that a Grey-Hound can scarcely overtake them; the whole Body is cover'd with grey Feathers, which are longer and more beautiful on the Back; its Tail is like that of the former, but ftretch'd forth longways; it feeds on Fruit and Flesh, but will swallow any thing you offer it. The Flesh is reckon'd among the Spaniards as good Food.

The Emeu, or Cassowary Ostrich, has a horny Crown on the Top of its Head, near three Inches high, of a dusky yellow Colour, which is reported to fall off at Moulting Time, and to grow again with the new Feathers; the Head and Neck are bare, or only cover'd with a hairy Down; the Skin being of a purplish blue Colour: In the fore-Part of the Neck hang down two membranous Wattles, or Lobes of Flesh, two Inches long, of a Vermillion red; as is also the lower Part of the Back-fide of the Neck: Its Bill is of a moderate Thickness, and ftreight, and four or five Inches in Length; the Neck is about thirteen Inches long; the Length of its Body, from Breaft to Rump, three Foot; the Breadth two Foot over; the Thighs, with the Legs to the Feet, is 17 Inches long; the Legs are thick and ftrong, and almost five Inches about, cover'd Iron for the same End that Birds do Pebbles as it were with broad Scales; it has thick

hard Feet, divided into three thick Toes, all flanding forwards, and wanting a back Toe, having very great Claws, almost two Inches long: It has some Rudiments of Wings, confifting only of five naked Shafts of Feathers, somewhat like Porcupines Quills, which commonly lye hid under the Feathers, covering the Sides, but it has no Tail; the Feathers covering the whole Body are all double; two coming out of the same Pipe or Stem, the upper somewhat the thicker, or groffer, the lower the finer and more delicate; it is faid to want a Tongue, because the Tongue cleaves to the Mouth as in Fishes; it feeds upon Fruits, Flesh, Bread, Hens-Eggs, Oranges, and almost any thing that is offer'd it; its Eggs are great and fair; one being measur'd length-ways was fifteen Inches, and cross-ways twelve Inches, or more; of a greenish ash Colour, thick set with small

Protuberances of a deep Green. The Dode, call'd Gallus Gallinaceus, is said to be of a middle Size, between an Ostrich and a Turkey, agreeing much with the African Ostrich, if you consider its Rump, Wings and Feathers; but in Regard of the Shortnels of its Legs; it looks like a Pigmey among them; it has a great Head cover'd with a Membrane, resembling a Hood, great black Eyes, prominent fat Neck, a Bill ex-traordinary long and strong, not flat and broad, but thick and of a blueish white, sharp-pointed and crooked; its Body is fat and round, cover'd with foft grey Feathers, much like an Offrich's; on each Side, inflead of hard Wings, Feathers, or Quills, it has finall soft-feather'd Wings, of a yellowish ash Colour; and for a Tail, it has five small curl'd Feathers of the same Colour; it has yellow Legs, being about four Inches in Compals, and something more than four Inches in Length, cover'd with thick Scales; it has three fore Toes, and one back Toe, near an Inch and an half long, and its Claw above an Inch in Length; it is a flow paced ftupid Bird, and easily taken. The Flesh, especially of the Breaft, is fat, esculent, and has so much of it, that three or four of them will fometimes be enough for a hundred Men; but it is commonly falted, and stored up for Sea Provisions; it swallows Stones, and such like hard Substances, which shows it to be of the Offrich Kind,

18. Of the Eagle.

THE Ragle is a large Bird of Prey, and the fiercest and Pomet. strongest of that Kind, being scarce distinguishable from the Hawk, but only in Bigness, or from the Vulture, but by its long, black, crooked Bill; besides which its Legs are yellow, cover'd with Scales. This Bird is very well known in almost all the Parts of Europe, as well as other Parts of the World, of which there are several Sorts; as the golden Eagle, the black Eagle, the white tail'd Eagle, the Brasilian Eagle, the Sea Eagle, and the Vulturine.

The Flesh is hard, fibrous, and not fit for Meat or Physick; the Brain is faid to cure the Epilepsy, the Testicles to procure Lust, and the Gall is the strongest of all Galls, and helps all the Diseases of the Eyes whatsoever; as Clouds, Mifts, Films, Pearls, Blood-fhot, Ulcers, &c. The Fume of the Dung is faid to bring forth the Fatus, and outwardly applied, ripens Tumours and Apostems. The Eagle is a very salacious Bird, yet lives. to a very great Age: But of all the Parts of this Bird, there is nothing fold in the Shops, but a Kind of Stone that is found at the Entrance of the Holes where the Engles build their Nests to preserve their Young from Lightnings, and other Injuries of the Weather. This Stone is brought us by the Pil-grims of St. Jame's in Galicia. The Eagle Stones, most esteem'd, are those which are flat, blackish, and that rattle well; that is to fay, which make a Noise when shak'd at your Ear, which can proceed from nothing elfe but some little Stone contain'd within it; great Virtues are affign'd to this Stone, efpecially to procure easie and fafe Labour, and to prevent Miscarriages. Some write, that the Eagle hunts for this Stone to the very Indies, in order to hatch, or bring forth their young Ones.

19. Of the Vulture.

THE Vulture is a Bird of Prey Pomer, and has so quick a Scent, that it will small a dead

a dead Carkass many Miles: Many are of Opinion that he differs not in Kind from the Eagle, but only in some other Characteriflicks, as that the Head and Neck of the Vulture are for the most Part bare of Feathers, and are only cover'd with a fhort white Down; that a little under their Throats they have about a Hand's Breadth cover'd rather with Hairs, like those of a Calf, than Feathers; that the Craw hangs down like a Bag before the Stomach or Breaft; that the Bill being streight for two Inches, does then grow crooked: That among all rapacious Birds, none fly together in Flocks but the Vulture: And laftly, That the Infides of the Wings are cover'd with a foft Fleece of Down, which is proper only to the Vulture.

There are several Kinds of Vultures describ'd by Authors, as the Ash-colour'd, the Black, the Chefnut, the Hare Vulture, the Golden, the White, the Brasilian, and the Vulturine Eagle: The two First differ in nothing but their Colour: The Chefnut colour'd is less than an Eagle, having the whole Plumage of its Body of the Chefnut Colour; the Feathers of the Crown are very short, if compard to Eagles, which is the Reason fome have thought them bald. The Hare Vulture is so call'd, from its Preying upon Hares; this is inferior in Magnitude, and has not a Breast so resulgent as the Golden Vulture, which has many Things in common with the Golden Eagle, but is every Way, or in all its Parts greater. The Brafilian Eagle is a rapacious Bird, of the Bignets of a Kite, having a long Tail, and Wings longer than it: The whole Plumage of the Body is black, with a little Tawny here and there mix'd; it is headed almost like a Turkey, having a wrinkled Skin; its Bill is long, hook'd at the End, and tharp, in the Middle whereof is one large Hole for the Nostrils, transversly fituate; Eyes almost of a Ruby Colour, with a round black Pupil: Its Flesh ftinks like Carrion, for it feeds chiefly upon dead Carcasses, is ill-look'd, always lean, and never satisfied.

The Vulturine Eagle, tho call'd so by the Naturalists, has nothing of the Eagle in him; for its Shape is unusual; the Bill is streight almost towards the Middle, and towards the Point bent into a remarkable Hook, after the Manner of Vultures, white towards the

Head, the rest of it black, the lower Chap wholly white, the Iris of the Eye is not so fiery as in Eagles, but whitish, and the Pupilla black; the whole Head whitish or grey; the Neck half Way from the Head almost bald, fer with a few white Feathers, and some small ones, like rough curl'd Hairs, higher than the rest of the Plumage, as if they were fine long Briftles; on the Back as it were a Kind of Hood, reaching to the Middle thereof, and ending in a sharp Peak, resembling a Triangle; the Colour of the whole Plumage of a dark Chefnut, inclining to black: The Fat is the only Thing belonging to the Vulture Kind that is fold in the Shops, and us'd to anoint withal in Palfies and other nervous Cafes.

20. Of the Frigat.

"HE Frigat is a Bird which the Indians call so, because of the Pomet. Swiftness of its Flight: The Body of this Bird is no bigger than a Pullet's, but its Stomach is very fleshy. All the Feathers of the Males are as black as Ravens; the Neck is pretty long, the Head small, with two great black Eyes, and the Sight more pierceing than the Eagles; the Bill is likewise pretty thick, and altogether black, about fix or feven Inches long, and streight to the End, where the upper Beak is crook'd like a Hook: The Claws are very short, being divided into two, as the Vulture's, but are entirely black; the Wings are so prodigiously great, that it is seven or eight Foot from the Extremity of one Wing to the other, and that not without Reason, fince his Wings are fometimes imploy'd to carry him above three hundred Leagues from Land. It is with a great deal of Trouble that this Bird can raise himself upon the Branches, but when he has once taken his Flight, he keeps his Wings extended almost without any Motion or Fatigue. If Sometimes the Weight of the Rain, or the Impetuolity of the Winds force him, he mounts above the Clouds, and Soars beyond Sight in the middle Region of the Air; and when he is at the highest, he does not forget where about he is, but remembers the Place where the Dorado, or Gold-Fish, gives Chase to the flying Fish, and then he throws himself down like Light- great Esteem throughout all the Indies, as a ning; not so as to strike upon the Water, for then it wou'd be difficult for him to rife again; but when he comes within twelve or fourteen Paces, he makes a large Turn, and lowering himfelf as it were infenfibly, 'till he comes to skim the Waters where the Chace is given, in passing he takes the little Fish in its Flight along the Water, either with his Bill or his Talons, and fometimes both together.

The Male carries a great red Comb, like that of the Cock, not upon his Head, but under the Throat; and this Comb does not appear but in the old ones; the Females have none; but they have Feathers that are whiter, especially under the Belly. As the Herons in Europe have Hern-shaws, which are certain remote Corners of Woods to which they retire, as Places of Refuge, where they meet, rooft, preserve themselves and multiply; so these Birds, for a long Time, made a little Island, near Guadeloupa, their Habitation; in like Manner as the Rooks, have a Rookery, where all of that Species thereabout come to rooft at Nights, and build their Nests in the proper Season. This little Island was call'd, the Isle of Frigats, and bears the Name to this Day, tho' the Birds have left the Place; for in the Years 1643, and 1644, several People chas'd them fo feverely, that they were forc'd to a-

bandon the Isle. The Revernd Father Du Tertre, Apostolical Missionary in the Antilles, mov'd by the large Commendations given to the Oil drawn from these Creatures, by Means of two or three People, took more than one Hundred of 'em in less than two Hours Time: They furpriz'd the large ones upon the Branches, or in their Nelts; and as they rife with a great deal of Trouble to take Wing, it was an easie Matter to beat 'em down with long Sticks. There was not one of those, says this Author, that flew away, but what were fick at the going off, so that they vomited two or three Fish a-piece as big as Herrings, half wasted: He believes they discharg'd themselves in order to fly away with the more Ease. The Oil or Fat of Sciatica Pains, and for all others, proprecious Medicine.

21. Of the Nests of certain Birds.

HE Nefts which the People of Siam have brought into France Pomet. for many Years, are nothing but the Excrement of certain Birds call'd King's Fishers, which the French call Aleyon, and the Latins Alcedo and Avis Posideonis, which are very common in France, especially in Normandy: These Birds frequent the Sea Coast, Rivers, and watery Places; they are of the Size of a Swallow, or a Quail; their Feathers and their Bills are of various Colours, as Green, Red, and Blue; and they have a great many several Names; as the Alcyon-Martin, the Martin-Fisher, the Martlet, the Bird of St. Martin, &c. These Animals usually build their Nests among Reeds, or upon Rocks. The Indian Kings-Fishers, especially those about the Kingdom of Camba, when they are going to breed, throw out of their Bills a white Froth, with which they build a Nest the Bigness and Shape of a round Dith, where they lay their Eggs, and hatch their young Ones: These Netts are of a white Colour, tending to Yellow, and of a hard dry Confiftence; the Tafte being infipid, and almost like that of Vermicelli.

The Chinese are such Lovers of these Birds Nefts, that it is almost incredible what Quantities are lent to Pequin, the Capital of China; they are usually valued at fifty Tabers the hundred, which is about fix hundred Livers, or filip Pounds of our Money. They affign mighty Vertues to it, as that it nourifies extreamly, being boil'd in Water with a Fowl and Ginger; they reckon it very good for curing Pains at the Stomach, and for restoring those that are in a languishing Condition. These Nests were formerly little known; and it was believed that they were made of the Froth of the Sea; but fince the People of Siam have brought 'em us, they are become very common. There are befides, other Parts belonging to Birds which we fell, and drive a confiderable Trade in ; these Creatures is a sovereign Remedy for as Quills, Pensils, and Down from the Swans. Geefe, and other Fowl, which are brought ceeding from a cold Cause; it is held in us from Gascoigny, Normandy, &c. as also

the Swallow Stones, which are like little Stones taken out of Crey-fish, and are us'd to take out any Filth or Dirt that falls into the Eyes.

22. Of Cantharides.

Pomet. THE Cantharides are Flies which the Pealants about Paris bring us, and which they find in great Plenty upon Afth Trees, Rofe-Bufhes, and on the Blades of Corn; the Wings of these Flies are of a fine shining Green to look upon, because of their blue Colour mix'd with a Gold Yellow; but the Whole is venemous, and of a serid Smell: They have a large Sort in Italy, but they are of no Use. Chuse such as are new, dry, and whole, without being crumbled to Powder.

The Use of Cantharides, at this Day, is chiefly external; but there are fome Countries where they are frequently given inwardly, by fuch as understand how to prevent their dangerous Effects otherwise: They are of very great Service to the Apothecary, not only for the Bliftering Plaister, that is always ready compounded by them, but to use fresh upon all Occasions where they are required. They use to kill the Cantharides with the hot Fumes of the harpest Vinegar, enclosing them in an earthen Veffel, having its Mouth cover'd with a fine thin Cloth; afterwards they dry them, and putting them up in wooden Boxes, they keep them for the Space of two or three Years. These Cantharides, tho' rarely prescrib'd inwardly, are very efficacious in the Hands of a wife Phyfician, who knows how to correct 'em, and make them specifical in a Gonorrhaa, Suppression of Urine, Ulcers of the Bladder, Stone, Gravel, &c. They are most frequently adminiftred in a Tincture mix'd with Spirit of Wine, Camphire, &c. but to promote the Expulsion of Urine, nothing can be more fafe than the Anointing the Perincum, or lower Part of the Belly, and the Region of the Navil, with the Oil, wherein Cantharides have been boil'd.

Some at this Time use all the Parts of the Cantharides promissionously; but the Head, Wings, and Legs are to be cast away: If a Bliftering Plaister made of them be ap-

plied to a tender delicate Body, or upon most fine skin'd Women, it will cause a Strangury, or Scalding, and Heat of Urine, which is eafily remedied by drinking of Milk, Barley-Water, or Emulsions of Almonds, or the cold Seeds. The volatile Salt of the Cantharides is one of the most powerful Diureticks, that is to be met with in the World; fo that some Authors affirm it is able to break or diffolve the Stone; it is so pungent and biring, that it is apr to raife little Blifters upon the Tongue, when raffed, so that it is not to be taken alone, but in some smooth oily Substance, or other proper Vehicle; Dose from one Grain to three, being more gentle, and less hazardons than the Cantharides themselves.

23. Of Bees.

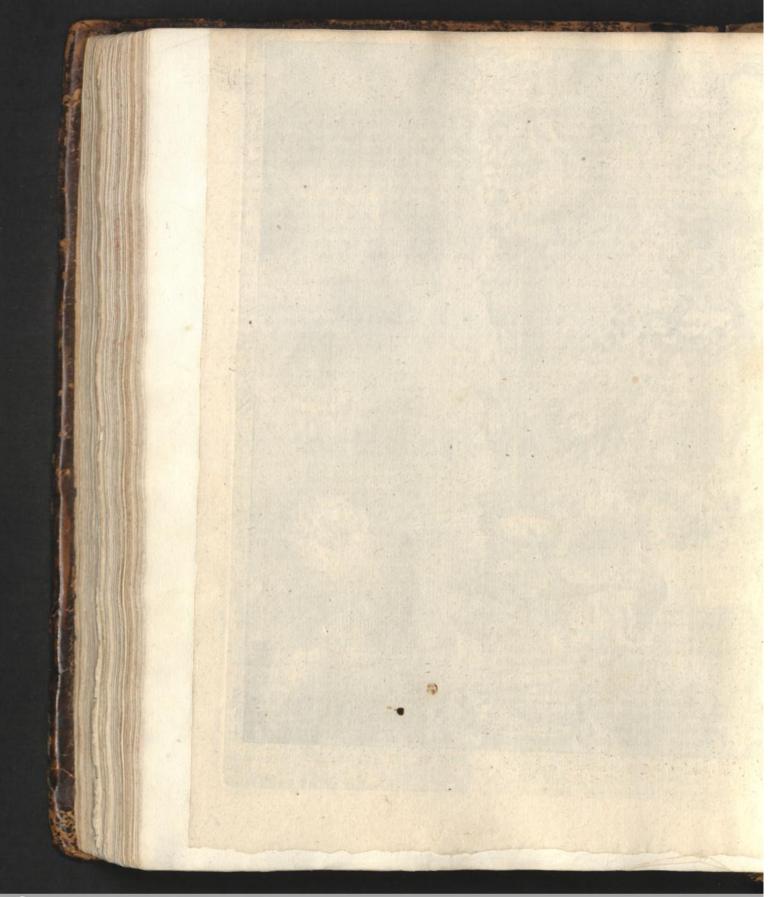
THE Bees, or Honey-Flies, are little Insects; the Nature and Pomes. Conduct of which is no less wonderful, than their Labour is necessary and useful, since they furnish us with Honey and Wax; both which are very considerable Commodities: But as I never kept Bees myself, I have been oblig'd to have Recourse to a Friend, who communicated to me what, by many Years Experience, he had observ'd concerning them, that I might compare it with what had been said by others upon that Subject.

Some Naturalists will have it, that the Origin of Bees comes from the dead Lyon and the Ox; and that instead of Worms that usually breed in the Bodies of other Animals, the Bees generate in the Bodies of the Lyon and the Ox. This Extraction appears to me to be very wide of Truth, agreeable to a particular Experiment made by one, of what Virgil says in his fourth Bucolick; which he found altogether false: The Fact is related in a little Tract supposed to be write by a Country Parson, who says thus:

"Virgil appear'd to me to be an Author of Solidity enough to ground a probable Opinion upon, and whole Credit was sufficient to induce me to make a Tryal, which I unluckily did, and thought I had poison'd the whole Village; for I caus'd to be strangled a young Bull, Bina cornua ferens, giving him a thousand Stroaks with

" a Cudgel,





" great wooden Tub, with four little Windows open to the four Quarrers of the Wind, in order, as Virgil fays, to produce Thousands " of Bees. The King is faid to be bred from " Stomach, and the Drones from the Guts; " the King makes War upon his Neighbour-" ing States, both by Sea and Land; he mar-" shals his Army in Battalia; he rewards his " Captains and Generals; he punishes the " Cowards with Death, and makes the " Rogues and Deferters run the Gantlet; " belides a thouland old Womens Tales, " to this Day; but instead of the Swarms " of Bees, which I expected from the Body " of this Animal, there were Thoulands " of Maggots producid, with an infufferable " Stench, that I thought won'd have in-" feeted all the Neighbourhood; and the " Stink was fo great, that all the Country " fancy'd they were threatned with the " Plague". You may fee from hence how wide Opinions are; and as I am not a capable Judge, I shall content myself to make fome Observations, founded upon Experience, as you will find in the following Relations; and those who defire to be instructed further, must consult the best Authors, who have writ upon this Subject.

Observations upon Bees, according to an Account deliver'd me by a particular Person.

The Production of Bees, at first, is, that they breed from a Kind of little white Bud or Sperm, that is posited at the Bottom of their small Holes or Sockets, that make up the Honey-Comb, which the Bees make in their Hives, and which they begin at the End of the Hive. This Sperm, affifted by the natural Heat of the Bees, encreases and forms a Kind of white Maggot, which at the Beginning of its Formation, has no Refemblance of the Bee, but in a Month's Time it becomes like one, of the fame Colour with a Maggot, and continuing so a little while, it grows black, and comes out of the Soc-

" a Cudgel, as he was dying, which was the End of October; if the Hive be in good " more than I cou'd warrant from the Poet; Condition; and they swarm in May and " for his Burial, I took the bruis'd Members, June; but the May Swarms are more valued, " with the two Horns, and put them into a because they are stronger, than those that are later; because the Season is more favourable, and the Heat more temperate; whereas the Swarms of June cannot be so successful, by reason they are usually attack'd with too " the Brain, the working Bees from the much Heat and Dryness at first; so that they can neither supply themselves sufficiently with Provisions for their present Occasions, nor lay up Stores for Winter.

How the Bees work their Honey?

This I have observ'd, with particular Care and extraordinary Application, having spent " which several People relate, and believe a great deal of Time, watching the Hives every Hour of the Day, to fatisfie my Curiofity in feeing the Bees work, having provided them Glass Hives for the Purpose. Towards the End of Winter, as oft as it is gentle Weather, as it happens sometimes that the Air begins to free itself of the great Coldness in the Month of February, the Bees venter out of their Hives, range the Fields, and bring home Wax of different Colours; as white, yellow, lemon, red, which fticks like little Lentils, on the hind Part of their Thighs; and which when entred into the Hives, they industriously quit themselves of, and form their Holes or Lodgments, which they labour to compose of fix Sides, that are made thinner and finer than Talck, and almost as transparent. It is observable, that the fame Hollows, or Sockets, are those wherein they deposite their Sperm, whence are generated the other Bees, and which are fill'd with Honey, as they become empty by the Production of the young Bees which they enclose: They collect their Honey-Comb, or Wax, from all Sorts of Flowers, but the Rose, the Orange, the Pease Bloom, and the Daify Flowers.

> Of the Manner how the Bees gather their Honey, and the most proper Times to take it.

The best Season of the Year for the Bees to gather their Honey, is towards the latter End of April and May, for then they go out by Break of Day, when the Air is gentle and ket. The Bees generate from February, to ferene, and gather the Dew, which is more plentiful and common at that Time than cond it is yellow, and the Third brown; any other Part of the Year; they return al- but when older it turns black, is barren, and so as quick as they can into their Hives, to without Production, and then the Bees cease discharge, into the Holes assign'd them, the to make Honey, and breed any more Swarms. Honey-Dew they have gather'd from the Simples of the Field, and which they have fuck'd into their Bodies, and throw it up again, as Pigeons do the Food wherewith they feed their Young: And when they have fill'd a Hole, or Socket, with this Honey, they close, Year another, according as they are found and feal it up with a small Piece of white full, and instead of those that are full of Wax, to prevent it from flowing out again.

the Dews are not fo plentiful as during the Months of April and May, it happens still there are some dewy Mornings in which the Bees Honey; I have been inform'd of this by seare not less industrious than at other Times, to make their Harvest; and likewise it falls out fometimes that the Fruits of the Earth, as the Corn, and the like, are damag'd by certain Rains, Blites, &c. which are favourable for other Sorts of Flyes, but on the contrary are

pernicious to the Bees.

It is observable, that when they swarm, and that the young Ones which compose the Swarm are come out of the Hive, they make as it were a Cloud of Flyes in the Air, that looks black, and is form'd, as they march out, into Squadrons and Battalions, like an Army engag'd; they follow close their Leader, or the principal amongst them, who is much longer than the others, and whose Wings are much shorter, and which is of a reddish Colour: When they lose this Leader, they become Vagabonds, and this is a certain Loss to the Proprietor. When the Swarm are got out, they usually affemble together, and lodge upon some shady Branch, rather than in any other Place; and their Eggs; which together with the Spiders being thus closely knit, it is then proper to hive them, for fear they fhou'd defert; for the Hive. thou'd they stay long 'till the Sun shine upon them abroad again.

I have Hives made of two Pieces in Form of a Barrel or Sugar Loaf cut in the Middle; fo that I need not deftroy the Bees, and I take these Hives from Year to Year, in lifting up one Year one Part, and the following Honey I put empty ones; and one very re-Towards the End of June and July, that markable Thing is this, that Bees delight much near Water, and watry Places, using a great deal of it in affifting them to make veral of my Friends, and particularly by an Officer of the Kings, who having Bees in a Garden at Argenteuil, where there was a Fish-Pond, the Bees used to go, and come constantly to take up Water to carry to their Hives; upon which I ask'd him, what he thought of it? And he told me that it was a Thing he had always observ'd since he kept

Care must be taken not to have any Space or open Holes in the Top or Bottom of the Hive; for July and August the Butterflies breed, enter their Hives, and engender large, thort, hard Maggots, which lay the first Steps for Spiders Webs, which joyning the Combs together, produce a Heat, so that in two or three Days the Bees will be gone, and quite forfake it after having pillag'd it : These Maggots, tho' but few at first, will multiply to, that in lefs than five or fix Days they will not leave one Ounce of the Honey-Comb behind, but instead of it leave Webs that are form'd, fill up the Whole of

It is further observable, That amongst them, they will then separate and fly away; the Bees there are Drones which will not go and when they are hiv'd it is proper to let into the Fields at all; or if they do, which 'em in the Shade from the Heat of the Sun, is not but from Noon 'till about four a-Clock, which might melt their new Wax, and incite they bring nothing home with them, but on the contrary eat the Honey made by others; It is also to be observ'd, that the Bees and the industrious Bees kill the Drones, Wax, for three Years together, is very ge- which are much larger and blacker than the nerative, and plentifully productive in Breed- others, and have no Stings; but when you ing of the Bees; and that the Age of the Ho- press their Tails there appears two little ney-Comb, is very easie to be known by its Horns like transparent Skins, which are yel-Colour; for the first Year it is whitish, the Se- low at the End. In Poland and Moscovy the

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Bees make their Hives in the Trunks of old Trees, and afford Plenty of Honey without any Affistance, which is contrary to the Nature of ours. Upon this, Munster and Guyon relate a surprizing Thing: A Peasant falling into one of these Trees where the Bees made Honey, in a large Forest in Moscovy, as he was fearthing for the Honey-Comb, and not being able to get out because the Hollow of the Tree was too deep and wide, a Bear providentially coming to this Place to feek for Honey, the Pealant immediately catches the Bear by the Paw, and was drawn out from the certain Danger he was in of perishing in the Tree.

Apis, or the Bee, is a Sort of Lemery. Fly that makes Honey and Wax, and is suppos'd to take its Name from being a Fly without Feet, which is not so in Fact, for it has Feet, but carries them close to its Belly, being difficult to separate; it has four Wings; the Tongue is long, which it carries usually out of the Mouth; it has fmall Teeth, and the Sting cleaves to the Belly. The Ancients pretended, that the Bee was generated from the Lyon or the Bull; but the vain Tryals several have made are sufficient to confute such a Notion, as being no other than the Fancy of the Poet : Indeed, we read in the Holy Scripture that Samfon found in the Carcais of a Lyon, that had been kill'd some Days before, a Swarm of Bees and Honey, but they were never generated from the Flesh of the Lyon.

The Origin of 'em is certainly the same as that of other Flies, but only their Production is flower, tho' from the white Maggot they become a perfect Bee in a Month's Time. The large Bee which they call the King, because of the others that attend and follow him, is a Male Bee that is capable of fupplying a great many Females, after the fame Manner as one Bull fupplies all the Cows of a Village. This Bee is much larger than the rest, but he has shorter Wings; his Colour is reddish, instead of being brown, as all the others are. The Bee fucks the Virtue of the Flowers, and receives it into her Pouch or Throat, from whence the difgorges it into the Hive, in order to work ir up to Honey; the carries also the Wax sticking to her Thighs, the whole Kind yields a great deal of volatile Salt and Oil: They are proper,

being dry'd, to make the Hair grow; being reduc'd to Powder, and mix'd with Oil of Lizards, they make a Kind of Liniment, wherewith they rub the Head. The effential Salt of 'em is so volatile, that it is difficult to keep it in a dry Form; it is a most subtil and penetrating Thing, and one of the most powerful Diureticks and Diaphoreticks.

24. Of Honey.

WE have three Kinds of Honey in France brought from feveral Parts, viz. White Honey, which is made without Fire, which some call Vingin Honey, as well because it flows of itself, without preffing, as because it is made from the first Year's Honey Comb. The second Sort is made of all Kinds of Honey-Combs put together, after being well cleans'd, in a Bag, by Means of a Press, from whence there flows a white Honey, but very different from the former; not only because it is not so white, but because the Taste is not fo agreeable. The Third is the Tollow-Honey, which is made over the Fire in a Kettle, with a little Water, and then put into Bags, and squeez'd. The Tellow Honey is more or less fine, according to the Degree of Heat it receives; for if it is too much heated, instead of being of a fine Yellow, it will be brown, and of an ill Smell. They pretend likewise, that the Honey is less beautiful and good, according to the Quantity of Water which is put into it to heat it.

The finest and most esteem'd Hiney, is that of Languedoc, which is white; especially that of Corbiere, a little Borough, about three Leagues beyond Narbonne, which is the Place from whence comes the whitest and pureft Honey, commonly call'd Narbonne Honey; tho' fallely fo, for at Narbonne, they do not know what you mean by Narbonne Honey, but only that of Corbiere; but the Name has been given to it, because Narbonne is a great City, and much better known than Cojbiere, which is but a small Place. This true Honey, to have its proper Qualities, ought to be new, thick, candied, and entirely like Sugar Royal, of a sweet piquant Taste, and a little aromatick. Next after this is that of other Parts of Languedoc and Provence, but



Very much different and inferior to that of which the Bee extracts, and receives into her Corbiere; not only because it is never so white, but because it is not so pleasant to the Tafte or Smell, being artificially difguis'd with Rolemary to give it the Tafte and Scent of the true pure Honey of Narbonne : The third and last Sort is the white Honey about Paris, and of the Country for twenty or thirty Leagues round, and which gives it the Name of Country Honey; and that is met withal fometimes fo good, that except the Tafte and Smell, it is scarce inferior to that of Corbiere, which may be readily granted, because the Tafte and Scent of Honey proceeds from the Plenty and Goodness of the Flowers with which the Bees are fed; and as Languedoc and Provence are warm Countries, and confequently full of aromatical Herbs and Flowers, as Thyme, Rolemary, Stachas, Sc. therefore the Honey is better, and of a more pleasant Smell, and more bought up, especially to make pectoral Prisans of, which is its chief Use; the Country Honey being principally imploy'd in the great Compositions, and to eat in Lent.

As to the yellow Honey, the best that comes to Paris, and the most set by, is that of Champagne; which to be good, shou'd be fresh or new, of a good Body, of a golden colour'd Yellow, the most candied, and least full of Wax that may be; the Fault otherwise proceeds from the ill making of it; but the True Champagne is of much the best Sale, and of more Virtue than all the other Honeys brought from several other Parts, as Tourdine, Picardy, and especially Normandy, which is ill scented, reddish, and of a very bad Sale, tho' yet it is more purgative than that of other Parts; and this Honey is very eafily known, both by the Colour and Smell; and likewise because it usually comes in Stone Pots, fuch as Butter comes in from Normandy: This Honey is very proper for the Apothecaries to make Honey of Roles, Vio-Ends this Honey ferves for, as to distil into a Water, Spirit, or Oil, which are reckon'd proper to make the Hair grow, and to take out Marks, Spots, or Freckles in the Face : Some likewise affign to the Spirit of Honey, well rectified the Power of diffolving Gold or Lead. Lemery.

Stomach to carry to the Hive, where the difgorges herfelf, and fills her Cell, which she has made in the Honey-Comb before, for that Purpole. There are two Sorts of Honey in general; one white, and the other yellow; the White is made of the first Year's Stock without Fire, or Preffing, which is call'd Virgin Honey; and the Second is preffed from the Wax, with Force, and by the Addition of Heat : The white Honey is finer, and more pleafant for the Palate, and confequently better for internal Ufes. The Yellow has a little more Acrimony than the White, and therefore is more laxative, and externally a good Deterfive. Raw Honey is apt to gripe and swell the Belly; but being clarified, it opens, cleanfes, nourishes, and restores in Consumptions, is pectoral, diuretick, and one of the best Opthalmicks in the World.

The feveral Preparations made of Honey, and commonly fold, are first clarified Honey, next the Spirit, Oil and Water, the Tin-Cture and Vinegar, with Mead, Metheglin and Hydromel. Clarified Honey is made with the Whites of Eggs; the Water, by putting Honey into a large Glass, or earthen Body, and diffilling in Sand with a gentle Hear, until acid Drops begin to come, then ceafe the Fire, and keep the Water for Use. To make the Spirit and Oil, take what remains in the Retort aforegoing, and put it into an earthen one, or Glass one coated; but let it be so large, that two Thirds of it may be empty; place your Retort in a Reverberatory Furnace, with a large Receiver, luring the Juncture; begin the Distillation with a small Fire, for about three Hours, to warm the Retort; then increase it by little and little, so will the Spirits come forth, with a little black Oil, and fill the Receiver with Clouds, continue the Fire 'till all is come over; then separate the Spirit from the black stinking Oil by Fillets, or the like. There are several other tration, the Spirit will be in a pretty Quantity, the Oil little and inconsiderable. The Spirit of Honey is an excellent Aperitive, cools the violent Heat of Fevers, quenches Thirft, and strengthens the Stomach, and may be put into Juleps, to give them a pleafing Acidity; it may be rectified by difti!-Mel, or Honey, is a compound- ling it in a Glass Cucurbit in Sand; what ed Body of divers Parts of Flowers, ascends first is Flegm; that which rifes last is

the

the strongest of all, and is us'd to cleanse old Ulcers, as the Oil is to scale rotten Bones.

Tincture of Honey is made of pure Virgin-Honey, mix'd with wash'd Sand or Bone-Ashes, whereon is thrown the best rectified Spirit of Honey; then let 'em stand in Dige-stion in a Cueurbie, having a slat Bottom, 'till the Spirit is ting'd of a golden Colour, which decant, pouring new Spirit upon the Fæces, fo long, 'till it will be no longer ting'd; mix the ting'd Spirits together, and abstract in Balneo Marie, 'till only a third Part remains, which is the Tincture, and one of the noblest Medicines for invererate Coughs, Phthificks and Catarrhs, from a Quarter of a Spoonful to a whole one. Mead is compos'd of one Part of Honey, to eight Parts of Water, well boil'd, and work'd up with Yest Blood-warm, or clarified with the Whites of Eggs, Shells and all: Some add Aromaticks; as Cloves, Nutmegs, Cinamon, Lemon-Peel and Ginger; others Alteratives, as Thyme, Marjoram, Mint, Balm, Rose-mary, Cowslip, &c. some Diureticks, as Sweet-Brar, Eryngo, Tamarisk, &c. and so every Person make it to their Fancy, whether for medicinal Uses, or other Purposes. Metheglin is made of one Part Honey, and four Parts Water; to which may be added Balm, Sage, Mint, Rofemary, Thyme, Bay-Leaves, Angelica, Savory, Roman Wormwood, Geranium Moschatum, Origanum, Nutmegs, Mace, Cloves, Cinamon, Ginger, or the like, in the Boyling of the Liquor; and in Tunning of it up, some add black Currans, others Raisins in the Sun. Hydromel is made of the best Honey, eight Pounds; Raifins, four Pounds; Tamarinds, half a Pound; fifteen Quarts of Water; boil all so long 'till an Egg will swim on the Top; let the Fæces settle; then decant the clear Liquor into a Cask, adding to every five Pounds four Ounces of Spirit of Wine rectified; let it stand fix Months, and then drink of it as you pleafe; all the Preparations of Honey are pectoral and diuretick,

25. Of Bees-Wax.

Pomet. Besides the different Sorts of Honeys, and the Uses made of em, we drive a great Trade in yellow and

white Wax; the first Sort is made from the Pressing of the Honey-Comb over a Fire, with a sufficient Quantity of Water; and when all is dissolved they strain it through a Cloth; this done, they melt it and scum off the Dross and Froth, and afterwards cash it into Cakes. Some Persons, to refine the Wax, use Roman Vitriol, or some others; but for my own Part, the best Secret I know of is to purisse it well by Melting.

That which we call Wax, is, in its natural State, the Honey-Comb, which contains the Honey in the Hive: Poland, Barbary, Britaigny, and several Parts of France, surnish us with a great deal of yellow Wax; but that of Dantzick, Britaigny, and Champagne, is reckon'd the best: Chuse such as is of a high yellow Colour, a good Smell, easie to break, and that does not stick to the Teeth; and take care that it be the same on the Inside as the Outside; and when in large Cakes, as that from Dantzick, that there be no Water, Stones, or Earth in the Middle; or that it be not mix'd with Rosin, white Frankincense or Pitch, colour'd with Turmerick or

Roncou.

The Use of yellow Wax is considerable for feveral Sorts of Works; as Tapers, Candles, and other Wax-Works; it is of great Use in Medicine, for it serves to give a Body to Oyntments and Plaisters, and likewise to make Sealing Wax for great and less -Deeds. Some will have it, that yellow Wax has no Virtue in Physick. By the Retort there is made with Wax, Earth, and Oak-Ashes, a white thick Oil, like Butter, which is call'd Butter of Wax, which ought to be white, and have the Smell of Wax; of this Butter, together with Bole, Chalk, or the like, in Powder, by Means of a Glass Retort on a Sand Fire, they draw a clear white Oil, like Water, that is of an agreeable, or pleafant Smell. The Butter and Oil of Wax, are much valued for the Cure of Chilblains, especially those that are apt to chop, and other Maladies of the like Nature; that which remains in the Bags, after the Wax is strain'd out, is nothing else but the dead Bees and other Filth. We meet with, besides this in the Hives, a Kind of red Wax, call'd Virgin Wax, or Propolis, which is that the Bees use to stop up the Chiuks or Holes of the Hives, to hinder the cold Air from



Universitäts- und Landesbibliothek Düsseldorf entring; this Wax is sweet scented, and smells almost like Storax, and will chew and mould like Masslick; it cleanses and digests hard Tumours, eases Pains, and cures Wounds and Ulcers.

of White Wax.

The White Wax is made out of the Yellow; the same being by a certain Engine made into small Flakes, and then bleach'd in the Sun, by which it will become very white; it is then cast into round Cakes, some thicker, some thiner; that is the best which fmells well, and chews hard, not being mix'd with Sheeps Suer, and is withal of a clear Colour, without any Cast of Yellowness. The best and most proper to turn white is the Tellow Wax of Bretagny; which when it is well done, as that usually is of Chateau-Gontier, eight Leagues from Angers, which paffes for the best Sort in France, will be pure, white, clear, transparent, in thick Cakes, that when broken betwixt the Teeth does not stick, neither has any ill Taste ot Scent.

It is with this fine Wax we make the finest Works; as Tapers, Wax-Candles, Flambeaux, Figures, and other Cariofities in Wax : And we reckon, after the Chateau-Goncier Wax, the second Sort is that of Angers ; the Third that of Mans ; the Fourth that of Holland, which is generally brought in great Cakes of four or five hundred Weight; and the first Sort is that we call the Dutch Wax Royal; the Fifth is that of Amboife; the Sixth of Chaumont near Troyes: In fhort, the Seventh, and the worst, is that of Roilen, because of the great Addition of Suct they put in, which is better or worfe, according to the Quantity of Suet that is mix d with it.

Of the foft Red and Green Wax.

The foft red Wax is made of white Wax melted with Turpentine that is wash'd, and then colour'd with Vermilion, or Orkanet. This Wax ought to be of a good Consistence, a fine Red, well made; the chief Use of this, as well as the Green, is for the Lawyers to seal Writs and Deeds with. The green Wax is made the same Way, only Verdegrise is us'd instead of Vermilion.

Of the black Indian Wax.

In feveral Parts of the Indies, as well East as West, they have little Bees, which hive, or make their Nests in the Hollows of certain Trees; the Figure of which you have before: These Bees deposite their Honey in little Veffels of black Wax, which are of the Size and Shape of Pigeons Eggs: the Honey is very pleasant, and of an Amber Colour. The Indians use this Wax to make Tapers of, and to gather from the Tree, the Balfam call'd Tolu. Some Authors fay, that there is an Animal like a Cat, that is black, which the Indians call Heirat, or the Honey Beaft, which climbs the Trees, and eats all the Honey; and that which is surprizing is, that this Animal draws out the Honey-Comb with its Paw, and does no Damage to the Bees; and the Bees do not hurt him, because they have no Stings like ours. This Wax was formerly much us'd in Spain, and a little in France; but at present we know not what it is, being one of the scarcest Druggs we have. All the Kinds of Wax are naturally compos'd of Oil, volatile Salt, and Flegm without Earth, being emollient, resolutive, and proper for Oyntments, Cerecloths, and Plaisters.

26. Of Ambergrise.

Mbergrise is the dearest and most A valuable Commodity we have Pomer, in France, and a Thing the least understood, its Nature and Origin being most contested; for if I shou'd relate what Authors have faid upon this Subject, ir wou'd make a Volume of itself; but to reproach no Body, and not to repeat what fo many Authors have faid, I shall affirm, that the Ambergrise we have brought us from several Parts, but chiefly Lisbon, is nothing elfe but a Mais of Honey-Combs, that fall from the Rocks into the Sea, torn off by the Waves of the Sea, the Violence of the Winds, or otherwise: These Honey-Combs being in the Sea, whether by a Property of the Sea Water, or by the Virtue of the Sun Beams, are render'd liquid, and floating upon the Water, as is to be met withal, sometimes.

Many

hath been hitherto fo little known, comes from nothing but Bees Wax, which I cou'd not have affirm'd, if a Friend of mine had not affor'd me, he had feen a Piece that was one half Ambergrife, and another Wax; and to confirm what I fay, Mr. de Monconys Lieutenant General of Lyons, at Page 71, of his Voyages, affirms that he was inform'd in England, that Ambergrife was nothing . but Honey-Combs the Bees make upon the large Rocks, which are on the Sea Side in the Indies, which heated by the Sun, loofen and fall into the Sea, and by its Agitation are brought to Perfection; and that having broken a large Piece of Ambergrise, which was not yet perfectly concocted, he found in the Middle of its Substance, the Honey-Comb, and the Honey, both together: And for further Confirmation, when the Ambergrise is dissolv'd in Spirit of Wine tartariz'd, there remains at last a Substance entirely like Honey. And to make it appear folv'd in Spirit of Wine, or Spirit of Rofes, that Ambergrise is nothing else but the Product of the Honey-Comb, observe the great Quantities that are sometimes found of it; not in Pieces of three hundred Weight, as some have writ, but thirty or forty Pounds are fufficient.

Mr. Tavernier, amongst other Things on this Subject fays, that in the Year 1646, or Families of Mideleburg, who was Governour for the Dutch East-India Company, in the Isle of St. Maurice, which is on the East of Madagascar, found on the Shoar a Piece of Ambergrise forty-two Pounds Weight, which he fent to the Company; but, as such Persons have ever some Enemies, and the Piece appearing as if something had been taken from it on one Side; the Commander was accus'd of having taken half, of which yet he justified himself at Batavia.

In the Choice of Ambergrise, which some have call'd by the Name of Oriental Amber, let it be in fine Pieces, of a greyish Colour on the Outfide, mark'd with little black Spots within, of a fweet pleafant Smell; and meddle not with that which is folt, fat, musty within and without, and which is full of Dirt and Filth, that is got when the Am-

Many Persons will be surprized at what I lidity. The best Tryal of it is a Dissolution advance, that Ambergrife, whose Nature in Spirit of Wine; for that which is purest, and leaves the least Feces is the best. The Fictitious is known by the Smell, as well as Colour; the Materials, of which it is made, appearing either too black, or too white, and will diffolve eafily in Water, being compos'd of Musk, Civet, Aloes Wood, Storax, Labdanum, Goat's Blood dry'd, &c.

Ambergrise, besides its Use for the Perfumers, by Reason of its excellent Scent, is a very good Medicine to warm the Stomach, and prevent the Cause of the Gout, from attacking the Vital Parts; it refreshes the Animal Spirits by its volatile Sulphur, ftrengthens the debilitated Parts, and restores in Confumptions. As Ambergrife is a very dear Commodity, those who buy Quantities of it, must take great Care that there be no Mixtures in it, or that it be not counterfeited: The Thinnels of the Substance of this Drugg, is the Reason that it is never expos'd to the Violence of the Fire, but only difor some such like Menstruum to prepare it, exalt its Smell, and separate it from its earthy Parts; and this is call'd by the Name of Tincture, or Effence of Ambergrise.

Of Effence of Ambergrife.

Essence of Ambergrise, us'd by the Con-1647, a Zelander that was of one of the best fectioners, Perfumers, Distillers, and others, may be made after these several Ways: To make Mr. Charas's Effence, take Choice Ambergrife, two Drams; Sugar Candy, two Drams; Spirit of Wine, four Ounces; ardent Spirit of Roses, half an Ounce; put 'em into a Glass Matrais, with a blind Head luted in the Junctures, fet in the Heat of the Sun, Horle-Dung, or Sand, diffolve and make a Tincture; decant the Clear, and keep it for Use in a Glass close stopt: The Dole internally may be given to three Drops in Cinamon Water, or any restorative Liquor. Another Effence is made thus: Take Ambergrife, and white Sugar Candy, in Powder, of each two Drams; Musk one Dram; Oil of Cinamon, Citrons, Oranges, Rofes, Lavender, of each two or three Drops; mix and beat it up into a Paste, and dissolve it as you have Occasion over a gentle Hear, bergrife was liquid, or before it gains its So- in Spirit of Wine, in a Bolt Head; or you

may make it with Ambergrife alone, in Spirit of Wine tartaris'd, digetting in a Sand Heat, or Horse-Dung, for some Time.

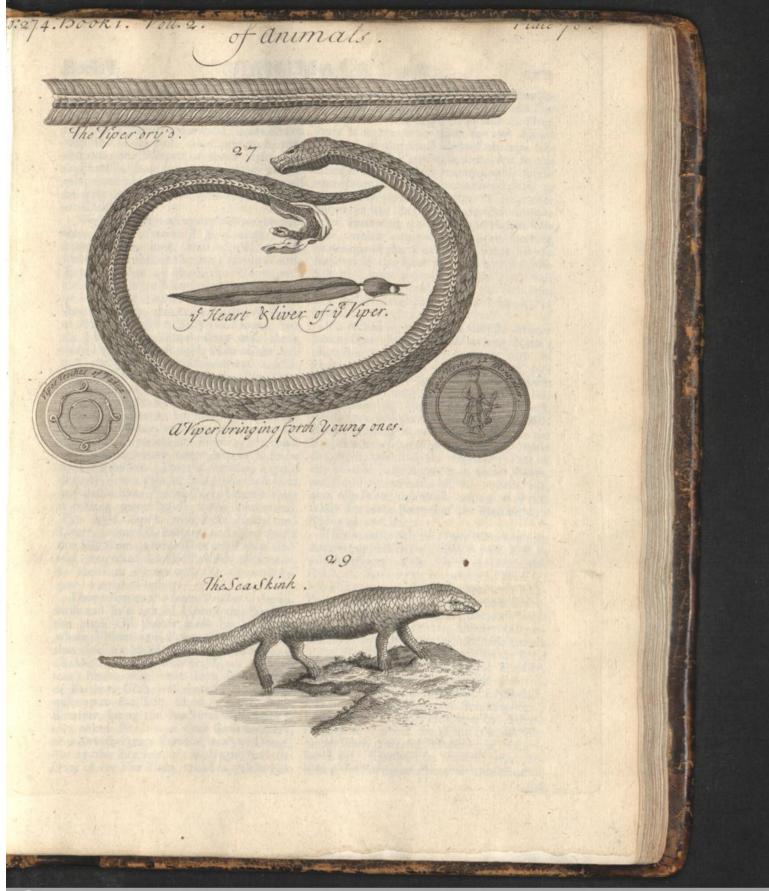
The Way to make any odoriferous Thing yield its Scent, is by opening the Body of it first; which done, the Smell exerts and diffuses itself immediately, in such Vehicles as have Power either to diffolve the separated Particles, or extract their Sulphur or Tincture. Ambergrise is open'd by grinding it first with Sugar Candy, then with Oil of Ben: It is also open'd by grinding it with the Yolk of an Egg, and several other Ways. Ambergrife, in its natural State, scarcely affords any Scent at all; but if it be open'd, and excited by Solution, with a convenient Proportion of Odours and volatile Sulphur, fuch as that of Civet, it prefently yields a sweet and pleasant Flavour; for Example: Take ten Grains of Ambergise, and three of Civet; beat them together in a Mortar, and the Ambergrise will presently melt; upon which, for encreasing the Acid, put two or three Drops of Juice of Lemons to it, fo will you have a Perfume of an admirable Sweetness.

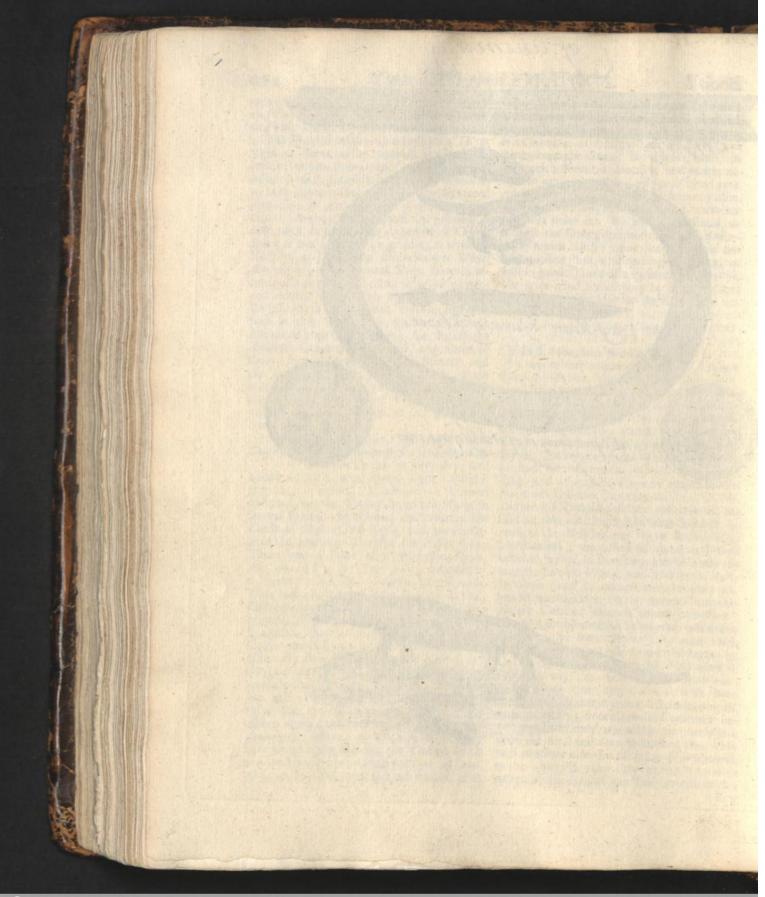
Ambra-grisea, seu Ambra cine-Lemery. rivia, or Ambergrife, is a valuable Commodity that is very dry, and almost as hard as a Stone, light, opaque, greyish, and scented: It is found in Pieces of different Bigness, floating upon the Water in feveral Parts of the Ocean, as towards the Coafts of Moscovy and Russia, and particularly in the maritime Parts of the Indian Seas, There was a Piece of a prodigious Size, that was fald in the Year 1694, to be carry'd into Ireland, that weigh'd 182 Pounds. The Naturalists have differ'd much in their Opinions concerning the Production of Ambergrife, 'till of late it feems to be universally agreed, that its made from the Honey-Combs that fall into the Sea from the Rocks where the Bees had form'd their Nefts; and this is confirm'd by Experience, because several Persons have seen Pieces that have been one half Ambergrife, and the other no-thing but the plain Honey-Comb: And others again have met with large Pieces of Ambergrise, where, in breaking of it, they have found in the Middle, the Honey-Comb and the Honey too: Chuse such as is clean, well dry'd, light, and sported within, with

little black Spots, of a sweet pleasant Smell. but avoid the moift, fost and foul Ambergrise, as being good for nothing; it is call'd Ambra Cineritia, as being of an afth Colour; it strengthens the Brain, the Heart, and the Stomach; procures Alacrity, and makes the Spirits gay; provokes Luft, and is a good Antidote against Poilon or Infection in Men, but raifes the Vapours in Women, therefore let them avoid it. We meet fometimes, amongst the Druggists, with a white Ambergrife, which differs from the other not only in Colour, but it is nothing fo strong, or half so good. There also is a black Ambergrife, but it is good for nothing in Physick, and but of very little Use for the Perfumers.

27. Of the Viper.

THE Viper is a Kind of Serpent that is very common in several Pomer. Parts of France, but chiefly in Poi-Etou, from whence almost all the Vipers come that we fell at Paris. As these Animals were terrible, or frightful to all the World heretofore, fo they are very familiar to us at prefent; infomuch that there are very few People of Quality, in Places where they are to be had, but what make use of 'em as good Diet, and a specifical Remedy against several Sorts of Difeates, as may be feen in Mr. Charas his Treatife of 'em, wherein he has faid all that can be faid on that Subject, to which the Reader may have Recourse at his Pleasure; upon which Account I shall content myself in directing him to chuse the largest, liveliest Vipers, and such as are newly taken; and to take Care that they are put into temperate Places, because extraordinary Cold or Heat is contrary to them : They ought likewife to be careful, when they receive any fresh Vipers, to take them out of the Boxes they are brought in, and to take from them the dead ones, if there is any, as sometimes it happens; and to put 'em into a Tub with Bran or Moss; nor that it serves 'em to feed upon, as some fancy, because these Creatures never eat after they are taken, but only live upon the Air, and notwithstanding this, they will continue alive fix Months. It is likewife to be observ'd, that they are to be taken either by the End of the Tail, or elfe with a







he finds himself squeez'd, bites whatever he meets with; and the Biting of the Viper being very dangerous and mortal, is the Reason why the Takers of 'em ought to be very cautious; the Keepers of them ought to be so likewise, least by Mischance they shou'd escape and get into any House, which would are Children.

We have a great many dry'd Vipers brought from Poiltiers, which if good ought to be heavy, large, long, well dry'd, and the freshest kill'd that can be got; for in a little Time after they are dead, the Worms will eat 'em in such a Manner, that nothing will be lest but the Skeleton. You ought to be careful likewise, that every Bundle, or Parcel of Vipers, which is usually two Dozen, have the Hearts and Livers along with them, these being the most noble Parts of the Animal, and weigh three Ounces and a half; and fometimes, but very rarely, four Ounces weight; and take Care they be not fuch as have died of themselves, which you may eafily difcern, by their extraordinary Blackness: Some will say, that there are Snakes and Asps fold for Vipers; but this I can't affirm, having never known it to be done at Poictiers. There is, besides, a great deal of Vipers Powder fold; but those that buy shou'd take special Care, because there is nothing more lyable to be adulterated. The dry'd Vipers, with their Hearts and Livers, reduced to Powder, and sifted thro'a fine Silk Sieve, is what some call Bezoar Animal, pretending that this Powder, thus made, has the same Virtues with the Oriental Bezoar, treated of before.

They bring us also from Poictiers, the volatile and fix'd Salt of Vipers, the Fat, and the black Oil that is made by the Retort, whose Virtues and Preparations you have thus describ'd by Mr. Charas. Take Vipers, all their Parts very well dry'd, cut 'em into fmall Pieces, with which fill a large Retort of Earth, or Glass well coated; fill it almost quite up to the Top, fix to it a very large Receiver, luting the Junctures well, place it on a naked Fire, in a close Reverberatory, or a Reverberatory Furnace, with its Dome; thut up the Register of the Dome, and the

Pair of Tongs; because this Animal, when in the Cinder Place, which keep on Foot for two Hours, only to hear the Retort and Furnace; then removing the Fire into its Place, keep it in the same Heat for two Hours longer; at the End whereof encrease the Fire one Degree, giving a little Air to the Register of the Dome, continuing it so for two Hours more; and encrease the Fire to be very dangerous, especially where there the third Degree for the same Time; after which fer the Register of the Dome quite open, encreasing the Fire to the highest Degree, which continue to long 'till nothing comes out of the Retort, and that all the Vapours in the Receiver be converted into Salt or Liquor; then cease the Fire, and the Vessels being cold, unlute the Receiver, and diffolye the Salt in the Liquor, or Spirit.

To rectifie it, put all this diftill'd Matter into a Glass Matrass, with a long Neck : place it in a Sand Heat, cover it with its Head, and joyn to it a small Receiver, luting well the Joints, and give a gentle Heat, fo will the volatile Salt ascend, white and Crystalline, to the Top of the Head, which take and put up into a double Glass Bottle, stopping it very close; continue the Rectification, separating and keeping apart the Spirit, which is the remaining Part of the volatile Salt, diffolv'd in some Flegm, and the Oil; and cause all the volatile Salt, and oily Parts, to ascend, casting away that which lies at the Bottom of the Matrais, as a

Thing of no Ufe.

This volatile Salt of Vipers is reckon'd an Antidote against Poisons, and a perfect Cure for the Biting of the Viper, or any other Kind of Serpent, or venemous Creature: It is also prevalent against the Measles, Small-Pox, Plague or Pestilence; it refists Putrefaction in the highest Degree, becomes specifical in Intermitting Fevers, chiefly the Quartan; and there is scarce a Medicine known in the World more able to purifie the Mais of Blood, and give it its natural Fluidity, whence it does such considerable Feats in chronick Cases; as Scurvies, Erysipela's, scal'd Heads, and strumous Breakings out; causing the foul impure Humours to perspire through the Pores of the Skin : It is also one of the most powerful Remedies in Nature, for Gout, Rheumatilm, and Venereal Re-Door of the Fire Place, make a gentle Fire licks; for it opens, penetrates, attenuates,

and is sudorifick; so that it drives out any corrupted or malignant Humours, through the Habit of the Body; it dissolves coagulated Blood, removes Inflammations, prevents Apostems, and cures Pleurisies: This Salt is very aperitive, and opens Obstructions both of the Head and other Patts; and relieves all Diseases of the Brain and Nerves; as Palsies, Convulsions, Vapours, Fits of the Mother, and the like; so that both for external and internal Uses, there is scarcely found a more universal Medicine.

All other Preparations of Vipers, as Powders, fix'd Salts, Tinctures, Decoctions, Broths, Gellies, Wines, Effences, Troches, Elixirs, Extracts, &c. compar'd with the volatile Salt, are nothing, for in that is to be found the Sum of all that is in the Viper: The Oil is so fetid, that it cannot be taken inwardly; outwardly it may be us'd to smell to, and to touch the Nostrils with in Vapours and Fits; but if it be made into an Elixit, with Spirit of Nitre, and Spirit of Wine tartarised, it is a most fragrant Medicine, clears the Spirits, suppresses Vapours, and invigorates Nature to a Miracle.

Le Febure teaches us how to fix this volatile Salt, which is done by Acids, viz, with well rectified Spirit of Salt, dropping it upon it, diffolved in its own Flegm, 'till the Effervelcency and Strife ceases, by which the volatile Salt is united to the Acid: Now though there be no great Need of this, yet it may be of some Use to watry Stomachs; and tho' the Taste and Shape of this Salt, thus six'd, much resembles Bay Salt, it is quite another Thing in its Effects; this is evident by mixing it with double its Weight of Salt of Tartar, and subliming in proper Vessels; for then the volatile Salt will ascend with its sirst Force, Strength and Virtue.

Vipera, or the Viper, is a Kind Lemery. of Serpent, which comes alive out of the Belly of its Parent, and not from an Egg, as the other Kinds do; it is about as long as one's Arm, and two Inches thick; fometimes bigger, and fomerimes less, but never arrives at the Size of the large Snake, tho' in outward Appearance they are very like 'em: They are cover'd with a smooth Skin, a little scaly, on the Backside of several Colours as in Waves, soft and viscous underneath, and of very close Pores.

The Jaws are fet on both Sides with little Teeth, like the Snakes; but besides these little Teeth, there is on each Side a Kind of a Tusk, or a long, flarp, cutting Tooth, that is sometimes fork'd: In the Jaw is a Bladder, full of a yellowish Liquid; the Tongue is long and cloven, which it darts out with great Violence; being provok'd, it looks like a Firebrand, which proceeds from the quick Motion or Agitation of the Spirits. This Tongue was suppos'd to be venemous, but it contains no manner on harm in it; the Eyes are very small. The Vipers breed in wild frony Places in Dauphiny and Poicton; they live, being at Liberry, on Rats, Frogs, Worms, and feveral other Infects; but when taken and confin'd, they will live above a Year, without any other Subfiftence but the Air they receive by the little Holes made in the Tubs or Chefts wherein they are kept; the Reason why they live so long without eating, is, because the Pores of the Skin are fo closely contracted, that they emit but very little Spirits or Effluvia.

They take the Vipers in Spring Time, or Autumn, because they are then fatter, and more active than in any other Season: The Pealants take 'em with little wooden Tongs made for the Purpole, and carry 'em in Bags to the Apothecaries; they are much more fprightly and gay, when they are in the Field, than after they are taken, because they then draw themselves up into a narrower Compals, and contract their Pores. These differ from other Serpents, not only as to the two Teeth that are in their Jaws, but likewife by a different Connexion of their Verrebra, which hinders them, when they are taken by the Tail, from twifting, and turning about the Arm or the Tongs, as the Snake does.

The Viper bites with his long Teeth, and shoots into the Wound a Spirit, or very volatile acid Liquor, which infinuates into the Vessels, coagulates by little and little the Blood, and interrupts the Circulation, from whence flows Death, if not prevented. This Effect has a great deal of Analogy with that which happens upon Syringing, thro' Curiosity, some acid Liquor into the Veins of a Dog, or other Creature; for in a short Time he falls into Convulsions and dies.

e Place, make a gentle cure

The

The Accidents which attend those who have had the Misfortune to be bit by a Viper, are first of all that they grow pale, and then turn bluish, is more or less ting d in the Veins and Arreries. In the second Place they become reftless, melancholy, and fleepy; the Pulse is intermitting, because the Course of the Spirits being intercepted by the Coagulum that is made in the Veffels, the Blood cannot circulate, but with Difficulty. In the third Place they are chilly or cold, have Inclinations to vomit, and convultive Morions; because the saline and acid Particles which are introduc'd into the Blood, and which are pungent, prick, or irritate the internal Coats of the Veins and Arteries. In the last Place they dye, because the Blood growing sharper, and coagulating still more and more, the Passage of the Spirits is entirely stop'd, and there can be no Circulation, without which they cannot live.

The Remedies against the Biting of Vipers are external and internal; the External are the speedy Binding of the Part wounded, if possible, making the Ligature tight, in order to hinder the Poisson from spreading surther; but if the Part that is bit cannot be bound, you ought instantly to apply upon it the Head of the Viper that did the Mischief, after being bruis'd, or else that of another Viper; otherwise to heat a Knise, or some Piece of stat Iron, red hot, and hold it near the Wound as hor as the Patient is able to bear it; or to burn upon the Wound a little Gun Powder; or else scarific and apply Treacle with Garlick and Sal Armoniack bruis'd together.

These external Remedies open the Pores of the Wound, and make the envenom'd Spirits flow; but it ought to be observ'd, that these Sorts of Medicines shou'd be us'd upon the Spot, where the Biting is made; for if there be Time given to the Poilon to enter into the Vessels of the Body, before Application, all will be useles, because the Poison returns no more to the Wound. But tho' external Remedies ought not to be neglected upon this Occasion, they are what brings but little Relief, in Comparison of those Things that may be given inwardly; for the Venom of the Viper being very subtil, it passes instantly into the Blood, and therefore the Patient must take such Medicines as have

Power to break the Points of the Acids, diffolve the Blood, and other coagulated Humours, excite or promote the Circulation, push forward by Perspiration and Urine, whatever Poison of the Viper may remain.

The volatile Salts of Animals are sufficiently efficacious for these Intentions, because they are alcaline, very volatile, rarriving, sudorifick, and aperitive. That of Vipers is preserable to all others, because it is the most subtril; but instead of that, we may use the volatile Salt of Harts-horn, that of Urine, or Human Scull. Venice Treacle is, notwithstanding, very proper, if old, to relieve this Malady, because it is composed of Ingredients chiefly attenuating and rarifying; but when it is new we cannot use it with Success, because the Opium which has not yet been rarified by Fermentation, will rather fix the Poison, and thicken the Humours,

than rarifie and discharge them. The largest Vipers, and such as are well fed, ought to be chose, that are gather'd in Spring Time, or Autumn, when they are in the best Condition. The Trunk of the Vi-per, separated from the Skin and the Entrails, is administred against Poilons, to purifie the Blood, in small Pox, intermitting and malignant Fevers, boil'd in Broths, or taken in Powder, from eight Grains to two Scruples, or a Dram. The Fat of the Viper is fudorifick, resolutive and anodine. taken internally or externally; the Dose from one Drop to fix. The Liver and the Heart of the Viper being dry'd and powder'd, are call'd Bezoar-Animal, and are reckon'd the most powerful Part of the Vipen : The Gall is sudorifick; the Dose being one or two Drops; it is likewise good for Catarrhs of the Eyes, to deterge and relolve. The Word Vipera comes from Vi, Force, and parere, to engender or bring forth; because the Ancients believed that the Female Vipers, in the Pleasure of Coition, eat off the Head of the Male; and that the young Ones, to revenge the Death of the Father, rip'd open the Belly of the Mother; but the Word Vipera feems rather to be deriv'd from viva, alive, and parere to bring forth, which is as much as to fay, the Kind of Serpent that is brought forth alive, because all the other Kinds are produced from Eggs.

28. OF

28. Of Treacle, commonly call'd Venice Treacle.

T Reacle is a Composition of certain choice Druggs, prepar'd, powder'd and reduc'd into an Opiat or liquid Electuary, with Honey: The Treacle takes its Name from the Viper, which the Greeks call Therion, or Thyrion; and it was compounded by Andromachus, the Father, a Native of Candia, and first Physician to Nero. The Venetians, of late Years, have got the Reputation of being thought the only People who had the true Way of preparing the Treacle; and at prefent the Apothecaries of Montpellier make such vast Quantities of it, that one may see Multitudes of these Treacle Barrels, which has reduc'd it to fo low a Price, that one Pound of good Honey will fell for more than the same Weight of this pretended Treacle: And if I was permitted to publish the Frauds that are committed in preparing this Antidote, I am satisfied the Magistrates wou'd prefently put a Stop to this Abuse, both as to that which is fold about at Markets and Fairs, as well as to what is fold at Paris for fixteen or eighteen Pence a Pound: And notwithstanding it is fold at such a low Price, those who deal in it get considerably, because what they fell is nothing but the worst Honey, in which is incorporated a Parcel of rotten worm eaten Roots and Druggs, that are no better than the Sweepings of Shops; and to promote or recommend the Sale of this, they cover the Pots with a printed Paper, wherein are two Vipers that compose a Circle, crown'd with a Flower-de-lis, which contains this Title, Fine Venice Treacle, tho' it is made at Orleans or Paris.

As to that of Montpellier, I have seen it often made there, where it is prepar'd with all the Exactness that can be; but what is sent to the Fairs for common Sale, they mix with large Quantities of boil'd Honey, being oblig'd to sell it at about eighteen Pence a Pound; that which is true, standing them in above fourty Pence a Pound: The Treacle Makers are call'd by the honest Apothecaries, to ridicule them, Mustard-Makers. As to the Venice Treacle, I can say nothing to it, not knowing directly how they make it; but as to what is made at Paris, by Mes-

fieurs Charas, Geoffroy, Fosson, Bolduc and Rouviere, I have feen it prepar'd with all the Care imaginable: And I can affirm, for a certain Truth, that there was a large Quanrity thereof made in March, 1688, without substituting any Thing, and with the finest and best Druggs that were ever seen, being also defign'd for a Master-piece, or Tryal of Skill; but as we are not immortal, and that those who sell this may be capable of knowing the true Composition, and of making it themselves aright; in order to prevent Abuses, I shall here give you the true Receir, which I would not have done, if Mr. Charas, who has writ a particular Treatile of Treacle, had mention'd the Names of the Druggs in French: This Book is entitled, The Natural History of Animals, Plants, and Minerals, that make up the Composition of Andromachus's Treacle.

Andromachus's Treacle.

Take Troches of Squills, fix Ounces; Troches of Vipers and Hedycroy, long Pepper, Opium prepar'd, of each three Ounces; red Roses, Florentine Orrice, Juice of Liquorice, wild Navew-Seed, Balfam of Judea, fine Cinamon, Agarick, of each one Ounce and an half ; powder'd Myrrh, Arabian Costus, Saffron, Cassia lignea, Indian Spicknard, Flowers of Camels Hay, Olibanum in Tears, white and black Pepper, Dittanny of Crete, Tops of white Horehound, fine Rubarb, Arabian Stechas, Macedonian Parsly Seed, Mountain Calamint, Turpentine of Chio, Cinquefoil Root, Ginger, of each fix Drams. Poley Mountain, Ground Pine, Storax in the Tear, Spicknel, true Amomum, Valerian, celtick Spicknard, feal'd Earth, Germander, Indian Leaf, natural Chalcitis, Gentian Root, Aniseseed, Juice of Hypocistis, Fruit of the Balfam-Tree, Gum-Arabick, Fennil-Seed, common Cardamum, Marsilian Hartwort, Treacle-Mustard, Flowers of St. John's Wort, the true Acacia, Gum-Sagapen in Tears, of each four Drams. Caftor, imall Birthwort; Candy Carrots, Jews Pitch, Flowers of the leffer Centaury, Opoponax, and Galbanum, of each two Drams; Choice Honey, three Times the Weight of all; Spanish Wine as much as to give the due Consistence.

Troches

twelve Ounces; Flower of the bitter Vetch, eight Ounces. Troches of Vipers are made of the Flesh boil'd in Water with Dill and Salt, and cleans'd from the Bone, of each eight Ounces; Crumbs of Bread dry'd and fifted, two Ounces and an half; according to Mr. Charas they are made up of Dittany Root instead of Bread Crumbs. For Troches less Mirjoram, Asarabacca, Rose-Wood, of each two Drams; Camel's Hay, Calamus Aromaticus, the great Valerian, Wood of the Balsam Tree, true Balsam, Cinamon, Arabian Costus, of each three Drams; Myrrh, Saffron, Indian Leaf, Spicknard, Caffia lignea, of each fix Drams; true Amomum, one Ounce and an half; Mastick in Tear, a Dram; Spanish Wine enough to form into a Mass. The Way of making all these Troches is to be met with in most Dispensatories, especially those of Paris, Bauderon, Charas, and others.

The Grand Treacle reform'd by Monsieur d'Aquin, the King's Physician.

Take dry'd Vipers, with the Hearts and Livers, twenty four Ounces; Troches of Squills, Extract of Opium, of each twelve Ounces; Roots of Contrayerva, Virginia Snake Root, Angelica, the great Valerian, Spignel, Gentian, Birthwort, Costus, Indian and Celtick Spicknard, Cinamon, Oil of Nutmegs by Expression, Sassron, Dirtany of Crete, Indian Leaf, Water Germander Mountain Calamint, Poley Mountain, Ground-Pine, Flowers of St. John's Wort, and the leffer Centaury, Arabian Stæchas, Amomum, fmall Cardamoms, Macedonian Parsley-Seed, Bishops-Weed, Marfilian Hart-wort, and Myrrh, of each eight Ounces; Rosin of Storax, Opopanax, Gum Sagapen and Caftor, of each four Ounces; a Mellaginous Extract of Juniper-Berries, feventy-two Pounds; Maimfey Wine, one Quart.
This Prescription of Treacle has been bet-

ter received than that of Andromachus, of later Years, by reason of the vast Number of Ingredients, and the little Virtue that most of 'em have, which was the Reason why Mr. D'Aquin expung'd what was superfluous,

Troches of Squills. Take Pulp of Squills, Description of which Additions he gave to Mr. Charas, to infert into his Royal Galenical Pharmacopæia. As to the Virtues of Treacle, I shall not insift on that Topick, because there are several Authors who have treated of them, befides the feveral printed Papers dispers'd with it, that come from Venice or Montpellier, that explain the Use of it. In feveral Dispensatories we meet with a of Hedycroy, Take Herb-Mastick, the third Sort of Treacle, call'd the Diatessaron, because it is compounded of four Druggs, which are the Gentian, round Birthwort, Bay Berries, and Myrrh, all reduc'd into Powder, and made up with Honey, and Extract of Juniper into an Electuary. This Treacle, tho' of a small Price, is not wanting in good Qualities, being very uleful for all Sorts of Cattle; fome People call it, the Poors Treacle, or German Treacle.

Along with this Medicine we have brought from Montpellier a Treacle Water call'd fo, because Treacle is the Basis of it; and by reason its Virtues, in some Measure, are like it. The Montpellier Treacle Water of Banderon make thus; take fine Treacle, three Ounces ; Roots of Tormentil, Angelica, Vipers Grass, Dittany of Crete, and Saffafras, of each, two Ounces; Bole, one Ounce; Juniper-Berries, Citron-Seeds, Carduus Benedictus, Sorrel and Pullane-Seed, of each half an Ounce; Betony, Marygold, Balm, Water Germander, Borrage and Bugloss, of each one Handful; fine Cinamon and Mace, of each, two Drams; Vinegar of Roses, made of white Wine, two Pounds; Juice of Citron and Verjuice, of each, fix Ounces; chuse and prepare all your Druggs according to Bauderon's Dispensatory; and from thence, by a Glass Alembick, you may draw a clear Water, of a strong Smell of Treacle, having the fame Vertues with it : but the small Power there is in Vinegar; Juice of Citrons and Verjuice to dif-solve and raise the Virtue of the Aromaticks in Distillation, made the Seur de Pelerin lay aside this Prescription, and follow that which Mr. Charas has given us in his Dispensarory, Page 1030, which will appear much more reasonable.

Mr. Charas's Treacle Water.

Take Roots of Gentian, Angelica, Maand added other Things more necessary, the fler-wort, Valerian, and Contrajerva, of each

two Ounces: Citron and Orange Peel, not agreeable to my Profession and the Design of candied, but dry, fine Cinamon, Cloves this Work. and Juniper-Berries, of each one Ounce; Water Germander, and St. John's Wort Flowers of each, one Handful: Spirit of Wine, Wallout and Carduus Water, of draw from thence a very odoriferous Water, more efficacious, and better to keep than the former: It is very proper to refift all Poilons, and prevent Infections; the Dofe is from one Dram to four, in a convenient Liquor: Likewise it is given sometimes alone, in a small Quantity. Mr. Charas fays, that there is a Treacle Water made, by diffolving of Treacle in equal Parts of Spirit of Wine, and Vinegar distill'd; so they make Treacle Vinegar, sometimes, only by diffolving it in strong Vinegar, which is us'd against the Infection of the Air, and to wash the Hands,

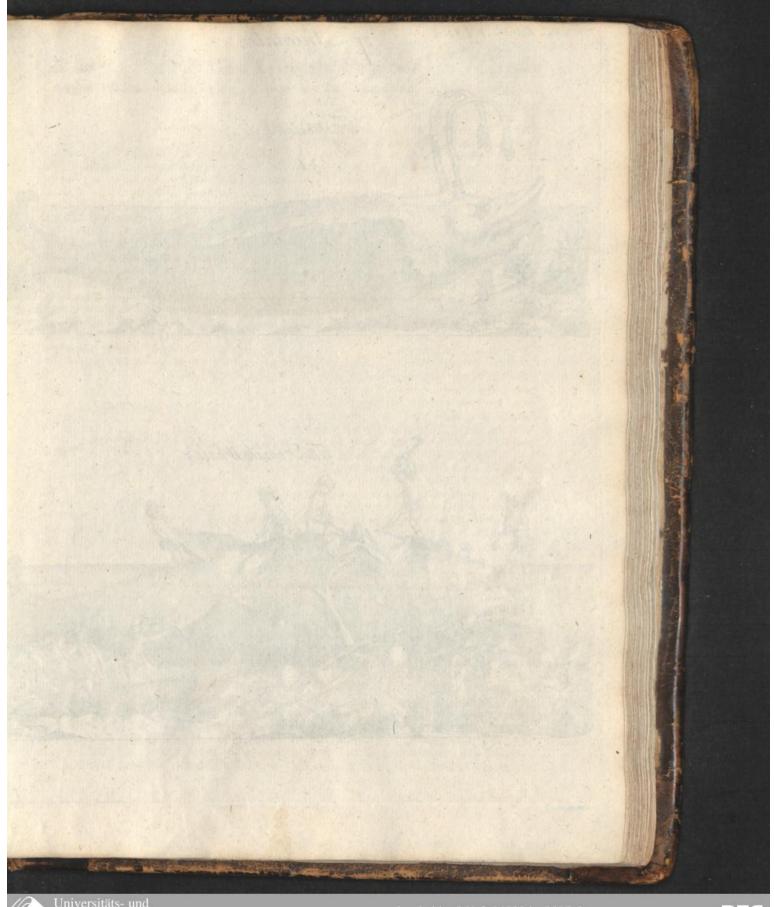
Temples, and Noftrils with. Bendes Treacle Water; at first, when the Roman Orvietan was known in France, we had it from Rome, and fome other Parts of Italy, as Orviette, from whence it takes its Name; but fince that the Sieur Contugi came to Paris, and under Pretence of the King's Permission, took upon him the whole Management of this Medicine, the Druggists have left off to trade in it, either thro' Fear, or because the Profit to be got by it was not confiderable enough: But fince they understood, that when the King gave his Authority to the Sieur Contugi, to fell and trade in Orvietan at Paris, he did not intend to exclude the Druggists or Apothecaries at Paris from making it, as has been declar'd by an Arrest, least he shou'd deprive France of a Remedy io valuable and necessary for the Publick. But fince the Sieur Contugi and his Wife are both dead, I have thought fit to give the World a true Description of it, as well as I have done of other Receipts, which I have acquir'd in different Parts where I have been; but being rob'd of a great many of my Papers and Memoirs, I was hindred in my Attempt, and plung'd into a vast Expence, which I was oblig'd to in the Impression of this Book, besides the great Charges I had been at for fixteen or feventeen Years in gaining a particular Knowledge of the scarcest Druggs, and making all Sorts of Tryals I cou'd upon this Subject,

Take Roots of Vipers Grass, Careach one Quart; fine Treacle, four Ounces; line Thiftle, Mafter-wort, Angelica, Bitumen, Birth-wort, Contrayerva, white Dittany, Galingal, Gentian, small Arabian Costus, true Acorus, Macedonian Parsley-Seed, Leaves of Sage, Rolemary, Goats Rue, Carduus Benedictus, Dittany of Crete, Bay and Juniper-Berries, of each one Ounce; Cinamon and Cloves of each half an Ounce; dry'd Vipers, with their Hearts and Livers, old Treacle, four Ounces; white despumated Honey, eight Pounds to the whole Druggs; to make it into a Body: by consulting of Bate's Pharmacopeeia, you may fee how far this Recipe differs from that which he fays, Sir Robert Tabbor coumunicated to him, and which we may suppose he brought from France.

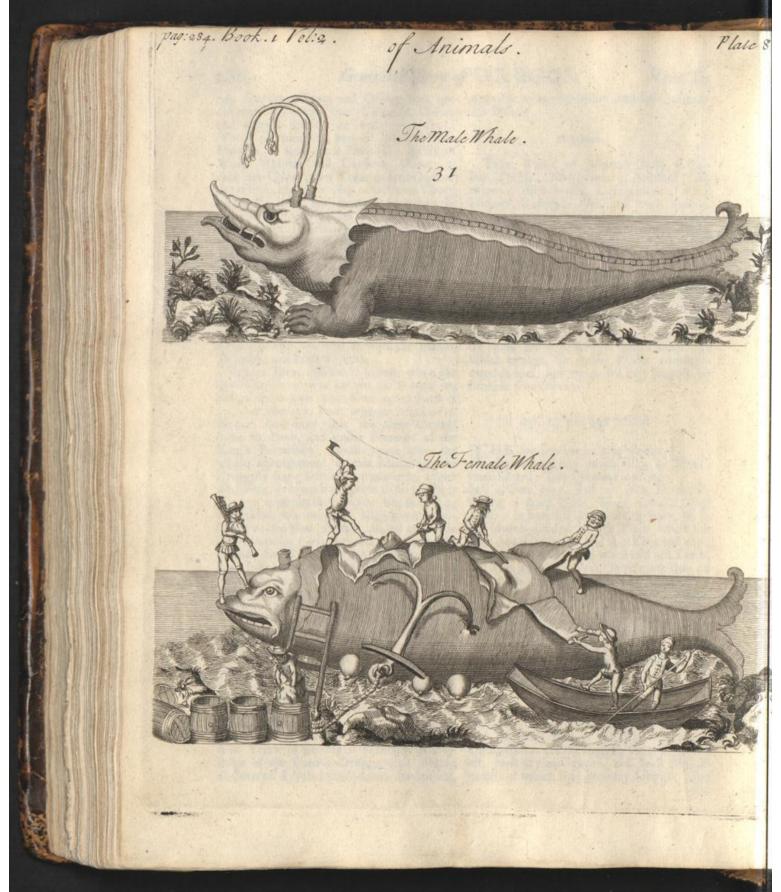
29. Of the Sea Skink.

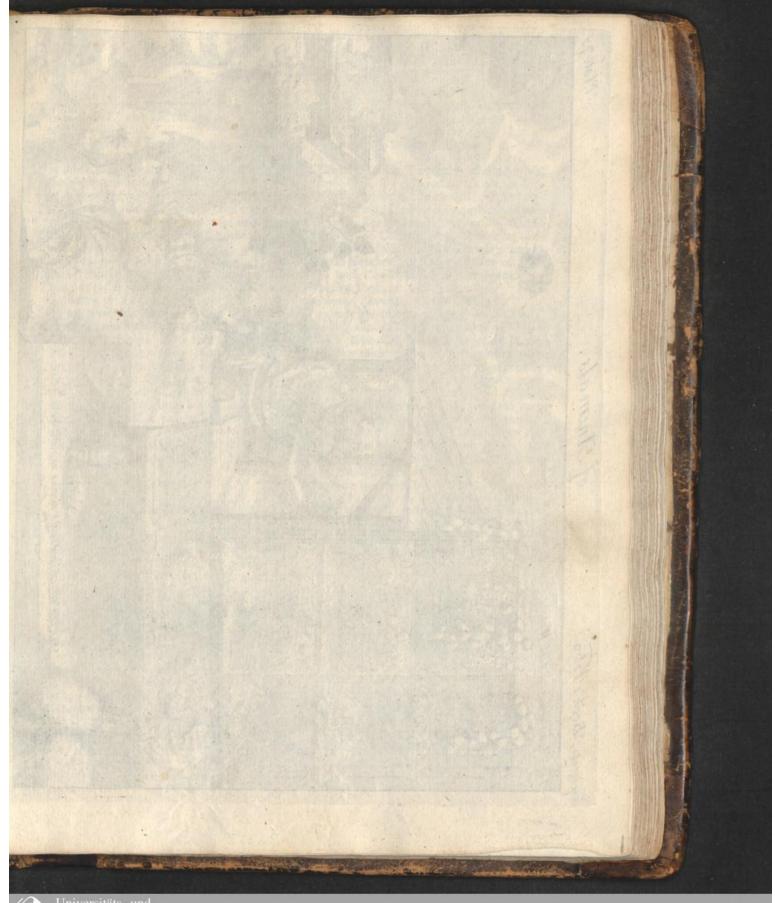
THE Sea Skink is an amphibious Animal, pretty much like a Pomes. half a Foot long, and an Inch Diameter, having a sharp Nose, being cover'd with Scales; it has two little piercing Eyes, with the Mouth divided to the Place where the Ears shou'd be seated had this Creature any; it has a great many little white and red Teeth, and goes upon four Feet, little more than an Inch high, which are very like those of an Ape; it is cover'd with little round Scales, different from those of the Head, that are long and large; they are greyish, inclining to brown upon the Back, and of a Silver Grey under the Belly; the Body of this Animal grows still smaller to the End of the Tail like the Viper's.

There are a great many of these little Skinks to be found in the Nile in Egypt, from whence they are brought us by the Way of Marseilles, only the Entrails are taken out. and the small End of the Tail is cut off: Chuse such as are the biggest, longest, heavieft, most dry and entire, and least Wormeaten, to which they are very subject; they

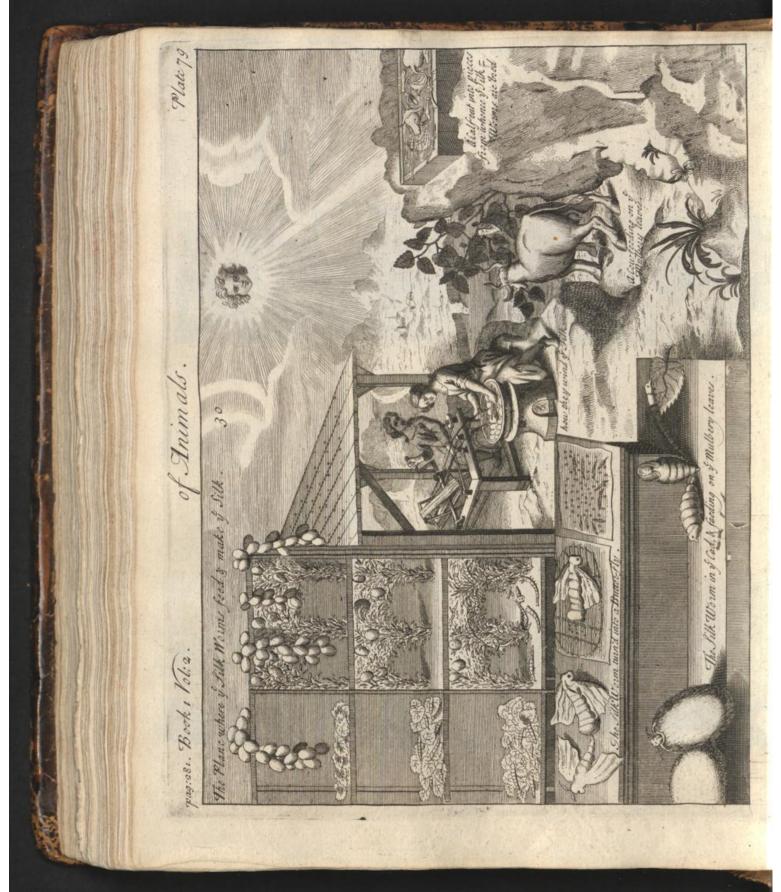












Semen Virile, and are one of the Ingredients of Mithridate.

The Reverend Father Du Tertre fays, that he saw not only in Guadoloupa, but likewise in other Isles, the true Skinks, altogether like those that are brought from Egypt. It is a Sort of Lizard which, by the Inhabitants of Guadaloupa is call'd Mabouya, and in some other Isles the Land Pike, but I know not for what Reafon; I believe rather it may be called fo, because this Animal is almost always at Land, and when they cut off his Feet, he is just like a Stake that they grive into the Ground, and not a Pike, as the Sieur Rochefort wou'd have it; who, to make it agree with the Name he has given this Animal, writes with all the Affurance and Falfity imaginable, that it has the perfect Shape Skin and Head of our Pike. These Skinks are more fleshy than the other Lizards, the Tail thicker, and the Legs and Feet fo short, that they creep upon the Ground; their Skins are cover'd with an infinite Number of little Scales, like those of Snakes, but of a yellow Colour, filver'd, and finning, as if rubb'd with Oil; their Flesh is good against Poison, and the Wounds of envenom'd Arrows.

Of Mithridate.

Take choice Myrrh, Saffron, white Agarick, Ginger, fine Cinamon, Indian Spicknard, Frankincense, and Thlaspi, or Trea-cle-mustard-Seed, of each ten Drams; Marfilian Hartwort, Balsam of Judea, Camels Hay, Arabian Stæchas, Costus, Gal-banum, Turpentine, long Pepper, Castor, Juice of Hypocistis, Storax in Tears, Opoponax, and Indian Leaves, of each one Ounce: Cassia lignea, Poley Mountain, white Pepper, Water Germander, Candy Carrots, Fruit of the Balfam Tree, Troches of Ciphi and Bdellium, of each seven Drams; Celtick Spicknard, Gum Arabick, Macedonian Parsley, Opium, the lesser Cardamom, Fennil, Gentian, red Roles, and Dittany of Crete, of each five Drams; Anifeed, the true Acorus, small Valerian, and Gum Serapin, of each three Drams; Spignel, Acacia, and the Sea Skink, St. Fohn's-Wort Seed, of each two Drams and

are reckon'd proper to restore Warmth in old an half; Spanish Wine a sufficient Quantity; Age, and Decays of Nature, to encrease the fine Honey, nine Pounds, eight Ounces, and two Drams.

Of Troches of Ciphi.

Take fat Raisins, Turpentine, choice Myrrh, Camels Hay, fine Cinamon, Calamus Aromaticus, Bdellium, Spicknard, Caffia lignea, Cyperus, Juniper-Berries, Rofe-Wood, Saffron, fine Honey, Spanish Wine: The Way of Compounding Mithridate differs nothing from that of Treacle; and as to these Troches, the Dispensatories of Bauderon and Charas, show us the Manner of preparing them.

Scincus Marinus, or the Skink, is a little amphibious Animal, re- Lemery. sembling a small Lizard, or rather a little Crocodile, as long as one's Hand, fometimes thicker than an Inch, cover'd with little Scales of a Silver Colour, especially under the Belly, having brown Streaks crofs the Back; the Head is oblong, and thicker over the Jaws than the Neck; the Eyes very little; the Nose sharper than that of the Lizard's, cover'd with Scales as the rest of the Body is; the Mouth is cut in very deep, fet with a great many little white Teeth; some Authors call it Crocodilus Minor, or the little Crocodile; it is bred in the Nile, and several other Parts of Egypt, and feeds upon aromatical Flowers; it never grows bigger than as we have it brought to us: They open the Belly and take out the Entrails, then fill it with Poley Hair, or some other dry'd aromatical Herbs, in order to preserve it : This Creature affords a great deal of volatile Salt and Oil; some People prefer the Kidneys before the rest of the Body; but there is no Difference in the Virtue of any of them.

30. Of Silk-worms.

HE Silk-worms are little Infects, whose Origin is altogether fur- Pomet. prifing, as well as the various Shapes and Changes they undergo; feveral Authors have writ of them; and amongst the rest Mr. Isnard, in a little Treatise of his, at the 254th Page, accounts for their Original, thus: "At the Time when the Mulberry-Vol. II, "Leaves

" Leaves are ready to gather, which shou'd the Name of Raw-Silk, or rough as it comes be five Days after their Budding, in the Be-" ginning of the Spring, they take a Cow, giving her any Thing else to eat, of Herbs, " Hay, or the like, 'till the has calv'd; and this they continue for eight Days longer; after which they let the Cow and Calf " both feed upon this some Days together, " without any other Mixture, as before: They kill the Calf after it has been fill'd, or fatiated with the Mulberry-Leaves, and the Cow's Milk; then chop it to Pieces " to the very Feet, and without throwing any thing away, put all together, the Flesh, Blood, Bones, Skin and Guts, into " a wooden Trough, and fet it a Top of " the House in a Granary, or Garret, 'till " it is corrupted; and from this will pro-" ceed little Worms, which they lay together " on a Heap, with Mulberry-Leaves, to " raife 'em afterwards, just as they do those " which are produc'd from the Eggs; and " these Silk-worms are abundantly more " fruitful than those from the Eggs; so that " those who deal confiderably in them, ne-" ver fail every ten or twelve Years, to raife " them this Way,

There are fo many Particulars, relating to the Management and Breeding of thefe little Creatures, that it wou'd be troublesome to dwell upon this Subject; besides it has no Relation to my present Purpose; and since Mr. Isnard has writ an intire Book upon it; I shall refer to it those who wou'd know further. These little Animals supply us with a Commodiry so valuable, that formerly those only of the best Quality were cloathed with it. There are several Colours of Silk; ferent Silks are found upon little Clue's, of the Size and Shape of a Pidgeon's Egg; and by the Means of warm Water, and certain Windles, they wind it into Scains, and then dye it of what Colour they pleafe.

I shall not detain you with a Description of all the different Silks that we have brought us from feveral Parts, contenting myfelf only to fay, that what is us'd in Phyfick is the

from the Silk-worm. This Silk, after it is reduced to Powder, which is not very easie to do, which is almost at Calving, and feed her is brought into several Compositions, as Con-" wholly with Mulberry-Leaves, without fections of Alkermes, Hyacinth, So. They use likewise Silk dyed Scarlet, to give to Women in Child-Bed, instead of Alkermes. Several Authors fay, that Silk has the Virtue of making the Heart pleafant, and the Spirits brisk, and to cleanfe the Blood. Those who use the Balls of Silk ought to take Care, before they reduce it into Powder, to cut it afunder, and take away the Worm that is within, fometimes fresh, and fometimes rotten, with the first Skin that wraps it about, as not fitting to be taken inwardly; and those who wou'd have the best, use nothing but the Raw Silk, because the rest is nothing but Drofs, or refule Sruff: It may be reduc'd to Powder, by cutting it very fine, fo that it will pass thro' a Sieve; for to beat it, 'twill be a tedious Work, befides it will lofe half. As to the Confections of Alkermes and Hyacinth, the scarlet Silk ought to be prefer'd to all other, tho' almost all Authors recommend the Raw Silk, which is that that is white, or of a Gold Colour, and which has not been dyed.

There are several other Reptiles which we fell, as the Leeches which are found in Ponds and Ditches, and which the Surgeons apply to feveral Parts of the Body, and chiefly these where Cupping Glasses cannot be easily fix'd. There are feveral Sorts of Leeches; the best of which are the least, that have fmall Heads, reddish Bellies, with Streaks upon the Back, and of a Gold Colour, that are to be mer with in clear running Water, and throw away the venemous Sort, which have thick Heads, and are of a green Coas white, yellow, and the like; these dif- lour, that shine like Glow-Worms, being streak'd with Blue, and are found in muddy Waters; for instead of relieving the Patient, they will cause Inflammations, Apostems, Fevers, and malignant Ulcers, that are fometimes incurable. To keep these Leeches. put 'em into clean Water, that must be renew'd from Time to Time, to which fome will add Sand and Earth.

We fell, befides these, the Powder, vola-Natural; that is to fay, the Ball, or what tile Salt and Oil of Toads, as well as the is wound up naturally, and without passing Stone that is found in the Head of the large thro' hot Water, to which the Ancients gave and old Ones, to which the Ancients attribu-

ted great Virtues; and Mr. Charas treats of dearer than that which we have from Montit very largely, in his Chymical Dispensatory, Page 794; to which those who defire to know further may have Recourse. There are some who rank the Toad-Stone among the precious Stones, not only because it is scarce to be met withal, but because it is endowed with fo many excellent Virtues, being proper to refift all Sorts of Poison: The White is the most valued, tho' those which are of another Colour, are endow'd with no less Vertues: They impose upon the Buyer, inflead of the Toad-Stone, a little round or longish Stone, that is found in several Parts of Europe.

We sell likewise volarile Salt, Oil and Powder of Millepedes, or Hog-Lice, to which Mr. Charas affigns great Virtues, as well as to the volatile Salt of Cantharides, Earth-Worms and Ants; as may be feen in his Chymical Pharmacopæia; as likewise the Oils of Scorpions, Simple and Compound, which we have ready made from Provence and Languedoc, and for which we have a better Sale than those made by the Apothecaries at Paris; and which, without Difpute, are much better, because the Scorpions are more frequent in these Provinces. The Oil of Scorpions simple, is only made of Scorpions, and Oil of bitter Almonds: The Compound is that of Mathiolus, which is made of the following Druggs, viz. of Scorpions, old Oil Olive, the Flowers, Leaves and Seeds of St. John's Wort, Germander, Mountain Calamint, Cardous be-nedictus, Water Germander, lesser Centory, Vervain, Dittany of Crete, Zedoary, white Dittany, Gentian, Tormentil, round Birthwort, Storax, Benjamin, Juniper-Berries, black Cummin Seed, fine Cinamon, the odoriferous Reed, long Cyperus, white Sanders, Rubarb, Myrrh, Aloes, Indian Nard, Saffron, Treacle, Mithridate and white Wine; mix all together, and make an Oil: The Doles you will find in Mathiolus's Sixth Book of Poisons; or in Bauderon, or Charas's Dispenfatory, whereto those who desire to make it may have Recourse. This Oil is one of the most difficult Compositions in Pharmacy, because of the different Mixtures, and the Difficulty of getting the Scorpions alive from Provence or Languedoc, which is the Reason why that which is made at Paris, is fold

pellier, and other Parts.

Bombyx, five Vermis lanificius, the Silk-worm, is a Kind of Ca- Lemery. terpillar, or a Worm as long and thick as one's little Finger, divided from one Part to another in a Sort of Rings; having under them usually fourteen Feet, fix in the fore Part, which are very small, and eight on the hinder Part, which begin after the third Ring; the two last are much larger than the rest; the Shape of 'em are ugly to look upon; their Substance very moist and viscous; they are cloath'd with a very thin tender Skin, easie to break and wast away, of a brown or whitish Colour, with some Spots. It is produced in the Spring, from a little round Egg, that is like a Poppy Seed, is fed with Mulberry Leaves fresh gather'd; for if they are decay'd, they kill the Silkworms; when they are grown to their full Size they eat no longer, but spue out of their Mouths a Kind of thick, gluey, or viscous Slaver or Foam, which they stretch, extend, and work to a Silk Web, and then wind into a Clue, that is sometimes white, and sometimes yellowish, wherein it is wrap'd, and lies several Days still working 'till it dies ; but if you do not throw this Clue into Water to draw off the Silk, it will quit this thick Cloathing, pierce thro' the Clue, and arise a fine, white, gawdy, active Butterfly; and if you leave after this Manner a Number of them, you will have a diverting Sight, to fee the Male and Female Butterflies careffing, and making Love; from whence, afterwards, you have Eggs when the Animal is dead.

The Silkworms yield Abundance of Flegm and Oil, but little volatile Salt; they are reckon'd very good to cure a Vertigo, if after they are dry'd and powder'd you apply the Powder upon the Head, being first shav'd. The Silk upon the Clue, before it is cast into the Water, is call'd Sericum erudum, or Raw Silk; it ought to be cut afunder to uncover the Worm within it; this yields a lirtle Flegm, a good deal of Oil, but very little volatile Salt and Earth; it is thought proper to recruit the Spirits, and purifie the Blood, being taken in Powder. Some Peo-ple hold, that if you feed a Calf with Mulberry Leaves, then kill and cut it to Pieces, and expose it to the Air, upon a House, it will

produce Silkworms; but this Thought wants ed; wherefore we ought to prefer the French Confirmation. In the Parts where they trade in Silk, as Savoy, Languedoc and Provence, they put their Silkworms in Chambers, where they are dispos'd in Repositories or Niches, where they make their Clues; good Quantities of which they preserve on Purpose to have Eggs, and they throw the rest into warm Water, wherein the Worms die.

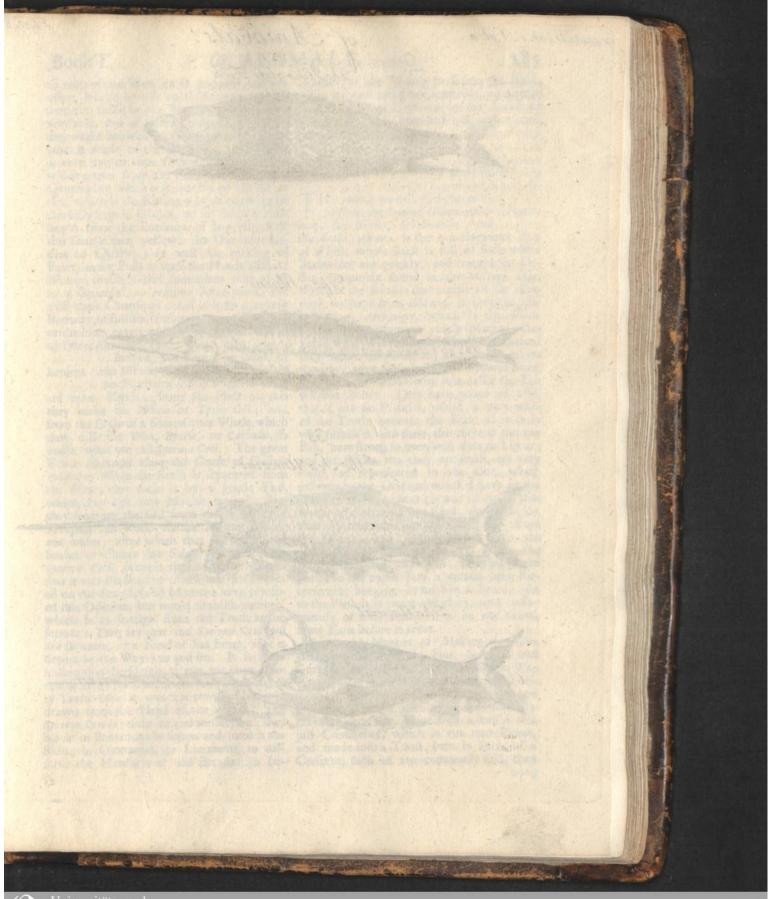
21. Of the Whale.

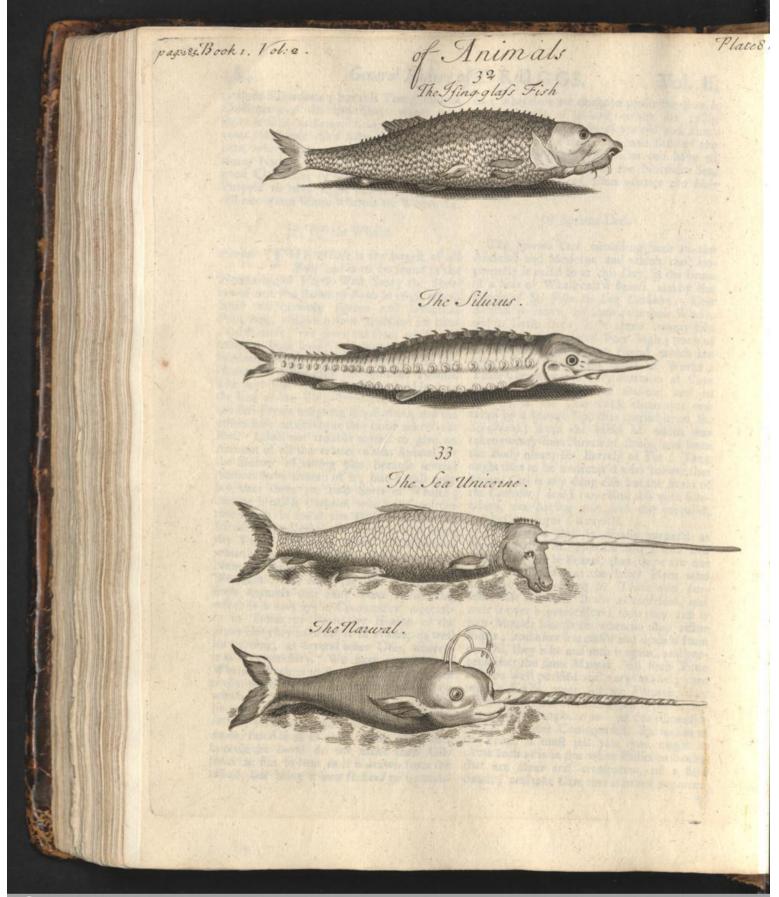
Pomet. THE Whale is the largest of all Fish, and is to be found in the Northern and North-West Seas; the Skeleton of one was shown at Paris in 1658, whose Scull was between fixteen and feventeen Foot long, weighing four thousand fix hundred Pounds; the Jaws ten Foot wide, and fourteen Foot long, weighing each eleven hundred Pounds: The Fins which look like Hands, weighing each fix hundred Pounds. The Joynts of the Back, from the Head to the End of the Tail, forty-five Foot long; the first Joynts weighing fifty Pounds, and the others less, according as they came nearer the End. I shall not trouble myself to give an Account of all that relates to that Animal, or the Manner of taking him, because several Authors have treated of it; but I shall only fay, that there are two Sorts of Whales; the one is call'd Cachalot, which differs from that which is call.d the Whale, in that the Mouth of the Cachalot is furnish'd with little flat Teeth without a Beard or Whiskers, which is contrary to that which bears the Name of the Whale, which has nothing but Whiskers. 'Tis from the Fat or Lard of these Animals that they draw Whale Oil, which is a very great Commodity, especially in Times of Peace, by Reason of the great Use they have for it in France, as well for burning, as several other Uses, wherein it is very necessary. We have two Sorts of Whale Oil comes to Paris, the best of which is that which we call Oil of the great Bay, which is by the French made of the Fat immediately after it is taken from the Whale, whence it comes that the French Oils do not smell so ill as those made in Holland, because the Dutch do not make their Oils from the Fat so soon as it is drawn from the Whale, but bring it into Hilland to be meltOils to those of Holland, which are easily known, because the Dutch are red and stinking, and yet are clear, and have little of the Hogoo. The great Quantities we have of Whale Oil, comes from the Northern Sea, especially Greenland, from whence the Hollanders are supplied.

Of Sperma Ceti.

The Sperma Ceti, according both to the Ancients and Moderns, and which tho' improperly is call'd so at this Day, is the Brain of a Sort of Whale call'd Byaris, and by the People of St. John De Luz Cachalot: This Animal is nam'd, by fome, the male Whale, and in Latin Orca; it is about twenty-five Foot long, and twelve Foot high; each of the Teeth weighing one Pound, which are very useful for several Sorts of Works: These Creatures are very common at Cape Finister, on the Coast of Galicia, and in Norway; in the Year 1688, there was one taken by a Spanish Sip, that carried it to St. Sebastians, from the Head of which was taken twenty-four Barrels of Brain, and from the Body ninety-fix Barrels of Fat : They ought then to be undeceiv'd who believe that Sperma Ceti is any thing else but the Brain of the Cachalor; and I can affirm this with Certainty, not having only feen this prepar'd, but having prepar'd it myfelf.

This Sperma Ceti is usually prepar'd at Bayonne, and St. John De Luz; and this Work is so rare in France, that there are not above two Perfons at the latter Place who know how to prepare it. Those who perform this take the Brain as aforesaid, and melt it over a gentle Fire; then they cast it into Moulds like those wherein they refine Sugar; and after it is cool'd and drain'd from the Oil, they take and melt it again, and proceed after the same Manner, 'till such Time as it be well purified and very white; then with a Knife, made for the Purpose, they cut it into Scales or Flakes, just so as it appears when brought to us. As this Commodiry is of some Consequence, by reason of its Price, I must tell you, you ought to chuse such as is in fine white Flakes or Scales, that are clear and transparent, of a fishy Smell; and take Care that it be not augment-





often, which is case to distinguish, as well from the Smell of the Wax, as because it is very thin, and of a more unpolith'd White; they ought likewise carefully to observe, that what is made of the Brain of the Whale, is very apt to turn Yellow, as well as that which comes from the Fat; for we have no Commodity which is so sensible of the Air as this, which is the Reason why it ought to be carefully kept in Glasses, or in Barrels, close ftop'd from the Entrance of any Air, leaft this Drugg turn yellow. Its Use is for Ladies of Quality; as well for making of Paint, as for Pasts to wash the Hands withal: Women in Child-Bed sometimes take of it, to a Spoonful, to remove After-pains, and affift their Cleanfings; and it is an excellent Remedy in Bruiles, Inflammations, Pleurifies, or the like, taken with Syrup of Violets, Oil of sweet Almonds, &c.

Balana, sive Cete, sive Cetus, or Lemery. the Whale, is a vast Fish, bred in the Northern Seas, whereof there are many Kinds; from the Flesh of this they make the Whale or Train Oil; and from the Brain of a Sort of male Whale, which they call the Orca, Byaris, or Cachalot, is made, what we call Sperma Ceti. The great Fish is common along the Coast of Galicia in Spain: When the Brain is separated from the Head, they melt it by a gentle Fire, which they cast into Moulds to cool; then they separate the Oil from the Water, and fo repeat the Work 'till the Matter is clear and white; after which they divide it into Scales or Flakes for Sale; this was call'd Sperma Ceti, because the Ancients believ'd that it was the Seed of the Whale that floated on the Sea; several Moderns have rejected this Opinion, but wou'd establish another, which is as foreign from the Truth as the former: They say that the Sperma Ceti is a Sea Bitumen, or a Kind of Sea Froth, that is driven by the Waves to and fro. It is aftonishing that the Origin of this has been a Secret fo long; for it is not above two and twenty Years fince it was known that this was drawn from the Head of the Whale. The Sperma Ceti is resolutive and mollifying; they use it in Pomatums to soften and smooth the Skin; in Ointments, or Liniments, to difsolve the Hardness of the Breasts; in In-

ed with white Wax, as it happens but too jections of the Womb to soften the same, often, which is easie to distinguish, as well from the Smell of the Wax, as because it is the Acrimony of Humours in the Breast or very thin, and of a more unpolish'd White; Belly. The Dote from half a Scruple to two they ought likewise carefully to observe, that

32. Of the Fish-Glue, or Isinglass.

THat which we call Fifth-glue or Ifinglass, the Latins, Gluten Alca- Pomet. nak, the Greeks, Ichthyocolla, and the Arabs, Alcana, is the mucilaginous Part of a Fish, whose Back is full of little white Scales that are prickly, and rang'd in Order, commonly found in the Moscovy Seas, which is the Reason that almost all the Isinglass we have from Holland, is brought thither from Archangel, which is the Place where is kept a famous yearly Market, Several who have writ of this Fish, whereof they make the Ifinglass, and among others Rondelet, have faid that it was without Bone, which is the Reason why it is call'd the Fish without Bones. They have pretended also, that it has no Prickles, which is very wide of the Truth, because the Back of it is so well furnish'd with them, that there is not any Fish, how strong so ever, will dare to bite it; and the Scales, tho' they are small, are very sharp, as represented in the Cut, which answers to the Original which I have in my Hands. The Ancients pretend likewile, that it was of the cetaceous Kind, that is to fay, that it resembled in Nature and Bulk the Whale and Dolphin, because the Head is very thick, heavy and large, the Mouth very long and open, and that there grows to the upper Jaw a certain long Excrescence, hanging down like a Beard. As to the Flesh it is sweet and gluey, and confequently of little Relish, if it be not salted tome Time before it is ear.

As to the Manner of Making the Isinglass, the Skin, Tail, Fins, Stomach and Guts of this Fish are taken and boil'd in Water 'till all of them be dissolv'd, that will dissolve; then the gluey Liquor is strain'd and set to cool; being cold, the Fat is carefully taken off, and the Liquor itself is boil'd to a just Consistency, which is cut into Pieces, and made into a Twist, bent in Form of a Crescent, such as are commonly sold, then



hung upon a String, and carefully dry'd. That which is clearest and whitest is best; and which being boil'd in Water and Milk, will almost all dissolve; it is chiefly made in Moscovy; and that which is call'd the Patriarch Sort, which is four Square, very thin and white, almost transparent, is the choicest; the next is the Czar's Sort, which is the large Horse-Shoe, or twisted Kind, that is in thin Rags, and clear: A meaner Sore is that which is yellow and brown within, and that in square Books or Cakes, is the worst of

The Use of Isinglass is very common in France, but not in Physick; for I believe, befides what is us'd in making the Diachylum Plaister, that all the Apothecaries in Paris scarce use a Pound in a Year; but it serves the Wine-Merchants, and Vintners, who use it to fine their Wines; for which formerly they were blam'd, tho' without Reason; for it is a very great Error that has been receiv'd, that Ifinglass was a poisonous Drugg, when nothing is so certain as that it has no ill Quality whatfoever; but the Rish from whence it is made, is one of the principal Foods of Moscovy, the Jelly being very wholesome; for the Flesh of the Back of this Fish tastes like Veal, and is very nourishing; the Belly eats like Pork, being vely sweet and good. Ifinglass is of a healing and strengthening Property; us'd in Broth and Jellies, it strengthens the Back, stops a Dysentry and continued Purging; it is good in Gonorrhea's, and the Fluor albus; being of an alcalious Nature, it absorbs Acids, and eases the most inveterate Pains of the Stomach. The necessary Uses to which this is put, are in several Sorts of Silk Works, to give a Lustre to Ribbons and other Silks, to whiten Gawzes; it is a principal Ingredient to counterfeit Oriental Pearl. We have from England, Holland, and other Parts, a Sort of Ifinglass folded in little Books, will have it, that it comes from the mucila- Horn, to which some People assign large ginous Parts of a Fish some Authors call Virtues, which I shall neither authorise nor Silurus, or Sturio the Sturgeon, which is a contradict, having never had sufficient Exvery scarce Fish in France; it is sometimes to perience of it,

be met with in our Rivers; but because of its Use, and its Rarity, and its being excellent Meat, these who find 'em fell 'em for three or four hundred Livers.

Ichthyocolla, Isinglass, or Fish-Glue, is a Paste or Glue made of Lemery. the Skin, Fins, Tail, Entrails, Nerves, and other mucilaginous Parts of a great Sea Fish, call'd a Huso, or Exossis, from being without Bones, that is twentyfour Foot long, and weighs four hundred Weight; it is usually met with in the Seas about Moscowy, in Humgary, and other Parts of the Danube. They make the Isinglass by cutting all the Parts of the Fish in Pieces, which they steep in hot Water, and then let boil over a gentle Fire, 'till it is dissolv'd, and reduc'd into a Jelly; they spread this upon Instruments made for that Purpose, that it may dry, and be made into a Kind of Parchment; when it is almost dry, they usually roll it up into Wreaths of different Shapes and Sizes. The Dutch furnish us with almost all we use, [which is imploy'd chiefly as Pomet has laid down. 7

33. Of the Narwal or Sea Unicorn.

THE Narmal, fo call'd by the Islanders, and by some others, Pomer. Rhoar, by us the Sea Unicorn, is a large Fish, some reckon to be a Sort of Whale that is found plentifully in the Northern Seas, especially along the Coast of Island in Greenland. This Sea Monster carries at the End of his Nofe a white weighty Horn, that is smooth, and of a spiral Figure, fuch as is to be feen at St. Donis's in France, and some other Places; it is of different Sizes and Weight, as may be feen in the Cabinets of the Curious; as that of Mr. Morin, Physician to the late Mademoifelle de Guife, which I have feen and handled, and is reprethat is of small Use in France, because it is sented in the Figure. Mr. Charas told me very hard to dissolve, and that it will never he had seen one longer and thicker than that turn white: Some Persons have affur'd me, in the Treasury of St. Denis. They are the that it was made of the Remainder of that Pieces of this Horn, that we fell at Paris, which is made in little Wreaths; and others as they do elsewhere, for the true Unicorn's

There

There is another Fifth, besides that they the Eyes being of the Size of an Hen's Egg ? give the Name of the Sea Unicorn to, which the Apple of the Eye was of a Sky Blue, are met withal in different Parts of the World. enamel'd with Yellow, and furrounded with Mr. Dumantel says, he saw a prodigious one, a Vermilion Circle, that was succeeded by in an Isle near St. Domingo, in the Year another very clear one, that shin'd like Cry-1644 : This Unicorn, says he, pursued a little Fish with that Violence, that he threw himself out of the Depth of Water necessary to fwim in, and ran himself upon a great Bed of Sand, where half of his Body being uncover'd, he cou'd not recover himself to get into the Deep again, and by that Means the Inhabitants of the Island took him. This Fish was about eighteen Foot long, being of the Thickness of an Hoghead; he had fix great Fins, that at the Ends were like Oars; two of them were placed instead of Ears, and the other four along the Belly, at equal Diftance, being of a Vermilion Colour, and all the Body was cover'd with large Scales, as big as a Crown Piece, which were of a Blue, that appear'd to be spangled with Silver; near the Neck the Scales were more compact and close, and made a Sort of Collar; the Scales under the Belly being yellow; the Tail was forked, the Head a little thicker than that of a Horse, and almost of the same Shape; it was cover'd with a hard brown Skin: And as the Unicorn has a Horn on the Forehead, this Sea Unicorn has one perfectly fine, nine Foot and an half long, that stands directly on the Forehead; it is exactly ftraight, and grows taper from the Front of the Head, or Basis of the Horn to the Tip, where it is fo tharp, that with Force it will drive thro' the hardest Body : The thick End was about fixteen Inches Circumference; and from hence to about two Thirds of this wonderful Horn, it was fashion'd like the Screw of a Press, or rather waved in Form of a twifted Column, faving that the Furrows were still lessen'd until they became altogether smooth about four Foot two Inches from its Original; the Bottom was cover'd with an ash-colour'd Skin, that had on it a little short Hair as foft as Velvet, of a Fillemot Colour, but underneath was as white as Ivory: As to the other Part that appear'd altogether bare, it was naturally smooth, and of a shining Black, mark'd with fome fine white and yellow Streaks, and fo hard, that a good File could scarcely touch it: It has no Ears erected, but two great Gills as other Fish;

stal; the Mouth, like that of the Horse, was cleft and fet with feveral Teeth; those before being flat and sharp; and the others in the Jaws behind, large, and raifed with little Bunches; there was a Tongue of a pro-portionable Length and Thickness, which was cover'd with a rough red Skin.

This prodigious Fish had besides, upon its Head, a Kind of Crown rais'd above the rest of the Skin, two Inches or thereabout, made in an oval Form, and ending in a Point. Above three hundred People of the Isle eat plentifully of the Flesh of it, and found it very delicate; it was larded with a white Fat, and being boil'd it parts into Flakes like Cod-Fish, but has a much more

favoury Tafte.

We ought to undeceive those who believe that what we now call the Unicorn's Horn, the Latins Unicornis, and the Greeks Monoceros, was the Horn of a Land Animal, whereof Mention is made in the Old Teftament, fince it is nothing else but the Horn of the Narwal, which, as to the Choice of it, ought to be the whitest, largest, and heaviest. Some Time ago these Horns were so rare, that Mr. Racq, a Physician at Florence, faid that a German Merchant fold one of 'em to a Pope for 4500 Livers, which is very much different from what they are at prefent, fince we can buy the very finest at a much easier Rate,

Narwal, Rhoar, or the Sea Unicorn, is a very large Fish, that car- Lemery. ries upon his Front a Horn of five or fix Foot long, that is heavy, white, smooth, and twifted, being of a spiral Figure, and hollow within, very like Ivory; he carries this for his Defence, and with it will attack the biggeft Whales. This Horn affords a great deal of volatile Salt and Oil ; is cordial, fudorifick, and proper to refift Infections, and cute Epilepfies: The Dose is from half a Scruple to two Scruples: They wear it also in Amulets hung about the Neck, to preferve 'em from infectious Air. Tholewho keep these for Curiofities, have the Horn entire, and choose the longest and most

24. OF

34. Of the Sea Horfe.

Pomet. THE Rivers Nile, Niger, and other Parts of Africa, breed us an Animal that has some Resemblance to an Ox, which I thought proper to give you the History of, upon Account of the Teeth which we fell. This Animal has nothing of the Likeness of a Horse; but as to his Size rather looks like an Ox, and his Legs are like the Bear's; he is thirteen Foot long, four Foot and an half broad; the Belly is rather flat than round; the Legs are three Foot about, and each Foot is a Foot broad, as the Head is two Foot and a half in Breadth, three Foot long, nine Foot about, and looks very thick in respect of the rest of the Body: The Mouth is a Foot wide, the Nose fleshy, and turns up; the Eyes are fmall; the Ears little and fhort, not above three Inches long; the Hoofs are cleft into four Parts, and the Tail is like that of a Hog; the Nostrils are winding, and about two Inches and an half deep; the Muzzle having some Resemblance with that of the Lyon or Cat, and is hairy, tho' there is none upon the rest of the Body: It has fix Teeth in the under law; and the two which are at the End are half a Foot long, and two Inches and an half broad, and half a Foot thick : On each Side one may see seven Grinders that are short, but thick; it has as many in the upper Jaw, which it moves as the Crocodile; its Teeth are as hard as a Flint Stone, The Ancients believ'd that this Animal vomited Fire, when he grinded his Teeth one against the other.

The Ethiopians, and other People of Africa, eat the Fleih of them, tho' they are an amphibious Creature, living both on the Land and in the Water. Father Vandenbrock fays, he saw four Sea Horses feeding in the Country of Lavango, during his Journey to Angola, which were like huge Buffalo's; their Skins were very shining; their Heads like a Mare's; their Ears short, and their Nostrils large; they having two Tushes in their Mouths like the Boars. Of all the Parts of this Animal, there is nothing us'd in France but the Teeth, by Reason of their Whiteness and Hardness; tho' Mathiolus

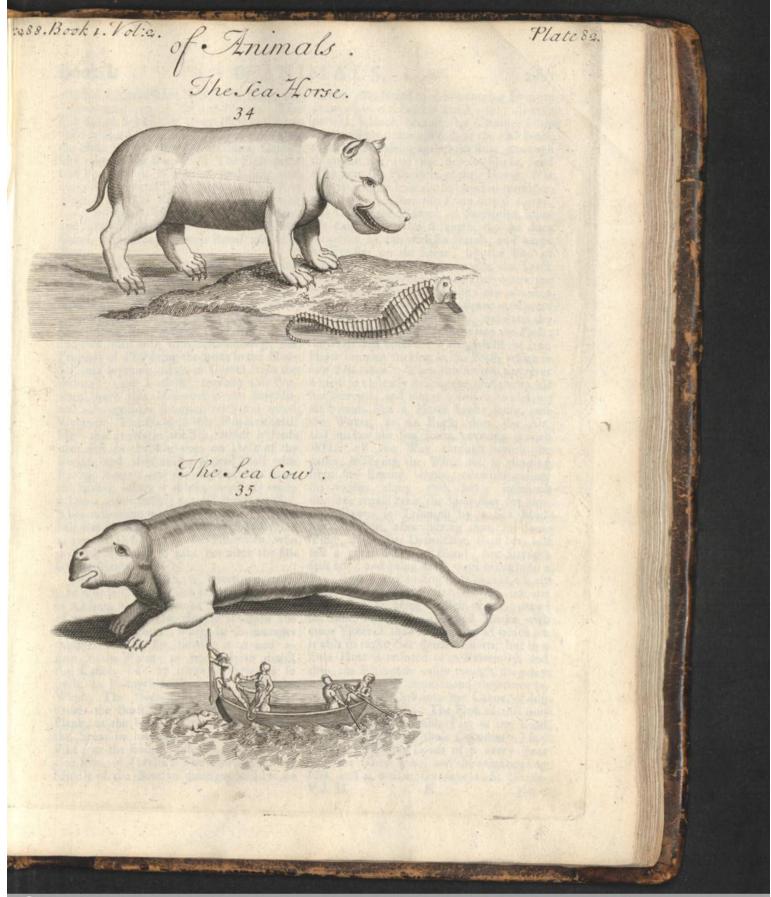
fays, that the Ashes of the Hippopotamus, or Sea Horse, incorporated with liquid Pitch, or other fat Body, will make the Hair grow: The Tooth worn, or a Ring made thereof, helps the Hemorrhoids, and easeth the Tooth-ach; a Ring made of the Pizzel, and worn, is said to cure the Cramp; the Testicles have the Virtue of Castor.

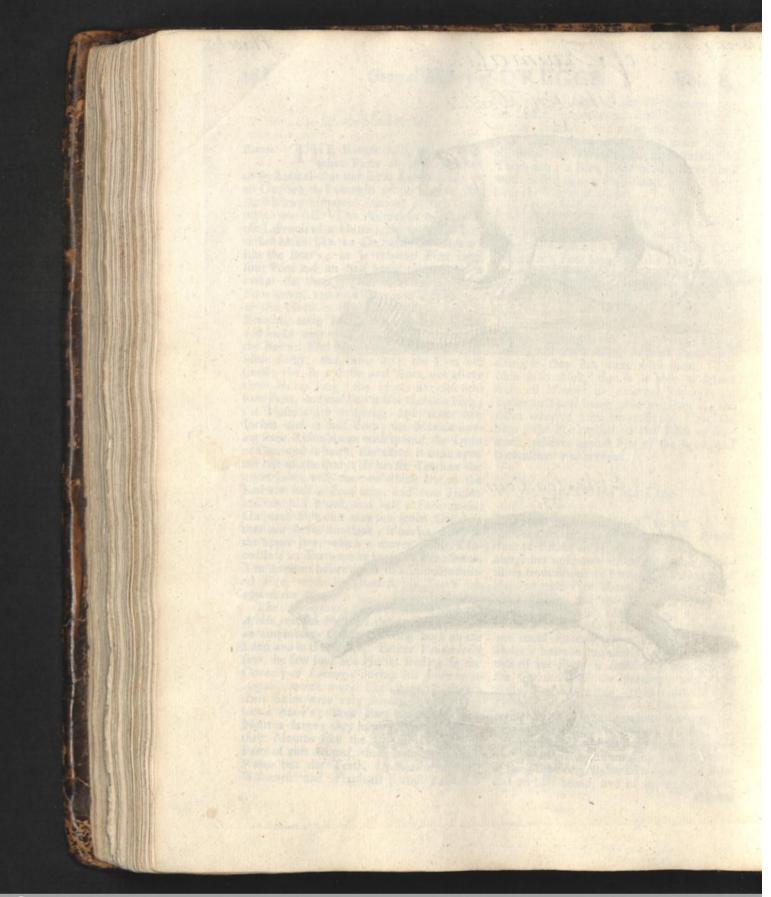
Hippopotamus, or the Sea Horfe, is a four-footed Animal, as big as an Lemery.

Ox; the Head is very thick, refembling more that of a Calf than a Horse; the Mouth is a Foot long, and the Jaws fet with strong hard Teeth, that will strike Fire like a Flint with Steel; and are very proper to make artificial Teeth with: These Creatures delight to live in the large Rivers within Land, that they may enjoy both Land and Water, feeding upon Fish, Flesh, Plants, Pulse; and even Men, Women and Children, if they can meet with them: The Skin is so thick, that it is able to defend from all Manner of external Violence, no Bullet or Spear being able to pierce it; the Ashes whereof take away Spots from the Skin; the Fat applied to the Pulse or Stomach, relieves against Fits of the Ague, and is emollient and nervous.

35. Of the Sea Cow.

VACCA Marina, Manati, or the Sea Cow, according to the Rela- Pomet. tion of Father du Terere, is a Fish altogether unknown in Europe; it is sometimes from fifteen to fixteen Foot long, and feven or eight Foot about; it has the Muzzle of an Ox, and the Eyes of a Dog; the Sight is very weak, and it has no Ears, but in their Stead two little Holes, whereinto one could scarcely put a Finger: By these Holes it hears so exquisitely, that the Weakness of the Sight is sufficiently supply'd by the Quickness of the Hearing; under the Belly, next the Head, are two little Feet in Form of Hands, having each four hort Fingers and Nails, and therefore it was by the Spaniards call'd Manaty, which is to fay, the Fish with Hands: From the Navel it grows less and less, 'till it forms the Tail, which is in the Shape of a Baker's Peal; it is a Foot and an half broad, five or fix Inches thick,





like Veal, but it is a great deal finer, and cover'd, in several Parts, with three or four Fingers thick of Fat, of which they make Lard, as they do of Hogs; this is excellent, and several People melt it and cast it into Cakes, which they eat with Bread instead of Butter.

The Flesh of this Animal being salted loses much of its Taste, and becomes as dry as Wood; I believe that must be attributed to the Salt of the Country, which is very corrofive: They find in the Head of this Animal four Stones, two large ones, and two small ones, to which they affign the Property of Diffolving the Stone in the Bladder, and bringing away of Gravel from the Violence. The Food of this Fish is a small Herb that grows in the Sea, which it feeds upon just as the Ox does on those of the Fields; and after having glutted itself with Eating, it hunts out for the fresh Water up it lies a Sleeping with the Snout or Muzzle half out of Water, whereby the is discovered at a good Distance by the Fishermen, who prefently fer about to take her after the following Manner.

Three or four Men, or sometimes more, take a little Canoe, which is a small Boat, all of a Piece, hollowed out of a Tree, in Shape of a Shallop: The Rower is upon the Stern of the Canoe, where he so manages the Flat of his Oar, moving it to and again in the Water; as not only to direct the Canoe, but to move it forwards fo fwift, as if carried by a Sail before the Wind. The Spear-man, which is he that strikes the Beast, stands upright on a little Plank, at the Head of the Canoe, holding the Spear in his Hand, that is a Sort of Pike; at the End of which is fix'd a cram-

cloath'd with the same Skin as the Body, and Cable, that is tied to the cramping Iron, to entirely made up of Fat and Nerves. This draw when the Beast is struck; they all keep Fish has no Scales like other Fish, but is co- perfect Silence, because this Creature hears ver'd with a Skin thicker than that of an Ox; fo exquisitely, that a Word, or the least Noise the Hide is of a very brown Slate Colour, of the Water dashing against the Boat, is enough like that of the Sea Wolf: The Flesh tastes to awake her and put her to Flight, and disappoint the Fishermen of their Hopes. It is diverting to fee how the Spear-man trembles, as it were, for fear the Prize shou'd escape, and fancies the Rower, or Steerlman, does not employ half his Strength, tho' he does whatever he can with his Hands, and keeps his Eye fixt on the Spear, by the End of which the Spear-man points out the Track he must keep, to come at the Place where the Fish lyes fast a-sleep: When the Canoe is within three or four Paces of it, the Spear-man gives a Stroke with all his Strength, and darts the Cramp-Iron at least half a Foot into the Flesh; the Shaft falls upon the Water, whilft the Iron Head remains sticking in the Beast, which is now half taken. When this Animal perceives Kidneys; but I cannot approve this Pra- herfelf so violently struck, she musters up all ctice, fince this Medicine is too emetick, her Strength, and makes use of it to escape : and acts upon the Stomach with too much she bounds like a Horse broke loose, cuts the Waves, as an Eagle does the Air, and makes the Sea foam, covering it with White all the Way through which the paffes; believing the While the is escaping from her Enemy, whom, notwithstanding, the Rivers, where it drinks plentifully twice the carries along with her; infomuch a Day. After having eat and drank its Fill, that one would take the Spear-man for Negatune drawn in Triumph by a Sea Monfter. In shorr, after having thus, for some Time, drawn her Destruction after her, and loft a great Share of Blood, her Strength fails her; and being as it were brought to a Bay, she is forc'd to stop short to take a little Reft; but the no fooner lies by, but the Spear-man, to bring himfelf nearer, draws the Line, and makes a second Stroke with more Violence than the former, at which the is able to make but flender Efforts, but in a little Time is reduced to an Extremity, and then the Fishermen easily enough drag her, a-Shore the first little Island they come ar, where they put her into the Canoe, if big. enough to hold her. The Flesh of this Antmal makes a confiderable Part of the Food of the Inhabitants of those Countries: They carry feveral Ship Loads of it every Year ping Iron, or Javelin: The Third fits in the from the Terra firma, and the neighbouring Middle of the Boat to manage the Line or Isles, and as well at Guadalouga, Sc. Christo-Vol. II. phe13, -

phers, Martinico, as other adjacent Islands, they fell a Pound of it for a Pound and a half of Tobacco.

The Stone taken from this Animal has many medicinal Uses affign'd to it, and was a Thing unknown to the Ancients; it is a whitish Stone, or rather a Bone taken out of the Head of the Manatea Fish, that is white and hard; sometimes like a Tooth, and so newhat resembling the whitest Ivory, but much harder; it is a fix'd Alcali, absorbs Acids, eases the Pain of the Stomach, cures Heart-burning and the Colick; is good against Stone and Gravel, and to expell Urine: The Powder is made by Levigation, and is given from a Scruple to a Dram; the Calx is made by calcining it either alone, or with Sulphur and Nitre; Dose from half a Dram to a Dram, in any appropriate Liquor. Manati, vel Vacca Marina, the

Lemery. Sea Cow, is a large Sea Fish of America, of fifteen or fixteen Foot long, almost round, being five or fix Foot Diameter, of a frightful Figure; the Head is like a Calf's, but the Snout is more meagre, and the Chin thicker; the Eyes are fmall, and require a great Light, for the Sight is very weak; the Ears are made up of nothing but two little Holes, tho' the Hearing is very fine: The Skin is us'd to make Shoes of; the Fat or Lard, besides that the Inhabitants eat it for Butter, is a good Emollient, and discussing Unguent. The Stones taken out of the Head, which are of two different Sizes, are reckon'd emetick; tho' they are given inwardly in Powder, to twelve Grains and upwards, for nephritick Pains, and Stone in the Kidnies and Bladder.

36. Of the three Kinds of Tortoiles, viz. The Frank or True Tortoife, the Kaouanne, or great Headed Tortoife, and the Caret, or Least Tortoise.

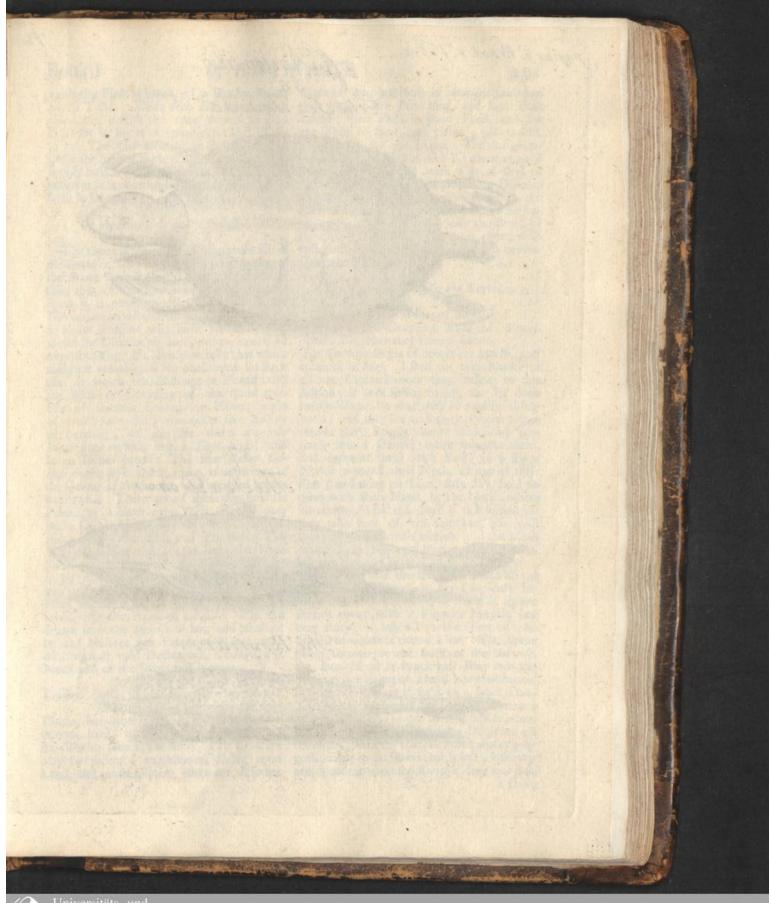
Pomet. THE Figure which I have given of the Tortoife is fo exact, according to the Reverend Father Du Tertre, that it wou'd be losing of Time to give any Description of its Shape; and I shall think it sufficient to describe what is peculiar to those of the Isles, and what diftinguishes them from the European Sort: We may fay in ge-

they are dull, heavy, stupid Animals, and without Brains; for in all the Head, which is as big as a Calf's, there is not found any above the Bigness of a small Bean; their Sight is extraordinary, their Bulk fo large, that the Shell they carry on their Backs is sometimes five Foot long, and four broad: Their Flesh, particularly that of the Frank Tortoife, is so like that of an Ox, that a Piece of Tortoife compared with a Piece of Beef, cannot be diftinguish'd but by the Colour of the Fat, which is of a yellowish Green, There are of these Tortoifes, which taken from the Bone yield half a Barrel of Provisions, without taking in the Head, the Neck, the Feet, the Tail, the Tripe, and the Eggs, which is fufficient to feed thirty Men; befides which, they make from the superfluous Fat, fifteen or twenty Pots of Oil, as yellow as Gold, excellent for Frittures, and all Sorts of Sauces, especially when new ; for when old it is fit for nothing but Lamps. The Flesh of the Tortoise is so full of vital Spirits, that being cut in Pieces over Night, it will ftir again the next Day.

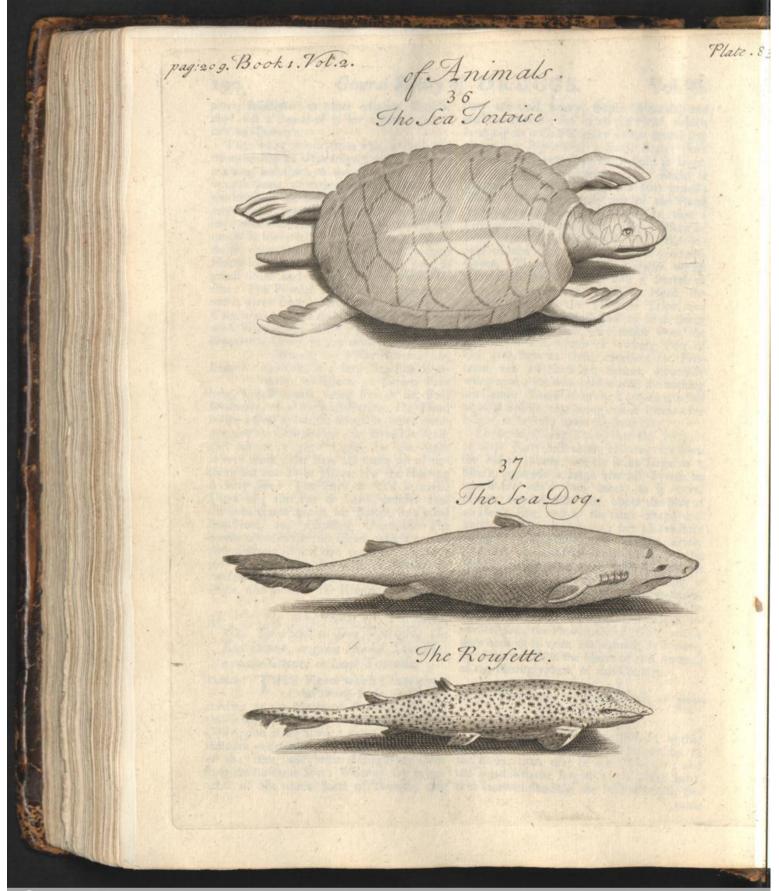
I believ'd a long Time, that the Tortoifes of these Parts had three Hearts; for from the Heart, above, which is as large as a Man's, proceeds a large arterial Trunk, to which are join'd two other, as it were, Hearts, on each Side one, about the Size of an Hen's Egg, and of the same Shape and Substance with the former; but I have fince chang'd my Opinion, and believe firmly that they are nothing but the Ears of the Heart; but be that as it will, 'tis certain that when rightly display'd upon a Table, it makes the Resemblance of a Flower-de-lis, which may be reckon'd a good Omen of the Puture Success of the French Colonies in America, fince the Providence of God, which does nothing in vain, has planted, as it were, the Flower-de-lis in the Heart of this Animal, as the Hieroglyphick of this Country.

Of the Kaoiianne, the Loggerhead, or great Headed Tortoile.

This differs from the true Tortoife, in that the Head is much larger, in Proportion to the Body, than that of other Tortoifes; and tho' it is much the largest of the three Sorts, neral of the three Sorts of Tortoifes, that it is notwithflanding the least efteem'd, be-







an ill Tafte. Those who fish for the Kaymans mix it with the true Tortoile to get a Price for it, but it communicates its ill Taste to it. The Oil made from it is acrid, and spoils the Sauces with which it is mix'd, and is only us'd when the others can't be had; however it is not useless, because it serves to burn in Lamps.

Of the Caret, or small Tortoile.

The Caret is the least of all the three Kinds of Tortoifes, the Fish is not so good as that of the Frank Tortoife, but is a great deal better than that of the Kaoiianne; the Oil drawn from it is excellent for Weakness of the Nerves, Sciatica Pains, and all cold Defluxions. I know Persons who have found it very useful for Diseases of the Kidneys, caus'd by over straining, &c. but especially that which makes it valuable, is the Shell upon its Back that is worth ten Shillings a Pound: All the Spoil or Covering of the Caret confifts of thirreen Leaves or Plates, eight of which are flat, the other five hollow or bending; of the flat there are four large ones which are a Foot high, and feven Inches broad : The fine Caree Tortoile ought to be thick, clear, transparent, of the Colour of Antimony, and marbled brown and white. There are of them that bear fix Pound of Leaves upon their Back; they make Combs and other fine Works of 'em, that are very beautiful and valuable. The Way of raising the Leaves from the large Shell, which is properly the Tortoife's House, is by making, when all the Flesh is taken out, a Fire underneath; and as foon as the Heat affects the Leaves, they are eafily rais'd with the Point of a Knife. The Oil drawn from the Tortoife is hot, and efteem'd by the Natives and People of France, who use it against cold Defluxions, Cramps, and Numbness of the Joints and Nerves.

Testudo, the Shell Fift, or Tor-Lemery. toife, is an aquatick four-footed Animal, that is very ugly in all its Land, and in the Water; there are different are ignorant that the Tortaile does not lote

cause the Flesh is black, of a Sea Smell, and Sizes of 'em, but those in America are often met with of five Foot long, and four Foot broad; their Flesh is good Food, and has the Taste of Beef, and yields a yellow Oil, very proper for the Lamp. The Europeans use the Tortoife Flesh in their Kitchens as good Meat; they abound with a great deal of volatile Salt and Oil, are proper for Difeases of the Breaft, and Confumptions in the hectick Fever; and are very restorative being eaten in Substance, or else the Broth of the Flesh. The Blood dry'd, is esteem'd in epileptick Fits; the Dose being from twelve Grains to a Dram.

The Way of Fishing for the Tortoise.

There are three Ways of Tortoife Fishing, viz. in Coupling, with the Pomet. Spear, and when they come a-Shore. The Tortoifes begin to couple in March, and continue to May. I shall not take Notice of all the Circumstances that relate to this Action; it will fuffice to fay, that 'tis done

on the Water, so that they are easily discover'd; and they are no fooner perceived than two or three People throw themselves prefently into a Canoe, make towards them, and come at them with Ease; they slip a Nooze a-round their Neck, or one of their Feet; or having no Line, they lay hold on them with their Hand, by the Neck, where 'tis uncover'd by the Shell; and fometimes they take both of 'em together, but most commonly the Female escapes, and the Males at that Time are very lean and hard Meat,

but the Females very good.

The Spear for the Tortoife is much of the fame Sort as that of the Sea Cow, only inflead of the barbed Iron, a Piece of Iquare Iron of about halfe a Finger's Length, and very sharp, is fasten'd to the Top of the Spear, to which is tied a Line, The Spear being thrown at the Back of the Torroife, the Iron Head is struck half Way into the Shell, which being of a hard bony Substance, it flicks as firm as if fix'd in a folid Oak. The Tortoife perceiving himfelf struck, makes Limbs, but cover'd with a fine large Shell, the same Struggle to get loose as the Sea Cow. smooth, hard, bony, oval and marbled, or and the Spearman uses the same Diligence to stain'd with several Colours. This Creature take him. Some say that the Force abates promay be reckon'd amphibious, living upon portionably to the Blood that is loft; but they

a Drop of Blood at the Place where it is by the Way, they fry whole, and so they are wounded, 'till the Iron is taken out.

The Time of taking the Tortoife upon Land is from the first Moon in April to that of August; for when the Tortoise perceives the Inconvenience of its Bulk by its own Weight and great Quantity of Eggs, which are fometimes above two Thousand, being forc'd by a natural Necessity, she quits the Sea, during Night, and comes to find out upon the Shore, a proper Place to lay her Burthen in, or at least some Part of it; and having found out one convenient for this Purpole, which is always a Heap, or Neft of Sand : the contents herfelf that Night, in only taking a View of the Place, and retires gently into the Sea again, leaving the Bufinels to be done the Night following, or very speedily; all the Day the feeds upon the Plants grow. ing on the Rocks in the Sea, without being far diftant from the Place where the is to lay her Burthen.

The Sun being upon the Declenfion, they may be feen drawing nearer to Land, and watching here and there, as if they mistrusted an Ambuscade; and as their Sight is very piercing, if they perceive any Body on the Shore, they will feek out for another Place wherein they have more Confidence; but if they see no Body they come a-Shore when 'tis dark: After having observ'd all Sides with great Diligence, they begin to work and dig in the Sand with their fore Feet, making a round Hole of a Foot broad, and a Foot and half deep; which being made, they lay therein two or three hundred Eggs, as big and round as a Tennis Ball : The Egg-Shells are foft as wetted Parchment; the White will not boil at all, tho' the Yellow hardens eafily. The Tortoife remains above an Hour in laying her Eggs; and during that Time a Coach might drive over her Body, and she not ftir from the Place. Having discharg'd her Burthen without Interruption, she covers the Hole to dextroufly, and throws the Sand about every where, that it is extremely difficult to find the Eggs: That being done, she leaves 'em and returns to the Sea. The Eggs are thus hatch'd in the Sand in about forty Days Time; at the End of which the little Tortoifes being as big as young

delicious Meat.

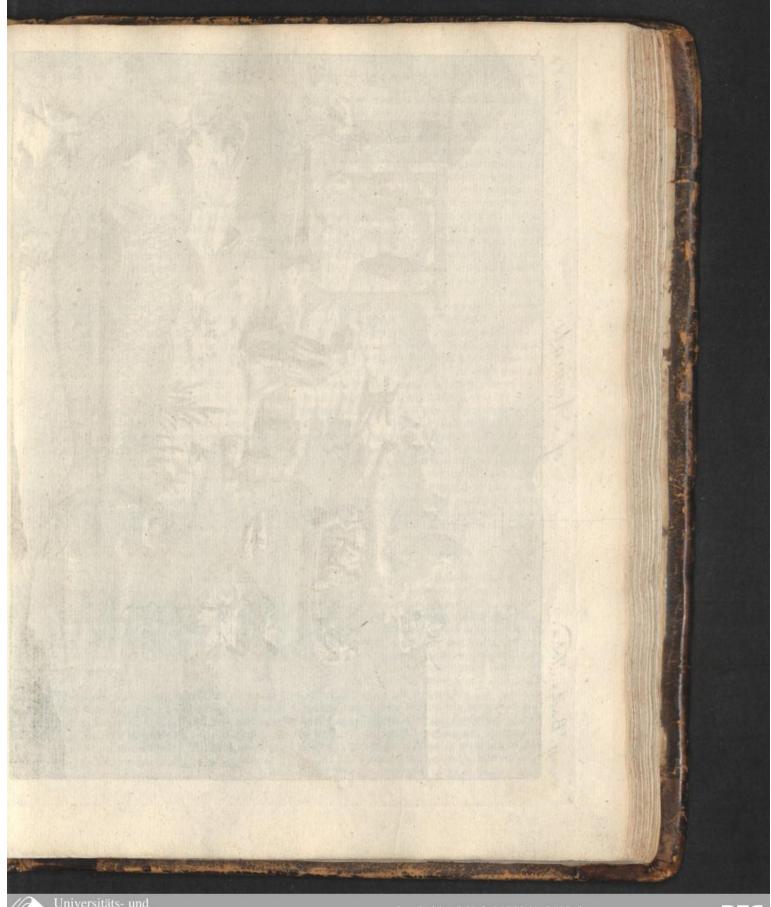
37. Of the Sea Dog.

THE Sea Dog is a pretty large Fish, that is found in several Pomet. Parts, but especially in Spain, and at Bayonne. Of all the Parts of this Fish, we fell none but the Skin, because of the great Service it is of, to the Workers in Wood, as Turners. Sc. being very proper to polish withal. The true Dog-Skins, to be fine, ought to be large and broad, of a rough Grain, not too thick or too thin, but fupply'd with Ears and Fins.

We bring befides, from the lower Normandy, the Skin of a Fish that is very like the Sea Dog, and which they call Doucette, or Rousette, the spotted Fish, which some Workmen use instead of the Dog Skin, tho' there is a good deal of Difference, because the Dog-Skin is very rough, and the Rousette very little fo; and befides, the Dog-Skin is always brown, and the Rousettes are of different Colours, and constantly spotted on the Back with small Stars; besides they are much less, which is the Reason why these Skins are very little us'd at Paris, and scarce any where else but in Auvergne. Those two Kinds of Skins are, over and above those mention'd, serviceable to other Tradesmen, as Sheathers, Cafe-Makers. We fell likewife another Fish Skin, which has no other Use in France, England, and other Parts,

than to make Knife Handles of. Mustelus, Galeus, or Levis is a Kind of Sea Dog, which the Ita- Lemery. lians call Pefce Columbo, or a Fish that weighs above twenty Pounds; it is cover'd with a Skin that has no Scales, that is fost to the Touch, and of a whitish Colour, without Teeth, but the Jaws are rough, and it feeds upon Fish; the Fat is resolutive and emollient.

There is another Kind of Dog Fish which is call'd Galeus Afterius, sive Mustelus Stellaris, or the Star Dog Fish, that is like the former, only for the Spots upon it that are in the Form of Stars; the Virtues and Uses of Quails make straight to the Sea, without being it are the same with the other: This Fish is shown the Way. Those that are taken call'd Mustelus, as if you shou'd say, Mus stel-







latus, because this Fish, in its Colour, some- Sorts new, firm, well done in good Oil, and

28. Of the Tunny Fish.

THE Tunny, which the Latins call Thunnus, is a pretty large, heavy, big-bellied Fifth, which is plentiful in the Mediterranean, especially in Provence, and at Nice, from whence comes what we fell: There are likewise a great many of them upon the Coast of Spain. The Time of Fishing for the Tunny is in September and October; and there are so many things peculiar therein, that it is by the Fishers shown to Strangers: These two Months are the Time when the Tunny runs from the grand Ocean into the Mediterranean, towards the Levant, as the Anchovies; I shall lay aside what relates in particular to this Fish, to inform you, that when the Month of September comes, they cast their Nets made of small Cane, which they call the Madrague, which is divided as it were into feveral Partitions, or different Parts, of which the first is larger than the others; fo that the Tunnys entring the larger first, do not return 'till the Ner is full, which it is in a small Time, where the Fishery is good, as well from the Plenty as the Largeness of the Fish: The Net being taken out of the Sea, the Fish die, not being able to live out of the Water; then they hang them up in the Air, open them, take out their Entrails, and take off the Head; and having cut them in Pieces, broil them on large Grid-Irons, and fry them in Oil Olive, and after having feafon'd them with Salt, Pepper and Cloves, and some Bay of the Preparation, Sea Tunny.

have no other Difference but that some have not affect them. the Back Bone taken out, and for that Reason are call'd Bon'd Tunny, and are usually put up the River of Genoa, in Catalonia, at Nice, in little whiteWood Barrels, broad at the Bot- Antibes, St. Tropez, and other Places in Protom, and narrow at Top; and that which is vence: They are taken most commonly in

what refembles that of a Mouse or Rat, and the Flesh white like Veal: Its Use is very every one of the Species are spangled with common in Europe, and several other Paris of the World, as well because it is ready to eat, as because it is of an excellent Taste, like unto Veal. They commonly catch with the Tunny another Fish, which the Provincials call Imperador, or Emperor, and Dolphins are also there to be seen, which are always two and two together, since they are accufrom'd to fly into the Air at this rate; which getting out of the Nets suffer not themselves to be taken, where it is wonderful to fee how they leap both together in one Moment, and fall again into the Sea at once, as if they were tyed together.

Thunnus, vel Thynnus, or the Tunny is a large, heavy, big-bel- Lemery. lied Fish, which is found plentifully in the Mediterranean Sea, in Provence, Italy and Spain; it is cover'd with large, smooth, straight Scales, eats Acorns, and other Sort of Maritime Food; the Flesh is firm, very good to eat, being of a Veal Tafte, but is falted to prepare and keep it for Transportation when it is called Tunny; it is very nourishing, and of good Juice, and yields a great deal of volatile Salt; it is reckon'd proper to resist Poison, against the Bite of a Viper, &c. being eat and apply'd outwardly. This Fish is call'd Thunnus, from the Greek Word fieur, to be carried with Impetuofity, because this Fish moves fo fwiftly.

39. Of Anchovies.

BEfides the Tunny we fell Anchovies that come from the fame Parts Pomes. as the Tunny; and as we have confiderable Trade with them, we chuse the Leaves, they put 'em into little Barrels, thus leaft and newest, being white without, and drefs'd, and ready to eat with fresh Oil O- red within, that are firm, and have round live, and a little Vinegar, or to transport into Backs, because they pretend that the large feveral Parts, where this is call'd, by Reason and flat ones are the Sardins: When the Barrels are made up, the Pickle ought to be We have two Sorts brought to Puris, which well tafted, and Care taken that the Air do

Anchovies are taken in several Parts, as in unbon'd is in little round Barrels: chuse both the Night, and always in May, June, and Fully. July, which are the three Months in the little Fish they eat in Languedoc, and par-Year, that they come from the grand Ocean into the Mediterranean, to go to the Levant. When they fish for the Anchovies, and wou'd take a Quantity, they light a Fire upon an Iron Grate at the Poop of the Ship, to the End that the little Fish following the Light may be the easier taken; but that which is very remarkable in this Fishing is, that the Anchovies that are taken by Means of the Fire, are not to good, or fo firm, nor will they keep so well as those which are taken without it. The Fishery being done, they tear from the Head the Gills, or other superfluous Garbage; and this is the Difference betwixt them and the Sardins, where they are left in; and not as Mr. Furetiere says, because of the Gall, which he in his Books takes Notice of to be in their Heads. As to the Manner of ordering of them, they do nothing but range them in little Barrels of different Weight and Sizes, not weighing above five or fix and twenty Pounds, in which they pur a due Quantity of Salt with the Anchovies. We fometimes, but very rarely, have dry'd Sardins prepar'd the same Way as red Herrings; but the little Confumption there is of them, gives no Encouragement to the Dealers to make any Demands for them. Being at Royan, a little Town of Xaintogne, where there are a great many Sardins, several Fishermen affur'd me, that thefe Fish never swam but in Shoals, and that under the Conduct of a King or Captain, like the Bees.

Apua, five Aphya, or the Ancho-Lemery. vy, is a little Sea Fish as thick and long as one's Finger, having a thick Head; the Eyes are broad and black; the Body of a Silver White, and reddish within, and the Back round; they do not Iwim but in Companies, and cling fast one to the other. These Fisheries are made in leveral Parts; and when the Fish are taken they gut 'em, and take out of the Head what is apt to putrifie, then falt 'em up in Barrels. The little Anchovies are valued more than the large ones; they contain in them a great deal of Salt and Oil; they are aperitive, and proper to raile the Appetite, but they serve more for Food than Physick. The Sardin is a Kind of Apua, that is something larger and flatter than the Anchovy, but not

takes fomething of the Nature of the Apua, which is a Name given in general to thefe three little Fishes, and in particular to the Anchovy.

40. Of the Sea Hog.

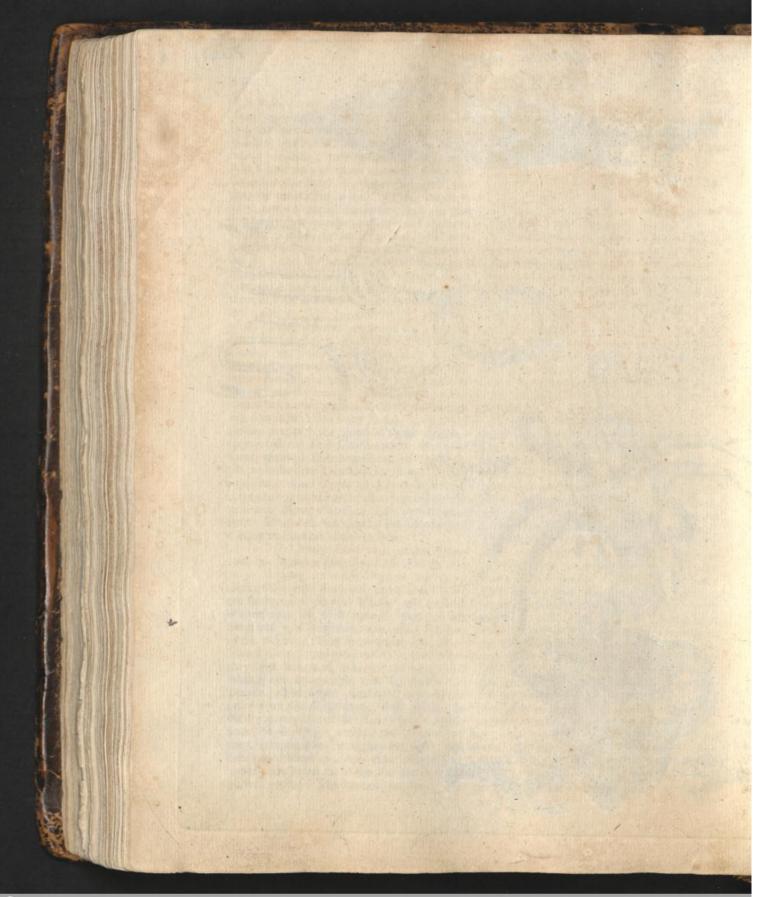
HE Sea Hog is a large Fish very well known, the Use of which Pomet. is very confiderable, because it is excellent Food, which is the Reason why some have rank'd this among the Royal Fish. Of all the Parts of this, we fell none but the Fat or Oil aromatiz'd, or plain, which is nothing but the Fat melted, and by the Addition of some Aromaticks, alter'd from its stinking Smell, and made pleafant: They affign to the Fat and Oil of the Sea Hog the Property of curing cold Humours. Some Apothecaries, by the Retort, draw from this Fish feveral Preparations, to which they attribute different Virtues.

Delphinus, five Porcus Marinus,

or the Sea Hog, is a large nimble Lemery. Sea Fish, that is almost always leaping out of the Water, and swims with a vast Swiftness; they commonly call it Simon, quafi Simum rostrum habens, as having a flat Nofe or Snout; the Tongue is short, broad, fleshy, and in Motion: The Teeth little and marp, rang'd like the Teeth of a Comb: The Eyes are large, but fo cover'd with a Skin, that appears only like the Apple of the Eye, yet the Sight is very fine; the Voice is like that of a Person crying; the Back is hollow'd, and bent outwardly; it fwims by Means of two Wings, or strong able Fins, which are let on at the Place of the Shoulders; it comes to its Growth in ten Years, and will live to thirty. Pliny relates feveral Stories, true or falfe, on this Subject; he will leap on Board a Ship, usually attended with a Companion; These two Fish will make their Leaps so regularly, that they feem to be joyn'd together; there are many of them taken in Fishing for the Tunmy; they are very good to ear, and yield Abundance of Oil and volatile Salt. The Stomach dry'd and powder'd is proper for Diseases of the Spleen, and the Liver for inso well tasted: The Melette, or Sprat, is a termitting Fevers. The Sea Hogs are made almost







same Purposes.

41. Of the Bone of the Cuttle Fish.

THat which we now fell, and call the Bone of the Cuttle-Fish, and the Latins Os Sepie, is the Back Bone of a Fish very common in the Ocean, and also in the Mediterranean; they are very ugly Fish, and of a very surprising Nature; they eat them in feveral Towns in France; as Lyons, Bourdeaux, Rochel, Nants, &c. The Bone of this Fifth is of different Sizes, tho' the largest never exceeds above half a Foot; the Bones are white and hard on one Side, and foft on the other, for which Reason the Goldsmiths use it for Casting; some use the Cuttle Bone to clean the Teeth with, but the main Use is for the Goldsmiths, and for those who cast Venetian Lac.

This Bone confifts of a hard brown Shell on the outfide, with a thick, white, fpungy, dry Pulp or Substance underneath it, which being rub'd between your Fingers, will become a pure white, fine, subtil Powder, that being drunk in Water, helps the Afthma, and is good against Diseases of the Breast and Kidneys, expelling the Stone and Gravel, and curing a Gonorhea, taken for a confiderable Time together: Outwardly apply'd, it helps Spots, Clouds, Films, Pearls, and other Impediments of Sight, and likewise dries up Rheums, and other watery Humours.

Sepia, the Cuttle Fish, is a de-Lemery. form'd Sea Fish, resembling much a Polypus: The Covering of the Back is a Sort of Shell, Scale, or Bone, as thick as one's Hand, an Inch thick in the Middle, but thinner on the Sides, light, hard without, and spungy within, very white, and fomething of a faltish Taffe; they call it Os Sepie, or Cuttle Bone; the Goldsmiths use it for Moulds to cast Forks and Spoons in. This Fish carries under its Throat a Bladder, or Receptacle, full of an Humour that is blacker than Ink, which it discharges into the Sea, when purfued to intercept the Sight of the Fishermen; it has two Kinds of Arms, low Trees, living upon rotten Leaves and or Trunks, fix'd to the Head, which serve it Fruit, where increasing in Bulk, and

almost like the Dolphins, but they are not Besides these, it has six Feet which have Teeth fo little : The Fat of both are us'd to the on the upper Part of 'em, and two much larger underneath; it lives on small Fish, is good Meat, and brought to the Table in feveral Parts of France: As to its medicinal Use, it is deterfive, aperitive, deficcative, proper to take away Freckles and Spots on the Face and Skin, to clean Teeth, provoke Urine, and bring away Stone and Gravel: Dose from half a Scruple to half a Dram. The Eggs or Spawn of the Cuttle-Fish provoke Urine and the Terms.

42. Of the Crevife, or Craw-Fish.

THE Crevise, says Father Du Tertre, is a Kind of small Crab, Pomet. of three or four Inches long, or more; one half of the Body of which, is like a Sea Locust, or Grasbopper, but cloath'd with a Shell that is a little harder: Four Feet are like those of a Crab, two are Biters; one of which is not much bigger than of one of the four Feet, and the other much broader than one's Thumb, that shrinks up strangely, and thuts the Mouth of the Shell wherein it lodges. All the reft of the Body is a Sort of Pudding in a pretty rough thick Skin, as thick as one's Finger, and half the Length, or more; at the End is a little Tail, made up of three small Nails or Shells, like the Tail of a Sea Grashopper; all that Part is full of a Substance, like that in the Shell of a Crab, but red; and being expos'd to the Fire, or fer in the Sun, melts and runs into Oil, which is a true Ballam for fresh Wounds, which I have made Tryals of on feveral Perfons with good Succels.

They descend once every Year to the Sea Coast; but whether it is to wash, and to cast their Eggs, as the Crabs do, I know not; but this I know, that they go to change their Shells, which every one endeavours to find out according to his Size; and finding what may fit 'em, they run themselves backwards therein, and so cloath themselves a new; and being arm'd like Soldiers with these foreign Shells, they march to the Mountains, and take up their Quarters among the Rocks and holfor Swimming, and to take what it can catch: the Shell becoming 100 Rrait for them,



by Reason of their Growth, they are oblig'd with a Kind of Cancellus, or Crawfish, that fervations of what happens during the Exchange, have ingenuously own'd to me, they took a great deal of Satisfaction in the Sight; for they stop at every Shell they meet with, confider it diligently, and having met with one they believe for their Turn, they immediatly quit the old one, and run themfelves to twiftly backwards into the other, that one wou'd think they were either afraid of the Injury of the cold Air, or asham'd to be feen naked.

Aristotle, who said that these Animals never fight but for their Victuals, or when they couple, might have added, that they will fight for their Lodging; for if two of them meet at the same Time stript, to enter into one and the same Shell, they will bite each other, and battle it, 'till fuch Time as the Weaker yields, and quits the Shell to the Conqueror, who having cloath'd himfelf with it, takes three or four Turns upon the Shore; and if he find it does not fit him, he quits it again, and has immediate Recourse to his old one, and then feeks out for another; and thus they will change five or fix times, 'till they meet with one for their Purpole. They carry in their Shells about half a Spoonful of clear Water, which is a fovereign Remedy against the Pustles and Blifters, that the Drop of a certain Tree in the Mountains railes upon the Skin.

Cancellus is a Sort of very small Lemery. Crawfish, call'd the Hermit, or Bernard the Hermit, because it retires from the others, and enters into the first Shell it meets with; the Figure of his Body is longish, but in Size of the Bulk of a Spider, only that it is a little larger; it carries upon its Head two little, flender, reddift Horns; the Eyes are rais'd, the Mouth is fet with fine Hairs, that may be call'd a Beard: The two upper Legs are bent up again, and serve instead of Hands to reach to the Mouth, where it has Teeth; they are found near the Rocks, and are good Mear, feveral eating them after they are wash'd and boil'd; they afford a great deal of volatile Salt, and are proper for Stone and Gravel, being aperitive.

to go down to the Sea Coast to change their is much bigger than that I have been speak-Houses. The Curious, who have made Ob- ing of, and that is three or four Inches long, and call'd the Soldier, because he is cloath'd and arm'd with a foreign Shell. Those who wou'd know further may be fatisfied from the Reverend Father Du Tertre, who has writ concerning this Animal, [as Pomee has already taken Notice of.] The Inhabitants of the Isles where this Fish is taken make an Oil of 'em, by hanging them in the Sun, so that the Substance that melts from them makes an Oil of a Confiftence as thick as Butter, and of a very fetid Smell : the Virtues of which are wonderful in rheumatick Pains, to which the Inhabitants of the Country are very subject. They sell this Oil very dear, because it is very scarce in France.

43. Of the Sea and River Crab.

Here are two Sorts of Sea Grabs. fays Father Du Tertre, which are commonly call'd Homars, which differ not but as to the Size of their Claws, fome of which are as long and as broad as one's Hand, and much stronger than those of the Crabs, and grow to a vast Size, so that some are three Foot long; their Flesh is white, and more relishing than the Crabs, but it is harder, and more undigefted; it is eat with Lemon, or Vinegar and Pepper: They find them in the Night with Lights on the Sands, or flony Places, from whence the Tide is retired.

There are no Parts of the great Sea Crab used in Medicine, but the black Tips of the Claws, call'd Cheli Cancrorum, which are prepar'd either by Levigation, or Calcination: The First is by beating them to a fine Powder, and grinding on a Marble with Rofe-Water, or the like: The next Way is putting them in a Crucible, and burning them 'till they are white, and then reducing them into a fine Powder as before. These Preparations are Alcalies in their own Nature, and fuch as Phyficians call a fix'd Alcali; they cure Heart-Burnings, take away Sournets from the Stomach, absorb Acidities, and ease Pains in the Bowels, proceeding from In several of the American Isles they meet sharp Humours : They are sometimes given

with good Success in the Whites in Women, and the Gmorrhaa in both Sexes; they are commended to cool, dry, cleanse, and discuss, and are good against Colicks, salt Humours, &c.

As to the fresh Water, or River Crabs, we fell nothing but a little white Stone, made in Form of Eyes, from whence they take their Name, tho' very improperly, fince they are nothing but little Stones which are found in the Head of the large River Crab. These Stones which are call'd Crabs Eyes, or Oculi Cancrorum, are never found but in May and Tune, which are the Times that the Crawfish leave their Shells. The Crawfish, or Crevise Stones, which we now fell at Paris, come from Holland: And, if we can believe a Phyfician of the Poland Envoy, who was a very honest, able Man, and remain'd a long Time in Holland; he affur'd me, that what we fell now under the Denomination of Crabs Eyes, was nothing but a white Earth wash'd, and made into little Pastiles or Troches, and moulded with a little Instrument made for the Purpole, with Holes of proper Sizes to form it: To prove this, he affured me he faw two Persons at Amsterdam, who did nothing else but counterfeit these little Stones; fo that now it is no longer doubted, but the greatest Part of the Crabs Eyes made use of in the Shops, is nothing else but an artificial Paste reduc'd to Powder; for Crabs Eyes are nothing but a little, thin, hollow Shell: of which there are some of a large Bigness, as the Chester Lobsters, every one having two Stones in the fore Part of the Head, beyond their Eyes. In Silefia they have great Quantities of them, as also in Poland; and they are brought from Dantzick, Hamburgh, Denmark, Norway, and Swedland, and are found upon the Shoar, almost every where of the Baltick Ocean.

There are several Preparations of them, but the levigated Powder is only us'd, and that chiefly to absorb Acids, open Obstructions, and cleanse the urinary Passages of Gravel, to provoke Urine, and bring away the Stone, and other tartarous Coagulations: They are sometimes calcined in a Crucible; and if they are rightly prepar'd, they ought to be yellow; for if they are of a black Colour, they are too much burnt,

and good for nothing.

44. Of the Boutargo and Caviere.

Bourargo, or Potargo, is the Spawn of a Fish, which the People of Pomet. Provence call the Mullet, very frequent in the Mediterranean: The best is that which comes from Tunis in Barbary; it is likewise made at Martegue, eight Leagues from Marseilles, the reddest is most valued, they eat it on Fast Days with Oil Olive and Lemon.

The Caviere, or Cavial, which we have, comes from Italy, and is made in feveral Parts of the Levant from the Spawn of a Fish, which some have affur'd me was that of a Sturgeon, which I shall not affert to be so, not knowing it positively; I shall only say this, that they eat a great deal of it in Italy, and little in France, not being so well known, no more than the Boutargo, especially at Paris.

Mugil, Cephalus, or the Mullet, whereof Boutargo is made, is a Sea Lemery. and River Fish, which has a great Head, from whence it is call'd Cephalus, which fignifies a Head; the Muzzle is thick and fhort, the Body oblong, cover'd with Scales. They find a Stone in its Head, which is call'd Echinus, or Sphondylus, be-cause it is set with Prickles. This Fish is common in the Mediterranean, it swims with an extraordinary Swiftness, and gives some Diffurbance to the Fishermen; it is good Mear, and yields Abundance of Oil and Flegm, with some little volatile and fix'd Salt. The Ventricle being dry'd and reduc'd to Powder, is proper to ftop Vomiting, and strengthen the Stomach: This Stone found in the Head is very aperitive, and proper to diffolve the Stone in the Kidneys and Bladder: The Dose is from half a Scruple to two Scruples: The Spawn of the Fish serves to make Boutargo of, which is usually eat on Fast Days.

45. Of the Shark or Sea Dog.

This Fish is call'd by the Spaniards, Pomes.

Phiburon, by the Dutch, Haye, and by the French, Requiem, tecause it devous

vours Men, and so is the Occasion that Dirges us'd to rub Childrens Gums with, to make are fung over 'em; it is one of the most gluttheir Teeth cut. tonous Animals in the World; nothing comes amils to him, tho' it be a Log of Wood he'll swallow it, provided it be but greafy, for he swallows without chewing ; he is furious and bold, and will throw himfelf upon the Shore, and remain on the Land, Eastern and Western Seas: There that he may have the Opportunity of catchoff the Thigh of a Man.

Befides these Animals, and the Parts whereof I have treated, we fell, tho' very rarely, the the Crocodile, Carp, Perch, &c. with the Perfia, is like falt Water, and of an ill Tafte, Jaws of the Pike; and in short, the Druggifts are permitted to fell all Sorts of falt

Fifh, either Wholesale or Retail.

Carcharias, Canis Marinus, or the Sea Dog, is an American Fish that grows to a large Size, fo as to cover'd with a rough Skin; the Head is ve- two or three Foot at the Bottom the Water is ry great, and like a Dog's; the Mouth long fweet, and pleafant to drink. When they that and broad, furnish'd with Abundance of dive to the Bottom of the Sea to draw up this triangular Teeth that are hard and sharp; Water have fill'd the Vessel, they give a Pull the Eyes are large and round, the Body car- to a small Cord which is tied to one of those rilaginous, the Tail about a Foot and an half in the Boat, which is the Signal to his Comlong, forked; the Fins are great, it swims in rades to pull him up. the deep Sea, but sometimes enters into the the Skin is of great Ule to several Artists; the Portuguese have no Porces upon the Gulf, the Head contains in it two or three Ounces every Man that fiftee pays only to the King of Brain that is very white; the Teeth are of Persia, five Abassis, whether he has Suc-

46. Of Pearl.

THE Pearls are little round Bodies, that are found both in the Pomet. are feveral Sorts of 'em which are more or ing the Paffengers; fometimes he will bite less valued, according as they are large, at the very Oars with his sharp Teeth, for round, and of a fine Water, and according Rage and Madness that he cannot get at the to the Place from whence they are taken, as Men which are in the Boat. There is found the following Account will show from Mr. in his Head two or three Spoonfuls of Brain Tavernier, who in his Travels has made a cuthat is as white as Snow, which being dry'd, rious Enquiry after them. These Pearls are reduc'd to Powder, and taken in white Wine, found, fays he, both in the East and Western is excellent for the Gravel. The Reverend Oceans; and though I have never been in A-Father Du Tertre has made a long Discourse merica, yet as well for the Reader's Satisfaction, of this Animal, to which the Reader may as that nothing may be omitted, I shall relate have Recourse; some have given the Name all the Parts where the Pearl Fishings are, of Tiberon to this Animal, and others that of beginning with these of the East. First of the Fish with two hundred Teeth ; and he is all there is a Pearl Fishing about the Isle of so furious, that with one Bite he will snap Babren in the Gulph of Persia; this belongs to the King of Perfia, and therein is a good Fortress that entertains a Garrison of three hundred Men. The Water which they Bone of the Head of the Tiberon; those of drink in this Island, and that of the Coast of and what none but those of the Country are able to drink: As for Strangers, if they will have fresh Water they must pay for it; being only to be had a League or two off, by putting to Sea five or fix Perfons in a little Vessel, and drawing Water with a Bottle be two Tun Weight; it is long and thick, from the Bottom of the Sea, where for about Water have fill'd the Vessel, they give a Pull

During the Time the Portuguese were pos-Mouths of the Rivers to pursue its Prey; it sels'd of Ormus and Mascate, every Vessel lives of Fish and Flesh, but is very eager af- that went out to Fish, was oblig'd to take ter that of Man's Flesh. Johnston relates, from em a Passport that cost five Abassis, and that he found in one of these Sea Dogs a they kept always several Brigantines to sink whole armed Man; they are of feveral fuch as refused to take any. But fince that Sizes; their Flesh is eat, but it is not good; the Arabs have retaken Mascate, and that

the Merchant also gives some small Matter to the King out of every thouland Oysters.

The second Fishery of Pearls is opposite to Babren on the Coast of Arabia Felix, near the City of Catifa, which belongs to a Prince of the Arabs, with all the Country thereabouts: All the Pearls taken in those Parts, are mostly fold to the Indies; because the Indians are not so difficult to be pleas'd as we, but are easier impos'd upon; they likewise carry some to Balfara: Those that go into Perfia and Muscovy are fold at Bander-Congo, two Days Journey from Ormus. In all the Places I have nam'd, and other Places of Asia, they admire the Pearl that is more upon the yellow Water, as well as the white, because they say the Pearl, with that Water, retains its Livelineis, and will not fade; but that the White will not last above thirty Years without loofing its lively Colour; and not only the Heat of the Country, but the Sweat of the Person that wears them will discolour them with a bale Yellow.

Before I leave the Gulf of Ormus, I must beg Leave to give an Account of that admirable Pearl, which the Prince of the Arabs had, which took Mascate from the Portuguese; he took then the Name of Imenest, Prince of Mascate, but was call'd before that, Acepb Ben Ali, Prince of Norenvae; it is no other than a petty Province, but the best of all the Arabia Falix: There grows every Thing that is necessary for human Life, but particularly the finest Fruits, and especially Grapes, whereof they may make excellent Wine. This Prince had the finest Pearl that was in the World; not for its Size, for it weighed not above twelve Carats, or its perfect Roundness; but because it was so clear and transparent, that you might almost see clearly through it. As the Gulf over-against Ormus, was not above twelve Leagues over from the Happy Arabia to the Coast of Persia, and the Arabs were at Peace with the Persians, the Prince of Masoate came to pay a Vifit to the Kan of Ormus, who treated him very magnificently, and invited to his Entertainment, the English and Dutch, and feveral other Europeans, of which Number I was one. When Dinner was over the Prince took this Pearl from a little Purse that hung

cels in his Fishery, or catches nothing at all; about his Neck, and show'd it to the Kan and all the Company. The Kan wou'd have bought it for a Present to the King of Persia, and offer'd him two thousand Tomens, but it wou'd not do : Since that, I pass'd the Sea with a Banian Merchant which the great Mogul had fent to that Prince to offer him forty thouland Crowns for that Pearl, which he would not take. This Story lets us fee as to what relates to Jewels, those which are fine are not always brought into Europe, but rather carried out of Europe into Afia, because in all those Parts, they set a great Price upon precious Stones and Pearls that are of an extraordinary Beauty, except in China and Japan, where they do not mind them at all.

The next Place, in the Eastern Parts where there is a Fishery of Pearls is, in the Sea that beats upon a large Town, call'd Manar, in the Isle of Ceylon; these are the finest for their Water and their Roundness of all the other Fisheries, but there are rarely any found that exceed three or four Carats Weight. There are, moreover, upon the Coast of Japan, Pearls of a very fine Water, and very large, but uneven or rough; but they never fish for them, because, as I have been laying, the Japoneze do not value Jewels. Although the Pearls which are found at Babren and Catifa are a little upon the Yellow, they will yield as good a Price as those of Manar, as I have observ'd; and throughout all the East, they allow they are come to their full Maturity, and will never change Colour.

I come now to the Western Fisheries, which are all in the great Gulf of Mexico, along the Coast of New Spain, and they are five in Number, lying in Order, from the East to the West, as follows: The First is along the Isle of Cuba, which is not above three Leagues about, and five, or thereabouts, distant from the Terra firma: It is in fix Degrees and an half of Northern Latitude, and one hundred and fixty Leagues from St. Domingo, in the Isle, call'd Hifpaniola; this is a very barren Soil, and wants every thing, especially Water, which the Inhabitants are oblig'd to fetch from the Terra firma. This Island is famous in the West-Indies, because it is the Place where there is the greatest Fishery of Pearls, tho'

the largest of them, exceed not five Carats which are, as it were, of a leaden Colour.

The second Fishery is in the Isle of Margarit, that is to fay, the Isle of Pearls, a League from Cuba, which it very far furpaffes in Bigness; it produces every Thing necessary for Life, only that it wants Water as well as Cuba, and they are forc'd to bring it from the River Cumana near New Cadiz. This Fishery does not yield the most Plenty of all the five that are in America, but is efteem'd the Chief, because the Pearls which are found here excell the other in Goodness, as well for their Water as their Bignels; one of these last, which I have had in my Posseffion, being shap'd like a Pear, and of a fine Water, weigh'd fifty-five Carats, and I fold it to Cha Est Kan, Uncle to the Great Mogul. Several Persons are surpriz'd, and wonder why we shou'd carry Pearls out of Europe into the East-Indies, where they have fo many: But they thou'd take Notice, that in their Fisheries of the East, they do not meet with fuch large ones, as in the West; adding to this, that all the Kings and great Lords of Asia, will give a greater Price than thole in Europe, not only for Pearls, but all Sorts of Jewels, that have any thing excellent in them, except Diamonds.

The third Fishery is at Comogota, pretty near the Terra firma. The Fourth is at Rio de la Hacha, along the same Coast. The Fifth and Last is at St. Martha's, about fixty Leagues from Rio de la Hacha. All these three Fisheries produce pretty large Pearl, but for the most Part they are ill shap'd, or irregular, and of a black or leaden Water. As for the Scotch Pearl, and those found in one of the Rivers of Bavaria, tho' there have been Neck-laces of 'em valued at a thousand Crowns and upwards, yet they are not to be equallized with the Oriental or Occidental Pearl. Of latter Years there has been a Fishery discover'd in a certain Part of the Coast of Japan, and I have seen some of the Pearl which the Dutch have brought from thence, that have been of a fine Water, and large, but irregular.

Before I finish this Chapter, I will give you a Remark worth Consideration, in Relation to Pearls, and the Difference of their Waters; some being very white, some inclining to yellow, and others upon the black,

As to these last, they are met with no where but in America, and that comes from the Nature of the Soil, which is fuller of Mud than the Eastern Parts. In the Return of the Cargo which the Sieur du Jardin, the famous Jeweller, had in the Spanish Galleons, there were fix Pearls perfectly round, but as black as Jet, and which, one with another, weigh'd twelve Carats each: He gave me these, among other Things, to carry to the East-Indies, and see if I cou'd dispose of them; but I brought them back again, and cou'd meet with no Body that wou'd look upon them. As to the Pearls which are inclin'd to yellow, that comes from hence, that the Fishermen selling the Oysters in Heaps, and the Merchant staying sometimes fourteen or fifteen Days before they open them to take out the Pearl, some of these Oysters, during this Time, do lose their Liquor, which wasts and stinks, and the Pearl becomes yellow from the Infection; which is fo true, that all the Oysters that keep their Liquor, or Water in them, are always white; but they wait 'till the Oyfters open of themselves; because if they shou'd open them by force, as we do ours here, they won'd go near to endanger and split the Pearl. The Oysters of the Streights of Manar, open naturally five or fix Days fooner than those of the Gulf of Persia, because the Heat is much greater there, which is in the tenth Degree of Northern Latitude, than in the Isle of Babren, which is in the Twentyfeventh; and therefore among the Pearls that come from Manar, there are but few yellow ones. In short, all the Eastern Countries are much of our Minds, in Relation to Whiteness; for I have always made it my Observation, that they love the whitest Pearl, the whitest Diamonds, the whitest Bread, and the fairest Women.

Margarite, Uniones vel Perle,
Pearls are little Stones almost round, Lemery,
oval or shap'd like Pears, compact, hard, smooth, whire, shining, and
of different Sizes, which are form'd in certain Oysters, whose Shells are of different
Bigness: But there are some of 'em met withal
that are three or four times as big as the
Rosen Oysters. They sish for these Pearl Oysters in the Eastern and Western Ocean, as you,

from whence Pomet has given you a Relation.]
The Ancients call'd these Pearls Oniones, because they believ'd there never was but one in an Oyster; but they were deceiv'd, for we somerimes find seven in a Shell; they are bred from a viscous, or faline, glutinous Humour, that is condens'd and petrefied in feveral Parts of the Fish. Instead of a particular Part affign'd for the Generation of Pearl, they breed indifferently in all the Parts of the Oyster, but are most commonly found in the largest and best shap'd Oysters rather than in others, tho' these Oysters are as good to eat as the common Sort: Sometimes we meet with Pearl in Muscles, and other Shell Fish, as well as the Oysters. Pearl is efteem'd cordial, proper against Infection, to recruit and restore lost Spirits; but their chief Virtue is to deftroy and kill the Acids as other Alcalies do, and likewise to correct the Acrimony of the Stomach. Pearl is likewise good against a canine Appetite, a Flux of the Belly, the Hemorrhage, &c. The Dose from fix or ten Grains to a Dram.

47. The Manner of the Pearl breeding in the Oyster.

know, that on the Authority of feveral ancient Authors that were not well inform'd in the Nature of these Things, it is commonly believ'd that Pearl is bred from the Dew of Heaven, and that there is never above one in a Shell, but Experience has let us fee the contrary: For as to the First, the Oyster never stirs from the Bottom of the Sea, where the Dew can never come; and as to the other, it is certain that there are found from fix to feven Pearls in a fingle Oyster; for I have one in my Hands, where there are to ten Pearls, that were in the Course of Formation: It is true, they were not all of the same Size, for they breed in the Oyster just as Eggs in the Belly of the Hen; for as the largest Egg advances first to be excluded, the least stay behind 'till they have acquir'd their Bigness; the Stone, which those in the Boat draw up fo the largest Pearl advances first, and the other leffer, not having attain'd to their Per- Breath he puts the Oyfters into the Net, and fection, remain under the Oyster at the Bot- when he finds he can hold no longer, pulls

may see at Length in Mr. Tavernier's Travels. Nature has appointed for them; but we cannot fay there is a Pearl in every Oyster, for there are feveral open'd, in which there are none at all.

The Pearl-Fishing in the East-Indies is twice a Year; the First is in March and April, and the Second in August and September ; and the Sale of 'em is from June to November: The People are so poor, and live so miferably along the Coast on the Persian Gulf, that they must starve but for this Fishery; for they have neither Bread nor Rice, and eat nothing but Dates and falt Fish; and they must go twenty Leagues into the Country before they can meet with a Plant. The more Rain there falls in a Year the better the Pearl-Fishing is. Many have imagined, that the deeper in Water the Oyster is found, the Pearl therein is the whiter, because the Water is not so hot, and the Sun finds greater Refistance to get to the Bottom, but that is only a groundless Fancy; they fith from four to twelve Fathom deep; and this Fishery is upon the Banks where there is fometimes two hundred Barks, or little Veffels, at a Time, in most of which there is not above one Diver, or two at most.

These Boats go off every Day from the Coast before the Sun rise, with a Land Breeze, which lasts 'till ten a-Clock in the Morning. and in the Afternoon they return with the Sea Breeze, that constantly about eleven or twelve at Noon succeeds the other: The Banks upon which they fish are five or fix Leagues out at Sea; and when they come there, they fish thus for the Oysters: They tye a Cord under the Arms of those that dive, of which those that remain in the Boat take hold of the End. They tye to the great Toe a Stone of eighteen or twenty Pounds, of which also those that are in the Boat take hold of the End. They have besides a Nec made like a Sack, whose Mouth is made round like a Circle, that it may keep open, and this Net is tied like the reft; then the Diver goes down into the Sea, and as foon as he is at the Bottom, where he is quickly by the Weight of the Stone, he nimbly unties ... again. As long as the Diver can hold his rom, 'till they are grown to the Size that the Cord that is tied under his Arms, which is

the Signal that he wou'd come up, and those that are in the Boat draw him up as quick as possible. Those of Manar are more expert at Fishing, and stay longer in the Water than the Fishermen of Babren and Catifa, for they put nothing in their Nofes or Ears to keep out the Water, as they do in the Gulf

of Perfia.

After they have drawn up the Diver into the Boat, they take about half a Quarter of an Hour's Time to empty the Net of the Oysters; in the mean While the Diver recovers his Breath, and returns to the Bottom of the Sea, as before, which he does several times for ten or twelve Hours together, and then returns to Land. To conclude this Discourse of Pearl, we ought to observe, that throughout Europe they sell by the Carat, which is four Grains, as well as that of the Diamond Weight, but in Afia they use several Weights. In Persia they weigh Pearls by the Abas, and an Abas is an Eight less than our Carat. In the Indies, especially in the Great Mogul's Countries, and in the Kingdoms of Golconda and Vifapour, they weigh by the Ratis, and that is also an Eight less than the Carat.

Goa was formerly the Place where the great Trade of Afia lay for Diamonds, Rubies, Saphirs, Topazes, and other precious Stones. All the Mineralists and Merchants came here to fell whatever was fine from the Mines, &c. Here also was the great Commerce of Pearls from all Parts of Afia, as also of those from America: As for Africa, this Sort of Traffick is unknown to them, because the Women there are contented with Pieces of Chrystal, or some Grains of false Coral, Glass Beads, or yellow Amber, to make Necklaces and Bracelets of. As to the Pearl we usually sell, call'd Seed Pearl, which is for medicinal Uses, being proper to reduce into Powder by the Mortar or Muller, it ought to be white, clear, transparent and true Oriental, rejecting all other Kinds, especially the Scotch or Bruffels Pearl, it being nothing but an artificial or counterfeit Sort. The Use of Pearl is to put in Potions, or other Cordial Compositions. The Ladies of Quality use the fine ground Powder of it, to give a Lustre and Beauty to the Face. They make of it likewife, with A-

wids, &c. a Magistery and Salt, to which

they attribute large Virtues; besides other imaginary Preparations, as the Arcanum of Pearl, the Flowers, Spirits, Effences, Tin-Ctures, and the like, to pick Fools Pockets : but the best and only useful Preparation of it, is the Powder well levigated.

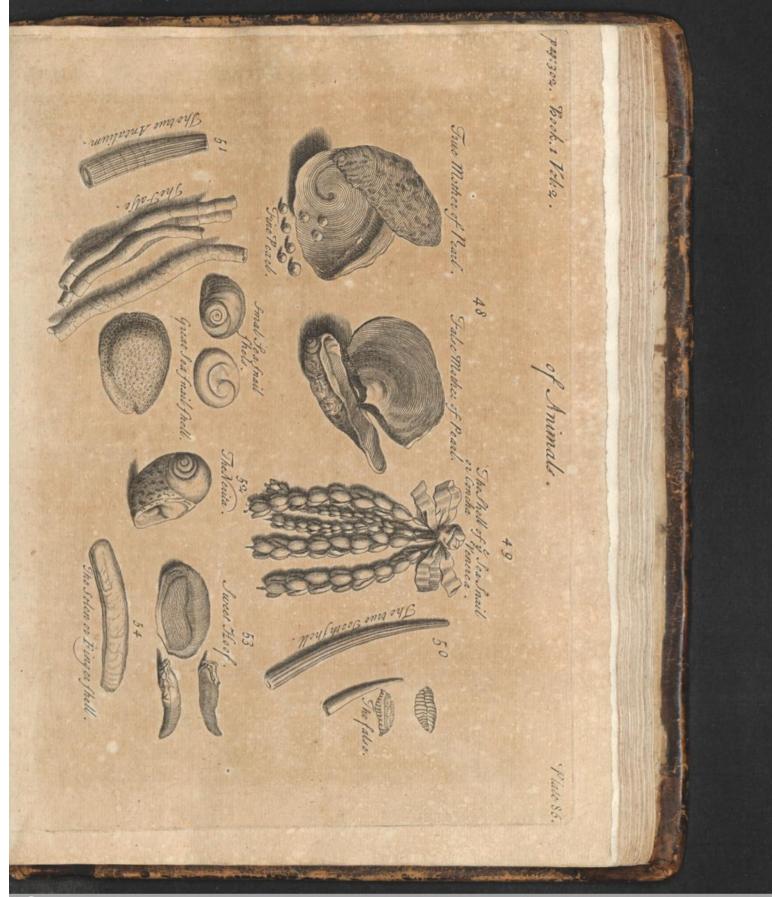
48. Of Mother of Pearl.

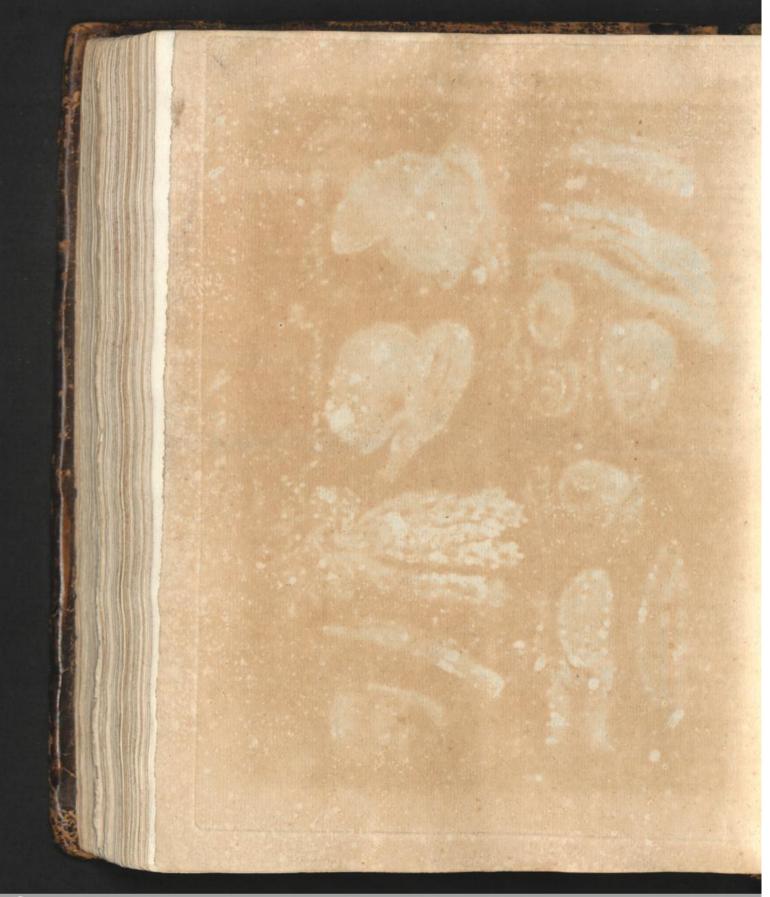
ME bring to Paris great greenish Shells that are rough and un- Pomet. even on the Outfide, and of a white, inclining a little to be greenish within, which they call, tho improperly, by the Name of Mother of Pearl; not because the Pearl is bred in them, as a great many People believe, but because they are on the Inside of the Colour and Water of Oriental Pearl, as well as without, especially when they are prepar'd with Aqua fortis: These Shells ferve for feveral Sorts of fine Works, a great many People preserve and grind them into Powder, after which they form them into Troches, and fell em for prepar'd Pearl.

The Mater Perlarum, or Nacre de Perles, in English, Mother of Lemery. Pearl, is a Kind of Oyster, of which there are several Sorts that is within of the Colour and Beauty of the Oriental Pearl. I have preferv'd by me one of thefe Shells that weighs seventeen Ounces, and is as broad as both my Hands: Chuse the whitest, and of the best Lustre; they make of these Shells Snuff-Boxes, and a great many other fine polish'd Works, that are neat, smooth, and very agreeable to the Eye; and likewise grind it to Powder on a Porphyry, and it is us'd by the Women amongst their Pomatums for a Fucus to beautify the Face.

49. Of the Shell of the Sea Snail, call d Concha Venerea.

Hat we call the Sea Snail Shell, and the Latins, Concha Vene- Pomet. rea, is the little white Shells that is brought from several Parts of the East and West-Indies, hung in Strings in the Nature of Beads, and big Bunches; fo that it,





a Parcel where there are several of these Bunches, there are more than a Thousand of these little Shells. The Siamois, Arovargues, and the People of New Spain use these little Shells as we do Money here: They are us'd in Powder with us as Pearl, of which we chuse the least and the whitest: There Apothecaries constantly, for the are several Sorts of them describ'd by Johnone which we thought sufficient.

Concha Venerea, Pourcelaine, or Lemery, Pucelage, is a little Sea Snail Shell, fomething larger than a Pine Kernel, longish, white and smooth, which is brought us from the Indies, strung several together like Beads; they serve the Natives there for Money: They make a better White than Pearl, and are us'd in Paint for the Face: Besides which they are alcaline, and a good Sweetner of the Blood, but are not much us'd in Phyfick.

50. Of the Doglike tooth-shell.

THE true Doglike-tooth-Shell, or Dentalium, not Dentalis as commonly call'd, is a Pipe of about three Inches long, thick at one End, and finall at the other, made like a Dog's Tooth; this Pipe is of a greenish shining White, adorn'd with straight Lines that go from one End to the other; it is hollow, light, of the Size of a Quill at the thick End, and smaller by Degrees, to the other End.

The true Tooth-shell is so rare, that it was never writ of by the Ancients; but Mr. Tournefort gave me one which I have caus'd to be delineated amongst the Pearl, which I am oblig'd to pass by in Silence, and speak to that which Schroder and feveral others have mention'd, that it is a fmall hollow Pipe of feveral Colours, which is very commonly found on the Sea Side, and fold in the Shops for the True Dentalium, and which the Apothecaries improperly use as such in several Galenical Compositions. Several likewise take the Bone in the Head of a Sea Fish for the true Tooth-shell, which some suppose to be a little Bone taken out of the Head of a Haddock or large Whiting. As to the Virtues of this, it is an Alcaly to be us'd as other testaceous Powders,

SI. Of the Antalium, or Entaglia.

THE true Antalium is as little known as the former, fince the Pomer. True Antalium, make use of a hollow Pipe, from, but we have only given the Figure of of different Colours and Sizes, not exceeding, still, that of a large Quill: These Pipes are found at the Bottom of the Sea, and upon Rocks, fometimes separated, and sometimes feveral of them together; they ferve for feveral little Sea Worms to creep into: And feveral Authors, especially Rondelet, an eminent Physician of Montpollier, calls these Pipes, Tubuli Marini. I shall not stop here to relate the long Discourse of Renou, in his Book, but affirm, according to Mr. Tournefort; who is a Man of the greatest Perspicuity, as well in Plants as Shells, that Europe has bred thefe many Years; that the true Antalium is another Sort of Pipe, which grows likewife at the Bottom of the Sea: This Pipe is about an Inch and a half long, and the Bigness of a large Quill at the thick End, and that of a little Quill at the other; it is hollow and thick at one End, and flender at the other: As to the Colour it is always white, but differently fo, being found of a greenish White, and a more unpolish'd White, Go. As to the Choice of these two Pipes, there is no other Difference than to take the True; for the Virtue of the Antalium is nothing different from that of the Dentalium, they being both Alcalies and Dryers.

52. Of the Umbilicus Marinus.

Hat the Latins call Umbilious Marinus, i. e. Sea Navel, is Pomer. the Covering of a Cockle or Sea Snail, that is very common in the Mediterranean, which Rondelet calls Cochlea Celata; this Lid is tied to one Bnd of the Fish, which lodges in a Shell, and when the Animal retires into his House, he draws after him the Lid or Covering, which thuts the Mouth of the Shell fo exactly, that the Sea Water cannot enter. Rondeles informs us, with Reason, that the true Umbilicus Marinus is a Shell very different from this Covering, which he detcribes in the 38th and 39th Chapter of the same Scent is so far from being agreeable, that it Book ; but Cuftom has decided this Controverly in Favour of this Covering, which must be used when the Umbilious Marinus is prescrib'd: It is of different Sizes. That which is most frequently seen is not much broader than a Farthing, and of about the Thickness of a Crown Piece. It has its Denomination from the Similitude it bears to that Part, of which it bears the Name. Some instead of this use the Shell of a Sea Fish call'd Nerita, of which Mr. Tournefort gives

the following Account.

The History of the Nerita is very confus'd in both ancient and modern Authors; that which Rondelet takes for the Delian Nerita, is a Kind of Sea Snail, that is found in the Mediterranean, and which the Waves cast upon the Sands in the same Places with the Solen. These Snails are as big as the Land Snails, and pretty like them in Shape; but they are much thicker, smoother, and usually redder within; outwardly they are met with of different Colours. Rondelet affures us, that the Sort he speaks of are mark'd or spotted with Black, but that this Kind is scarce; I have seen some all White, others that have been of a Rose Colour, and several other Varieties: Together with the Nerita some Apothecaries confound a fmall Plant, whose Leaves are round and thick, which the Ancients call'd Cosyledon, or Umbilicus Veneris Navelwort, because the Leaves pretty much resemble the Shape of the Navel. This Plant is pretty scarce at Paris, but very common in Languedoc.

53. Of Sweet Hoof.

THE Unguis Odoratus, or Sweet Hoof, is likewise the Lid or Cover of a certain Shell Fish, call'd Conchylium; this is of different Sizes; but for its Shape it refembles the Claws of some Animals; it is thin, of a brown Colour, easie to burn, and of an unpleasant Smell, like that of Horn, which is quite contrary to its Name; and I cannot understand what Reaion the Ancients cou'd have to call it Unguis Odoratus, as well because it has no Reiemblance to Hoofs, if it has any to the Claws

is very stinking. Dioscorides calls this Covering Unguis five Onix: This, fays he, is like to that of the Purple Fish; that which is found in the Lakes of the East-Indies, amongst the Spicknard, is of a very pleasant Smell, because the Fish to which it belongs feed on this Plant. This Author prefers that which comes from the Red Sea, to that which is found on the Coast of Babylon, which is blackish, and much less. They burnt in his Time one and the other for the Vapours, because, fays he, that this Smell comes near to that of Castor, which confirms what I faid, because the Smell of Castor, and the other, is very disagreeable: Wherefore it shou'd no longer be call'd Unguis Odoratus, but only Blatta Bizantia, that is, of Constantinople. As this is very scarce, they substitute in its Place the Solen, both Male and Female, whereof take this Description.

54. Of the Solen or Finger Shell.

THis is a Shell of two Pieces, that are joyn'd together at one End, from four to five Inches long, and from feven to eight Lines in Breadth, hollow like a Spout, arched above, thin, square at the Ends; and which, when joyn'd together, are like a small Trunk, or one of those Cases wherein they put a Knife and Spoon for the Table. Rondelet calls the Male Solen, that whole Shell is bluish, or of a Slate Colour, and this is agreeable to Apuleius's Sentement; and he calls the female Solen, that which has the white or ruffet Shell, and which is generally less than the others. These two Species are very common in the Mediterranean, so that I have gather'd them upon the Sands in the Isles of Hieres, and on the Coast of Martigues in Provence, and in Languedoc, on the Coast of Peraut and Cette. They meet with, besides, a Kind of Solen on the Coast of Normandy, whose Shells are white, inclining to Purple, but they are thicker than those of the Mediterranean, and about feven Inches long, and above an Inch broad.

Together with these Shells aforemention'd, we fell the Infide of the Oyster-Shells, after or Talons of any Animal, as because the they have been calcin'd to a Whiteness, and whole, because they fall into Powder like of Nature. Lime. Cyster-Shells calcin'd make very good Lime, which is the Reason why the Dutch use nothing else. Some Authors, as Etmuller, a German Physician, says in a Treatife of his of Animals, that the Oyster-Shells burnt are very proper to cure peftilential Bubo's, being apply'd upon them: He observes likewise, that they serve instead of Pearl. Befides thefe Shells there are Abundance of others which I have not mention'd for three Reasons; the First, because they are not used; Secondly, because I have little or no Knowledge of 'em; and in the third Place, because Mr. Tournefort, who has the compleatest Knowledge of these Curiosities, defigns in a little Time to give the Publick an exact Account of them, which he might do with a great deal of Ease, as well from his great Understanding, as the large Number he has by him, whereof I have feen above three Thousand different Sorts; so that from

made into Troches. It is observable that 'tis such a vast Variety, we cannot but admire difficult to preserve or keep those Troches the Lusus Natura, the Pastime, or Sporting

> Solen, Dactylus, vel Digitus, or the Finger Shell, because of its Re- Lemery. femblance to a Finger, is a small Shell, fomething longer than one's Finger. and an Inch thick, made up of two Pieces like the Muscle, but joyn'd together at the End, and hollow like a Pipe : This contains in it a little Fish of the same Shape, which when it wou'd feed, puts the Head out at the End of the Shell that is not joyn'd together, and draws it in again like the Tortoile; this Fish is good Mear, when well wash'd from the Sand, whereof it is full; the Fleth is a little viscous, and it sometimes casts a Lightlike the Phosphorus: The Shell is alcaline, resolutive, drying, opening, &c. being taken inwardly. The Dole is from half a Scruple to two Scruples; they use it externally in some Cerats and Oyntments, in the Place of the Dentalium which is scarce.

BOOK the Second, of the Second Volume.

Of METALS.

PREFACE. Of FOSSILS in General.

Understand, by the Word Fossil, every Thing that is found in the Bowels of the Earth; as Metals, half Metals, Minerals, Bitumens, Stones and Earths. Now, as my Defign is to begin with Metals, I shall explain myself, that by the Word Metal, I mean a Body that is hard, of a Substance alike in all its Parts, that may be melted by the Fire, is ductile, and may be extended by the Hammer, and is Vol. II.

different from Minerals, Bitumens, Earths and Stones, as shall be shown bereafter. There is a great Dispute concerning the Number of Metals, some will have them to be Nine, others Eight, others Seven, and others Six, because they would have Quickfilver, Pewter, Glass, and Founders Metal, to pass for Metals; but as this Opinion is not well grounded, because Glass and Founders Metal are Things made, I shall therefore agree with them, who have concluded that the Number is Seven, which an-Twers to the Seven Planets, and the Seven Days of the Week; that is to fay, Gold to the Sun and to Sunday; Silver to the Moon and to Monday; Iron to Mars and Tuesday; Quicksilver to Mercury and Wednesday; Tin to Jupiter and Thursday; Copper to Venus and Fryday; and lastly, Lead to Saturn and Saturday. Some Persons will have it, that Mercury is but a balf Metal; but as I think it not proper to discuss that Matter bere, I shall refer the Reader to the Chapter of Mercury or Quickfilver, and begin here with Gold, which is the Chief of all other Metals.

r. Of Gold.

OLD is a Metal yellow, foft and malleable, the most noble, pure, pre-cious and weighty of all other Metals. Gold is brought from many Parts of the World, but it comes in largest Quantities from the Mines of Caravana in Peru, and of Valdivia in Chili, where it is so common, that 'tis used for the same Uses as we do Pewter, Brass, or Iron; and tho' it is the richest Country for Gold of any that has come to our Knowledge, yet the Inhabitants are very poor, by Reason of the Dearness of all Provisions. There are several other Places where Gold is found, but the greatest Quantity comes from Peru, because there it is most commonly found, and is refin'd with the least Trouble and Expence.

Africa, Afia, and Eurorpe, produce Gold of four different Sorts. The First is in Bits of different Sizes, which is so fine and soft, that you may make an Impression upon it with a Seal, as if it were upon Wax. This Natural Gold is call'd Virgin Gold.

The Second is in Grains, the Third in Oar, the Fourth in Sand. These three last Sorts are generally found after great Rains, in those Places through which the Torrents of Water have past; and even in the Bottom of Rivers, especially such as have run through some Mines of Gold; as those of Datzin and Diguvira, in Africk, where there are Negroes who make it their whole Employment to fearch for it in the Bottom of the Rivers. The greatest Part of the Gold we have in France comes from Peru,

Cadiz, by the Spanish Galleons. The Company in France bring from Senega a Gold which they call En Aurillet; this is in different Works wrought by the Savages, which they fetch from the Kingdom of Galan, which is near that of Tombut. The Dutch likewise bring Gold from Sumatra, and other Places of the East Indies, together with their Peppers, and other Commodities of those Counteries. There is yet another Sort of Gold, which is that of the Alchymifts, of which I shall say nothing, because I have no Knowledge of it, leaving it to those who have Time enough to amuse themselves, and feek the Ruin of their Families in an Operation that does not feem to have much Poffibility in it: But this may be faid of them, that as Gold is the best of all Metals, so thy call it by the Name of the King of Metals; and that, by the Means of their Chymistry, they extract from it many Things that are uleful for Human Life. The first Preparation that is made of Gold is the Refining of it, which is done after four Manners, to wit, by Antimony, which is the best : The Second by the Coppel ; the Third by Aqua Regia; the Fourth by the Cement. They call Gold by the Coppel, that which is refin'd by Lead, and Ashes depriv'd of their Salts, or Bones burnt, which is that the Goldbeaters use to make Leaf-Gold of. That which is refin'd by Aqua Regia, is call'd Gold by Departure or Precipitation. Lastly, That which is call'd Gold by Cement, is that which is refin'd by the Means of a Paste, compos'd of Brick, common Salt, Sal Armoniac, Sal Gem and whence it is brought in Wedges, or Ingots, to Urine. There is a Fifth Refinement of Gold

by Mercury, but as these Matters are too long to be here decided, I shall refer the Reader to the several Books of Chymistry which treat thereof.

Regulus of Gold.

The Regulus of Gold is Gold refin'd by Antimony, and afterwards thrown into a Brass Mortar, warm'd and greas'd in the same Manner as that into which is thrown the Regulus of Antimony. This Operation is seldom us'd because of the Charge, and is seldom done but by such as have the Curiosity of having Gold that is extreamly sine.

Leaf Gold.

We call Leaf Gold that which is refin'd by the Cupell, and then by the Help of a certain Kind of Skins, or Beafts Bladders (which the French Workmen call Baudruche) is by Hammering reduc'd to Leaves extreamly light and thin.

It is a furprizing Thing to think that a Gold-Beater can reduce an Ounce of Gold into 1600 Leaves, each of which shall contain feven and thirty Lines square. And Monfieur Furetiere fays, that they can reduce Gold into one hundred and fifty nine Thoufand ninety two Times its superficial Size; and the Wire-Drawers into fix hundred and fifty one Thousand six hundred and ninety Times. There are five Sorts of Leaf Gold amongst the Gold-Beaters of Paris; the finest and most durable is that which is fold to the Sword-Cutlers, wherewith they work their finely gilt and flowered Blades: The Second is that which they fell to Smiths and Armorers to gild their Iron and Weapons. The Third is that which is us'd in Gilding of Books. The Fourth is us'd by Gilders of Wood, and Painters. The Fifth is that us'd in Physick, which the Apothecaries put into feveral of their Powders and Confections, as well for the Virtue of it, as for Ornament.

They grind these Leaves of Gold, or the Clippings of them, which they call Bractreole with Virgin Honey, and then put them into Muscle-Shells, and this they call Gold in Powder, or in the Shell; this Gold, so prepar'd, is us'd for Painting in Miniature, Aurum Fulminans, or Crocus of Gold.

The Aurum Fulminans, or Crocus Auri, is Gold in File-dust dissolvid in Aqua Regia, and precipitated into a brown Powder, by Oil of Tartar per Deliquium, pour'd upon the Dissolution. This Powder dry'd has much more Force, and takes Fire sooner than Gun-Powder. This Preparation of Gold is a sudorifick very proper in the small Pox, being given from two Grains to six: It is likewise good to stop Vomiting, and suppress the too vigorous Operation of mercurial Medicines.

Amalgamation of Gold, or Gold Powder.

The Powder, or Ground Gold, is made by Calcining Gold with Mercury and Sal Armoniack, and this Calcination is call'd Gold in Powder, or amalgamated, and is us'd by the Gilders, because it spreads easily: There are some who omit Sal Armoniack in their reducing Gold to Powder, and only make use of Mercury. There are several other Preparations of Gold; as Tinctures, Extracts, and the pretended Aurum Potabile. But since those are not receiv'd by all the World, I shall only say that which all agree in, that the greatest Property of Gold is to give all Sort of Conveniencies to him that is Master of it.

Gold, in Latin, Aurum, fol, Rex Metallorum, is the most solid, Lemery. weighty, compact, and precious of all Metals: It is generated in many Mines in different Parts of the World, but the greatest Quantity is brought in Bars or Ingots, from Peru to Cadiz, by the Galleons of Spain. There is Gold likewise found in Asia, Africa and Europe, sometimes in a Mass, which is call'd Virgins Gold, sometimes in Grains, sometimes in Oar, sometimes in Dust or Spangles.

The First is call'd Virgin Gold, because it comes pure out of the Mine, without any further Need of Preparation, and is so soft as to receive the Impression of a Seal, and is sound in greater and lesser Pieces. The Second is in Grains, but not so fine as the First

The Third is a Gold mixt with other Metals, and the Marcafire or mineral Stone,

which are form'd rogether as a Stone, call'd to remain: They continue a very violent or Spangles mixt with Sand.

The three last Sorts of Gold are genetally found at the Bottom of Rivers after great Rains and Torrents of Water, and the Negroes either dive for it, or wash it out of the Sands.

Gold is refin'd several Ways by the Cupell, by Departure, by Cementation, and by Au-

The Refining of Gold by the Cupell and Departure, is done after the same Manner as

that of Silver, of which hereafter.

Gold is refin'd by Cementation in the following Manner: They make a hard Paste with Sal Gem, and Sal Armoniack, Chalk and Urine; this Paste is laid with Gold, stratum super stratum, in a Crucible, which is plac'd in a Furnace, and a large Fire being made about it, the Matter is left to calcine for ten or twelve Hours, that fo the Salts may penetrate the Foulness of the Gold, and throw it off in Scoria; and so the Crucible being taken off from the Fire, the Gold will be found separated from the Scoria.

Gold is refin'd by Antimony after this Manner following: They weigh the Quantity of Gold they would refine, and make it red-hot in a Crucible, by a strong Fire, and then throw in four Times the like Quantity of Antimony in Powder, foon after which the Gold will melt, for Antimony is full of a faline Sulphur, which not only very much augments the Heat, but piercing into the Metal divides the Parts very speedily; then the impure or groß Matters that were in the Gold are fwallowed up by the Antimony, to which they readily joyn themselves, and so separate into Scoria, of which the more volatile Parts are diffipated into Smoke: They Fire 'till it fends forth Sparkles, and then they pour it into an Iron Morrar warm'd and greas'd, beating it about 'till the Regulus fall to the Bottom: When all is cold they empty the Mortar, and with a Hammer separate the Regulus from the Scoria. They weigh this Regulus and put it into a Crucible over a strong Fire to be melted a second Time, then by little and little they throw in three Times as much Saltpeter to purify the Gold from any of the Antimony that may happen

Gold Oar. The Fourth is a Gold in Duft, Fire about the Crucible 'till the Fumes are gone off, and the Gold remains in Fusion clear and neat, then they turn it into a Mortar as before; and when it is cold they feparate the Scoria that are found underneath it, then they wash it and wipe it with a Cloth. This Regulus of Gold is as fine as it possibly can be, and this Way of Refining is preferable to all others, when they would cleanse Gold exactly from other Metals.

The Cupell will cleanse Gold very well from Marcasites, and even from such Metals as are call'd imperfect, but not from Silver; this Metal is so bound up and joyn'd with Gold, that Recourse must be had to the Departure before 'tis possible to separate them.

The Departure separates Gold from Silver, but when the Gold is precipitated it generally carries with it some Portion of Silver.

The Cementation often leaves the Gold undischarg'd of some Particles of other Metals, and the Salts entring into the Gold diffolve a little of it. But Antimony is a Devourer which spares no other Metal but Gold; yea, it will oftentimes gnaw off some light Portion of it, and by that Means create some Displeasure to the Refiner.

The Degrees of the Fineness of Gold are call'd Carars; a Carat of Gold is of the Weight of a Scruple, or twenty four Grains, and by Confequence twenty-four Carais make an Onnce.

Gold that is entirely fine is call'd Gold of twenty-four Carats; because if you put an Ounce of fuch Gold to the Proof, it will not be diminish'd; but if an Ounce of Gold wast a Scruple in the Proof, it is Gold of twenty-three Carats; if it wast two Scruples it is Gold of twenty-two Carats, and so of leave this Matter in the Midst of a great the rest. But many Refiners believe that there is no Gold of twenty-four Carats; for let them refine it never so well, there will still remain some light Portion of Silver. Gold eafily mixes and unites with Quickfilver, and this is what is call'd Amalgama of Gold: To make it, they put Gold cut into very minute Pieces into a Crucible, leaving it to be red-hot; to this they put eight Times as much Quickfilver, stiring it with a small Iron Rod, and when they find it incorporated, they cast it into an Earthen Velfel full of Water, where it cools and remains a strong Fire, to arrive at their Perfection, folt as Dough; they wash it several Times as if Nature had wanted Heat to produce to take away the Blackness, and they sepa- them. rate the superfluous Mercury, that is not well united to it, by putting it into a Cloth, and preffing it gently with the Fingers. They throw a great deal of Quickfilver upon Gold, that it may charge itself with it as much as possible; for the more Mercury enters into the Amalgama, the fofter it will be, and the more pliable; but Gold can receive no more than a certain Quantity, because when its Pores are full, the rest is useless.

The Amalgama of Gold is us'd by the Gilders, because it is most easily spread over the

Work prepar'd for it.

Gold, when refin'd, will be extended by the Hammer more than any other Metal; the Gold-Beaters reduce it into very thin Leaves, which they put into little Books: These Leaves of Gold are us'd for Gilding; they are us'd likewise in Compounding of Medicines, and are preferable to all other Preparations of this Metal; not only because they are easily mix'd, but because they appear like Spangles, which beautify

and fet off the Composition.

As Gold is the most weighty, the most compact, firm and beautiful of all Metals, fo it has likewise been esteem'd the most perfect; and a numerous Sect of Philosophers, call'd Alchymists, have thought that the Production of Gold was the principal Defign of Nature in all Mines; and that it had been obstructed from its due Course by some Accident, when it produc'd other Metals. But this Opinion is not approv'd by all; for one may very reasonably believe that Iron, Lead, Copper, and other Merals that are call'd imperfect, have that Perfection which they ought to have, according to their own Nature, as well as Gold. This Sentiment of the Alchymists has led them into another Chain of Reasonings, which are not more just than the former: They believe that they can perfect the imperfect Metals, by supplying the Failure of Nature, and confequently that they can make Gold. It is this Operation which they call the Great Work, or the Search of the Philosophical Stone: To arrive at which, some of them make a Mixture of these Metals with some Matters proper to refine 'em, and calcine them a long Time in

Others put Metals into a Digeftion upon the Fire, in faline and piercing Liquors, fo to draw out the Mercury, which they fay is a Matter dispos'd to be reduced into

Others feek for a Seed of Gold in Gold itself, and believe they shall find it there, as they do the Seed of a Vegetable in a Vegetable, and that of an Animal in an Animal: To accomplish this, they endeavour to open Gold by Diffolvents; and they put it to digeft by the Fire of a Lamp, or the Heat of the Sun, or that of Smoke or Fume, or some other Degree of Heat always equal, which approaches nearest to that which Nature makes use of.

Others look for the Seed of Gold in the Minerals, as in Antimony, where they pretend there is a Sulphur and a Mercury, like to that of Gold; others hope to find it in Vegetables, as in Honey, Manna, Rofa folis, and Rosemary; and others in Animals, as in the Spittle, the Blood, the Brain, the Heart,

and the Excrements.

Others imagine they can catch the Seed of Gold by fixing the Rays of the Sun after a certain Manner; for they, as several Astrolo-gers, look upon it as a Thing uncontestable, that the Sun is Gold melted in the Center of the World, and that it is cupell'd by the Fire of the Stars that furround it; and that the Rays which it cafts, and that shine on all Sides of it, are the Sparkles which rife from it after the same Manner, that they do in Refining Gold by the Cupell.

I should enlarge too much if I wou'd here repeat all the Fancies of the Alchymifts, and the Manners of Working, which they have invented to arrive at the Perfection of their Defigns: They have spar'd neither Time, Pains, Watching, Care, nor Money; and a great many of them having spent the better Part of their Life in this Labour, have fo exhausted their Spirits, their Healths, and their Pockets; that they have fallen into a deep Melancholy, next to Madness, into incurable Difeates, and a most miserable Poverty.

But the ill Success of these Alchymists has not hinder'd other Persons from entring the fame

fame Lifts, the Hopes with which they flat- any Metal whatfoever into Gold, but we fee of making Gold does so far prepossess their Minds, that they become incapable of Thinkup to their Sentiments as Atheifts, and they them. affume to themselves, exclusive to all others, the Name of the True Philosophers, or The Philosophers by Way of Excellence: If they speak, 'tis by Monofyllables; if they explain themselves, it is in such obscure Terms, and heightned Expressions, that very often they don't understand themselves: If they write, it is that it may not be comprehended; if they work, 'tis with Mystery, giving sublime Names to all the Ingredients they make use of. Gold is by them call'd the Sun; Silver the Moon; Tin Jupiter; Lead Saturn; Sal Armoniack, the Solar Salt, or the Mercurial Salt of the Philosophers; Nitre is Cerberus, or the infernal Salt; the Spirit of Nitre, the Blood of the Salamander; Antimony the Wolf, or the Root of Metals or Proteus, and fo of the reft. Their Preparations are all Philosophical; and even the Bricks of which they build their Furnaces participate of that Quality. Besides, these Gentlemen look upon themselves to be far above all other Persons; they think they are the Depofitaries of the richest Secrets of Nature; they explain every Thing to their own Advantage; and according to their own Prejudices they call themselves the Holy Nation, and the Elect People, King Solomon, according to their Opinion, was of the Sect of Alchymists, because Gold was so common in his Days. The Spirit of God which swam upon the Water, and is spoken of in Genefis, was the universal Spirit of which Gold is made. I could relate a great many more of their Opinions as extravagant as those, but I am afraid of growing tedious to the Reader.

That which the Chymists aspire to by their great Labours, is, as I said before, to find out the Seed of Gold; feveral of them pretend that they have attain'd to it, and are in full Possession of it, and it is this which they call the Powder of Projection;

ter themselves, that they shall find the Means no Experiments of this pretended Fact : Those that have been made upon feveral Occasions, have been only Tricks or Slight of ing seriously of any other Thing, than what Hand; some of which I have describ'd in may contribute to the grand Work: They another Place, by which they throw Dust think no Body reasons so well as the Alchy- in Peoples Eyes, and engage to blow the mifts; they treat all People that don't come Bellows, and bear Part of the Charges with

It is easy to apprehend that the Seed of Metals is not to be found in them, because their Production does not arrive by Vegetation, as in Plants, but proceeds from a Congelation that is made by Waters, loaded with Salts of different Natures, and fulphurous Earth, as they have acknowledg'd, who have wrought in them.

The Alchymists say that their Seed of Gold is a Mercury which they have drawn from Metals: But besides that it is still a Question, whether they can draw a Mercury from Metals, it is not probable, that if they can draw it, it should be the Seed of

Gold.

They affirm likewise, that the Seed of Gold is in every Thing, and that it abounds in the Spirit of the Universe, and that Dew, Manna and Honey, having the Impressions of this Spirit, the Seed of Gold may therefore be drawn out of them. We agree with them, that the universal Spirit serves to the Production of Gold, as it serves to that of other Mixtures; but it is by an Acid that it contains, and not by a Seed, at least the Name of Seed is not given to this Acid; and then there is no more Reason to think that the universal Spirit abounds in the Seed of Gold, any more than in the Seed of the groffest Mineral, the most useless Plant, or the most despicable of Animals.

Although all the ancient Authors have esteem'd and prescrib'd Gold as the greatest Cordial, when taken inwardly, yet we do not find this Virtue to be in it; for Experience shows us, that it passes by Stool in the same Weight and the same Condition in which it was taken, because it is too hard to be penetrated and digefted by the weak Acids of the Body: But it is proper, and very convenient for them who have taken too much Mercury, for it amalgamates with it in the Body, and fixes it in fuch a Manner, that it they attribute to it the Virtue of Turning hinders it from Acting as it did before; this

Mixture is afterwards thrown out by the Stool or Urine. It is likewise good for Colick Pains of the Glaziers and Plummers, which are caus'd by the Vapours of their

Mercury clings so easily to Gold, that if a Person salivated with Mercury has any Pieces of Gold in his Pocket, they will commonly grow white in a little Time without touching them. But this Mercury is expell'd by putting the Gold in the Fire, and afterwards rubbing it with a little Oil of Tartar.

The Aurum Potabile of the Chymists is nothing but a Chimæra; they pretend that they can resolve Gold into its first Principles, and separate the Salt and Sulphur of it, so that they cannot be reviv'd into Gold any more than the Oil and Salt, that are drawn from a Vegetable, can be put into the same Plant again. They call these pretended Salts and Sulphurs of Gold, Potable Gold, because they can be dissolved in all Sort of Liquors, and be taken as a Potion: They at-tribute to it the Virtue of being a Preservative against all Sorts of Illness, that it cures all Diseases, prolongs Life, and in a Word, is the Universal Medicine.

The noble Qualities of the Aurum Potabile, are grounded upon many other Chimeras. The Alchymifts and Aftrologers affirm, that there is a great Correspondence, and a peculiar Intercourse between the Sun and Gold, by the Influences which they communicate one to the other; and that Gold is therefore consequently imprest with the Influences of the Sun: That the Sun is the Heart of this great World, and having that Quality it ought, by the Means of Gold its substitute, displays its Virtue over the Heart of the little World, which is that of Man: That the Quality of the Sun is to warm, revive, rejoyce, and cleanse the Body from all ill Humours, and to render Life happy, long, and free from Diftempers: That all their Principles being certain, there is no Room to doubt that Gold has these excellent Virtues; but that as this is a Body very hard and folid, its Qualities are fo enclos'd and concentred, that they can-not be well perceiv'd without reducing them to their first Principles, which are the Sulphur and the Salt that they call Aurum Potabile.

It is not difficult to confute all these Arguments, they are so weak, and have so little Foundation, that they fall of themselves. First, The Alchymists take it for granted without proving it, that Gold can be refolv'd into its first Principles, so that Salt and Sulphur may be drawn out of it; for this Metal is so solid, and so conjoyn'd in its infenfible Parts, that they could never find a Means to disfolve it radically, nor to separate any of its Principles, notwithstanding all their Pains and Application; they extend, they divide, they attenuate, they rarify it into infensible Parts, by Means of their Diffolvents, but hitherto they have done nothing but disguise it; for it still remains entire Gold, and is ready to be reduced to its primitive State by Fusion. The other Preparations of Gold, which some Persons would put upon us for the Salt and Sulphur of this Meral, are found, when strictly examin'd, to be nothing elfe but Gold extreamly rarify'd, diffolv'd, and difguis'd by some armoniacal Salt; but this Gold is revived again by freeing it from this Salt, and making it pals through the Fire.

But though in Process of Time they should come to be able to diffolve Gold radically, fo as to extract the Salt and Sulphur; yet it would still remain a Question, what would be the Virtue of these Principles? Which could only be known by the Experiments that should be made with them; but there is Room to believe, that the Effects would be different from what they would perswade us. The Intercourse of Gold with the Sun, and the peculiar Influences that they would have it receive from thence are Fancies, which carry no Probability with them: We fee the Sun displays its Warmth and Rays upon all Bodies, without any Appearance of its

making a Distinction.

Although there is no Aurum Potabile in the World, and that it is uncertain what Effect it would have, could we find it, yet the very Name of Potable Gold imposes upon a great many People, and gives an Opportunity to Mountebanks to cheat 'em with Impunity, for they draw Tinctures from some Ingredients, whole Colours come near to that of Gold, and fell it at a very great Rate, under the Title of Aurum Potabile. This Sort of Cheat is what generally fuc-



ceeds best; for Patients are preposses'd in those Parts which being more subtil, mercu-Favour of such Medicines as carry great Names, and have a specious Appearance: Men are likewise apt to cry up that which is dear, so the Name and the Price gains an Estimation. It likewise often happens, that these Tinctures which go by the Name of Aurum Potabile, produce some good Effect. because they can take Care to draw it off from fuch spirituous Menstruums, as comfort the Heart, and expell ill Humours by Perspiration; then it is cried up for a Miracle, and the Effect is attributed to the Gold which has no Share in it, as having never entred into the Liquor.

Others who are less Cheats than those I have spoke of, dissolve Gold in some spirituous Liquors after the common Manner; and as the Diffolution of Gold is always yellow, they make it pals for the True Aurum Potabile, altho' it is only Gold divided, and may be reduced to the same State that it

was in before.

Besides, I cannot see that the Perfection of Gold must necessarily give it the Preserence in Phyfick to other Metals; on the contrary, this Perfection, in an exact Contexture of the Parts, and a very great Solidity, is the Cause why this Metal is so much the less dispos'd to be digested and distributed into the Vessels of the Body. Iron, Mercury, and the other Metals, which are call'd Imperfect, are much more tractable, for we put them into a Way of penetrating through the whole Body, and producing confiderable Effects : What is Perfection with the Workman, is often an Imperfection with the Physician, and we make better Use of the mixt Bodies, whose Principles are naturally rarified and dissolvable, than of those which through too much Firmness are rendred as it were incorruptible.

2. Of Marcafites.

I Nder the Name of Marcafite; according to Monsieur Morin, Doctor of Physick of Monspellier, is to be understood a metallick Mineral, which is loaded with Sulphur and Earth; this fwallows up the metallick Matter which gets loofe, and the Sulphur carries up with it. rial, and less fix'd, are evaporated, so that there remains nothing but a Body, which is vitrified and useless, that they call Letier, or Lytharge.

Altho' from this imperfect Mineral, no Metal can be drawn by Fusion, whatever else be mixed with it to promote the Separation, yet it is much fearch'd into by all true Chymists, and prefer'd to that from which Metals may be extracted, which some improperly call Marcafite; and it is with just Reason, for the Principles not being yet well united, it is the less difficult to separate them, and confequently to determine and multiply them by their Operations.

It is for this Reason, that they who work in Mines throw them by, and feparate them from the Oar, which is so much the better, by how much less Earth and Sulphur there is

in it.

It is easie to conceive, by what I have faid, that each Metal has its proper Marcafite, which is, as it were, its Seed or Bud; and the more it ferments, and the nearer it approaches to a metallick Perfection, the farther it goes from the Nature of a Mar-

It must, nevertheless, be considered, that we fell commonly but three Sorts of Marcafites, which are those of Gold, of Silver, and of Copper. That of Gold is usually a little round Ball, very weighty, and difficult to break; that of Silver is almost of the same Make, but is not of so clear a Colour; that of Copper is either round or long, and oftentimes irregular, and of the Largeness of a Tennis Ball: This Marcafite is very hard, but if you leave it in a moist Place, the Moisture will penetrate it and turn it all to Vitriol, and so come to nothing. When you break in Pieces these Marcasites of Copper, they are of a yellow Gold Colour, and radiated like a Sort of Sun. These are the Descriptions of the common Marcasires; but for those of Iron, Tin, and Lead, I cannot, to this Day, learn positively what they are. There are some who affirm positively that the Load-Stone is the Marcafite of Iron; the Bilmuth, or natural Tin-glass, that of Tin; and the mineral Zink or Spelter, that of Lead: And there are others who fay that Tin and Lead are the same Thing, and differ only in Colour, grounding themselves upon this that the Ancients call'd Tin, white Lead, and Lead, black Lead, so that there cannot belong to them two Sorts of Marcasites; and my Sentiments must concur with theirs, seeing it has not been possible for me to find the natural Glass of Tin, as I shall show hereafter.

It is remarkable, that tho' I fay that we fell but three Sorts of Marcafites, yet there are very few large Druggists Shops, where there are not found several other Sorts, as the Square, the Flat, the Grey, the Black, the Yellow, and the like; and this happens, because they give the Name of Marcafite to every Thing they don't know, and take to be a Mineral; and the Buyer not knowing what it is any more than he that sells it, it happens that they who work it are deceived, and lose their Labour.

I have by me a white Marcafite full of Veins of Gold, which was brought from the Isles, and was affirm'd to me to be the true Gold Oar.

The Marcasite, Magnesia, Bis-Lemery. muth, Zinck, Spelter, or Tin-glass, is a metallick Mineral, of which there are several Kinds, for all Stones which contain more or less of a Metal, are call'd by this Name; but three Sorts are more principally intended by the Word Murcasite, that of Gold, that of Silver, and that of Copper.

The two First are in sittle Balls of the Bigness of a Nut, almost round, weighty, brownish without, but of different Colours within; for one has the Colour of Gold, the other of Silver, but both bright and shining.

The Marcasite of Copper is as large as a little Apple, round or oblong, brown without, yellow and cristalline within, bright, sparkling, and easie to be broken.

The Marcafites are taken out of the Mines; they contain a great deal of Sulphur and vitriolick Salt, especially that of Copper.

They are resolutive, and are applied outwardly: The pure white Magistery of Tinglas, made with pure Spirit of Nitre, being mist with Pomatum, is an excellent Cosmetick to whiten the Hands and Face, and is likewise good for Tetters, Ringworms, &c.

3. Of Silver.

CIlver, which the Spaniards of Peru call Platta, is the best and most Pomer. perfect Metal, next to Gold; it is white, hard, extensible, and very agreeable to the Sight. The most famous Mines for Silver are those of Rio de la Plata, that is, the River of Silver, and of Potocchi in Peru. which were discovered in the Year 1545: The Enclosure, which bounds the Extent of 'em. is call'd Potofi, which is a Mountain fituated in a flat Campain, rifing in the Form of a Sugar-Loaf, above a League in Circuit below, and a Quarter of a League on the Top. The Silver coming out of the Mine is refin'd with Mercury or Quickfilver, and there have been some Years in which they have taken out of these Mines three thousand hundred Weight of Silver, pure and neat; and for the Refining it, have made use of fix or seven thousand hundred Weight of Quickfilver: for the more they refine it with Quickfilver the better it is. There are several other Silver Mines in the Indies, in Europe, and even in France.

As Silver is of itself a very pure Metal, and especially when it has been well refin'd, the Chymists perform several Operations upon it, the first of which is its Purisication.

Purification of Silver by the Cupell.

Silver purified by the Cupell, is Silver which is put into melted Lead, and by Means of the Fire, and a fecret Quality of the Lead, it works upon the Silver as the White of an Egg does upon Sugar when it is well refin'd; they granulate it after the Manner that we fee it, which if it be Proof ought to be well refin'd, white, and very shining: This Sort of Silver is made use of in several of the following Chymical Operations.

Of the Crystals of Silver, or the Vitriol of Luna.

They extract the Crystals of Silver from cupell'd Silver dissolved in Spirit of Nitre, and when the Moisture is almost evaporated Vol. II.

N they

they take away the Crystals, which being applied to the Flesh, make an Escar as the Lapis Infernalis.

Of the Lapis Infernalis, or the Silver Caustick.

The Infernal Stone is so call'd, because of its burning Quality, and its black Colour; it is made of cupell'd Silver diffolv'd in Luna, is a Metal very compact, Lemery, Spirit of Nitre, afterwards perfected by the Fire and pour'd into a Mould, warm'd and greas'd on the Infide, where growing cold it coagulates, and becomes a Stone of the fame

Shape that the Mould has given it.

in little Pieces of a Finger's Length, dry and folid, of a brown Colour, approaching to that of Iron, which will neither burn the without Difficulty, but will immediately refine it by the Cupell and by Departure in burn any Place that is moistned as soon as it the following Manner. is laid upon it, which are the true Marks of the Infernal Stone when rightly prepar'd Fire, and they put four or five Times as-with the cupell'd Siver: You ought to re-much Lead as Silver to cupell it: They let jech that which is green, and turns the Pa- the Lead melt and extend itself, so that one per it is wrapt in of that Colour, that grows Part of it, in a little Time, enters into, and wer, and is eafily diffelv'd in the Air, be- fills the Pores of the Cupell. They cast the cause it is made with Copper. Some use the Silver into the midst of the Cupell, where it common Plate Silver, or the Burnings of is not long before it melts; they blow the old Silver Lace, but the Stone they make Fire till it is so strong, that the Flame enis not so good as the other. This Stone is much as'd by Surgeons to burn and confume Impurities unite with the Lead, because that dead and superfluous Flesh, but special Care Meral being sulphureous it cleaves to and emmust be taken not to touch the found Flesh, braces the gross Bodies better than the Silbecause the Stone will not fail to burn it, ver. The Fire drives the impure Mixture to and cause an Extremity of Pain, especially the Circumference in the same Manner as if the Place be wer.

The Lapis Infornalis has the Property of upon Sawing the Marble the fame Figure shall appear within that was on the Outside, Mould, to let it cool, and this they call Siland will never wear out; you work with it ver of the Cupell. The Scoria of Silver-

Of the Tincture of Silver.

The Tinsture of Silver is a Diffolution of Silver in the Spirit of Nitre, which into melted Lead runs sooner into a Fusion,

of Salt; then they put this Silver Calx into Spirit of Wine acuated with volatile Salt of Tartar, and volatile Salt of Urine, and thence draw a beautiful, celeftial, blue Tincture, very much recommended against the Epilepfy, the Palfy, Apoplexy, and the other Diseases of the Brain : The Dose is from fix to fifteen or fixteen Drops.

Silver, in Latin, Argentum, or weighty, hard, white, smooth and

thining, very extentible by the Hammer, and refifting the Cupell : It is taken from several Mines in Europe, but the greatest Quantity comes from America, and especially from This Stone ought to be made Choice of Le Rio de la Plata in Peru, where it is often found intermixt with fmall white Crystalline Stones, and with Gold, Copper or Lead; that of Iron, which will neither burn the being taken out of the Mine, it is refin'd Fingers nor Paper, unless they are moistned, with Quickfilver, and then transported. and does not melt when exposed to the Air They who would render it as fine as possible,

They make the Cupell red hot in the Scum or Scoria, and the Silver remains fine and clean in the Middle. They know that Staining Marble and Entring into it, so that the Resinement is perfected when no more-Fume arises ; then they pour the Silver into a as if it were a Crayon, and the Colour it mixt with Lead make the Litharge, of which I shall treat hereafter. These Scoria confift of the Parts of some other Metals,

Silver when it was taken out of the Mine. It is to be noted, that Silver being thrown they precipitate by Means of a Solution than if it were put alone to melt in a Cru-

or the Marcasites, which were mix'd with the

cible, because the sulphureous Parts of Lead contribute to the speedy Fusion of Metals.

This Purification of Silver clears it from all other Metals but Gold, which likewife resists the Cupell so that one cannot be alrogether affured, that this Silver of the Cupell is entirely Silver; therefore if one would separate it from any little Quantity of Gold that may be in it, Recourse must be had to another Operation, call'd the Departure, and this is the Manner of the Proceeding.

They melt together in a Crucible by a strong Fire, three Parts of Silver, and one Part of Gold; they throw this Mixture, when melted, by little and little into cold Water, where it coagulates into Grains; they throw away the Water, and dry thefe Grains, and then put them to dissolve in two or three Times as much Aqua fortis; the Silver is diffolv'd, and the Gold is precipitated to the Bottom of the Veffels, because it cannot be penetrated by this Diffolvent.

It is to be remark'd, that in this Operation they mix Gold with the Silver, that if the Silver should contain any small Quantity of Gold, it might be drawn and precipitated along with that which was added: This precipitated Gold is call'd Gold by Departure, and they can eafily turn it into an Ingot, by melting it in a Crucible over the Fire, with a little Borax, and pouring it into a Mould.

This Diffolution of the Silver is thrown into an earthen Veffel, in which there is a great deal of Water, and a Plate of Copper, where it is left for five or fix Hours, or 'till all the Silver is precipitated, and flicks to the Copper Place, and then they gather it together and dry it; and it is this they call the Precipitate of Silver, and sometimes the Calx. or Chalk of Silver. The Water in which this Precipitation was made becomes Blue, because of some Portion of Copper disfolv'd in it, and is call'd the Second Water; it is us'd to deterge, and to eat proud Flesh, being applied outwardly.

Silver also may be precipitated, by mixing Salt Water in the Diffolution; for the Sea Sair will produce the same Effect as the Parts of the Copper, that is to fay, by puthing rudely against the Points of the Aqua fortis, which hold up the Particles of the Silver, it will break 'em, and make 'em let go Luna, because they imagine this Metal to be

nothing to support it, will, by its own Weight, fall to the Bottom.

The Silver so precipitated is cast into an Ingot, by melting it in a Crucible, with a little Salt-Peter, and afterwards pouring it into a Mould. This Silver is the finest of all, and of twelve Penny Weight, if it has fo much; but there is always fome little Allay of Copper to be found in Silver, let it be never so well refin'd.

That which is call'd a Carat in Gold, is a Penny Weight in Silver; fo an Ounce of very fine Silver is of twenty Penny Weight, or twenty-four Scruples, which make twenty four Times twenty Grains: This Ounce of Silver should not be diminished by the Proofs; but if it lose a Scruple by the Cupell, the Silver is but of nineteen Penny Weight fixteen Grains; if it loses two Scruples, it is seventeen Penny Weight twelve Grains; but they don't express themselves by twenty Penny Weight in Silver, as they do by twenty-four Carats in Gold, for they double two Pence in Silver, and fay Silver of twelve Penny Weight, to express Silver of the utmost Purity; Silver of eleven Penny Weight and an half, Silver of eleven Penny Weight, to denote the Degrees of its Fineness, and so of the rest.

Plate Silver contains one Part Copper, to twenty-four Parts Silver; and Silver of the Cupell has but one quarter Part Copper, to twenty-four Parts of Silver.

They beat the pureft Silver, and reduce it into very fine and thin Leaves, which we make use of in Medicine; one may likewise use the Precipitate of Silver instead of these

Silver is proper for those who have used too great a Quantity of Quickfilver, either by Frictions, or taken inwardly, for it binds or amalgamates itself with it in the Body, and depriving it of its Weight, takes away its Virtue: It may be taken from four Grains to a Scruple, and a larger Dose may be given without Fear of any Danger. It is pretended by feveral Authors to be an infallible Medicine for Difeales of the Head and Brain; but Experience shows us, that it is of no Use in such Cases.

The Aftrologers and the Alchymifts call it their Hold, so that the Silver having of the same Matter as the Moon, and that

it receives continual Influences from her for or rather cast Iron, they take up the running its Nourithment.

4. Of Iron or Mars.

IRon which the Chymists call Mars. because of the Influences they pretend it receives from that Planet, is a Metal the hardest, driest, and most difficult to melt of all others: It is compos'd of an Earth, a Salt, and a Sulphur, ill digested, and ill united, which makes it subject to be rufty. There are Mines of Iron in Spain, Germany, Sweden and England: The best in France are those of Champagne, Lorrain, and Normandy; there are some in Burgundy, Berry, and other Places. An Iron Mine is sometimes found within an Inch of the Surface, fometimes one, two, three, four, five, or fix Foot deep. The Oar is found in dif-ferent Manners, fometimes in Pieces, and fometimes in Sand. I shall not discourse here of finding out Mines by the magical Rod, which is of Hazel, because Monfieur, the Abbot de Vallemont, has lately written a very exact Treatife about it.

The Manner of taking Iron from the Oar, and making it into cast Iron, commonly call'd Sow. Metal.

After the Oar is taken from the Mine they wash it in a running Water to feparate the Earth from it, and then carry it into large Furnaces, where covering it with Coals, Flint-Stones, and Potters Clay or Earth, by the Means of two.

Metal in great Iron Ladles, to put it into Moulds made in deep Sand, or elfe of the fame Matter, that is to fay, of Cast Iron.
It is also to be observed, that the finer the

Work is to be, the longer is the Metal to remain in Fusion; for the Matter continues but twelve Hours for the coarser Works, and fifteen or eighteen Hours for the other. The Cast Iron of France cannot be touch'd by the File, as that of Germany and other Places, but must be polish'd with Masons Dust or Emery.

Of Iron in Bars and other Kinds.

When they would reduce this Metal into true Iron, they take one of these Lumps of Sow Metal and carry it to a Sort of Forge; which has Turf of Earth in the Middle, where is a Hole into which the Matter flows as it melts. They melt the Metal by the Means of Charcoal, and two great Pair of Bellows which are mov'd by Water. As this Matter melts, the Refiner stirs it with an Iron Bar, and the more vigorously the Matter is stir'd, the more kindly will the Iron be, and the better qualified. After it is well ftir'd, they carry the Matter, which is hardned, with large Tongs to an Anvil, where, with a great Hammer, they beat it to force the Greale out of it, or rather the Earth or other forreign Matter that might have remain'd in it, and then the Iron is made and need not be refin'd again, but will endure the Filing. When they would reduce it to Bars, or any other Fashion, they take this Mass, which the Workmen call the Piece, and carry it to anolarge Pair of Bellows wrought by a Water- ther Forge, and by the Help of Charcoal, Mill, it melts like Lead; and after scum- and two Pair of Bellows wrought by two ing from it a Drofs, which when cold be- Men, they make it red hot, and then carry comes like Glass, they stay the Bellows, it to the Anvil, and with a wooden Hammer, and with an Iron Bar open a Hole which is with Iron at the End of it, they make it as in the Bottom of the Furnace, and imme- long and as thin as the Hammerer pleafes. diately comes out as it were a Stream of Fire, There is one Thing remarkable that is of which runs into Holes, made in the no small Consequence, which is, that seeing Nature of Moulds, of fix, feven, to ten the Hammerer can reduce but half this Piece Foot long, and a Foot broad. The Iron into Bar, because he must hold it fast by the thus thrown into these Moulds is what other Part, he therefore, to cool it the sooner. the Smiths call Som Metal. 'Tis to be re- that he may go to work upon the other, mark'd, that when they would make Can- throws it into Water, and this is the Cause non-Bullets, Mortars, Weights, Backs of that the French Iron is brittle; but this might Chimneys, or other Works of this Som Metal, be eafily remedied, by letting it cool of sir Molt, to that the Silver having of the fame Mariet at the Moon, and that

ways the Quenching it in Water that makes it to churlith and brittle, but it proceeds oftentimes from the Mineral, or from its not being well ftir'd: I don't dilagree to this, but there is a Proverb which fays, Ill to Ill can never be good; therefore what can easily be remedied ought not to be made worse: And this is the Manner of making Iron into Bars.

Of Iron in the Gad, and of Iron Wire.

Iron in the Gad or Rod of Iron, is made from Iron in the Bar, which has been heated in a Kind of Furnace, and by Steel Mills cut into the Shape and Figure we fee it in. The Iron Wire is made of these Rods drawn through little Holes, after the Manner that they make Wax-Candles: They begin with the largest Hole, and finish by the little one, still diminishing the Size of it.

Of Iron Plates, and of Black and White Iron.

The Iron Plates are made of Bars heated and made thin with Hammering. There are two Sorts of Plates, the great and small.

They make the Black Iron by Beating the Plate with smaller Hammers: But besides this, in Germany they make a white Iron, of which they make feveral Utenfils: This is a foft Iron reduc'd into thin Plates, and afrerwards cover'd with Tin, in which Operation it is faid they use Aqua fortis. There is white Iron made at Nevers, but that of Germany is most efteem'd because it is more white and brighter, and will not ruft as the other.

Of Steel.

Steel is an Iron that has been melted feveral Times, and quench'd in common Water, or in a Water compos'd of feveral Druggs, as shall be shown hereafter.

The best Steel is that which comes from Germany, and is call'd Steel of Carma, from a Village in Germany, call'd Kernens, where the best Seeel is made. This Sort is call'd Steel of a double Mark, and is us'd in Making fuch Inftruments as are extreamly fine; as Lancets, Razors, Graving Tools, &c. The second Sort is that they call Rose Steel, because when 'tis broken there appears some-

itself: It may be objected, that it is not al- thing in it like a little Rose of the Colour of the Eye of a Partridge; and befides, the Casks that they come in are mark'd with a Rose. This Steel is in little Bars from one Foot to two Foot long, and half an Inch thick. There are likewise several softer Sorts of Steel which are but the Refuse of the Rose Steel, which some call Steel of the fingle Mark. We have likewife Steel from Hungary, Italy, and Piedmont. There are likewise leveral Sorts made in France, as those of Vienne, of Rive in Dauphine, of Clamecy in Auvergn, of St. Differ in Champagne, and it is made likewise at Nevers, and at La Charite, and this they call Common Steel.

But of all the Sorts of Steel in Europe there are none that comes near to that of Kernent for Goodness, because amongst the hundred and fifty Iron Mines that the Germans are possest of, there are no People but those of Kernent, that know the just Quantity of Arsenick, Tar, Orpiment, Sublimate, Antimonie, white Coperas, and other Druggs, of which they compose their Water to dip it in; and this, in few Words, is the Reason why no good Steel is made but in Germany, and that many Persons ruin themselves by endeavouring to counterfeit it : But as to the Tempering of common Steel, they make use of nothing but common Water.

There was formerly a Steel which came from Damaseus, and was very good; and if we will believe Mr. Furetiere, the Temper of it was made by the Impressions of the Air, when a Horseman Riding full Speed held it in his Hand and brandith'd it in the Air. He also says, that they temper it by Whetting it upon a moist Goats-Skin,

Good Steel ought to be brittle, of a fine Grain, and as white as it can be made. The Chymists make several Operations with it. of which hereafter. As for the Filings of Steel, they are of some small Use in Phyfick, and the best and most natural is that of Needles; its Proof is by putting it upon a lighted Candle, that which burns by halves, and puts out the Candle, is mix'd with the Filings of Iron.

Of the Saffron of Mars, or the Crocus Martis!

The Crocus Martis, which is call'd aperirive, is a Preparation of Iron or Steel, which

is made after three Manners. First, by exposing Filings of Steel into distill'd Vinegar, pro-Plates of Iron to the Dew. The Second is by Sprinkling the Filings of Iron with Rain Water, or Water mixt with Honey; and after some Time you shall have thence a Rust. of a brown Colour. These Preparations of Iron or Mars are very long, but very good for the Diseases hereafter mention'd. But as these two Sorts, as I have faid, require much Trouble, and have but a bad Colour : They chuse rather a Third Way, which is to take a Piece of Steel, and take a white or Flame Heat of it in a Smith's Forge, and then applying to it a Roll of Sulphur, melt it down, and so melted, put it into a Crucible together with Sulphur, and reduce it into Powder of a beautiful red Colour; others use the Filings of Iron instead of Steel.

The aperitive Saffron of Mars is commonly call'd Crocus Martis aperitious, or aperiens, and is an excellent Remedy for the Dropfy, and to cure the Green Sickness. The Dose is from ten Grains to forty in some Opiat, Conserve or Lozenge, or as Mr. Lemery fays, with some Purgatives.

Of the astringent Saffron of Mars.

The aftringent Saffron of Mars, otherwise Crocus Mareis aftringens, is one of the former Preparations of Mars wash'd several Times with Vinegar, and afterwards put into a Crucible, and by a forceable Calcination for five or fix Hours, is reduc'd to a reddish Powder, but not so beautiful as that above.

The Use of this Crocus is to stop Blood when voided, either above or below: It is taken in a like Dose as the former, in Medicines proper for the Malady. The Ancients have given both of these the Name of Crocus or Saffron from their reddish Colours.

Of the Salt or Vitriol of Mars.

There are two Sorts of Salt of Mars or Iron, but the best is that which is made by putting the Oil of Vitriol and Spirit of Wine in an Iron Pan, and when it has staid there three Weeks or a Month, you will find at the Bottom a greyish Salt, which you must dry, and then preserve it carefully. The other Salt of Mars is made by putting the

ceeding in the same Manner as you would make Salt of Saturn, as shall be shown hereafter. The first Salt of Mars is an excellent Remedy against Obstructions: The Dose is from four to twelve Grains in any Liquor proper for the Diftemper. As for the Choice of it, the whitest and driest is the best.

of the Oil of Mars.

They call improperly the Oil of Mars or Iron, a Salt of Iron refolv'd into Liquor in a Cellar. Some People use this Oil as the Salt with this Difference, that they do it in a larger Dose.

Of the Chrystals of Mars.

They extract the Chrystals of Mars by putting the Filings of Steel into Water, and putting upon it a good Spirit of Vitriol, and by putting it in a Cellar, they draw thence Chrystals of a greenish Colour, which being dried may be made use of to the same Purpoles as the Salt or the Oil, but they must be given in leffer Quantities, because of their great Acrimony. Some Persons pretend, that by a Retort they can draw a Spirit of Vitriol from thele Chrystals; but as this Spirit must be very weak, I should not advile any Body to trouble themselves about

Of the Tincture or Syrup of Mars with Tartar.

They draw from the Rust or Filings of Iron, by the Help of Tartar and boiling Water, a blackish Tincture; which after having been evaporated and reduc'd to the Confiftence of a Syrup, is what they call Tin-Elure, or Syrup of Mars; others cause alm oft all the Moisture to evaporate, and so make that which we call the thick Tincture or the Extract of Mars.

They attribute to these Tinctures the Property of being very good Aperitives; their Doles are different, for the thicker the Tinctures are the less of 'em must be taken; so the ordinary Dole may be from a Drain to half an Ounce.

Of

They likewise draw from the Rust of Iron, with the Lees of Wine, or the Juice of Quinces, or any other aftringent Juices, a Tincture, Syrup, or Extract, to which they attribute a binding Quality. The Dose is likewise according to their Thickness, but the common one is from ten Grains to half a Dram in some aftringent Liquors.

Of Mars Diaphoretick.

The Mars Diaphoretick is made of the Rust of Iron mix'd with an equal Quantity of Sal Armoniack, and by a fubliming Veffel, they draw thence Flowers which they diffolve in Water, and then precipitate them by pouring upon the Dissolution the Oil of Tartar per deliquium. They dry this Powder, which being dried is what they call Mars Diaphoretick, altho' the diaphoretick Virtue, which it may have got from the Sal Armoniack is not very great, because it is almost all carried away by the Water.

Iron in Latin call'd Ferrum or Lemery. Mars, because the Astrologers pretend that this Metal receives Influences from the Planet of that Name, is a Metal very hard, dry, and the most difficult to melt of all others. It is naturally compos'd of a vitriolick Salt, of Sulphur and Earth, very ill digested, and bound together, which makes it rust so easily. There are feveral Mines of it in Europe, and especially in France, in Champagne, Lorrain, Normandy, Burgundy and Berry. They take it up sometimes in a Marcasite, that is of the Bigness of Pig-Nuts, and of the same Colour, streak'd with thining Metallicks, fometimes in Sand. They wash this Marcasite to get the Dire from it, then they put it into great Furnaces made on Purpole; they cover it with Charcoal, Flints and Potters Clay, and by Means of a very violent Fire, blown by huge Bellows, they put it into a Fusion; they scum thence a Matter that is as it were vitrified, Moulds, for great Wedges, about ten Foot long, and a Foot thick; this is call'd by the Obstructions, for the Jaundice, and for the Rust of Iron is Iron penetrated and ratified. Scruple to a Dram,

by the Moisture of the Air, which the La-Of the Tincture or astringent Syrup of Mars. tins call Ferrugo; it is aperitive for the Urine, and aftringent for the Belly, proper for all Illness caus'd by Obstructions, and to ftop Loofenels.

> Iron made red hot in the Fire, and feveral Times quenched in Water, renders the Water aftringent and proper for Difeases of the Belly. The Waters of a Smith's Forge retaining some saline and vitriolick Particles of the Iron, are aftringent for the Belly, and aperitive for the Urine.

Steel is Iron render'd more hard, more compact, more fine and polified, by Calcination and Dipping it in Water : To do this, they lay Iron, and the Hoofs of Animals, Stratum super Stratum, in a Furnace made on Purpose, near the Mines; they put Fire to it, and when the Metal is softned and almost melted, they dip it in cold Water, that so the Pores which were open'd by the Force of the Fire may immediately be thut up; and they oftentimes repeat the Calcination and the Dipping.

The Hoofs of Animals burnt in the Fire produce two Effects; the First is, That they diffipate the most volatile, the most saline, and the most rarified Particles of the Metal. The Second is, That a Portion of the volatile Salts which these Hoofs do naturally contain, is introduc'd into the Pores of the Metal. Now this Salt being rendred an Alcali by the Calcination, it absorbs and destroys the Points of the vitriolick Salt, and the Acid which remain'd in the Iron; fo that the Motion of this Salt being relax'd, the Metal does no longer rarify itlelf fo much, which may contribute to give a good Quality to the Steel; but the principal one that it gains comes from the Water it is dipt in, which is made on Purpole. They make Steel in many Places of France, Italy, Piemont and Hungary, but the best is made in Germany, at a Town call'd Kernene, Steel ought to be brittle, of a fine Grain, and white. They that would be at large instructed, as to the different Sorts of Steel, may read what Mr. Pomes has written in his Book

French, Gueufe, commonly Sow Metal. The Dileafes of the Spleen; the Dofe is from a

Thom

The Water in which red-hot Steel has been both by inward Taking, and outward Apquench'd call'd chalibeare Water, is an Aftringent, and is good against a Looseness.

It is remarkable, that in Iron there shou'd be two fuch very differing and opposite Qualities, as of Drying and Moistning, Opening and Obstructing, Astringing and Relaxing; these Qualities are thought to reside in the mixt Part of the Body, the Relaxing Quality in the faline and more volatile Part, the Aftringent in the Earthy, and that which

is more fixt.

The Salt of Iron is made in the following Manner. Take Oil of Vitriol, or of Sulphur per Campanam, two Pounds; Water two Gallons; mix them well in a well glaz'd earthen Jar, by dropping the Oil into the Water, and ftirring it well with a wooden Rod; put into this Mixture, of Filings of Iron, two Pounds or more, ftiring it for half an Hour, then let it settle; decant off the clear Water, filter and put it into a frying Pan, which over a Charcoal Fire evaporate to Driness, and so there will remain a pure white Salt at the Bottom. This Salt cures and opens the worst Obstructions in the Womb or Bowels; It sometimes purges, and may be given to half a Scruple in a Glass of Wine alone, or sweetned with Syrup of Violets.

After the Filings of Iron are turn'd into Ruft, and a Tincture extracted from thence, the Faces are a Kind of Crocus made without Fire, which are drying and binding, good against Fluxes, Bloody Flux, Go-norrheas, Whites in Women, &c. They dry up Ulcers and Wounds, ftop all Fluxes of Blood, the Flux of the Terms and Hemorrhoids; they strengthen the Liver, dry up Water in Dropsies and running Ulcers, in the Legs. It is given from a Scruple to half a Dram, in a proper Vehicle, every Night going to Bed.

The Copperas, or Vitriol of Iron, is made in great Quantities by a Cementatory Calcination, then perfected by Diffolution, Eva-

poration and Christallization.

Not only the Salt of Iron, but the Tinctures are said to open Obstructions of the Reins, cure Ulcers in the Reins and Bladder, help the Cholick, Weakness of Stomach, or Want of Appetite; give Eale as changeable a Figure as we see it, and be-in the Gour, and other Pains of the Joynts, cause it is found natural some have given it

plication.

The Ruft or Vitriol of Iron mixt with Vinegar and applied, is good against Tetters, Ringworms, Scabs, and running Sores, or Breakings out, though of many Years Continuance, especially if a little Roch Alum be mixt with it, taking away the St. Anthony's Fire, or any other leffer Heats and Inflammations.

5. Of Quickfilver.

Hat which we call Quickfilver, crude and running Mercury, Hydrargyrie, liquid Silver, or the Water of Silver, the Proteus of Nature, the fugitive Salt, or the mineral Spirit, is according to Mr. Charas, a metallick, or mineral Liquor, of a volatile Nature, found in the Mines, and compos'd as is believ'd of a white sulphureous Earth, and of its own proper internal Mercury, which the Philosophers think to be one of their Principles, in like Manner, as their Salt and their Sulphur. Some Authors, and Mr. Charas amongst the rest say, that Mercury is not placed in the Rank of Metals, but that they have given it the Name of a Half Metal, because that neither being hard nor malleable as the true Metals are, yet it eafily unites itself to any other Metal, especially to Gold, to which it often serves as an Intermediate to join it to other Metals. Its Colour of Silver, and the Disposition it has to Motion, is the Reason why they call it Quickfilver; from the same Colour, and its Fluidity it is nam'd Hydrargyrum, that is to fay watery Silver, or the Water of Silver: They call it Mercury from the Analogy which it bears to the Planet of the same Name, or because of the Variety of the Shapes it can take fuitable to what the Heathens represented of that Deity. 'Tis likewise for the same Reason and the Diversity of Colours that may be given it, that 'tis nam'd Proteus, and from its Fluidity and Volatility, it is call'd the Fugitive Salt.

Quicksilver is found in the Mines after different Manners, sometimes enclos'd in its own Mineral, and sometimes as fluid and of



the Name of Virgin Mercury; they find it larger than elsewhere, but the Trees which fometimes amongst Earth and Stones, and are near the Quickfilver Mine rarely produce we shall see hereafter. They who take out later than in other Places. Quickfilver from its Mine, or to speak more fresh Water, into which it falls, they render it fluid, so as we commonly have it. The Oar of the Mercury is so like the Antimony of Poitou, that if it were not for the Rays Ground, the Slaves who take it up have no- you can come to work them. thing to do but make it run through Chamois into other Countries, has made it so scarce as Pound of Lead, it would spoil their Works. it is at present, as well as the natural Cinnathere is Quickfilver found in the Indies, Po-land, Germany, and even in France, which Spoon, and letting it evaporate over the Fire; all the Pains I have taken, I could never dif- Mark that it is natural; or if it leaves a cover the Truth of the Matter; this is true black one, it is a Sign that it is mixt with indeed, that a Mine of Cinnabar was lately Lead or Tin. Quickfilver is a Matter to very found in Normandy, between St. Lo and Cha- weighty, that Mr. De Furetiere fays, that a rentan, near a Place call'd Le Fosse Rouge; solid Foot of Mercury weighs nine hundred but the great Charges of it oblig'd them to forty leven Pound, and that a cubical Foot stop it up again. Mr. Lemery says, that of the Seine Water weighs but seventy Quickfilver is usually found at the Top of Pounds; that is to say, a Vessel which will Mountains cover'd with white Stones, which hold thirty sive Pints of the Water of the Riare as brittle as Chalk; the Plants which ver Seine, according to the Paris Measure, grow upon these Mountains seem greener and will contain nine hundred forty seven Pounds

very often embodied in a natural Cinnabar, as Fruits or Flowers, and their Leaves come

One of the Signs that discover a Mine of properly from the Places it lies in, make use Quickfilver, is when in the Month of April of great Iron Retorts to Separate it from its or May there come thick Mifts or Vapours Mineral, or the other hard Bodies with which out of one particular Place, which cannot it is joyn'd, and by the Means of Fire and rife far in the Air because of their Weight: It is to such a Place that they go to look for this Metal, and especially if by Chance it is situated oppositely to the North Wind, for then they think the Mine will prove best: or Streaks which are somewhat whiter, there They likewise find a great deal of Water ais no Body that could find the Difference; bout these Mines, which it is necessary to and when it is found running or liquid in the draw off at the Foot of the Mountain before

They who would know more concerning Leather to cleanse it from its Impurities. Gold, Silver, and Mercury, may read Acc-There are but two Places in Europe from standard from the standard from the standard from standard f ried to Vienna in Austria, and from thence to and beautiful Water, and reject that, which Holland, from whence we have it; that of being put into any Copper Veffels, such as Scales Spain is transported to Peru to serve to purify of a Ballance, or others, appears like Lead, their Gold and Silver, as I have observ'd be- that is to say, when its Colour is brown, and fore. The Spanish Quickfilver was common it leaves Tails or Trains behind it, as if it enough in France; but because this Quick- were roapy, or sticks to the Hands when you filver, being put upon Silver a little heated, handle it, and is form'd into little round had the Property of Gilding the Superficies, Balls, which is of no small Consequence, and of giving the Silver a very fine Vermil- because the greatest Part of the Quickfilver lion Colour, this rich Quality, according that is confum'd, is made use of by Lookto some Alchymifts, which in Reality is no- inglass-Makers, Goldsmiths, Burnishers, Gilthing, and the Difficulty there is of having ders, and others; and if by Mischance, or it at present, because the King of Spain has Roguery, in such a Parcel of Quickfilver as expresly prohibited the Transportation of it is us'd at one Boiling, there should be one

Besides these Qualities before-mention'd, bar. Some modern Authors have faid, that which ought to be in Quickfilver, one may perhaps may be true: But notwithstanding and if there remains a yellow Spot, it is a Vol. II.



of Quickfilver. As Quickfilver is so extream- us'd in France and other Places as Cintiabar, ver they are so great that they exceed Imagination; and some Persons pretend, that Quicksilver, call'd in Latin, Hy-a Dram Weight of Quicksilver has the same drargyrus, Mercurius, Argentum Vi- Lemery. Effect as any greater Quantity whatever; and vum, and by the Chymifts, Azock, that if they prescribe it in a large Dose, as they do sometimes, especially in the Mi- the Colour of Silver, very weighty, and yet ferere or Twifting of the Guts, it is on- volatile, penetrating, uniting and amalgathat into whatsoever Shape you metamor- gary, and in Spain, and there is one Mine phose Mercury, you may make it return to discover'd about forty Years since in Norits first State of Nature, and that with a ve- mandy. ry small Diminution. Borrichius, a Danish Chymist fays, in his Book of Chymistry, that more difficult to be found than other Metals, Twelvemonth together, and having reduced the Clefts of Stones, so that you often lose it into several Forms, it took its own Shape, at the Sight of it when you think you are just last, by the Means of a little Salt of Tartar. going to take it up: People are forc'd to go The great Consumption of Quickfilver, espe- very deep into the Ground to find it, and the cially in France, is the Reason why the Dutch Men cannot work very many Years at it behave rais'd it two Stivers of their Money in fore they have the Pally, so that few are the Pound, which is three Sous or 3 Pence of employ'd in it but Criminals condemn'd to ours; and fince they have, for a long Time, Punishment. engross'd that Merchandize, it is not fold there under fix and thirty Sous the Pound. the Mine neat and running, but it is general-I shall not here recount the several Virtues ly mixt with Earth, or reduc'd into a natural that are attributed to this Metal, because Cinnabar by some Portion of Sulphur that it feveral Authors have treated of them, nor had met withal. That which has but a litdecide the Controversy, whether it be tle Earth with it may be separated by making cold or hot; but I must say this, that it is it pass through Leather; but when it has a so cold, externally, that it is impossible to great deal of Earth, or other Impurities, it hold one's Hand in a Quantity of Quickfil- must be put into Iron Retorts plac'd upon a ver for the Space of a Quarter of an Hour. Furnace, to which they fit a Recipient full It is wrong to think what some modern Au- of Water, and blow the Fire under the Rethors have written, that the Dutch turn Mer- tort 'till it becomes fierce, and makes the cury into Cinnabar to transport it into other Mercury distill into the Water. Iron Re-Places, and that for these three following torts are the most preferable upon this Occa-Reasons: First, Because Quicksilver is easi- fion, because the Quicksilver endeavouring ly transported in Sheep-skins, put into Barto get to this Metal, separates itself the more rels, and fill'd up with Straw or Shavings: The willingly from the Earth, and is the more fecond is that, if we were oblig'd to revive dispos'd to be rarify'd and push'd on by the Cinnabar into Mercury, we could not afford Fire. it at the Price we do; and all the Mercury One is not always affared of the Purity of

ly weighty, so it is no less strong; since a at least there are only some very curious Peofifty Pound Weight of Iron, being put upon ple, who refolve to have their Mercury pure a Bouillon of Quickfilver, which as it comes and near, who give themselves the Trouble from Holland generally weighs a hundred and to revive it. In the Third Place, when the threescore or sourscore Pounds, it shall no more Dutch have a Mind to make their Quicksilfink in it than if it were an Ounce, which I ver portable, they fix it very eafily, and put could never have believ'd unless I myself had it into all Sorts of Vessels, even into Paper, feen it. As to the Properties of Quickfil- and fend it to them who have the Secret to make it run again without any Charges.

is a Metal, or half Metal fluid, running, of ly that it may pass the faster, and disintangle mating itself with Gold and Silver; it is the Bowels. It is likewise a surprizing Thing, found in several Mines in Europe, as in Hun-

As Mercury is a very fluid Body, fo it is having operated upon some Mercury for a for it infinuates itself into Earths, and into

The Quickfilver is not always taken out of

that is reduc'd in Holland into Cinnabar, is the Mercury that is fold by the Merchant,

which was made in the Mine, and could not be separated by the Leather, or by the Addition of Lead, or some other Metal or Mineral, that the Sophisticators may have put into it, 'tis therefore necessary to purify it before you use it.

The Method of the Ancients to purify their Mercury, and as they faid at the fame Time to correct its cold Quality, which was fo in the fourth Degree, was by mixing it in a Stone Mortar, with Salt and Sage in Powder, and to beat this Mixture for an Hour together with a wooden Pestle, and afterwards to ftrain it through a Skin, by this Means they render'd it clear and beautiful: But they had only taken off a superficial Impurity which was of no Confequence, which the Ouickfilver by rolling about contracted in the Vessels of Leather or Earth it was kept or transported in: If there were any Metal or metalick Matter in the Quickfilver it would pass with it through the Pores of the Skin, and that could make no Separation of it; and as for the pretended cold Quality of the Mercury, that could not be corrected by this Preparation, and the Metal continued in the same Condition as before.

The fure Means of having Quickfilver as pure as it is possible, is to separate it by Cinnabar after the following Manner,

Mix together two equal Parts of Powder of Cinnabar, and Filings of Iron, and fill about a Half, or two Thirds of a Retort with them, place it on a reverberating Furnace, and fit to it a Glass Recipient full of Water, without luting the Joynts; encrease the Fire to the fourth Degree, you will find the Quickfilver distill and fall to the Bottom of the Recipient; keep on the Fire 'till no more will rife, and you will have got thirteen Ounces of running Mercury from one Pound of Cinnabar; wash ir, and having dried it with Linnen Cloths, strain it through a Leather. We may be fecure that this Mercury is pure, because if any Portion of Metal or Mineral had been mixt in the Mine with the Quickfilver, of which the Cinnabar was made, it would have remain'd at the Bottom are twifted in this Destemper; it is voided of the Veffel, and would not have been able to rife with the Mercury and the Sulphur; and if after the Sublimation any strange Body had been mingled with the

for it may be vitiated by some Mixture Cinnabar, this Impurity of what Nature soever would be separated by the Revivisication or Distillation that I have been speaking of. The Recipient must be fill'd with Water, that the Mercury which ascends in a Vapour from the Retort, may, by the Coldnels thereof, be condens'd into a Liquor ; but the Joyning of the Recipient with the Retorr, must not be lated, because that in the Distillation there always arises a great Quantity of Sulphur from the Cinnabar, which would mix itself with the Mercury if it could not find a Place to get out at, and would reduce it to a Sort of grey Paste, to that it would be necessary to distill it a second

> The Iron, upon this Occasion, serves as an Alkaly to separate the Acids of the Sulphur, which held the Mercury in the Cinnabar; and this Mercury being difingag'd from its Bonds, comes into a Condition of being rarified and push'd on by the Fire : Quick Lime produces the same Effect as the Iron, but then there must be thrice the Quantity.

The Fluidity of the Mercury proceeds from this, that the infensible Particles, of which it is naturally compos'd, are all spherical or round; for their Figure rendring them uncapable of hooking one into the other, they roul about continually. The same Rea-fon explains, why this Metal, though it be so heavy, should easily be volatilized by the Fire; for its round Parts being always difunited, and having no Tye of one to the other, are all feverally light, and in a proper Condition to be push'd forward, and elevated by the Fire. That which makes the Solidity and Firmness of Metal, is when its insensible Particles having divers Figures, are so hook'd, bound, and exactly united one to the other, that the Fire has no Power to separate them, so as to let them be ele-

Quickfilver is a Remedy for the Miserere, in which the Patient swallows a Pound or more, that by its Weight it may in its Paffage extend the Fibres of the Bowels, which by Stool without any Alteration.

They use Crude Mercury to kill the Worms, they boil it in Water, and then give the Patient the Decoction to drink, which

must have taken but a very small Impression let it have boil'd never fo long; for the Meral is found to be of the same Weight, and the Decoction has no other Colour, Tafte or Smell, than common boiling Water, and yet it does not fail of producing a good Effect : Care must be taken that the Vessel in which the Mercury is boil'd be of Earth or Glais, and not of Metal, because the Quickfilver would penetrate it. Mercury kills Lice and other Infects that infeft the Body; it cures the Itch, Tetters, and Venereal Distempers: It resolves and distipates hard Tumours in the Glands and other Paris: It removes Obstructions, applied outwardly or inwardly; it is us'd in the Composition of feveral Unguents and Plaisters; it is one of the best Remedies in Physick, to diffipate and eradicate the groffest, most foul, malignant and inveterate Humours.

One of the most surprizing Effects that Mercury produces, is to raile a Salivation, and to to carry off the very Radix or Root of the Diftemper in all Venereal Foulnesses. To explain this, it must be considered, that the Venereal Virus consists in an Humour that is falt or acid, tartarous and grofs, which fermenting by Degrees corrupts the Blood and other Humours, and causes all

the ill Accidents that follow it.

The Particles of Mercury which enter into the Body, either by Frictions of mercurial Oyntments, or by the Mouth, being rarified, are distributed as a Fume, and apply themselves particularly to the Virus, because this acid Matter is more capable of uniting with them than any other Substance: They penetrare the Venom, and are penetrated by its acid Salt, almost in the same Manner as it happens in the Mixture that is made when one would prepare the corrofive Sublimate; the Heat and the Circulation of Humours foon make this Mixture of Mercury and Acid, elevate and fublime itself to the Brain, as the Fire elevates the corrosive Sublimate in a Matrals, upon which the Head, the Gums, the Palate, and the Tongue, are ulcerated; the falivary Veffels are relax'd, and there are the same Pains as if the corrofive Sublimate was put upon some Part that was excoriated: These Accidents are accompanied by a copious and involuntathe Brain, and the Relaxation of all the (alivary Veffels: This Flux continues 'till all the acrid, virulent, and mercurial Humours are evacuated.

Since there is nothing able to subdue these Venereal Diftempers to speedily, fafely, and effectually as Mercury, it will be necessary to see the several Ways, by which it may be prepared as well for external as internal Ules.

An Oyntment commonly call'd, the Neapolitan Oyntment, is prepar'd after the following Manner for external Uses.

Take of Quickfilver cleans'd and strain'd through Leather, three Ounces; kill it in a Marble or Wooden Mortar, with a fufficient Quantity of the Oil of Turpentine, adding of Hoggs-Lard, fix Ounces; beat the Mercury and the Lard well together, until the Quickfilver disappear, and make an Oyntment to raile a Salivation after the following Manner.

First bleed the Patient once or twice, or oftner if you see Occasion for it; then purge him according to the Strength and natural Constitution of his Body, making use of a Bath, half Bath and Broths, alter'd with proper and fuitable Herbs, so as to render the Humours more fluid and fitting to rife upon a Salivation, taking Care that the Salivation be rais'd, carried on, and promoted leafurely and gradually; for in this Respect most of our old Surgeons have err'd, and not a few of our late Surgeons do still err, in raifing a Salivation too haffily, and to fuch a Height, that the Mouth Tongue and Tonfils are frequently feiz'd with a Gangrene; wherefore a Salivation ought to be rais'd by degrees, and the Month often look'd into, so as that the Signs of an approaching Salivation may be duly and clearly difcern'd: Wherefore placing the Patient before a good and clear Fire, being first cover'd with Cloaths fuitable to his Diftemper; begin the Friction at first with half an Ounce of the Neapolitan Oyntment, anointing him from the Soles of his Feet to the Calves of his Legs : Upon the second Night use about two Ounces more of the same Oyntment, in Anointry Salivation, which is maintain'd by the ing him from the Calves of his Legs to his Acrimony of the Humours, that descend from Kinees : And upon the third Day let him reft,

especially if you perceive the Signs of an making Use of the Plaister of Vigo, otherapproaching Salivation, that is, an extraordinary Heat and Drinels of the Mouth, a Swelling of the Gums and Salival Glands, attended with a frequent Spitting. Upon the fourth Day, having fearched the Mouth to try whether the Orifices of the excretory Veffels be feiz'd with an Inflammation, or fmall Ulcers, another Friction is to be perform'd with two or three Ounces of the Oyntment, anointing from the Knees to the Middle of the Thighs; and upon the fifth Day the Patient is to reft again, abstaining from the Use of the Oyntment, especially if you observe the Ulcers to enlarge, and a laudable Salivation to come on; but this depends upon the Nature of the Diftemper, and the Strength of the Patient; for some require but four Frictions, others more; but nothing is more to be feared and avoided than too high a Salivation: Wherefore, if a fourth Friction be required, it is to be performed with two or three Ounces of the Oyntment, anointing from the Middle of the Thighs to the Loins, Hips, and privy Members; and if a Friction should happen to be required a fifth Time, you are to anoint the Hips and privy Members overagain, extending to the Arms, and all the upper Parts of the Body, except the Head Neck and Breaft.

If the Tonfils should happen to be seiz'd with a Gangrene, by Means of too high a Salivation; then having taken away some Quantity of Blood, you must instantly have Recourse to Purgation, than which there is nothing more effectual, and it is to be frequently repeated, if necessary, and the Cloaths wherewith the Patient was covered, during the Time of Friction, must be taken off; such a Salivation is approv'd of, whereby about two or three Pints of a vilcuous or glutinous Humour are discharg'd every Day, and which is fully accomplish'd in the Space of twenty or twenty five Days, or a Month at farthest. After the Salivation is over the Patient is to be expos'd to the Air, and refresh'd and recruited by the Help of a Bath, Broths, and Foods of a good Nourishment; or else he must make use of a Diet-Drink made of the sudorifick Woods and Roots for fome Time after.

Some raife a Salivation by Emplastration,

wife call'd the Plaister of Frogs, with a fourfold Quantity of Mercury; others raise it with the Fumes of Cinnabar, and this is call'd Fumigation, which is a very good Way, especially for such as are troubled with Warrs, Chaps, and Swellings about the Fundament.

Salivation is also rais'd by the Help of Crude Mercury taken in at the Mouth.

Take of Crude Mercury an Ounce, well cleans'd and kill'd with Venice Turpentine ; of the Conserve of red Roses, half an Ounce; of red Coral prepar'd, half an Ounce; of which take from half a Dram to one or two Drams, 'till fuch Time as a due Salivation rifes.

The most common Preparations of Mercury for the Venereal Diftemper, are these which follow: Sweet Mercury, or the white Eagle; the mercurial Panacea, Turbith Mineral, Mercury precipitate, white, red, and green, &c. for Mercury, like Proteus, can be chang'd into several different Shapes, but by the Force of Fire it still returns again to its own Nature, which

the Chymists call Reviving. Sweet Mercury is thus prepar'd: Take of Sublimate Corrofive Mercury, and of Crude Mercury, of each what Quantity you please; mix them well together, and put them in a Glass Body, to the Height of one Finger, or two; then fublime them with a flow Fire gradually, and separating the Sublimate from its Dreggs, powder it over again, and sublime it three or four Times over, mixing it well; and this is call'd Sweet Mercury, or the White Eagle.

The Panacaa of Mercury is made by Subliming of Mercury ten or twelve Times over: This Panacea will looner raife a Salivacion than Sweet Mercury, which is sometimes apt to purge downwards; they are both of them prescrib'd from ren Grains to half a Dram.

Take of Sweet Mercury twelve Grains, powder it, and make it up into a Bolus, with a sufficient Quantity of the Conserves of Roles, or the Mucilage of Gum Tragacanth, to be given at Nine a-Clock at Night, giving the next Night fifteen Grains, and the third Night twenty, 'till the Salivation be duly rais d.



The Panacea of Mercury is to be us'd after the fame Manner, by encreasing the Dole of it gradually, according to what Height you have a Mind to raise the Salivation.

A great many use to prescribe sweer Mercury one Day, and a purging Potion upon the other Day, endeavouring by that Means to cure the Venereal Distemper without Salivation, or else they mix sweet Mercury with Purgarives, and give it in Pills, Bolusses or Opiats.

Take of Sweet Mercury and Diagrydium, a Dram; of Lozenges of Coloquintida, a Scruple; powder them, and with a convenient Quantity of Venice Turpentine, make a Mass of Pills for five Doses.

White precipitate Mercury is thus prepar'd: Take of Mercury well cleans'd and strain'd, four Ounces; dissolve it in a large Matras, or Cucurbite, with three Ounces of Spirit of Nitre, adding to the Solution, of fair Water, two Pounds; and pour again upon this last Solution of salt Water, two Pounds; and then the Mercury will, by little and little, precipitate or fall to the Bottom in the Form of a white Powder, which is to be sweetned by often washing, drying and burning, or kindling Spirit of Wine upon it. The Dose of the Powder inwardly, is from four Grains to half a Scruple.

But outwardly it cures the Scab, and other cutaneous Diftempers, being us'd after the following Manner. Take of white Precipitate, one Dram; of the Oyntment of Rofes, an Ounce; mix and make an Oyntment.

Yellow Precipitate, or Turbith Mineral, is thus prepar'd: Take of crude Mercury, four Ounces; pour upon it of Spirit of Vitriol or Sulphur, one Pound; put this Solution into a Retort, with a large Receiver, fer it upon a flow Fire, and draw off all the Liquor, until it is dry, and so a white Mass will be obtain'd, which is to be powder'd and diffolv'd in hot boiling Water, and then the Mercury will gradually precipitate in the Form of a yellow Powder, which is to be sweetned by washing and burning upon it Spirit of Wine. This Powder is to be given fron three Grains to four or fix. It purges vehemently, both upwards and downwards, but it fafely and speedily cures the French Pox.

The Coralline Secret, or the Dragon devouring itself, call'd also Lampandra, is without any other Addition perform'd in the Space of two Months, by digesting Quick-filver in an Earthen Pot with a long Neck, by the Help of a Lamp; for the Mercury is by that Means chang'd into a bright red Powder, to be given from four Grains to fix or eight, provided it be first sweetned by burning Spirit of Wine upon it, otherwise it often provokes Vomiting.

6. Of the Mineral or Natural Cinnabar, and likewife of the Artificial Cinnabar.

THE Mineral Cinnabar is a red Stone, heavy and shining, Pomet, which is found in many Places of the World, but the best and most esteem'd comes from Spain. I have taken a great deal of Pains to find the true Name of the Place where Cinnabar is found, because a worthy Person has affur'd me, that he himfelf had feen and gather'd it, and that the best qualified was that of Andalusia, upon the Lands of the Fathers of St. Ferome, and that it was there as common as Freeflone is with us : But Mr. Charas has inform'd me, that the great Mines of Cinnabar lay in the Mountains of Sierra Morena, that the King of Spain maintain'd a great many Workmen there at his own Expence and Charges, to get it thence and fend it to Peru; and as this Relation feems to me to be most probable, I take it for certain, that the large Quantity of Cinnabar that we had heretofore, and the small one we have had lately, came from the Mountains of Sierra Morena; and that the Cheapnels of it, at that Time, fufficiently shows us that it was not difficult or expensive to take it out of the Mines, which may in some Measure favour the Sentiments of that Person, who told me that it was found as commonly as Stones, and that it cost nothing but the Gathering them.

That Natural Cinnabar is to be chosen of a high Colour, the most shining, and with as little Stone as possible; but since the true Spanish Cinnabar is become so scarce in France, there are so many Sorts of the other, that it is difficult to describe them all, tho nothing is at present more common than to

ask

they who fell make no Scruple of giving one for the other, and fo put off that of St. Lo, tho' very different, because that of Spain is of a bright red Colour, and that of St. Lo of a dull One, and is less abounding in Mercury; and yet some Persons have maintain'd, that that of St. Lo would yield fourteen Ounces of Mercury out of the Pound as well as that of Spain, which I cannot contradict, because I have never tried it.

The Mineral Cinnabar of Spain, though much demanded, has no other Property, that I know of, but that skilful Alchymists pretend to make Vermillion of it, and even Gold itself, by fixing it and giving it a Tincture, for in Respect of the Weight it comes very near the true Gold. Mr. Lemery fays, the Natural Cinnabar is a Mixture of Mercury and Sulphur, which are sublimed together by a sub-erraneous Heat, which is done by Nature almost after the same Manner as they do the Artificial Cinnabar.

Mr. Furetiere has remark'd in his Book, that there is a Mineral Cinnabar which is a very red Stone, heavy, and not hard, refembling the Hematitis, which contains Quickfilver which drops from it of itself without the Help of Fire: He fays it is found about Camiola; and that it is the fame Thing as the Minium of the Ancients, and is a Poison. He says also the Word Cinnabar comes from the Greek Word Kinabra, which fignifies the Smell of Goats, which is an insupportable Smell; because when they dig a Kind of Fossil Cinnabar out of the Ground, according to Matthiolus, it cafts fo rank and strange a Smell, that they are forc'd to ftop their Note and Mouth for fear of being suffocated by ir. I should not have spoke of this latter Cinnabar, but that I look upon it to be a Falfity, and to diffuade them who would believe that there is a Mineral Cinnabar from which the Mercury flows naturally.

The Artificial Cinnabar in the Stone, is a Mixture of Mercury and Sulphur fublimed and reduced to a Stone, in the Manner we fee ir.

ask for the right Spanish Cinnabar; however Operations, where Mercury revived from Cinnabar is necessary.

Cinnabar in Stone is also of some small Use to Painters, after it is ground, because it is of a more lively Red than that which comes ready ground from Holland; but that which is troublesome in it is, that it is very difficult to dry it : It is likewise of some Use in Phyfick, as well to make Fumigations, as other Remedies, both inwardly and outwardly; but Cinnabar is feldom us'd inwardly but for Horses, to make a Composition, call'd the Pills of Cinnabar. All the Cinnabar, both whole and ground, comes from Holland; and it is a surprizing Thing to find, that they who make it do it in Cakes of three or four hundred Weight, which they do eafily by putting twenty-four Pounds of the Materials, that is to fay of Sulphur and Mercury together; and when they are fublimed by putting twenty-five Pounds more, and continuing it after the same Manner, 'till the Vessel is full, and this is the Reason why the Cinnabar we fee is dispos'd in several

As for Vermillion it is Cinnabar in Stone. ground with Urine or Aquavita, and after it is dried transported to different Places.

There are two Sorts of Vermillion brought from Holland; the Red and the Pale, which happens according as they are more or less ground; for the more it is ground it is the finer, the paler, and the more effeem'd. especially by them who use it in making Sealing-Wax.

That Vermillion is to be made choice of that is well ground, dry, least earthy, the most pure and clean that may be. It is certain that the Dutch when they grind their Vermillion, mix it with fome Lead Oar, or some other drying Druggs, because Cinnabar in the Stone, when ground, is difficult to dry, whereas it is otherwise in that which comes to us ready ground.

Vermillion is much us'd in France by them who make Scaling Wax, Painters, and other Workmen. But Care must be taken not to use Cinnabar ground, and mix'd with any fat Substance to paint the Face ; because as Mr. The Use of Cinnabar is as I have said, to Lemery has well remark'd, there is a great draw thence a Mercury, for those who deal of Danger in it, and ill Accidents may would have it clean and neat, as well to attend it; and therefore the Vermillion of make the Mercurial Panacea, as for other Spain, or Spaniff Wool, may be us'd inftead



of

of it with Safety, as being made of nothing lepfies, Afthma's; to take inwardly from but the Saffron of the Levant or Safra- two Grains to half a Scruple.

They draw from Cinnabar, or Vermillion, by the Help of Fire, and the Filings of Steel, or Quicklime pur into a Retort, a Quickfilver that is very pure, and proper for all Uses where Quickfilver is requisite; but as it is very dear, because of the Expence, every Body, except they be very curious, make use of that of Holland : This Mercury ought to be extreamly white and lively.

Cinnabar is a Mineral Matter, Lemery. folid, hard, weighty, bright, Chrystalline, of a very red Colour, diftinguish'd with Streaks, shining, and sparkling like Silver, compos'd of a Sulphur and Quickfilver, and a little Earth: That which is impure, and of a yellowith Colour, mix'd with a stony Matter is to be rejected, as not being the true Kind of Cinnabar, but rather

a Kind of Auripigmentum, or Orpiment. There are two Sorts, one natural, call'd Mineral Cinnabar, the other artificial, call'd fimply Cinnabar: The Natural is found form'd in Stones that are red, shining, and weighty, in the Quickfilver Mines of Spain, Hungary, Germany, France, and other Paris; that of Spain is accounted the best. That which is most weighty, clean, red, and thining, is to be prefer'd, because the higher its Colour, the more Quickfilver it contains. The Natural Cinnabar has been sublimed by the subterraneous Fires, almost in the same Manner as the Artificial Cinnabar; but as in its Sublimation it is mix'd with the Earth it meets with, it is not so weighty, pure nor beautiful as the Artificial, and contains less Mercury.

The Artificial Cinnabar is made with three Parts of crude Mercury, and one Part of Sulphur, mix'd and put into fubliming Veffels over a gradual Fire: It ought to be nocturnal Pains; kills Worms in Young and made choice of in fair Stones, very weighty, bright, with long, clear, and fine Points, of a brownish red Colour: Each Pound of Cinnabar has fourteen Ounces of Mercury to two Ounces of Sulphur. Artificial Cinnabar being ground upon a Porphyry, is reduc'd to the finest Powder, of a most beautiful red Colour, made use of by Painters, and those who make Sealing-Wax.

Take of Native Cinnabar, fix Grains; of the Conferve of Lime-tree Flowers, one Ounce; make a Bolus to be given in the Falling Sickness.

It is to be observed, that Native Cinnabar, though it hath been us'd and try'd by a great many, will not raise a Salivation; whereas the other Kinds of Cinnabar will do it speedily and eafily, which truly ought to be attributed to the large Quantity of Earth, with which Natural Cinnabar abounds, that reftrains it from fubliming or rifing high enough

for that Purpole.

If Native Cinnabar be required to be made use of in Diftempers of the Brain, the Cinnabar of Antimony ought to be employ'd in flead of it, rather than the Factitious or Artificial Cinnabar, for this is more properly us'd in Venereal Diffempers, and chiefly by Way of Fumigation.

Some chuse the Cinnabar of Hungary, as being the most solid and heavy, of a solar Nature, replenish'd with the best Sulphur

and Mercury.

Native Cinnabar being ground into an impalpable Powder, is almost an universal Medicine, and may be given from ten to thirty or forty Grains, or a Dram, in any convenient Vehicle, for forty, fifty, or fixty Days together, taking it alway at Bed-time; it may be taken two Days together, and lometimes three, and then the next Day to purge after it, and fo to continue 'till thirty, or even fifty, or more Doses are taken.

It is an excellent Antivenereal, and being taken inwardly, expells the Pox and all its Foulnels out of the whole Body, and all its Juices; it sweetens the Blood, takes away all Manner of Pains and Aches in any Part; all Manner of Swellings, Ulcers, and Old; is a Specifick for Falling Sickness, as faid before; and is excellent for Vertigoes, Apoplexies, Palfies, Lethargies, and all Difeates of the Head and Brain.

The Artificial Cinnabar is thus made: Take common Sulphur in Powder, four Ounces; melt it in an earthen Pan upon Coals, add to it a Pound of Quickfilver, ftir them continually with an Iron Spatula These Cinnabars are made use of in Epi- 'till they are united in a black Powder, and

the Mercury ceases to appear; being cold, grind it in an Iron Mortar to a subtil Powder; put this Powder into a Glass Retort well luted, and distill with a naked Fire; first with a gentle Heat, then with a stronger; then in a few Hours the Mercury and Sulphur will sublime into the Neck of the Retort, the Whole appearing of a greyish red, or a dark red Colour; beat it into a fine Powder, sublime it again and you have a most pure red Vermillion; it has all the Virtues of the former: But Physitians have not given it inwardly so much as the former, though it be full as safe.

7. Of the Corrofive Sublimate, and other Preparations of Mercury.

Pomet. THE Corrofive Sublimate, which we have from Holland and Venice, is made of common Mercury, or Quickfilver reviv'd from Cinnabar, of Spirit of Nitre, of Vitriol calcin'd to a Whiteness, and of Sea Salt decrepitated, and by the Means of a subliming Vessel, reduc'd to a Lump that is white and shining.

That Sublimate, whether from Holland or Venice, is to be chosen, which is whitest and most shining, but the least weighty and compact that is possible; but that is to be rejected that comes from Smyrna, which is weighty, and full of Sparkles, because it is pretended that it is made with Arsenick, which I can't affirm, because I am not certain of it; and the best Way to prove it that I know, is to throw upon it a Drop of Oil of Tartar per Deliquium, or to rub it with a little Salt of Tartar; if it grows yellow it is an infallible Mark that it is made of Mercury, and has the Qualities requisite to it; on the contrary if it turns black it is to be rejected.

Corrolive Sublimate is made use of by several Persons; as Surgeons, Goldsmiths, Farriers, and others; it is likewise us'd in Physick externally: but as it is one of the strongest Poisons we have, it ought not to be us'd without the greatest Precautions; and the Persons who retail it ought not to sell it but to such as have Occasion for it by their Profession, as the King's Ordinances require, by which it is expressly forbid to sell any Sorts of Poisons, but to the Master of a Family; and these same Retailers are or-

the Mercury ceases to appear; being cold, grind it in an Iron Mortar to a subtil Powder; claring what he intends to do with it; and the Seller is to keep the same Drugg under his luted, and distill with a naked Fire; first with a gentle Heat, then with a stronger; then in a few Hours the Mercury and Sulphur the in a few Hours the Mercury and Sulphur gring the Neck of the Retort.

Of Sweet Sublimate, or Mercurius dulcis.

The fweet or dulcified Mercury, or Sublimate, call'd likewife Aquila alba, or the White Eagle, is Corrofive Sublimate, and crude Mercury, reduc'd into a white Lump, with little shining Streaks, by the Means of Fire and Glass Matrasses.

The Sweet Sublimate, or dulcified Mercury, ought to be white, thining, adorn'd with little hard Shoots, which being put to the Tongue is infipid, and reduc'd to Powder, is of a white Colour, a little upon the Yellow. Great Care must be taken that it has been dulcified three Times at least; for unless it has its necessary Qualities, that is, that it be very infipid or without Tafte, it may produce very ill Effects. They who bring it from Holland, should not so much look upon the beautiful Colour which the Dutch give it, as to take heed that it has no Tafte : For to my Knowledge there has come fome from Holland which might have had very ill Effects, if Care had not been taken; because it had been sublimed, or dulcified but once.

The Sweet Sublimate is a very excellent Remedy to cure the Secret Disease, and to kill Worms in Children: The ordinary Dose is from two Grains to thirty, taken in a Bolus, either of some Conserves, or purgative Medicines.

Of the Mercurial Panacæa.

The Mercurial Panacea is a fweet Sublimate made of Mercury, reviv'd from Cinnabar, and dulcified or fublimated eight Times. I shall not be long upon this Point, because the Directors of the Hospital of the Invalids have caus'd a long Tract concerning it to be printed; I shall only say, that this Medicine is very much demanded and valued, as well for its Novelty, as because they pretend it is a general Medicine for the Cure of the above mention'd Diseases, and they as tribute so many Qualities to it, that they Vol. II.

have given it the Name of Panacaa, which is as much as to fay, the Universal Medicine: They commonly make up this Panacaa into little Pills, with the Mucilage of Gum Tragacanth, and when they are dry they differ little in Colour or Size from the Coriander Comfit.

Of the White Precipitate.

The White Precipitate is a Quickfilver diffolv'd in the Spirit of Nitre, and precipitated by Salt into white Powder. This Powder, after having been well wash'd and dried, is what we call the true White Precipitate of Mercury, to diffinguish it from other Sorts. of White Precipitate, of which one is made of Corrofive Sublimate, diffolv'd in a Water made of Sal Armoniack, and reduc'd into a white Powder, by cafting the Oil of Tartar per Deliquium upon the Dissolution, and afterwards washing and drying it as that above-mentioned. The Third is made likewife of the Corrofive Sublimate reduc'd to Powder and put into warm Water: and when the volatile Spirit of Sal Armoniack has been cast upon it, there will remain a white Powder, which after having been wath'd and dried, has the same Properties as the two others, which is to raife a Salivation, or mix'd with Oyntments or Pomatums to cure Tetters and cutaneous Diftempers.

As these Precipitates, and generally all Preparations of Mercury are violent Remedies. in which one may run some Hazard; so they ought not to be us'd but with great Precautions, and the Advice of understanding Perfons. The White Precipitate of Mercury shows itself to be in a good Condition when ic is white and weighty, and if it exhales, being put upon a burning Coal; on the contrary if it remains upon the Fire, or runs into Lead, it is an infallible Sign that it is nothing but white Lead ground, or some other white Powder, as that of Roan, or the like.

The Precipitate, made with Sublimate, than that which is made of crude Mercury, Holland is most preferable, as well because it which may seem strange, because every Thing is more beautiful, and consequently more made of Mercury is generally weighty, and this faleable; as because we can fell it cheaper, is the Reason why they that do not know it will especially in Time of Peace, than any that not take it, although it is as beautiful and as can be made in France. good as that which is made of crude Mercury.

Of Red Precipitate.

The Red Precipitate is Mercury diffolv'd in Spirit of Nitre, and afterwards heated by the Fire 'till it has got a shining red Colour, fuch as that which comes from Holland: As for thole red Precipitates which are made by the Artists in Paris and other Parts of France, they have as many different Colours as there are People that make 'em, and there are few of them can come up to that of Holland. 'Tis this which makes the greatest Part of the Red Precipitates which are fold to be fometimes red, and fometimes of an orange or some other Colour, and never shining, unless it were that which comes from Holland; however I will not fay, but it may be as good though it be not as saleable. There are likewife two other Sorts of Red Precipitate, one of a Rose Colour, which is made when inftead of putting the Diffolution of Mercury in the Spirit of Nitre upon the Fire, they pour upon it hot Urine, and there will foon be a Precipitate of a Rose Colour, which being walh'd is good for the Worms or the Itch, and may serve for the same Uses as the Red Precipitate made by Fire. The third Red Precipitate is made of Sublimate dissolv'd in warm Water, upon which they pour the Oil of Tartar per Deliquium. Mr. Lemery fays, that this Preparation of Sublimate is the true Red Precipitate, but that it does not act fo violently as that of Mercury. These two last Precipitates are very seldom us'd, because the first is most in Vogue, which ought to be faithfully prepar'd that it may be good; and Care must be taken that it be not mix'd with Lead Oar, which may eafily be known by rubbing it upon a Piece of Gold, for if it makes it white, it is a Sign that it is good, and that it is made of Mercury; but if it makes it black it is a Proof that it retains a Tincture of Lead, and that it is mix'd with it: You may likewife put it upon the Fire, and it is a good Sign if it exhales; howshould be extreamly white, and much lighter ever I must say, that That which comes from

of the Coralline Secret.

They call the Coralline Secret a Red Precipitate of Mercury, upon which they have burnt a good Spirit of Wine, repeating it fix Times; and this Coralline Secret is made use of internally, because the Spirit of Wine has sweetned it, and taken away whatever might be dangerous in it.

Of Yellow Precipitate.

The Yellow Precipitate, or Turbith Mineral, is Mercury reviv'd from Cinnabar diffolv'd in the Oil of Vitriol, and afterwards with lukewarm Water precipitated to a yellow Powder, which being wash'd and dried is us'd as a strong Purgative and Emetick. They likewise make a Tellow Precipitate, by diffolving powder'd Sublimate in warm Water, and pouring Lime-Water upon it, and the yellow Powder, which will be found at the Bottom, after being wash'd and dry'd, may pals for Yellow Precipitate, or Turbith Mineral. Mr. Lemery fays, this Diffolution or yellow Water, is call'd Phagedenick Water, or Water for Ulcers, because it is proper to cleanse and heal Ulcers. The Surgeons make frequent Ule of it in the Hospitals; but the common Phagedenick Water is Lime-Water, into which they have put a little Sublimate.

Of Green Precipitate.

The Green Precipitate is Mercury and Copper diffoly'd in Spirit of Nitre, and afterwards with diffill'd Vinegar, thrown down into a Powder of a green Colour, which is made use of to purge upwards and downwards; and as some pretend, it is a Specifick to cure Venereal Distempers. They who prepare these Precipitates find a yellow Powder that is very like the Turbith Mineral.

It is observable, that the more Copper is us'd in this Operation the more Acrity it has, and greater will be its Effect. This Precipitation is very little made use of, and was very little known, before the Sieur Matte de la Faveur, the King's Distiller at Monepellier, gave us a Description of it.

Of the Oil of Mercury.

The Oil, or to speak more properly, the Liquor of Mercury, is Quickfilver diffolv'd in the Oil of Vitriol, and reduc'd into a white

Mass by the Means of Fire, which being put in a Cellar will dissolve and be reduced to Water. One may make another Oil of Mercury that is sweeter, by dissolving Quicksilver in the Spirit of Wine, and this may be used with the greater Safety: You may likewise make it with Sweet Sublimate, and Sal Armoniack; or instead of Sal Armoniack you may use Salt of Saturn, or in the Room of Salt of Saturn of Sugar-Candy; and so of several other Sorts enumerated by several Authors.

8. Of Tin.

TIN, which the Ancients call'd White Lead, is a white Metal which is not fo hard as Silver, and yet harder than Lead. Some have given Tin the Name of Jupiter, because they pretend it draws Influences from that falle Divinity. They pretend likewife that it is form'd of two Matters, that is, Silver and Lead, because in the Tin Mines there is fometimes form'd both Lead and Silver, and sometimes Diamonds, which are fix'd to the Rock from whence they take their Tin; these are naturally polish'd, squar'd and pointed, and are of different Sizes, some as big as a Nut, but they are not to hard, nor will they cut like true Diamonds. They fay likewife that it is compos'd of Earth and an impure Sulphur, a Metallick Salt, and a Mercury a little finer and better digested than that of Lead, and that it is an Enemy to Gold and Silver, and when they are once mix'd it is difficult to part them.

The greatest Part of the Tin which we have in France comes to us from England in Pigs of different Weight, and especially from the County of Cornwall: The Britannick Islands abounded so much with that Metal, that the Ancients gave them the Name of Tin Islands.

There are three Sorts of Tin at Paris; the Hammer'd Tin, the Sounding Tin, and the Common Tin: The Hammer'd Tin, which is the most beautiful and the best Sort, is the English Tin as it comes from the Mine, and in Working they incorporate it with Tinglass, Copper, and a little Zink to purify it. Sounding Tin is English Tin mixt with the more Common Tin, and is also made with Tinglass and Copper, which is the Cause, as Mr. Lemery has very well observed, that these

2 Matte

Matters which are compos'd of stiff and as shall be afterwards shown in the Chapter brittle Parts, being united with the Tin, make its Parts firm, and render the Metal more hard, folid, and compact, and so it becomes founding or ringing; for it is necesfary that all founding Matter should be compos'd of stiff Parts so dispos'd, that being struck upon they should be agitated and tremble, by Hitting one against the other, which cannot be done by Tin alone, because it is fost and pliant. The Common Tin is English Tin and Lead, with Brass that is incor-

porated with it,

To know the Degrees of Goodness in Tin, they take a white Chalk that is found near Tonnerre in Burgundy, and of this Chalk they make a Sort of Mould into which they pour the Tin when melted; and by Means of this Chalk the Artifts know what Standard it is of, by the little Lines or Furrows found in it; or else they cast Tin Bullets in Moulds, and that which is found lightest is efteem'd the best. Some Authors fay, that Tin or white Lead is found upon the Surface of the Earth, amongst the Sands, and in Torrents dried up; and that it is found in Grains, which being wash'd is cast into Moulds, in the Shape we fee them. Befides the different Uses we make of Tin, the Chymists perform several Operations with it, as shall be shown hereafter.

Besides the English Tin, there is some that comes from Germany, but it is not so good, because it is only the Refuse of that which ferv'd to Tin their white Iron. We have

also some brought from Lorrain.

Of Tin in Leaves.

Tin in Leaves, call'd by the French, Appeau, is an hammer'd Tin, which the Dutch have painted on one Side by their Varnish, making it of what Colour they pleafe; as yellow, red, black, sky-colour, &c. The Tin in Leaves ought to be uniform, well varnish'd, whole, and as evenly roul'd as it can possibly. The Dutch fend it in Boxes which hold commonly a Groffe, that is twelve Dozen.

Of Tin in Powder.

They reduce Tin into Ponder two Ways, either with beaten Charcoal, or with Chalk, of Lead. They who work upon Tin, instead of grinding it to Powder, burn it, that is, calcine it, and reduce it to a grey Powder, which is that which we and the Pewterers fell under the Name of Putty of Tin, and use it to burnish their Hammers with, and others to polish their Steel Mirrors. They who would make this Putty extreamly white, calcine it 'till it becomes of a most beautiful white Colour. This Tin calcin'd to fuch a Whiteness, is what the Chymists call the Cerufe or Calx of Tin, and others the Spanifo White, or the Jovial Bezoar.

Some Authors affirm that Tin may be reduced into a Calx or Cerufe by the Help of Urine, and that the Urine acts upon Tin, as Vinegar upon Lead. Besides the Uses that the Chymists have for this calcin'd Tin, it is much us'd by the Potters, who make of it their beautiful Varnish, or white Enamel that is upon their Earthen Ware: But it is observable, that this Ceruse of Tin, before it can be us'd by the Potters, must be expos'd to the Weather for a Twelvemonth, that so the Air may make a second Calcination : but Care must be taken that this white Tin have no Impurities amongst it, because they would make fo many Spots upon the

Works.

Of Salt of Tin.

The Salt of Tin is Tin calcin'd, upon which they have pour'd diftill'd Vinegar; and by Means of Fire, and a cool Place, they draw thence a white Sale in little Chrystals, which they use for Tetters mixt with fome Pomatum; it ought to be dry, white, light, and in little Shoots.

Of Flowers of Tin or of Jupiter.

They draw from Tin and Sal Armoniack, by the Help of a subliming Vessel, White Flowers of Tin. Instead of Sal Armoniack others use Salt Peter refin'd. They can make of the Flowers of Tin, by Means of the volatile Spirit of Sal Armoniack, or Oil of Tartar per Deliquium, a Magistery of Tin, which being dulcified, wash'd in Water, and dried, is of a very fine White; fo that being mixt with Pomatum, it is us'd for Paint:



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Uses as the Magistery.

of the Diaphoretick of Tin.

The Diaphoretick Tin, which Mr. Lemery calls the Jovial Diaphoretick, or the Antibectick of Poterius, is made of fine English Tin, and the Regulus of Antimony, with Iron melted together, and afterwards, with Saltpeter and divers Lotions, they draw thence a Powder which is used for Diseases of the Liver, the Small Pox, and malignant Fevers, as the same Author tells

Of Natural Tin-glass.

Whatever Pains I have taken to discover if there were any true Natural Tin-glass, it was impossible for me to find it; and all those with whom I have convers'd, either by Word of Mouth, or Letter, they have all agreed there was no other Tin-glass than that we fell, which is an artificial One, as I shall show presently: However, I shall not be positive that it cannot be found but that it has not come to my Knowledge, and therefore I cannot contradict them who have written, that Tin-glass was a sulphureous Marcafite which is found in the Tin Mines, or that it is a Mineral Body, or half Metal, compos'd of the first Matter of Tin, which is yet imperfect; and that it is found in the Tin Mines, and has a Substance that is very hard, weighty, brittle, and of a gross Grain, fmooth, white and shining. They say like-wise that it is call'd Tin-glass, because when it is beat to Power, there appear in it feveral little Substances smooth as Glass. They call it also Marcasite, by Way of Excellence, because it surpasses all the others in Whiteness and Beauty; they fay it contains an Arfenical Salt, which is dangerous to be taken inwardly.

Of the ordinary Tin-glass.

The Tin-glass, which some call Bismuto, is a Mixture of Tin, Tartar, and Salrpeter, from whence, by the Means of Fire, and a Crucipure, and much whiter than the Tin-glass that

The Flowers of Tin are often put to the same is brought from England: And this Difference, as I have been told, proceeds from this, that the English mix a little Copper with it to give it the reddish Cast which it

> Tin-glass may not improperly be call'd the Ragulus of Tin, fince it is so in Effect: And it is a Thing so probable, nay, so sure, that the Tin-glass we fell is artificial, that the very Figure demonstrates it; for it is easie to fee that it is a Meral melted and cast in a Mortar, warm'd and greas'd, as they do to other Sorts of Regulus; and it is so true, that Tin-glass is artificial, that I have made it myfelf, and am ready to show it to those who won't believe me.

> Tin-glass should be made Choice of, that is in fine Scales, white, and easie to break, and that is to be rejected which is in little Scales, and in a Word, comes near the Figure of Regulus of Antimony, as well as that, which being broke in two, has fome greater and some leffer Scales, and is of a dark Co-

The Use of Tin-glass is for Pewterers, who at present make use of it instead of Regulus of Antimony, or elfe for the Chymifts, who from thence draw Flowers, or a Magi-

stery, or white Precipitate.

To draw the Flowers of Tin-glass they calcine it, and with Sal Armoniack, and a fubliming Veffel, draw thence the Flowers, which when diffolv'd in Water, and precipitated with the Spirit of Sal Armoniack, or Oil of Tartar, may be us'd as the Magistery of Bismuth that I am going to speak of.

Of the Magistery of Common Bismuth.

The Magistery of Bismuth, which some improperly call the Spanish or Pearl White, is Tin-glass diffolv'd in Spirit of Nitre, and precipitated into a white Powder, with a little common Salt, and afterwards well wash'd and dry'd. There are Peruke-Makers that use this Magistery, though preposterously, for the making red Hair look of a light Colour; but this Trick will be easily discover'd, because the Colour will not remain long, especially if the Peruke comes into the Rain.

The Magistery of Bismuth is sometimes ble, they draw a Tin-Glass very white and us'd for the Face, by putting it into Pomatums, or diluted with Lilly or Bean-Flower Water. It is good for the Irch, because, according to Mr. Lemery, it destroys the Acids or Salts that nourith that Distemper: One must take Care not to be over-stockt with this Magistery, because its Colour will from white become yellowith as it grows old, and to become unfit for Sale.

This Magistery should be bought of honest Persons, for there are a great many Cheats in it, and there is no Body can answer for it but he that made it, and therefore you must

not stand upon the Price.

Bismuth is a metallick Matter, Lemery. but it is hard, brittle, shining within, dispos'd into smooth Shoots, bright and shining as little Pieces of Glass. This Matter is drawn from the grofs and impure Tin that is found in the Mines of England. The Workmen mix this Tin with equal Parts of Tartar and Saltpeter; this Mixture they throw by Degrees into Crucibles made red hot in a large Fire: Afterwards, when the Matter is melted, they pour it into Iron Mortars that are greas'd, and there let it stand to cool; then they separate the Regulus that is at the Bottom from the Scoria, and wash it well: It is the Tin-glass that one may properly call the Regulus of Tin. Some People lay, that in the Tin, of which they make Bismuth, there is always a little Mixture of Arsenick. We can make Bismuth in France with ordinary Tin, Saltpeter and Tartar, as I have faid, but it will be brighter than that of England, because the Tin we use is purer than that they use in England.

This Operation is the same as that of Regulus of Antimony, there is the same Detonation and Purification of the gross Sulphur contain'd in the Metal, the loofer Parts of the Sulphur, are elevated with the volatile Parts of the Saltpeter and the Oil of Tartar by the Detonation; afterwards the fix'd Salts of the Saltpeter and the Tartar, which are become Alcalies, diffolve the other Part of the Sulphur which renders the Tin hard and brittle, whereas before it was pliant and malleable; for this Sulphur made the Ductility, and the exact Tyes between all the Parts of the Metal: It may likewise happen, that some small Portion of the Salts of Tartar and Saltpeter may penetrate this Regulus of Tin, and to contribute to the making of it brittle.

cular Lumps, flat below, and round above. and of the same Figure with those of Regulus of Antimony, which was cast in a Mortar whilst it was in Fusion.

Tin-glass is to be made Choice of in fine large Pieces, thining, whose Shoots are large, white, and sparkling; the Pewterers mix it with their Tin, to render it more beautiful and founding.

It is resolutive and drying, being beat to Powder, and made up either into an Oynt-

ment, or a Plaister.

Tin is a Metal foft, malleable, fulphureous, white, thining, a little harder than Lead, very easie to be melted; the Ancients call'd it Plumbum Album White Lead ; it is taken out of the Mines of England, and other Places, and brought to us in Pigs. At

Paris we have three Sorts of it.

The First is that Tin which is without Mixture as it comes from the Mine, and this is the true Tin. The Second is the common Tin, which is an Allay of the Natural Tin of Lead and Brass. The Third is the founding Tin or Pewter, which is a Mixture of Tin, Bismuth, and Copper, and a little Zink; they sometimes put in some Regulus of Antimony, and its fulphureous vomitive Salt is not to be fear'd upon this Occasion, because it is absorb'd and mortified by the great Quantity of other Metals with which it is incorporated.

Natural Tin is not founding, because it is too foft and pliant; for to render any Matter founding, it is requisite that it be com-pos'd of firm stiff Parts, which being struck may tremble and hit one against the other, which Quality is found in the Tin which is hardned and made folid by Bismuth, or by Antimony and Copper. This Tin, when fine and well compos'd, is very much like Silver.

Natural Tin is look'd upon as proper for Diseases of the Liver and the Womb, but I have found but little of this Virtue in my Ex-

perience of it.

Zinck, which has been mention'd above. is a Sort of Marcafite, or a metallick Matter, refembling Bismuth, but less brittle, and in some Measure pliable to the Hammer; it grows in the Mines, and principally in those of Goffelar in Saxony. That is best which is hard, difficult to break, white, with Shoots Bismuth is brought to us in round or orbi- that are large and shining. It is us'd to cleanse and whiten the Tin, as they make use of Lead to purify Gold and Silver. The Workmen mix in their Casting about fix hundred Pounds of Tin, with one Pound of this Mineral.

Zinck is made use of in Solder; they likewise mix it with Copper to give it the Colour of Gold.

Zinck is refolutive and drying, being apply'd outwardly.

9. Of Enamels.

Pomos. ENamels are Vitrifications made of Tin, Sand and Pot-Ashes of A-licant, to which they give diverse Colours, with different Metals, as shall be shown hereafter.

The Enamels come from Venice and Holland, and are in little flat Cakes of different Sizes, and different Marks; some have the Name of Jesus, some have the Figure of a Sun, and the like, from the different Workmen that made 'em.

The first is the White Enamel, which is the Basis of all the others, and is made of Tin calcin'd, or Putty, of Sand and Pot-Ashes, which having underwent a great Fire are reduc'd to a Paste, and being cool'd become hard as a Stone; it is this white Enamel which they use at present for varnishing their Earthen Ware, rather than Tin calcin'd and expos'd to the Air and weather for a Year together, that Operation being too long. White Enamel is us'd by the Enamellers, Goldsmiths, and others: As for the Choice of it, there are none but they that use it that can know the Beauty and Goodness of it; the Whiteness is more or less according to the Goodness of the Tin it is made of.

The fecond Enamel is of a Gridelin approaching to a Slate Colour, which is white Enamel colour'd with Azur.

The Third is of a Sky Colour, which is a white Enamel colour'd with Copper and Cyprus Vitriol.

The Fourth is of a Flesh Colour, which is white Enamel colour'd with Perigueur.

The Fifth is the Yellow which is the White colour'd with Ruft of Iron.

The Sixth is Green, which is White co- this Calx a little in fair Water in an Earthen lour'd with Pin Duft, or other Filings of Brass. Veffel; take it off the Fire and decant off

The Seventh is the Blue, which the Enamellers call the Faux-lapis, the falle Stone; which is the Sky-colour'd Enamel, colour'd with Lapis Lazuli. These Enamels will take different Colours, that is, many Colours are made of one, by putting in more or less of the Metals, or Druggs, before-mention'd.

Enamel is call'd Encaustum,

Enamel is call'd Encauftum, from a Greek Word, fignifying Lemery, Burning, because Enamel is made

by a great Fire: But the Encauftum, or Enamel of the Antients, was quite another Thing
from that which we now use, and is supposed
to be wholly lost. It is a Work almost of
the same Nature with making artificial Gems,
and a Mixture of the same Colours with this
Difference, that in Gems the Mass is transparent, according to the Nature of the Gem,
but in this it is opacous and solid, it being
Tin, which gives it such a Body and Solidity. The Ancients made their checquer'd or
mosaick Work of it; and Goldsiniths now
use it in Colouring and Enamelling of Gold.

As for Enamelling, these Things must be generally observed; That the Pots in which the Enamel is made be glazed with white Glass, and able to endure the Fire: That the Mass and Colours for the Enamel be well mixed and incorporated: That the Enamel, when well mixt, resin'd, and of a good Colour, be taken out of the Fire with a Pair of Goldsmiths Tongs: That Care be taken that no Dirt or Ashes fall in or mix with

The Way of making Enamel is this: Powder, grind, and searce well the Colours, and mix them well first with one another, and then with the Matter for the Enamel, then set them in Pots in the Furnace; when they are all melted and incorporated, cast them into Water, and when dry'd set them into the Furnace again to melt, which they will soon do, and then make Proof; and if the Colour be too high add more of the Matter for Enamel; if too light, add more of the Colour 'till it is exact, then take it out of the Furnace.

The common Matter for all Enamels is thus made: Take fine Lead, thirty Pounds; fine Tin, thirty three Pounds; calcine them together in a Furnace and fearce them; boil this Calx a little in fair Water in an Earthen Veffel: take it off the Fire and decant of

the Remainder, and boil and decant it as before; repeat this as often as the Water carries off any Calx; re-calcine the gross remaining Calx, and then draw off again the more fubrile Parts as before: Then evaporate these Waters which carried off the Calx at a gentle Fire, that the Calx may not be wasted, which will remain at the Bottom much finer than ordinary. Take of this fine Calx, Chrystal Frit made of Tarso, which is a hard and most white Marble, ground and fearfed fine, of each fix Pounds four Ounces; of pure white Salt of Tartar, one Ounce; fearce and mix them well: Put this Mixture into a new Earthen Por, giving it a Fire for ten Hours, then powder it and keep it in a clean dry Place; of this Mixture all Enamels whatfoever are made.

Altho' these Enamels are not made use of in Medicine, yet they have their Virtues, according to the Qualities of the several Druggs they are compos'd of; but they must be very well ground upon a Marble, if you would have them produce any Effect.

The White, the Blue, and the Yellow Enamel, are purely Deficcatives, but the others are Deterfives and Deficcatives.

10. Of Copper.

Opper is a Metal found in several Parts of Europe, but principally in Sweden and Denmark, from whence we have almost all that we fell. Copper is taken out of the Mine in Sand, and in a Stone, almost like that of Iron; and after it is wash'd and purified from the Earth mixt with it, it is cast into Moulds of different Figures: To render it true red Copper, they melt it a second Time, and when it is well refin'd they cast it into Moulds of Sand, where it falls into Cakes or Plates that are not smooth, as we fee them. When they would make this Copper malleable they melt it a third Time, and afterwards form it into Cakes of three Inches thick, and about fifteen Inches Diameter. Of these Cakes put whole or in Quarters into the Fire, they make Plates, and of thele Plates they make Cauldrons by the Means of Hammers that work by a Water-Mill, and

the Water, which will carry off with it the finer Part of the Calx; put fresh Water to the Remainder, and boil and decant it as before; repeat this as often as the Water carries little Use of his Hands.

Copper is a Metal very hard and dry before it is melted; and when it has been often melted it becomes ductile, and almost as malleable as Gold or Silver. Some call Copper, Venus, because that Planet is supposed to shed its Influences upon this Metal. From Copper the Chymists draw several Things very proper for divers Uses, as shall be shewn hereaster.

Æs, five Cuprum, five Venus, that

is, Copper, is a beautiful Metal, Lemey, thining of a reddith Colour, easie to rust, abounding in Vitriol. It is found in several Places of Europe, but principally in Sweden and Denmark; it is taken from the Mine in Lumps, which are superficially wash'd to cleanse it from the Earth that is mix'd with it, and afterwards melted with vehement Fires. 'Tis to be observ'd, this Metal is very difficult to be melted: They purify it from its Scoria and cast it into Moulds. When the same Copper has been twice or thrice melted it becomes more pure and ductile, and you have a red Copper more beautiful than the common.

Copper is a Metal of good Use in Physick, and is said to strengthen the generative Parts in Men and Women, but us'd Crude in the Stomach in Filings, or the like, it is little better than Poison, being hot to the last Degree, and of a caustick Nature, causing Pain in the Stomach and Belly, Vomiting, Fluxes, Ulcers, and Difficulty of Breathing, and if it be calcin'd it is yet worse. The Cure, if any one be hurt with it, is by warm Water mix'd with Oil, Oil alone and Butter, Hogs Lard melted and drank; and if it be got into the Guts, by Clysters of the like Kind, Salt and Oil of Tartar and other Alcalies; Juice of Mints, and such other Remedies as are us'd against Arsenick.

Thin Plates of Copper infus'd all Night in Lime-Water only, or in Lime-Water mix'd with Volatile Salt, or Spirit of Sal Armoniack, make an admirable Collyrium for the Eyes to Wash with against Mists, Clouds, Films, Pearls, Suffusions, &c.

Hammers that work by a Water-Mill, and Copper is made or generated of a purple the Plates are form'd into the Vessels by one Sulphur, a red Salt, and a Citrine Mercury.

11. Of

11. Of Yellow Copper or Brafs.

YEllow Copper is old Copper melted and made vellow by Means of the true Calaminaris Stone ; the greatest Part of the Yellow Copper is made in Germany and Flanders. They beat this Copper and reduce it to the Thinness of Paper, and this is what we call Tinfel. They beat this Tinsel over again, and make it extreamly thin, and afterwards put it into little Books of Paper and call it German Gold. They grind this German Gold to Powder to make Brass for the Painters, which has more or less Colour, according to the several Times that it has pass'd the Fire; they grind this Brass over and over again, 'till it becomes an impalpable Powder, which they fell under the Name of German Gold in Powder: Others put this Powder Gold into Muscle Shells, and call it Shell Gold. That Shell Gold is most esteem'd that comes from Ausburg in Germany, and from thence has the Name of Augusta. As to the Choice of the German Gold, either in the Leaf, the Powder, or the Shell, that which is finest and highest in Colour is esteem'd the best. The German Gold is us'd by Painters, espe- twenty Pounds, to the hundred Weight of cially such as paint in Miniature. The Painters Brass is likewise us'd by them to make their Figures of Plaister, have a Brass or Copper Colour, and for other Uses.

Besides the different Preparations that are made of this Yellow Copper, the Venetians, as I am affur'd, make of it that which the French call Purpurine, which heretofore was made use of upon Coaches. By Means of this Yellow Copper, and the Help of Fire, they make that Sort of Vitrification which the Enamellers call Avanturine; and they pretend the Name was given it because this Operation was found without being thought of, and was made by some Dust of Yellow Copper which fell into a Furnace where Glass was melting. Avanturine is all embellish'd with Streaks of Gold. There is an Avantu- the brittle Brass, as the greatest Part of the rine that is found naturally in feveral Places Authors have written. of France.

on Purpose: The Discovery was made by the Alchymists, who endeavouring to turn Copper into Gold, found how to give it a yellow Colour; the greatest Part comes from Flanders and Germany. The Calaminaris Stone embarresses and extends the acrid Salts of the Metal to that Degree, that Brass does not make the same Impression on Liquors as the red Copper. Befides, as the Calaminaris Stone costs but little, so the Yellow Copper is cheaper than the Natural.

That which we call Tinsel is Yellow Copper beat to a Leaf as thin as Paper, and is us'd by the Lace-Men.

German Gold is Tinsel beat very thin, and kept in little Paper Books for the Use of Painters.

The Painters Brass is the German Gold ground to Powder, which is put into little Shells, and call'd Shell Gold: It is us'd to colour Figures made in Plaister, and by them who paint in Miniature.

The common Brass, which the Workmen call Metal, is an Allay of Copper with Leton, or with Tin; they make divers Sorts, which only differ according to the Quantity of Tin that is mixt with the Copper; the Mixture is from twelve Pounds to five and

They use Brass for Clocks, Mortars, and feveral other Works; the best is that which gives the clearest Sound when you strike it.

12. Of Pompholyx.

THE Pompholyx, call'd White Calamine, Nil, Nibil, Nibili Pomet. Album, or Flowers of Brass, and improperly Ashes of Brass, is that which flicks to the Cover of the Crucible, and the Pincers of the Founders when they melt Tellow Copper; and it is certain that nothing but Yellow Copper gives the true Calamine, and not the cast Copper, nor the Metal, nor

Although this Pompholyx be easie to be Aurichalcum, Yellow Copper, or come at, yet there are not many Druggs Lemery. Leton, is a Mixture of Copper and more unknown, which proceeds from the Calaminaris Stone melted together Negligence or Ignorance of the Apothecaby a very vehement Fire in Furnaces made ries, because they take Tutty and the Pompholyx to be the same Thing, and therefore is of an Iron Colour without, and of a reddish they use the Tutty instead of it.

The best Calamine comes from Holland, than any other, but better collected and preferv'd. That Pompholyx ought to be chosen which is very white, light, friable, clean, it matters not whether French or Dutch fo it be very white.

They who cast Bells may gather a little of it, but because it is not very good it is not worth While to look after it.

Calamine, said, he never sold any but to fome particular Perfons who came for a Dram Weight to take in Fevers, and affur'd me that it was a certain Remedy, and cured all Sorts of Fevers, which is a Thing I have never tried; but I should advise any Person not to use it but with great Precautions, because it is a very violent Remedy.

The Pompholyx, call'd in Latin. Lemery. Nil, Nibili album, Capnites, Bulla cadmica, Calamites is a Flower of Brass, white and light, which is found flicking to the Cover of the Crucible in which found in Copper Mines, and is of no Use they melt Copper with the Lapis Calaminaris that I know of. to make yellow Copper or Letton; it is The Verdet, or Verdigrife, or Rust of Coplikewife sticking upon the Founders Tongs: per, is made of Plates of red Copper, and this Drugg, or because the Workmen let it fall in the Fire when they uncover the Crucibles, we rarely find it amongst the Druggifts, and are therefore oblig'd to substitute Tutty in the Room of it.

The Pomphalyx should be light, very white and crumbling; it is deterfive, deficcative, proper for Wounds; it is not much us'd, but externally for Oyntments. Some give from half a Scruple to two Scruples in Intermitting Fevers; it excites Vomiting very violently.

13' Of the As Ustum.

Pomet. THE Æs uftum, or burnt Copcut into little Plates, and put into a Cruci-

one within, being thining and very brittle.

The As ustum, if it be in a good Condinot that it is in Reality better in Substance tion, should be moderately thick, and of the Colour before-mentioned; and being rub'd one upon another should make a Red like that of Cinnabar, which the Æs ustum or burnt Copper cannot do, unless some Salt be put to it, which is the Secret of the Hollanders, whereby they make it better than they do in France.

The Es usum is of some small Use in The Founder that I have feen who made Phyfick, because it is deterfive; but they who make use of it make it red hot in the Fire nine Times, and quench it as often in Linfeed Oil, and reducing it to Powder, use it for eating of dead Flesh, and they call this Powder of the As refum to prepar'd, Crocus, or Saffron of Copper.

14. Of Verdigrise,

HE natural Verdigrise is a greenish Marcasite like the Dross of Iron, and is

But either through Negligence in Collecting the Skins of Grapes after Preffing foak'd in good Wine, and put together in a large Barthen Pot, Stratum Super Stratum, that is to fay, they put an Handful of those Skins at the Bottom of the Pot, and then a Layer of Copper Plates, and fo on 'till the Pot be full: then they put it in a Cellar, and after some Days Time they take out these Copper Plates, which are cover'd with Ruft, by the Latins call'd Erugo; and this Rust being scrap'd off, the Plates are put in again after the same Manner as before, and this must be repeated 'till the Copper is consum'd, or render'd so thin, that it may be mix'd with the Verdigrife, as it often happens: The most Part of the Authors who have treated of Verdigrife, tell us, that it is made with Vinegar, which is not true, for the best Wine is not too good per, is made of red Copper for it; and this is fo true, that there is scarce any but Languedoc Wine that will make ble with Sulphur, and a little common Salt, good Verdigrife; it is in and about Montpel-Stratum Super Stratum, and put into a great lier that the greatest Part of the Verdigrife Charcoal Fire; and when the Sulphur is us'd in France and other Countries is made, burnt away, and the Copper taken out of it, and it is a Commodity very difficult to make,

and to hit right, altho' it feems as if nothing colour Paper green, make use of Verdigrife were more easie; for if never so little happens to be amiss it grows greafy and black, and good for nothing, and will never come to a true Confiftency. Had not the Receit been stolen from me, I would have told you how they do it at Montpellier, which I hope to recover and present the Reader with in the Second Edition.

There are some Authors who say, that one may make Verdigrise by putting Plates of Copper in a Crucible, with Salt, Sulphur, and Tartar, which being calcin'd and cool'd, the Plates are converted into a very good Verdigrife; but these Operations, suppoling them to be true, are at present of no Use, because all the Verdigrise we sell is made in the fore-mentioned Manner.

We have two Sorts of Verdigrife from Montpellier, the one in Powder, the other in Cake: If it is good it must be dry, of a beautiful deep Green, and with the fewest white Spots that is possible. Verdigrife is a Merchandise that loses most of any Grocery Ware, and this makes them who deal in it mix it with feveral Druggs, that there is no Necessity of naming, and render it so moist that the Merchant loses much by the Wast of it, besides the Skin which covers it, for which they pay as much as if it were Verdigrife: Therefore they who use it should confider its Goodness, and not stand upon the Price; for I can affirm, that there is no Cake of Verdigrife, such as they fend from Montpellier, that weighs twenty-five Pounds, but after it is dry has loft a third Part, fo that the Verdigrife that cost twenty Pence when foft, will be worth near eight and twenty Pence when hardned.

Verdigrise is a Drugg the most demanded of any we have, and the Quantity of it that fick, but by Dyers, Skinners, Hatters, Farthat Verdigrise alone, ground with Oil, cannot be used; so that it is absolutely necessary for Painting, to add white Lead to it, for otherwise instead of being green it would be black. As for the Properties of Verdigrife, one of them is Eating of dead Flesh; the Apothecaries use it in some Oyntments and Plaisters, as the Ægyptiac, the Apostolorum, the Divine Plaister, and others. They who

and white Tartar to give it that Colour.

The Apothecaries and others, who have Occasion for Verdigrife in the afore-mentioned Compositions, and others, instead of the Powder, may dissolve it in Vinegar, and strain through a fine Sieve, and so avoid, in Reducing it to Powder, the Effects of the ill Quality of the flying Duft of Verdigrife.

Verdigrise, in Latin, Ærugo, or Viri-de Æris, is a Rust of Copper penetrated and rarified by the acid tarrarous Salt of Wine: To make it, they stratify Plates of Copper with the Grape Skins, when the Must is taken from them, and leave them in that Maceration 'till they are in Part converted into a bluish green Dust, which they separate with Knives, and continue the Operation as before, 'till the Whole be turn'd into Verdigrife : This is commonly the Work of the Women in Languedoc, Provence, and Italy, where the Refuse of the Grapes have the greater Force to penetrate the Copper, and work upon it with its Salt.

It deterges powerfully, it confumes proud Flesh, it attenuates and resolves, and is us'd only in external Medicines; it is tharp and digefting, and cicatrizes Ulcers, being mixt with Oil and Wax, and applied; it likewife cleanses them from their Filth and Putrifaction, although they were the most stubborn, and had refifted all other Remedies.

It is of good Use in the Gout, being diffolv'd in fair Water, and used warm to the

It cures Difeafes of the Eyes, and effectually takes off Pearls and Films. But before you use it for the Eyes, or for Wounds or Ulcers, you must purify it after this Manner: Powder it, and put upon it Spirit of Vinegar fix or feven Times its Weight, diis us'd is almost incredible, not only in Phy- gest 'till the Vinegar is tinged very green, which decant and caft away the Fæces, then riers and Painters; but that is remarkable, evaporate the Vinegar in a Brais Veffel, and fo you will have a glorious Verdigrife at Bottom, of which one Ounce is worth ten Ounces of the former.

> Take of this fine Verdigrise, a Dram; Spirit of Sal Armoniac, half an Ounce; Alcool of Wine camphorated, two Ounces; mix them for a Collyrium to wash the Eyes. Take the White of an Egg beaten well with Spring Water, four Ounces, and add to it

Saccharum Saturni, ten Grains; white Vitiol, fix Grains; and so many Drops of the Collyrium as may make it of an Azure Colour, with this wash the Eyes two, three, or four Times a-Day.

This fine prepar'd Verdigrise being made into an Oyntment with Honey, Juices of Wound Herbs, Vinegar, and abstersive Sulphur of Vitriol is applicable to weeping Wounds, Ulcers in the Joynts, &c.

15. Of Verdigrise Chrystalliz'd.

Pomet: THE Chrystalliz'd Verdigrise, or Chrystals of Verdigrise; or as it is call'd by Merchants and Painters, Calcin'd or Distill'd Verdigrise, is Verdigrise dissolv'd in distill'd Vinegar, and afterwards filtred, evaporated, and chrystalliz'd in a Cellar: These Chrystals are of some small Use in Physick to consume dead Flesh: They are likewise us'd by Painters to make a green Colour, especially in Miniature.

All the Chrystals of Verdigrise that we sell in Paris come from Holland or Lions, and are not unlike Sugar Candy, except in Colour, especially to that which is on Sticks, and if good these Chrystals must be beautiful, clean, and transparent, very dry, and as free from Sticks as possible. Here it may be observed, that the Verdet which the Apothecaries make is reduced to Chrystals by the Means of a Cellar, whereas that which comes to us is made after the Manner of Sugar Candy, as I have been informed.

I cannot tell what has induc'd the Merchants to call these Chrystals Distill'd or Calcin'd Verdigrise, seeing it is neither distill'd nor calcin'd, but made after the sore-mention'd Manner.

They likewise make Chrystals of Verdigrife by dissolving Copper granulated in the Spirit of Nitre, and afterwards evaporating to a Scum or Pellicle, and setting it in a Cellar to christallize.

If you would reduce these Chrystals to a Liquor after having dried them, you must carry them back to the Cellar to resolve them into Water, and this Liquor is call'd by the Apothecaries or Chymists, the Liquor of Copper or Venus, and the Chrystals the Vittiol of Venus or Copper.

16. Of the Mountain or Sea Verdigrise.

HE Mountain or Hungarian Verdigrise is a Sort of greenish Powder in Grains, like Sand, which is found in the Mountains of Kernausen in Hungary, and comes from Presbourg to Poland: It is found likewise in the Mountains of Moravia; and some will have it, that what the Ancients call Flowers of Brass was made by throwing Water, or rather Wine, upon Rose Copper, whilst red, that is to say, as it comes out of the Furnace; and that this Flower, or Mountain Verdigrife, is gather'd and found flicking to other Plates of cold Copper, which they place over them, in small Grains like Sand, and that this is made by Vapours which arife when they throw Water or Wine upon the hot Copper; and that it is that which makes what we call Rose Copper to be so unsmooth, and to be full of little Figures. Others have affur'd me, that this same Green was Plates of Copper diffolv'd in Wine, which was made almost after the same Manner as Verdigrise; but as I know no more of it, I shall only say, that such is to be made Choice of as is dry, of a high Colour, well granulated, that is to fay, like Sand, which is the Mark of Natural Mountain Verdigrise, and makes the Difference between that and the Artificial, which some make by Pulverizing Verdigrife, and putting a little white Lead amongst it.

The Verdigrife of the Mountain is of no other Use but in Painting, principally for making a Grass Green, and therefore it is that most of the green Painting we see in Gardens is done therewith.

As it is a dear Commodity, and comes from several Parts, so there are different Sorts of it, and different Prices, therefore they who use it should regard the Qualities of it rather than the Cheapness.

17. Of Mix'd and Bell-Metal.

BEll-Metal, according to Monsieur Furetiere is an Allay of Metals, the Principal of which is Copper melted with some Part of Tin, or of Brass; some for Cheapnels put in Lead, because one cannot melt Copper in a Reverberating Furnace, but that it shall remainfull of Holes like a Spunge. There is likewise another Compound of Copper which is call'd Mix'd Metal, which in Effect is nothing else but Bell-Metal, and they give it this Name from the greater or leffer Quantity of Tin that is mix'd in it, which is from twelve to five and twenty in the Hundred: The Dreggs or Scoria of mix'd Metal is call'd Diphryges, and is us'd in Physick. The Flower thereof is made by throwing fair Water upon melted Brass; when it runs they place Iron Plates over the Fume of it, and that which congeals fettles into little Grains like Millet Seed, which are bright, and of a reddish Colour, and this is call'd Flowers of Brass. The Scales of Brass is what falls from the Brass when they hammer it and work ir.

Diphryges is of a mix'd Faculty, meanly aftringent, sharp, and of excellent Use a-gainst spreading Ulcers; it cleanses, dries, and confumes Excrescences, and being made into a Collyrium is good for dropping Eyes, and fuch like Diseases of the same. The best is that which has the Taste of Brass, or the Rust of it, being aftringent, and very much drying the Tongue.

As for the mix'd, or Bell-Metal itself, we use it for making Figures, Bells, Mortars, and other Utenfils: The best Metal is that which is whitest and founds like Silver. I should not have been so long upon this Head, if it had not been for the Sake of Tutty, which is describ'd under the following Head.

18. Of Tutty.

Tuety, or the Spodium of the Greeks, is a metallick Species in Scales or Drops of different Size and Thickness, solid within, and rough without, with a Sort of Excrefcences, like Pins Heads, for which Reason the Ancients call'd it Spodium, or Tutty in the Cluster. The Tutty which we fell in France comes from Germany and other Places, got from the yellow Copper or Brass, and sold in the Shops for ir. that it is made at the same Time as the Pom-

pholyx; for this is not true, feeing the Tutty is found sticking to Rolls of Earth, which are hung up and plac'd on Purpole on the Top of the Furnaces where the Founders cast their mix'd and Bell-Metal to retain the Fume or Vapour, like the Smoke in Chimnies, and by the Means of these Rolls the Vapour is retain'd and reduc'd into a Shell of the same Figure as these Rollers, which we have feen, and the Thing is so certain, that if one will but look amongst the Tutty, you will find flicking to it the Earth, and therefore it is not made by Sticking to the Bottom or Sides of the Furnace; and that which makes this more than a Supposition is, because all the Tutty we have is always in Form of a Gutter, and half round.

Tutty ought to be in bright Scales, thick, granulated, of a fine Moule Colour without, and a pale Yellow within, hard to break, and as little mix'd with Foulness as possibly can be. Tutty has no other Use, that I know of, but in Medicine, and that not 'till 'tis well beaten : Others burn it, and after wash it and make it up into Troches which they use for Diseases of the Eyes, Mixing it with fresh Butter, or Diluting it with Rose or Plantin Water. Tutty, well prepar'd and incorporated with fresh Butter, is an excellent and fure Remedy for the Piles : That is most esteem'd which comes from Orleans. either because it is better prepar'd, or because it has all along carried the Vogue with it.

Tutty is brought from Sweden, Cyprus, Greece, Turkey and Egypt, Lemery. but the Cyprian is the best: It was heretofore brought from Alexandria, and therefore Authors, in their Descriptions, call it Tutty of Alexandria. The Difference between the Pompholyx and the Tutty, or the Grey Spodium, is this; the Pompholyx is more white and light, like volatile Meal; the latter is nearer the Colour of Brass, heavier, thicker, and fattish, which with Vinegar yields a Smell like Brass. Tutty, by some, is accounted the better Medicine, and more powerful for the Uses intended. Cadmia calwhere they make mix'd or Bell-Metal. It cin'd by a violent Fire and brought to Affies, is wrong to think what most Authors, both is fold for Tutty, but this is a Cheat, and New and Old, have afferted, that Tutty is fometimes for Want of it, burnt Ivory is

It is deterfive, dificcative, proper for Difeafes of the Eyes, for drying and cicatrifing of Wounds, and for the Piles; it is only us'd externally after being ground to a very fine Powder.

19. Of Chalcitis.

Pomee. C'Halcitis, or Colcorbar, is a natural Vitriol made red by subterraneous Fires in the Entrails of the Earth, which is the Reason why Chalcite is a Stone of a reddish Colour. I shall not endeavour to write what the Ancients have faid touching the different Changes that happen to the Chalcitis, nor to explain what is Mify, what Melanteria, and what Sory, for I cannot tell what these three last are, or where they may be found. Matchiolus upon Dioscorides, Page 729, says, that Mily is hard and like Gold, and glifters like a Star, and is found in Cyprus. The Melan-teria is found of two Sorts; one is found growing like Salt at the Entrance of Copper Mines, the other is found congeal'd at the Top of the Mines: He says that the best Melanteria is that which is smooth, clean, firm, and of the Colour of Sulphur, and that turns black as foon as a Drop of Water is put upon it. As for Sory, he lays it is black, full of Holes, and aftringent to the Tafte, of a very ill Smell, and that a great deal is found in Ægypt, Libya, Spain, and Cyprus. Pliny, on the other Hand, fays, That Chalcitis, Mify, Melanteria, and Sory, are the fame Thing, that the one changes to the other in Process of Time, that is to say, Chalcitis becomes Misy, Misy turns to Melanteria, and Melanteria to Sory, which I could never find, though I have had a Lump of it above eighteen Years, in which I could never fee any Alteration, as to its Nature or Colour, tho' I have been careful to observe it. It is true, there is a Chalcieis that has different Colours in the same Piece, but as I have found no Alteration in it by keeping all the Time I had it, I am apt to believe it was so natu-

Pieces, of a brownish Red, of the Taste of, mixt with Honey, it helps callous and rough Virriol, which being put into a little Water, Eybrows, Fistulas, Leproly, and other cutadisfolve easily, and being broke are of a neous Diseases.

Copper Colour, but something more shining.

The Chalcitis, or Natural Colcothar, is brought from different Places, as from Sweden and Germany; it is a Drugg very little us'd in Medicine, because very rare; and if it were not an Ingredient in Venice-Treacle there would be scarce any Demand for it, The Dearnels and Scarcity of this Stone have given Occasion to many Counterfeits, and to feek for Succedaneums, as the Colcothar or Vitriol made red, the white Vitriol calcin'd, the Lapis Calaminaris, because of its Colour, and feveral other Things, so that Persons who want the true Chalcitis must apply to honest People, and not stick at a Price.

Chalcite is a Vitriol naturally calcin'd by the Subterranean Fires, Lemery. and render'd into Pieces of Stone, pretty big, red, and fometimes ftreak'd within with yellow Veins something sparkling; it is found in Copper Mines, and within Side participates of that Metal; it is melted by Fire; it is brought sometimes from Germany and Sweden, but is generally very scarce in

That is most preferable that is in pretty large Pieces, of a brownish Red without, which being broke, is of a Copper Colour, fomething shining, of the Taste of Vitriol, and easily dissolv'd in Water.

The Chalcitis is hor, dry, deterfive, and very aftringent; it ftops Bleeding at the Nofe; it is us'd internally and externally; and in the Composition of Venice-Treacle; but not being easily got they commonly sub-stitute an artificial Colcothar, which is a green Vitriol calcin'd to a Redness in the Room of it : It is of thinner Parts than Sory, but thicker than Mify. In a Collyrium it cleanses, dries, and heals the Eyes. The fame Collyrium, if weakned with Role Water, prevails against Sr. Anthony's Fire, and all Sorts of creeping Sores, whether of Skin or Flesh. With Juice of Leeks it is said to stop a Flux of Blond at the Nostrils, as also in Wounds, and of the hemorrhoidal Veins; it is, good against Vices in the Gums, and earing Ulcers of the Tonfils, the Powder of it be-Chalcitis is to be chosen in prettty large ing laid upon the Part affected: Burnt and

They

fay, it is a Natural Mineral Excrement al- fore less piercing. most like Gold, which glisters when it is broken: It is commonly bred upon the Chalcitis, and is only the Recrement of that Mineral, being bred thereon, as Verdigrile is upon Brass: It is very aftringent, burning, and of much thinner Parts than Chalcitis, but is of the same Virtue with it, as being a Chrystallization drawn by the it is good against malignant Ulcers or Fiftube made by Infufing the Powder. That Water is likewise good to wash malignant Sores, and running Ulcers.

The Melanteria of Dioscorides, according to Matthielus, is a Mineral Vitriolick Mat-Mine in a firm, smooth, clean Stone, of the grows black upon being melted with a little Water: He says the Melanteria is found in Cilicia, and feveral other Countries; he attributes a caustick Virtue to it. This Drugg is unknown to us, and many believe, with Pling, that it is nothing else but the Chalcitis, which has taken several Shapes and Colours in the Mine: However it is, we substitute the Natural Chalcitis in the Stead of it.

Sory is a stony Mineral, vitriolick, gross, impure, porous, or naturally pierc'd with many Holes, fattish, black, of an ill Smell, of Cyprus, Spain, Libya and Egypt: And as Matthiolus says, it is found in the Dukedom of Brunfwick. Many have thought it to has lain long in the Mine; but there is more Probability that it was a Mixture of Vitriol and Bitumen calcin'd by lubterranean Fires. There has been none of it found for many Ages, at least it has been neglected, and we substitute the Chalcitis, or natural red Vitriol in the Room of it; it was drying, burning,

They who diffinguish Mify from Chalcitis but of thicker and groffer Parts, and there-

20. Of the Roman Vitriol.

Roman Vitriol, as well as all other Vitriols, or Sorts of Copperas, is Pomet. bred from it, but in a different Degree. Help of Water from a Sort of Marcasite. That which comes from Egypt is accounted found in Copper Mines, to which the Anthe best, and is more corrosive than Chalcitis cients have given the Name of Pyrites, or or Sory, being calcin'd and burn'd or wash'd, Fire-Stone. This Stone is found under our Clay-Pits at Paffy, within a League of Paris. las. With Lime Water, in which a little upon which several Operations have been Sal Armoniack is dissolved, a Collyrium may perform'd; and as I have been affur'd, it was with this that a certain Abbot made his universal Medicine. The Pyrites, from whence they extract the Roman Vitriol, is found in feveral Parts of Italy: To reduce this Marcastre to Vitriol, they expose it for ter, of which there are two Kinds. One is some Time to the Weather, that so the Air found like a Salt upon the Entrance of Cop- may penetrate into it, and that it may calcine per Mines, from whence they gather it. The and turn into a Chalk of a greenish Colour. Second is found at the Top of the same When the Pyrites is fit for Working, they throw it into Water, and afterwards by the Colour of Sulphur. Diofcorides prefers this Help of Fire and wooden Tubs, reduce it to latter Sort to the first, and chiefly when it Chrystals, such as we receive from Italy. In a Word, all the Vitriols, or Copperas's, are made as they make Allum in England, or Saltpeter with us. All the Difference that there is between the feveral Copperas's proceeds from the different Places where the Mineral is found; and as it participates more or less of the Copper or the Iron. They which have most of the Copper are those of Cyprus or Germany: They which have most Iron are the Roman Vitriol, and that from Pifa and England. When the first are rub'd upon the Edge of a Knife, wer with Spittle, and a friptick Tafte. It is found in the Mines they make it look red: On the contrary the Roman Vitriol, and the Copperas of Pifa and England, don't change the Colour upon the Edge of the Knife, and this has given some have been a Chalcitis grown old, and that People, that shall be nameless, an Opportunity of Counterfeiting Roman Vitriol by English Copperas, which they do, by washing that Copperas never fo little, and exposing it to the Air for fome Days, 'till from a green, it turns of a greyish Colour, which is easie to be found out, because the true Roman Vitriol is in thick long Pieces, of a Grafs Green, and aftringent, not much differing from Mily, very difficult to melt, and being broke is trant-

Word for Glass being Vitrum, some pretend that it takes its Name; others will have it, that the Name of Vitriol is mysterious, and that every Letter stands for a Word; so that it is as much as to fay, Visitando Interiora Terra, Rectificando Invenies Occultum Lapi-

dem Veram Medicinam.

The true Roman Vitriol is much fought for at prefent, both because of its Scarcity, as well as because 'cis proper for the making a white Powder, which they call the Sympathetick Powder, which is only Roman Vitriol expos'd to the Air and the great Heat, during the Dog-days for a confiderable Time; and when it becomes extreamly white by the Calcination which the Sun has given it, is made use of for Wounds and Stoppage of Blond; some mix Gum Tragacanth with it. They bring us likewise from Italy another Vitriol, which comes near the Colour of the Roman, only it is greener, and in leffer Pieces, and is what we call Vitriol or Copperas of Pifa, and is made use of by the Dyers.

The third Vitriol, which is of a Martial Nature, and as it is more common, is also cheaper than the English Copperas, is much us'd by Dyers, Hatters, and others, that have Occasion for a black Colour; and they pretend that That which makes the Copperas dye Black, is because it participates of the Iron; others will have it, because they who make it throw old Iron into the Liquor.

The necessary Qualities in right English Copperas is, that it be dry, of a clear transparent Green, with as few small and whitish Pieces as possible.

Of the Cyprian or Hungarian Vitriol.

Notwithstanding all the Pains I have taken to discover what the Vitriol of Cyprus, which we fell, might be, I have not been able to learn it. The Ancients, and some Moderns, have pretended, that this Vitriol is a Chrystallization made of a blue Water which is found in subterraneous Places in Cyprus, from whence it has its Name: And a Person of Worth and Honesty has affirm'd to me, that the Vitriol of Cyprus was made of Rose Copserwards Chrystalliz'd. Another has told has not so much Efficacy.

transparent as Glass, from whence, the Latin me, that it was made of German Copperas : but not knowing which Part to take amongst these three, I shall only say, that two Sorts of Vitriol are brought from Cyprus, one in large Pieces which we call the Companys Vitriol, because the Merchants Trading to the Indies bring it to us; the other cut into Bits on purpose, with Points like Diamonds, to make it look more beautiful, and promote the Sale.

> The Vitriol of Cyprus or Hungary is to be chose of a fine sky-colour'd Blue, especially when broken; for being a Commodity eafily penetrated by the Air, it will come to be of a whitish grey on the Outside, which does not at all diminish its Goodness, but renders it not so saleable to the Eye; and a Sign that it is the Superficies only that is damag'd is this, that by putting it to the Tongue, upon the Approach of the least Moisture, it will come to its Colour. Some Persons have affur'd me, that so piercing a Spirit is drawn from the Vitriol of Cyprus, that it would break any Glass Vessel of whatfoever Thickness, and yet tho' so piercing, being mix'd with an equal Quantity of Water, was a Sovereign Remedy for Confolidating all green Wounds, and Stopping of Bloud, which is probable enough, because we have no Druggs more aftringent, or that ftop Blood better than the Vitriol of Cyprus. This Vitriol is much us'd by several Artists. Some Persons carry it about them for Blotches in their Face: This, as well as the Roman, is us'd for the Sympathetick Powder.

Of German Copperas.

The German Copperas is a Vitriol of a bluish Green, clear and transparent, which is made and chrystalliz'd at Goffelar in Saxony, whence it is that the German Copperas is call'd Goffelar, or Saxon Vitriol. The largest Pieces, cleareft, and most transparent, are to be chosen, and the drieft that can be.

The German Copperas is of much Use in Medicine, as being that from whence the Chymists draw most of their Preparations, as shall be shown hereafter: It is likewife us'd by the Dyers. This Copperas may be us'd for Stopping Bloud in Case of Necelper diffolv'd in the Spirit of Viriol, and af- fity, instead of the Vitriol of Cyprus, but it



of White Copperas.

The white Vitriol which we fetch from Germany, is the Copperas of Gosselar, beforemention'd, calcin'd to that Whiteness, and afterwards put into Water and filtred, and reduc'd to Sak; and when it begins to coafifty Pound Weight, of the Shape we fee them in. It is therefore an Abuse put upon us by a modern Author, who would make us believe that the White Copperas is that which is found near Fountains, and is the most purified from any metallick Substance. Sugar that can be; Care must be taken to keep it from the Air, for when that gets to it, it becomes yellow and unfaleable.

because some People put it into Rose or Plantain Water, with Orrice and Succotrine the Spirit, but must be us'd in lesser Quanti-Aloes, to cure the Eyes: Painters use it when ties, because it has greater Strength in it. calcin'd to put in their Colours that they may dry; but Farriers have the most Oc-

calion for it. By Help of the Spirit of Vitriol they draw Chrystals from this White Copperas, which to afford at a cheaper Rate: and this Spirit are those we call Gilla Vitrioli, or Emetick of Vitriol, made with Aqua fortis, is call'd, Vitriol, because being taken from twelve the Philosophick Spirit of Vitriol, of which Grains to a Dram in Broth, or other Liquor, you must carefully beware. it gives an easy Vomit.

Of the Spirit and Oil of Vitriol.

They draw from the German or English

Liquor which comes immediately after the Flegm, which if right ought to be as clear as Water, of a Tafte fomething fharp, and being put upon white Paper, and held to the Fire, becomes black. They use this Spirit of Vitriol very commonly in Phylick for Cooling, and upon other Occasions. The Spirit of Vitriol, well cleans'd of its Flegm. gulate, the Germans make Lumps of forty or is what we improperly call Oil of Virriel. and ought to be of a dark Colour, of fo piercing and caustick a Taste, that it is imposfible to endure it upon the Tongue. They are in the wrong who think that acid Spirits need not be stopt, because they pretend that they don't evaporate, which is true; but this This Copperas ought to be pretty hard, white, Spirit being throughly devested of its Flegm, and of the nearest Resemblance to fine white if you leave it in a Bottle unstop'd, the Air gets into it, increases its Bulk and Weight, and at last it becomes as insipid as Water.

The Oil of Vitriol is very corrofive, and This Copperas is of some Use in Physick, therefore made use of to dissolve Metals: It is taken inwardly for the same Diftempers as Spirit of Vitriol should be bought of such Persons as one can trust, because there are some who make Spirit of Vitriol, by Mixing Aqua fortis with Water, which they are able

> As to the Water and Flegm of Vitriol, that I mention'd before, it is of no Use, because it is infipid, yet some People wash their Eyes with it.

Monfieur Lemery fays, that you must use Vitriol, calcin'd to a Whiteness, by Means of English Vitriol, or Copperas, for the fore-Fire and a Retort, a Flegm, a Spirit, and an mention'd Operations, because it is not of Oil; but because the Operation is long and such Acrimony as the German: However all troublesome, I should not advise any one to they who work with Vitriol make use of the concern themselves with it: Besides the German; but I leave the Decision of this Spirit and Oil of Vitriol, which we Apothe-Point to them that have more Experience in caries and Chymists make, are not so good, it than I have. That which remains in the nor can be afforded so cheap as those brought Retort, after Distillation, is a reddish Earth from England and Holland: This must be which the Chymists call, the Capus Mortuum taken Notice of, that what we call Oil of Vi- of Vitriol, Artificial Colcothar, or Rubified eriol, is a Spirit well rectified from its Phlegm; Vitriol. One may draw a Salt out of it by but it must not be expected in this as in others, the Means of Water and Fire, which is that the Oil shold be fat and swim upon the what they call Salt of Vitriol, and is made Water, for the Oil of Vitriol is not fuch, but use of as Gilla Vitrioli, only not to be taken eafily intermixes with watry Liquors. in fuch large Doles. The Salt of Vitriol That which is call'd spirit of Vitriol is the ought to be white, and faithfully prepared; Vol. II.

for it is usual to sell the Gilla Vitrioli, or Brimstone interspers'd, a Vitriol is produc'd Salt of Vitriol.

The Colcothar has some little Use in Medicine, foralmuch as some People employ it instead of Chalcitis, both because it is cheaper, and also has the same Qualities. Some Apothecaries put Colcothar into their Diapalma, as is a Mineral Vitriolick Salt found in the well to make it red, as to humour the Surgeons, who are pleas'd that the Publick don't know that it is nothing but Diapalma; and to disguise it the better, they call the Plaister by the Name of Diachalciteos.

They make with the Colcothar, Burnt Alum, Sugar Candy, Urine and Rofe-Water, a very aftringent Water, and proper for Stopping of Blood, as Monsieur Lemery has observ'd, to whom the Reader may have Recourse. There is another Stiptick Water of Monfieur Faveur describ'd by Monfieur

Charas.

improperly call'd Calcanthum, because the Word Calcanthum fignifies nothing else but Vitriol.

Lemery. tion, by Evaporation and Chrystallization, from a Sort of Marcasice, call'd Pyrites or Fire-Stone, of which I shall speak in

there are some Sorts taken about Paris.

This Fosfil or Mineral consists of an acid phrasti. Salt, Earth, Iron and Copper. The diftinis made, and by placing Plates of Iron or Tertian Agues, Copper in a Crucible, with some common

Green Vitriol calcin'd to a Whiteness for the by the Help of Fire: Wherefore it is very probable that the Vitriol of Mars or Iron, and the Vitriol of Venus or Copper, are bred in the Bowels of the Earth, from the acid Juices or Liquors, corroding the Copper.

White Vitrial, vulgarly call'd Eye-Capperas_ Earth, near unto Fountains, and the most of all depurated from a metallick Mixture; or it is made by Diffolving the Roman or dark green Vitriol in Water, and then boiling it till all the Water is evaporated, and the Vitriol turn'd into large white Lumps like Sugar, which being expos'd to the Air, turn outwardly of a reddish or yellowish Colour. It is the least acrid of any of the Vitriols.

It is to be chosen in large white Lumps, pure and clean, resembling Loaf-Sugar, of a sweet Taste, astringent, accompanied with an Acrimony; it contains Abundance of It is to be observ'd, that the Colcothar is Flegm and acid Salt, a little Sulphur like common Sulphur, and some Earth.

The white natural Vitriol needs no Manner of Preparation, being of great Use and Vitriol is a Mineral Salt drawn Force in a Loofness and Bloody Flux, and as Saltpeter by Lotion, by Filtra- frequently us'd for that Purpose in Camps and Hospitals. The other white Vitriol is thus purified: Take White Vitriol, what Quantity you please, dissolve it in Flegm of its Time; it is found in the Mines in several Vitriol, or in Rain Water, then filtrate, eva-Parts of Europe, as in Italy and Germany; porate, and fer it to chrystallize; this is that which is call'd Gilla Vitrioli, and Gilla Theo-

It heats, deficcates, aftringes, or conftiguithing Mark of Vitriol confifts in the black pates, yet excites Vomiting; it powerfully Colour, which it communicates to an Infu- extricates tough Flegm out of the Ventricle, fion of Galls. That 'tis an acid Salt appears by its emetick Force, yet may be given to plainly, not only by its being chymically ana- Children: It kills Worms, and strengthens the liz'd, (for a great many cavil, that an acid Stomach and Brain, and is good against Con-Spirit may be produc'd by the Violence and vulfions and Epilepsies; it cleanses and Force of the Fire) but also from the bright strengthens the Womb, and is us'd in Injered Colour that a Solution of Vitriol imparts Clions against a Gonorrhea, and the Whites to blue Paper. The Earth of Vitriol pre- in Women, a Dram thereof being mix'd cipitates or falls to the Bottom of the Cruci- with a Pint of Spring Water, and so us'd ble, when the Solution of fix'd Nitre is with a Syringe. Inwardly, as a Vomit, it pour'd upon a Solution of Vitriol: As to Iron is an excellent Remedy against Fevers: Dose and Copper, it is not to be doubted that they from twelve Grains to a Dram in Broth, or are contain'd in Vitriol; for by pouring the other Liquor: It cleanses the Stomach from Spirit or Salt of Vitriol, upon the Filings of all Impurites, eafes the Headach, stops Iron, an excellent Vitriol of Mars or Iron Fluxes, and is good against Quotidian and

There.

There are two Things observable, First, Additions of Copper, and is brought to us That in making this Gilla Vitrioli all the Liquor may be evaporated away without any Chrystallization, so the Gilla will remain at the Bottom in a white Powder. Next, That after taking this Vomit the Sick sometimes voids by Stool a black Matter, like Ink, because it often happens that some Part of the Gilla descending into the Guts meets with a Styptick Matter, almost of the same Nature as Galls, which causes that Blackness.

The Sympathetick Powder is White Vitriol open'd and prepar'd; it ought to be plac'd upon a Stone to as to receive the Beams of the Sun reflexively, from a large Burning Glass, by which it will be sooner done than by any Furnace whatfoever, and the calcin'd Powder is to be kept in a Glass close stopt for Use: It is us'd in the magnerick Cure of Wounds; diffolv'd in Water, and us'd outwardly, it dries, binds, and heats much, and has the Virtue of the Gilla.

The Aqua Styptica Composita, or the Com-pound Styptick Water, is made of this Vitriol. Take purified white Vitriol, Roch Alum, of each an Ounce; Saccharum Saturni, half an Ounce; Spring Water, two Quarts; mix and diffolve over a gentle Heat, digeft close stopt, ten Days; decant the Clear, filtrate and keep it for Use. This is an easy Preparation, and of few and simple Ingredients, but of no mean Use. It is a good Injection (Universals being first premis'd) against the Whites in Women, and the Gonorrhea in Men, though of never fo long standing, and possibly may do more in two, three, or four Days Time, being injected, than all other Medicines could do in as many Years: Ic stops Bleeding in any Part, heals Ulcers, and infallibly cures all Sorts of Tetters, Ringworms, Scabs, Scurf, Morphew, and invererate Herpes in any Part of the Body, if daily wath'd therewith, two or three Times a Day, for half an Hour at a Time, and as hot as can be endured; injected as a Clyster, it kills the Worms call'd Afcarides.

There are feveral Sorts of Green Vitriol, as the German or Hungarian Vitriol, the English Vitriol, and the Roman Vitriol.

As for the Green or Hungarion Vitriol, the Native is found in Mines like Copper; the Factitious is made of the Marcasile, call'd Pyrites, or the Fire-Scone, with or without

from Dantzick, out of Germany, Hungary, &c. The best is the greenish, and of that, that which participates more of Copper than of Iron, which rub'd on a Knife colours it red; that which is subceruleous, pale, aquose, and moistens the Hands, is not so good.

The Factitious is that which is made either of Water coming from vitriolick Springs evaporated and chrystalliz'd, or else made from vitriolick Marcafites, the Pyrites, or Fire Stone, (with Additions of Copper) which is found in Grounds abounding with metallick Seeds, and inclin'd naturally to the Generation of Sulphur; it is known by burning, for it yields a sulphureous Fume, not unlike Brimstone: This powder'd and expos'd to the Air, yields on its Superficies, a little white and sharp Salt melting in the Mouth, at first fweetish, then ending in a vitriolick Harshness. From this Powder Vitriol is thus extracted; it is diffolv'd in Rain Water, by boiling in a flow Heat, then filtrated, evaporated, and chrystalliz'd, so you have an excellent greenish Vitriol.

Our of any of these three Kinds of greenish Vitriols all the great and fam'd Medicines are made; it goes sometimes by the Name of Dantzick Vitriol; it may be purified after the same Manner as the White, and the Gilla of it has all the Virtues as the other, but is much stronger, and ought to be given with Caution and Discretion, and only to strong Perfons; and if given to the Sick, they ought to be provok'd to Vomit, least by Reason of its Quality it should ulcerate the Tunicles of the Stomach and Bowels.

The Sympathetick Powder is much better to be made with this than with white Vitriol, as being much more powerful to all the fame Intentions of curing Wounds, and the like: And as to the Compound Styptick Water of white Vitriol, the same may be done with the Hungarian, only the Proportion of it must be something less. It is superior in Virtue, and may do Wonders, if in a wife Man's Hand, but for vulgar Use the former is better, because it may be trusted with Persons that are less skilful, and there will be no Danger of their doing Mischief

The Styptick Water of Monsieur Faveur is made after this Manner: Take of Vitriol twenty-five Pounds, dissolve it in fair Marcastre Pyrites, or Fire-Stone, with Ad-Water, ftrain it through a coarse Cloth, boil it in a Copper Vessel for a Quarter of an Hour; remove it from the Fire, and put to it immediately half a Pound of Spirit of Vinegar to cause the earthy Parts to lettle; let it stand twelve or fourteen Hours that the Terra may precipitate, then decant the clear Liquor. This Terra, or precipitate Wath well, dulcify and dry over hot Embers; of which take eight Ounces, put it into a Glass Retort, upon which pour Spirit of Vitriol, well rectify'd from its Flegm, eight Ounces; diftill with a gradual Fire, foft at first, and at length very violent, continuing it fo 'till nothing more will come. Take the Caput Mortuum, reduce it to Powder, and with Alcool, or tartariz'd Spirit of Wine, enough to cover it five Inches over, in a Matrals well luted, fet it in a fost Heat to digest for twenty-four Hours, 'till the Spirit of Wine becomes very red; filter it hot and draw off the Spirit in a Glass Alembick, so you have at the Bottom a whitish Powder: Take of this Powder one Ounce; Rain Water four Ounces, digest in the Sun for some Days, then filter and keep it for Use: But the same Person, in making the same Water, did put double the above limited Quantity of Spirit of Vitriol, and then only drying the Caput Mortuum in a Crucible 'till it became yellowish, he to two Ounces of it put only three Ounces of Rain Water; digefted them rogether for fome Hours, then filtrated and kept the Liquor close stopt for Use, as an extraordinary Remedy against all Hemorrages, or violent Fluxes of Blood.

To conclude, The German or Dantzick Vitriol is in green Chrystals, inclining to a blue, of an aftringent acrid Tafte; it participates of Copper, and is that which is us'd to make

Aqua fortis.

The English Copperas is in Chrystals of a dark green Colour, of a fweet aftringent Tafle, coming near to that of white Vitriol, it participates of Iron, and does not make it change its Colour. It is more than half of it Flegm, a great deal of acrid Salt, Sulphur, and Earth. One may draw from this Vitriol a very good Spirit of Vitriol by Diftillation, as I have shown in my Book of Chymistry.

dition of old Iron. Of this Copperas, with Galls, or any other aftringent Vegetables, you may make Ink, and the Black for Dyers; yet some think that the Vitriol of Copper is better, because that Experience teaches the Refiners that Aqua fortis made with Copperas, or Vitriol of Iron, will carry its Foulness through all their mediate Solutions, even to the Verditer itself, which it will make of a dirty green Colour, wherefore Aqua fortis is made of Dantzick Vitriol only.

Dark green, or Roman Victiol, vulgarly call'd Common Green Copperas, is prepar'd about Rome in Campania, being extracted out of Clors or Lumps, of an afh Colour inclining to black, like Potters Clay, which being expos'd to the Air gradually hear and ferment, and being dissolv'd some Days after in fair Water they yield this Sort of Vitriol, but from the fresh Clots no Vitriol can be obtain'd. This Roman Vitriol is alfo prepar'd in some Parts of the Kingdom of Naples ; it is of a paler green than the German Vitriol, but almost of the same Styptick Tafte.

The Blue Vitriol, or Celeftial Stone, is call'd Cyprian, or Hungarian Vitriol, because it is brought to us from those Countries; it is in Chrystals of a very fine Sky-colour'd Blue. It is not certainly known after what Manner it is made; some think it is extracted by the Evaporation and Chrystallization of the blue Water that is found in the Copper Mines: Others fay it is an artificial Operation, perform'd by a Diffolution of Copper, in a weak Spirit of Vitriol, evaporated and chrystalliz'd. However it be, it participates much of the Copper, which gives is the blue Colour; it is acrid and fomething cauftick; it comes in great and leffer Pieces, the little ones are pointed like Diamonds ! It contains much acrid Salt, or a corrolive Acid of Sulphur, but less Flegm and Earth than other Vitriols.

The artificial Vitriol of Venus is made by taking little thin Pieces of Brass, about the Bigness of a Shilling; first put a Layer of Sulpliur, then a Layer of Pieces, filling a Pot full, Stratum Super Stratum, and calcine in a Furnace for two or three Hours; This Viriol is made in England, upon the or calcine first the Copper by itself, and River of Thames, in vast Quantities, of the then beating the Calx to Powder, calcine it

again, being first mix'd, with every Pound of Calk fix Ounces of Sulphur, flirring it continually as it burns, that it may not stick to the Pan, and become black; powder the Calx again and calcine and repeat it three Times, 'till the Calx becomes very red. Take of this red Calx in Powder, one Pound; fair Water, fix Pounds; boil them together for about four Hours; let it cool and fettle, decant the clear faphirine Liquor, and filtrate it after it has flood about two Days. The remaining Copper calcine as before with Sulphur, three Ounces, and with Water in like Manner draw the Tincture : This Process of calcining, boiling, settling, and filtrating, is to be done fix or feven Times, 'till with Water you have extracted the whole faphirine Azure, or blue Tincture out of the Copper. These blue filtrated Liquors put together, and in a large earthen Bell, in a Sand Heat, not violent, evaporate the Water 'till a Pillicle arife, which being then put into a cold and moist Place for a Night, will moot into Chrystals like great Gems. Glauber, extracts the Tincture from calcin'd Copper, with Spirit of Sal Armoniack, by frequent Ignition and Extinction, and in an Hour's Space extracts a blue Colour, which being fet to chryftallize in a cold Place, shoots into most elegant blue Vitriol. Beguinus does it with Spirit of Vinegar, but then the Vitriol will be of an obscure green Colour.

The Native Blue Stone is good against Diseases of the Eyes, taking away Films, Clouds, Pearls, &c. Rheums, Redness, Inflammation and Blood shot, if you take the Stone and put it into a little Spring or Well Water, for about two Minutes Time, and then take the Water with a Linning Rag to wash the Eyes, and drop two or three Drops into them, at Bed Time: It cureth any running Sore or Ulcer, or inveterate Fi-Stula, Tetters, Ringworms, Scurf, Se. but for these latter Discales, the Stone ought to lie in Water for a Quarter of an Hour, It also helps the Canker in the Mouth, by rubbing the Place with the Stone, and washing

the Mouth with the Water. The factitious blue Stone is given from two or three Grains, to twelve or fifteen in diffolv'd, an Earth and Salt is obtain'd. proper Liquors, against Diseases of the Head, Stomach, and Paris of Generation. It is by the Chymists, from one Dram to two.

often us'd in Injections in proper Vehicles. one Dram to one Pound of Liquor for all Sores, Ulcers, Scabs, Itch, Tetters, or any other curaneous Difease. Inwardly it kills the Worms. It may be given in a small Dose against Diseases of the Stomach and Brain; it strengthens the Brain against a growing Epileply. It is also a Specifick to cleanse the Womb, and is held as a great Secret to dissolve a little of it in Water against the burning and intemperate Heat of the spermatick Vessels, and so to use it for Injections: For as this Vitriol possesses a large Portion of the Sulphur of Venus, which is able to appeale the Irritation of those Parts, fo also it produces rare and eminent Effects, by Virtue of its deterfive and refrigerative Salt.

The Red Vitriol, call'd Colcothar, is a Vitriol that has been naturally calcin'd in the Mines by subterraneous Fire, or artificially, by ordinary Fire. That which is found naturally in the Mine, is call'd Chalcitis, because 'tis taken from Copper Mines: It is a brownish red Stone, which is brought to us from Sweden and Germany: It is rare, and we have scarce enough of it to use in our Venice Treacle, of which it is one of the In-

gredients.

That is best which is of a reddish Brown, of the Tafte of Vitriol, and eafily disfolv'd in Water.

The Colcothar, calcin'd by the common Fire, is of a pleasant Red; the best is that which remains in the Retorts after the Diftillation of the Spirit and Oil of Vitriol; both one and the other Colcothar contain a great

deal of Salt and metallick Earth.

Vitriol is chymically analiz'd after the following Manner: Fill a Glass Matrals, or Cucurbit, up to the Middle with Vitriol powder'd; then clapping on the Head, firting the Receiver, and luting the Joynts, distill it with a Sand Heat, that the Ros or Flegm of the Vitriol being of a strong sharp, Tafte may be drawn off; then take of what remains in the Matrals, bruile or powder it, and throw it into a Retort, encreasing the Fire gradually three or four Days, and you will obtain a Spirit and an Oil : And, Laftly, From the Caput Mortuum of the Vitriol

The Ros or Flegm of Vitriol is prescribed



and is mightily commended by them for its and because few Persons have the true Know-Virtues, being diuretick, vulnerary, anodine, and good to strengthen the Bowels.

The Spirit of Vitriol provokes Urine, excites an Appetite, and allays the burning Heat of Fevers, being given in a Cup full of cold Water to a grateful Sharpnefs. This Spirit may be sweetned, digefting it with the rectified Spirit of Wine, and then it may be us'd in Diseases of the Gums and cutaneous Diftempers.

The Salt of Vitriol is endued with an emetick Faculty; it may be given from half a Dram to two Drams.

The Colcothar, or red Earth, out of which the Salt was extracted, is effectually us'd in a Loofness, Bloody Flux, Hemorrhages and Wounds.

The spirituous Parts of Vitriol may be easily again recovered, if you expose the Caput Mortuum for some Time to the open Air, keeping it that there is a great deal of Difference befrom Rain; fo that by Distillation you may obtain another Spirit; but this Spirit is a great deal fweeter and weaker than the Common.

Paracelfus corrects the Spirit of Vitriol, by pouring it upon the Caput Mortnum, and then Distilling it nine Times over, every Time pouring on more fresh Spirit; and taking it out of the Limbick, he puts it into a Retort, and diffills it over again with as much Spirit of Wine as is sufficient to make it into a Paste; this he highly commends in an Epilepfy, or Falling Sickness.

Of the Medicinal Stone of Crollius.

The Stone of Crollius is made of Pomet. English Copperas, White Copperas, Alum, White Pot-ashes, or Natrum of Egypt of common Salt, Salt of Tartar, Salt of Wormwood, Salt of Mugwort, Salt of Succory, Salt of Plantain, Salt of Arimart, White Lead, Bole Armoniack, Myrrh, Frankincenfe, Vinegar of Rofes; of all these in proper Dofes, as they are fet down in Crollius, Page 442, by the Means of Fire, is made a red Stone, endu'd with very excellent Properties, as the same Author remarks, which would be too long to be describ'd in this Place: But as this Stone is of great Consequence, both because it costs a great deal of Money,

ledge of it, the greatest Part of the Apothecarries substitute in the Room of it the Medicinal Stone, describ'd by Monsieur Charas, and Monsieur Lemery, because they can afford it cheaper than they who fell the true Stone of Crollins, this latter being made of Druggs of a much lower Price, as shall be shown hereafter.

Of another Medicinal Scone.

Monfieur Charas, in the 1041 Page of his Pharmacopea, de- Pomet. scribes a Medicinal Stone compos'd of the Vitriol of Cyprus, Salt of Nitre, white Lead, Allum, Bole Armoniack, Sandiver, Sal Armoniack, and common Vinegar; fo that one may see by these two Descriptions twixt this Stone and that of Crollius; and that more of this is likely to be fold for its Cheapness than of the other.

Of the Lapis Mirabilis.

The Lapis Mirabilis is so call'd because of its great Properties, above all for the Cure of Webs and other Diseases that happens to the Eyes of Horses.

This Stone is made by putting into an earthen Pot a Quantity of White Copperas, Alum, Bole Armoniack, Litharge, and common Water, as Monfieur Solley fel has remark'd in his Book, Page 86, to which they that have Occasion may have Recourse, as well to know the Dole as those excellent Qualities, by which it obtain'd such a Name.

21. Of the Pyrites, or Fire-Stone.

HE Pyrites, or Fire-Stone, is a Sort of Marcastre of Copper, of which they make their Copperas's or Vitriols; this Marcafite is weighty, of a Mouse Colour, full of little, yellow, thining Spots.

There is a great Quantity of this Fire-Stone in France, especially at Paffy near Paris.

Pyrites

fends forth Sparks of Fire upon firiking it with Iron of a grey Colour, interspers'd with little, yellow, thining Streaks: It is found in the Copper Mines in Italy, from whence they draw the Roman Vitriol.

To get the Vitriol our of this Stone, it is necessary to expose it to the Air for several Months rogether, that so the Acid getting infensibly into the Pores may rarify its Parts, and render its Salt more diffolvable, by this Time it is converted in a Manner to a Chalk, from whence they extract the Vitriol, by washing it several Times with Water, and making Evaporations and Chrystallizations as are necessary, and as they do in the making of Saltpeter.

The Pyrites is deterfive, aftringent, deficcative, digeftive, refolutive, and to be applied outwardly.

22 Of Lead Oar.

M/E have three Sorts of Lead Our that differ one from the other, only according to the Digeftion they have receiv'd in the Bowels of the Earth. The First, that is to fay, that which has receiv'd the leaft Heat, and by Confequence is most weighty, is that which has the Name of Lead Oar, and is made into Lumps call'd Pigs, by the French, Salmons.

This Lead Oar is a weighty Mineral, easy to break to Powder, and difficult to melt, which is taken out of the Mine in Pieces of different Bigness, sometimes clean and neat, fometimes mix'd with Stones, refembling a certain Sort of Marble.

This Lead Oar being broken, parts into shining Flakes, of a White, enclining to Black, very like the Shoots of Antimony.

The English melt this Lead, and afterwards cast it into Moulds of the Shape we fee the Pigs in. The Lead Oar is of no make use of it, having first reduc'd it to Powder to varnish the Earthen Vessels of a green Colour with it.

Although this Merchandize be of no great Consequence, yet great Care must be taken should not be heavy, of a black shining Silconcerning it; for if there should chance to ver Colour, not too hard nor too fost, easy

Pyrites is a Sort of Copper Mar- be any other Metal in it, as there is found cafite, or hard Stone, heavy, which to be too often, it would spoil all the Porters Ware, to the great Trouble of him that fold the Commodity; for this Reafon you should never sell it to the Potters, without showing it them Piece by Piece, and taking a Note under their Hand, that they are farisfied to avoid farther Trouble.

> The Lead Oar that has the requifite Qualities, ought to be in large Pieces, heavy, with fine shining Scales, as if fat, that is to say, easily tractable. In a Word, the most approaching to Tin-glass that it can possibly; and reject that which is full of Stones and Dirt. or Gravel, as good for nothing, as well as that which is mixt with the Lead Oar of the second Sort that I am going to speak of,

The Lead Oar of the second Sort is less weighty, and much harder than that beforemention'd, and being broke is of a Moule Colour, of a coarfer Grain, and smooth without, in some Measure resembling the black Lead; which shows that it has not receiv'd Heat enough to be converted into the black Lead Oar. This Quality makes this Lead Mineral to be entirely rejected, as being of no Use: And this Quality is often found in the first Sort, which causes so much Trouble to the Workmen, because they can no more melt it by the Fire than they can do Marble, and it spoils all their Work. However, I must take Notice, that some Alchymists desire it to draw their Lead out of it; for they pretend that the Lead drawn from it is more ductile and close than common Lead is found to be. Others will have it that there is some Silver in it which I leave other Persons to try; but as it is seldom us'd I should not advise any Person to furnish himself with any Store of it.

The third Sort of Lead Oar is very much us'd, and 'tis that we call Black Lead, or Crayon, because the most perfect of it serves to make Pencils to defign withal. The Ancients gave it the Name of Plumbago, and of Sea Lead, because they pretend they rook it other Use in France but for the Potters, who from the Bottom of the Sea; Foreigners call it Potelot.

We have at Paris two Sorts of Black Lead, to wir, the Fine and the Common. The Fine to be perfect, and in good Condition, to be cut; and when divided, compact in it as Lead Mineral for glazing their Earthen the Infide, and not gritty, of a fine close Grain, in moderate Pieces, rather long, proper to cur, and make the long Pencils that are so much esteem'd. Lead of these Qualities wants for no Price, the Merchant may have what he pleases, being much sought for by Architects and other Persons for Drawing. This Sort of Lead comes generally from England, but as for the Common it is brought from Holland, and is of no great Ule.

Monfieur Morin, Physician and Mineralift, has affur'd me that there were a great many Lead Mines in France, especially in Auvergne, from whence we might have these three Sorts of Lead, and this may be relied upon, he being a Person that would not affirm

an Untruth.

Of Lead in Pigs.

They call Lead in Pigs the Lead Mineral, melted and purified from the Stone and other Impurities, which being well refin'd, by scuming and throwing Suet, or other Greate into it, is cast into Moulds to make Pigs of different Sizes.

The Lead fo refin'd, to have its due Requifites, should be fost, that is to say, easy to cut, pliant, and the most white and shining that can be. The different Uses that are made of Lead, as well in several Trades, as in Chymical Operations, is the Reafon of fo large a Confumption as there is of it, as well in Europe, as other Parts of the World.

Of Lead in Powder.

The first Preparation that is made of Lead, is the Reducing it to Powder, not in the Manner some Apothecaries use to reduce it, by rasping it and beating it in a Mortar; but by melting Lead in an Earthen or Iron Veffel, and when it is melted by throwing into it the Dust of beaten Charcoal, stirring it abour, and in this Manner you may sooner reduce into Powder a thouland Weight of Lead, than one Ounce the other Way. To clean the Lead, that is to separate the Coal from it, you have nothing to do but to wath it in Water, and dry it. Lead in Powder is very little us'd but by the Potters, who use

Ware.

Lead in Powder, especially that which is in a Powder almost impalpable, has some Use in Medicine, because it is an Ingredient in fome Oyntments, as the Pompholyx and others. They which refine Lead and make Musquet Bullets, or small Shot, fend us their Scum, which we fell to the Potters, and is what we call Soum or Lead-Affecs.

Of Burnt Lead.

Burnt Lead, which the Latins call Plumbum Ustum, is Plates of Lead put into a Pot with Sulphur, and by the Fire the Lead

is reduc'd to a brown Powder.

Burnt Lead has some Use in Medicine, because it dries and is an Ingredient in some Oyntments and Plaisters As to its Choice, there is no more to be faid than that it be clean and well burnt : Some wash it to separate the Impurities, or the Sulphur that remains in it. 460 best 100 se

Of Red Lead.

The Red Lead, which we call Minium, is Lead Oar pulveriz'd, calcin'd, and reduc'd to such a Red Powder as we see it. It is wrong to think that the Red Lead which is brought from England is made of the Pig Lead, the Cheapnels of it shews it to be otherwise, and that it is made from the Lead Oar as it comes from the Mine: Befides, the Pig Lead will never come to that Redness as Mineral Lead, whatever Fire you give

Minium ought to be chose for its high Colour, the finest Powder, and cleanest that can be, and Care must be taken that it has not been wash'd, which will be known by its whitish Colour, and the little Lumps that are commonly in it. One may draw Mercury, from Minium, with Lime or File-Duft; but it is in so small a Quantity, that it is scarce worth speaking of.

The Red Lead is of some small Use in Medicine, because it is drying, and gives a Body to some Oyntments and Plaisters. Painters use it as well for painting Red, as to mix with other Colours to make them dry. Potters use a great Deal to glaze

their

are several other Tradesmen that have Occasion for it.

Of White Lead.

White Lead is Pig Lead reduc'd to Leaves, and afterward roul'd as you would do a Sheet of Paper, but so that this roul'd Lead does not touch one upon the other. This Lead fo roul'd is put upon fmall Sticks, which are laid in Pots, the Bottom of which is cover'd with Vinegar. These Pots being fill'd must be ftop'd, fo as that no Air may get in, and afterwards left in a Dunghil for thirty Days together, after which they open the Veffels, and find therein the Lead, become white and brittle; taking then these Leaves out they break them in Pieces, and afterwards expose them to the Air to dry them.

Choice is to be made of fuch White Lead as is brittle, white without and within, in handsome Scales, and with as few blackish Flakes, Duft, and other Impurities as can

The White Lead has no other Use, that I know of, but for the Painters, being ground with Oil or Water, it being then the most beautiful White that we have, and of the longest Duration, but then it is a very dangerous Drugg, both to grind or to beat to Powder.

of Cerule.

The true Cerufe, or Chalk of Lead, Pomer. is White Lead in Powder and ground with Water, and afterwards put into Moulds, and so made up into little Cakes, which they dry, and afterwards put into blue Paper, as we find them. This Cerufe, fo prepar'd, is that which one may call the land, it being almost all common Chalk, as I damag'd by some Wet coming to it. am going to relate.

The true Ceruse is that which we call the is penetrated, rarified, and half Venetian, because the Venetians were the first dissolv'd by the Vapour of Vinethat made it, but as it is extreamly dear, gar, and reduc'd into a very white Subwe have little but the other Sort which stance that is heavy and friable. When you comes from Holland, because the Painters wou'd make this Ceruse, the Lead is to be efteem it as much as the Venetian, but they beat into fine thin Plates, which are suspendare very much in the wrong; for the Dutch ed or hung over Earthen Pots, in which they

their Ware of a reddish Colour; and there of no long Duration because of the Chalk that is in it, which does not happen to the true Venetian Ceruse, which is only the White Lead ground; fo that if one had the true Venetian Ceruse there would be no. Need of grinding White Lead, and confequently the Danger would be avoided that Persons meet with by grinding it, which often occasions feveral Diseases, and sometimes Death it-

If they who have Occasion for Ceruse to use in Medicine, or to make Salt of Saturn. would use the true Venetian Ceruse, they would find their Operations more perfect: And instead of taking the Ceruse in Cake, they might take the White Lead ground and make it serve all their Purposes; but then it must be bought of honest Persons, for none but they who ground it can answer for it: However the true White Lead ground is extreamly white, foft, and friable.

It is remark'd, that the Hollanders to make their Cerufe, use only the Dust that comes in Bruifing their White Lead; and as this Dust could not supply so great a Quantity of Cerufe as is us'd in France, and other Countries, and they could not otherwise afford it so cheap, they mix a Sort of Marle or white Chalk with it. As for that which comes from England, it is still worse than that from Holland, because they mix more of that Stuff with it, and it is not of fo good a Colour. They who grind the White Lead to make Ceruse of it, have Water-Mills, and afterwards they cast it in little Moulds to form it into Cakes, which to have its proper Qualities should be extreamly white, soft, friable and dry, and the leaft broke or mix'd with little Dust that can be, especially if it be for Sale; you hould reject that which has not a good Body, but cracks in handling it. Chalk of Lead, and not that which we fell which proceeds from its being made up beat present, that comes from Holland or Eng- fore it was well dried, or by having been

Cerusa, or Ceruse, is a Lead that Ceruse ground with Oil or Water, is a White have put Vinegar; and when the Pots are Vol. II.

onw

full of this Lead, they place it in a proper Gold-colour'd: These different Colours aopen the Mouth of the Pot, and find all the Plates of Lead reduced into a white brittle Substance, which they call White Lead, and break these Plates into Pieces, which are us'd by the Painters. This White Lead is ground upon a Porphyry, with a little Water, and made into a Paste or Cakes, which being dry'd are fit for Transportation. The Workmen, in this Commodity, chuse to put it up in blue Paper rather than any other, in order to make the Cerufe look whiter; the best, the purest and whitest, is brought from Venice: That which comes from England and Holland is mix'd with a Kind of Chalk or Marle, [as has been observ'd by Pomet.]

Of Sandix, or Red Cerufe,

The Sandix is nothing but Cerufe Pomes. redden'd over a gentle Fire ; but as this Sandix, or Red Cerufe, ferves only to the same Purpoles as Minium, it is therefore but little uled. Some Moderns have writ that Minium, or Red Lead, was made of Cerufe turn'd red upon the Fire : But as there is nothing more falle, so there are some who write by Hear-fay, as is easy to prove: Forasmuch as the Ceruse comes from Holland, and the Minium or Red Lead from England; and besides, the Ceruse is always dearer than the other

that of the highest Colour ought to be chosen; is the Lead made use of in refining Copper. it is astringent and desiccative, being us'd in Nevertheless, I do not deny but that those Plaisters and Oyntments: They likewise use who refine Gold and Silver make Litharge; it in Painting, and to varnish Pots of a red but that is not what is fold, because the Re-Colour; it is call'd Minium from the Word Mina, because it is made of the Lead as it new, and to recover the little Gold or Silcomes from the Mine.

to wit, the White, the Yellow, and the Chimney: So also these shou'd be undeceived

Heat, so that the Vinegar may, by its Fume rise from nothing but the different Degrees of or Vapour, have Power to penetrate and at- the Fire they give the Powder of White tenuate infensibly the Matter. After this has Lead, of which they are made. Tho' the remain'd about a Month in the Fume, they first Sort, which is that which has sustain'd the least Degree of Fire, is call'd White, yet it is not of a true White Colour, but of a whitish Yellow. The Second is yellow, and endures a stronger Degree, and the Third of a Gold Colour, and has fuftain'd more Fire than the former; and they might make a Fourth, by Calcining it 'till' it becomes red, which would make it a true Sandix, or common Vermillion : As to the Choice of them, they ought to be heavy, in an impalpable Powder, of a high Colour, according to the Appellation they bear of true Mafticot; they are only ferviceable for the Painters, tho' Lemery fays they are deficeative, and useful mix'd in Plaisters or Oyntments.

Of Natural and Artificial Litharge, Flakes, Doft, and other Impurirles as can

The Natural Litharge, which the Ancients call'd by the Name of Molibdiena, is a Kind of metallick or mineral Body, in Crusts or Flakes, of the Thickness and Figure of White Lead, of a reddish Colour, easie to break, which is found in the Lead Mines: But as this Liebarge is known to very few People, and is scarce to be met withal, therefore the Artificial Litharge only is us'd, which is improperly call'd Gold or Silver Litharge, because the Ancients, and after them the Moderns, pretend that this Litharge ferv'd to Minium, or Sandix, is the Lead purifie or refine Gold and Silver, which is Lemery. Oar pulveriz'd and made red by a far from Truth, fince all the Litharge we long Calcination over the Fire, have now from Poland, England, or other and this is brought from England, whereof Parts, as Germany, Sweden, and Denmark, finers melt theirs into Lead again to ferve aver that was carry'd off with it. These People ought to be undeceiv'd who believe, according to what some Moderns have writ, that Licharge is the Fume of Lead evapo-There are three Sorts of Mosti- rated in the Refining of Gold and Silver, cot that are brought from Holland, and that it is like Soot that flicks to the

who

the Litharges from their Colours, fince those are only occasion'd by the Force or Violence of the Fire. The Dantzick Litharge is to be prefer'd before the English, so likewife that which is most calcin'd, and of a lively Colour, that will eafily diffolve in any unctuous Liquors, in which it is usually imploy'd. This Commodity is much us'd in France, as well by Potters to glaze their Earthen Wares, Dyers, Painters, and others, as by Apothecaries, who make it the Basis of most Part of their Plaisters and Oyntments.

Liebargyrus, five Lithargyrium, or Litharge, is a Lead ting d with the Impurities of Copper, and teduc'd into the Form of Drofs, or metallick Scum, by Calcination; this is made upon the Purification of Copper in Poland, Sweden, and Denmark: There are two Sorts, one call'd Lithargyrum Auri, Jeu Chrysitis, or Litharge of Gold; the other Lithargyrium Argenti, or Litharge of Silver; the Difference of Colours makes no Difference in the Virue of them. There is likewise a Litharge made in Refining Gold or Silver by the Cupell, but it is but in imall Quantities, tho' like the other. All the Sorts are deficcative, cooling, deterfive, and give a Confiftence to feveral Plaisters, for they diffolve in boiling with Oil and fatty Bo-

Of Salt, or Sugar of Lead.

THE Salt or Sugar of Lead is made of White Lead, and the true Venetian Ceruse, infus'd in distill'd Vinegar, then filtred, evaporated, and reduc'd into a light Mass, that is white and chrystalliz'd, of a sweet sugary Taste, yet nevertheless pretty disagreeable. The greatest Part of those who make Salt of Lead, do it with Dusch Cerufe, fuch as we fell, for which Reafon they can fell it nothing near fo cheap as that made of Venetian Ceruse; because, as I faid before, the Dutch is mix'd with Chalk, which will yield no Salt; and some make it of Lead in Powder, Minium, or Litharge, none of which will afford so much Salt, and confequently can't be fold fo cheap: Chuse that which is of the Tafte aferefaid, white,

who believe that there is any Difference in in little Shoots, or thining Chrystals, and as light as may be, which when dissolv'd in Plantain Water will look like Whey; which Tryal will answer two Purposes, the One to know the Goodness of the Salt of Lead, and the Other that of the Plantain Water; its Use is to cool, being given internally or externally, for which Reason it is reckon'd proper to stop the Flux of the Belly, and for fore Throats, taken from three to four Grains in Plantain Water. Most of those who make this Medicine make it heavy and greyish colour'd, which proceeds from the Lead not being well purified, or that it was not made with good Vinegar. For to make the Salt fine and light, it ought to be purified at least four Times. and of samuant

very scarce. of Ballam, or Oil of Lead.

They call that Balfam, or Oil of Lead, that is made of the Salt diffolv'd in Oil of Turpentine; but others content themselves with parting Salt of Lead in a Cellar to run into a Liquor. The first Balfam or Oil ought to be prefer d to the other, in that it is proper to cleanse and cicatrize Ulcers, and because it is more capable of refifting Putrefaction. Others make Oil of Lead, by drawing a burning Spirit of Lead, which they make by filling two Parts of a Retort with Salt of Lead, and by the Means of Fire, drawing thence a Spirit that burns like Brandy; but as this Oil is not fo strong as that made with Oil of Turpentine, it serves to cleanse the Eyes, especially of Horses and other Beafts. Spirit of Lead is an excellent Remedy to refift the Putrefaction of Humours.

of Magistery of Lead.

Magistery of Lead is made of Salt of the Lead that has the required Qualities, diffolv'd in distill'd Vinegar mix'd with common Water; and by the Affiftance of Oil of Tartar per deliquium, precipitated into a white Powder, which after it is wash'd and dry'd, is very useful to cure Tetters and Ringworms, being mix'd with some Pomatum: It likewife makes, with Vinegar and Water, a Sort of Virgins Milk, that is good to allay Inflammations and cure Pimples in the Face.

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Of



of Vinegar of Lead.

The Vinegar of Lead is Vinegar diffill'd, wherein have been digefted Cerufe and other Preparations of Lead, which is made use of to cure Tetters, or being well incorporated with Oil of Roses to make a Kind of Oyntment, call'd Butter of Lead.

Of Natural or Mineral Zink.

It is not with Zink as with Tin-glass; forasmuch as 'tis not only probable, but certain, that there is a a Natural Zink which the Germans call Beauter, and the Flemings Speauter, we Spelter. The Mineral Zink is found in great Quantities in the Mines of Goffelar in Saxony; it is at present very scarce in France, for which Reason it is much enquired for by some People. This Metal is a Kind of Lead Oar, except that it is harder, whiter, and more brillant. Some People have affur'd me, that the Zink we fell in great square Cakes is cast Mineral Zink, that after it has been fined is thrown into Moulds of the Figure as we have it, which I can eafily believe, it being impossible to make it of

Others mute on or Lead, by drawing an birming Spirit of Lead, which they make by filling two Parts of a Retors with Sale of Lead, and by the Means of File, drawing thence a Spirit that burns like Brandy a ture as this Oil are to be frong as they made with Oil of Turpentine, it lerves to cleaning that

Spirit of Lead is an excellent Remedy to re-

aft the Portelaction of 1 Immours.

Lead, Arsenick, Tartar, and Saltpeter, as Mr. Charas has observ'd. The Zink, which fome improperly call the Female Antimony, ought to be white, in fine Flakes, the least tharp, and the most difficult to break that can be: For the more it endures the Fire, and the finer and larger the Flakes are, the more ir is valued by the Workmen that use it, especially the Founders.

The Zink at this Time is much in Use. fince the Tin-men have found it more proper to clean their Tin than Pin-Dust and Rosin. Tis wrong to believe that Zink is mix'd with Tin to encrease its Weight; for unto a Fount of five or fix hundred Pounds of Tin, they put but one Pound of Zink, and which is wonderful, the Zink has the Quality of purifying and whitning the Tin, and acting upon it as Lead does upon Gold, Silver, or Copper. This Zink is us'd to give Copper the Colour of Gold, especially when mix'd with Turmerick; and works upon Copper as Arfenick does that turns it of a Silver Colour; or the Lapis Calaminaris that makes it yellowish; or, lastly, as Hungarian Vitriol that turns Iron into a Copper Colour, as hath been ob-ferv'd in the Philosophical Transactions of the Royal Society at London.

Ougariries who lake the other. All the Soris are deficative, scooling, descrive, and give. a Confidence to teveral Plaifters, for they off wind bas hos the confined on swieth before the dramatal Littings only is us'd, what is improperly call'd Gold or Silver Lithius.

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BOOK the Third, of the Third Volume.

Of MINERALS.

The PREFACE.

BY Mineral, in its general Signification, is understood, whatsoever partakes of the Mines, or is increased in, or has passed thro' them. But as it is the Subject of this Book, it is taken in a more particular Sense; in which it is by some, said to be a fix d and folid Body, produc'd by Exhalations and Vapours, inclos'd in the Bowels of the Earth, as Meteors are form'd in the Regions of the Air; or as others will have it, that'tis form'd of a tender Substance, produc'd in the Earth by Coagulation, and encreas'd by the external Addition of Sensible Particles, which oftentimes is the Matter that in Proces's of Time commences Metal; so that I shall comprehend, under the Name of Minerals, every Thing that is of a Metallick Nature, and which differs only from Metals, in not being malleable, or that is not capable of Fusion as the Loadstone, &c. We shall begin therefore with Antimony, which comes nearest the Nature of Metals, and differs from it only in not being ductil.

r. Of Antimony.

of Opinion it contains all the Principles 'till about the twelfth Age; but then a cermetallick Mines, more especially near those of Silver and Lead; that it contains a dou-

unlike common Sulphur; a fuliginous, footy, ill digested Mercury, partaking of the Nature of Lead; and somewhat of a terrene fix'd Salr, R. Furetiere says, Antimony is a Mi- The same Author observes also, that the Use neral that comes very near the Na- of Antimony, unless in the Composition of ture of Metals; and that some are Fucus, or Cosmeticks, was wholly unknown, of them, for that it is found near all Sorts of tain Monk, Bafilius Valentinus by Name, publish'd a Book intitled, Currus Antimonis-Triumphalis, wherein he undertakes to affirm, ble Mineral Sulphur, the one Metal- that it was a Remedy against all Sorts or lick, approaching the Purity and Colour of Difeafes. Three hundered Years after Pa-Gold, the other earthy and combustible, not racelfus brought it into Vogue; but then in-

the Year 1566 the Use of it was condemn'd those in France. The best Mines are those of by Act of Parliament; and accordingly one Befnier, a Physician, in 1609, transgreffing it was excluded the Faculty. In the Year 1637 Antimony was again receiv'd by publick Authority amongst the Number of purging Remedies; and in 1650 the Act of State made in 1566 was repeal'd, Anno 1637, the Faculty caus'd it to be inferted in their Antidotarium, printed that Year; herein following the Opinion of Marchiolus: And in short, on the 29th of March, 1668, gave it the Sanction of publick Authority, by which Graduates had a Liberty of making use of it, but with a Probibition to all others, unless by their Advice : It acquir'd the Name of Antimony, according to the Opinion of fome, from a German Monk, the aforefaid Valentin, who, in his Search after the Philosophers-Stone was wont to make much Use of it for the more ready Fluxing his afterwards grew the fatter upon it; which made him harbour an Opinion, that the same Sort of Cathartick, exhibited to those of his own Fraternity, might do them much Service; but his Experiment succeeded so ill. that every one that took of it died : This therefore was the Reason of this Mineral, being call'd Antimony, as being destructive of the Monks.

of Natural or Mineral Antimony.

Antimony is taken from the Mine in little Stones of different Bigness, resembling Lead-Oar, with this Difference, that it is both lighter and harder; and by Reason of this a Sort of an Iron Skimmer upon it, upon Similitude, some call it Black Lead, or Marcafite of Lead; others Saturn, or the Philosophers Wolf, because it devours and confumes all Metals whatever, Gold only excepted: It is also call'd Proteus, from the Divertity of Colours it affumes by Means of the Fire; but its more ordinary Appellation is Mineral Antimony, and it is call'd by the ver having fuftain'd the Fire.

Poicton and Bretagne.

Mineral Antimony is sometimes met with pure, and fometimes attended with a Sort of Stone, which the Mineralists call Spar; there is some full of Stria, like so many Needles; others also all over of an odd souty Black: This Antimony is of very little Use in Medicine, unless it be purified by melting, as will be feen hereafter : The Chymists use it, indeed, for their particular Preparations.

The purest Mineral Antimony is to be chosen, that is, as free as possible from all Sorts of Stone or Spar: It matters not from whence it comes, provided it be good, though there are those that pretend the Antimony of Auvergne to abound most with Sulphur.

Some Gentlemen of the Retinue of the Ambassadors of Siam have brought Home confiderable Quantities of Mineral Antimony, but no Experiments have yet been made of Metals, and throwing a Parcel of it to some it. This antimony is white, and full of Swine, he observ'd that they had eaten it, small Needles; and as far as I can unand were thereby purg'd very violently, but derstand, altogether proper for the same Purpoles as the Mineral Antimony of France. As for that of Hungary, I can fay nothing of it, never yet having feen any

Of cast or melted Antimony.

Melted Amimony is what we improperly call Crude Antimony, because it has undergone the Fire to reduce it into Cakes and Needles, after the Manner as we see. To melt Mineral Antimony, the Mineralifts take two Earthen Pots, one whereof they fill with the Mineral in Powder, the other they place empty in the Midst of a strong Fire, laying which they put the Pot of Powder turn'd Upfide down; then encompaffing both the Pots with Fire, the Antimony will melt and pass through the Holes of the Iron Plate, and fall into the empty Pot underneath, and form itself into a Cake as it is fent to us.

The Iron Plate with Holes, put between more understanding, Crude Antimony, as ne- the two Pots, serves to keep back the Stone or Spar that's found commonly with the Mi-Heretofore Hungary was the only Place neral Antimony. When the Antimony is meltfor Mines of Antimony, but now we have ed, take the Pot off the Fire, and when none from thence, fince the Discovery of cold, break it and take out the Antimony,

which then may be conveniently fent whither

you please.

Formerly was to be met with in France, the Hungarian Antimony in Cakes or Loaves of three or four Pounds Weight, interwoven with small Needles running a-cross each other, of a golden yellowish Colour, and at Bottom white inclining towards that of Silver. This Antimony was found in the Mines of the Mountains belonging to Presburg, the Capital of the lower Hungary. where it was melted and made into the Figure we find it. But this is now so scarce, that it's next to an Impossibility to find out any of it. Those that have work'd upon this Sort of Antimony have affur'd me, that 'twas much fitter to yield whatever uses to be obtain'd from Antimony than that of France; and withal, that from every Pound of it they cou'd obtain two Ounces of better Mercury than that of Spain.

In France we have several Sorts of Antimony, which differ only according as it is better or worse cur'd: And the next best to that of Hungary is what we have brought from Sanmur in Anjou, whither it is sent purified

from Poiton.

The Antimony of Poiton appears with fine beautiful Sort of Needles, long, large, white, fparkling, light, and easily broken, and with as little half-melted Antimony as may be, which refembles the Drofs of Iron, which is commonly found at the Bottom of the Loaf in Scorie, and is call'd the Bottom or Top of Antimony. This Defect, however, is feldom found in the Antimony of Poitou, by Reason they are well vers'd in Refining or Melting it; and this is the Sort of Antimony that should be us'd in all the following Operations, because it abounds less with Sulphur, and affords more of the Regulus. We have had, for some Time past, an Antimony from Bretagne in small Needles very pure, and perfectly fit for the same Purpoles as that of Poiton. A third Sore is that we have from Auvergne, which in one Word is good for nothing, being very hard, full of Dross, and in small Needles of a tawny Blue, which makes it evident that 'tis not half purified, nor divifted of its fetid and malign Sulphur, which gives Abundance of Trouble and Difficulty to those that work upon it.

Besides the great Number of chymical

Medicines which are made of, or drawn from Antimony, Abundance of Artificers use it both to promote the Melting of Metals, and alfo to make the Regulus, especially in England, whither we fend a great Part to put in their Pewter to make it the harder, whiter, and more founding: But I observe, nevertheless, that of late Years the English don't make so much use of it, because instead of the Regulus of Antimony they use Tin-glass: The Letter Founders for Printing use Antimony, to render their Lead the more durable and hard. Antimony melted, and boil'd in a Ptisan with Salfaparilla, Guaiacum, &c. is a certain Cure for the secret Disease. And how much soever this Drugg has been condemn'd and out of Use in Times past, it is altogether as much in Vogue now. When you make use of it break it in small Pieces, or reduce it into a gross Powder, and put it into a Linnen Rag to be boil'd with other Things. Some give the Powder instead of the Liver of Antimony to their Horses, and fay it has the same Effect.

I shall not lose Time here to enter into a Disquisition, whether there be Male and Female Antimony, as most Authors affirm, and that the Male is the coarser, more sandy, scaly and light, and consequently less efficacious than the Female, which is more ponderous, bright colour'd, and more brittle; for I have dealt a great deal in Antimony, and never knew any other Difference, but that of its Purisication. And when it is good it may serve alike to all Purposes, so that I don't see how there can be two

Sorts.

Antimonium, five Stibium, or
Antimony, is a Mineral approach—Lemery,
ing very near to a Metal. It is
heavy, thining, and in Chrystals, shooting
like Needles, of a blackish Colour, which is
found near the Mines of Metals in several
Parts of Europe, as Hungary, Transilvania,
Britany, Poiton and Anvergne; they get it
in Pieces bigger or less, full of little hard
Stones or Pebbles, which the Workmen call
Gangue: They take the clearest, or that
which has least of the Gangue in it when
they make use of it, for several prefer the
Mineral Antimony before that which is cast
and purissed,

To -

To purifie or refine Antimony, they melt Star upon the Top. I shall not think it it over the Fire in Pots or Crucibles, in order to separate the Gangue or Dross; which Cooling, they cast it into Cakes, as it appears when brought to us, which we usually, tho improperly, call Crude Antimony, notwithstanding it has past the Fire. Hungarian Antimony was formerly brought into France in little Cakes, full of small Shoots like Needles, sticking interchangeably one with the other, that thine, and are inclinable to white, like Silver Oar; but fince this Mineral has been discover'd in France, we have none comes from Hungary, whence it is become very scarce. The Antimony we ordinarily use is brought from Poiton, which you ought to chuse neat, in fine, long, brillant Shoots, easie to break; it is naturally compos'd of a great deal of Sulphur, like common Sulphur, and of a Kind of a Regulus, like a Metal. [But you have a further Account of it in Mr. Lemery's Book of Chymistry, to which I refer you.]

Of the Regulus of Antimony.

The ordinary or common Regulus of Antimony, without Mars or Iron, is made of Antimony, Saltpeter, and Tartar, melted together, and cast into a small Morrar, greas'd, and so by the Knock of a Hammer the Regulus is made to fall to the Bottom, which if it be good ought to be white, in beautiful Scales, and just like Tin-glass. If the Regulus shou'd not prove good at the first Operation, it may be melted and purified again with a little Saltpeter; the oftner it is melted the more will it decrease, but the better will it alfo be.

Of this Regulus are made the Cups and Pills, and other chymical Operations, as shall be seen hereafter.

Of Regulus of Antimony with Mars.

The Regulus of Antimony with Mars is made of Antimony, Saltpeter, and Points of Horse Nails, or small Nails melted together; which by Means of the Fire, and proceding Operation, is reduced into a Regulus.

other, but withal ought to have a Sort of Advantage as the Dutch do.

worth my While to recount the many fabulous Stories of the Ancients concerning this Star, and the Cause of it, but shall only take Notice, that it appears more or lefs, according to the Degree of Fire the Regulus has undergone.

Of this Regulus is prepar'd the purging, or rather the emetick Wine; and here you ought to be caution'd to throw away the three or four first Wines you make with the Cups, least it shou'd produce some ill Accident,

Whereas most People that have Occasion for the Goblets or Cups of the Regulus, find Difficulty to come by them, let them apply to a Founder and they may have what Sorts and Sizes they will, at a cheap Rate, without troubling themselves with Moulds, as feveral have done to their Labour and Coft, who have at last been oblig'd to give over the Attempt, not being able to make one Cup without a Hole or some other Defect. You may also get these same Founders to make you the perpetual Pills, or you may eafily make 'em yourself with a Musker-Ball Mould.

The Pills serve for those that have the Twisting of the Guts, or Miserere Mei, so call'd. When they are return'd from our of the Body, 'tis but washing and cleaning of 'em again, and they'll serve as oft as you please, which gives them the Name of Perperual. They may also be infus'd, as well as the Regulus in Wine, cold, for the Space of twelve Hours, which is faid to be a good Medicine for ftrong Constitutions.

Of Glass of Antimony.

The Glass, or Vitrum of Antimony, is an Antimony separated from its Sulphurs, which are a deadly Poison, and for that Reason ought the Operation to be perform'd in a Chimney to avoid the Exhalations; then it is to be melted in a Crucible, and cast upon a hot Marble to make it in the Manner we behold it, and as it comes to us from

Tis an Operation I cannot advise any one ceeding much after the Manner as in the pre- to undertake, not only upon Account of the great Difficulty and Hazard attending it, but This Regulus, if good, is much like the also because we cannot make it turn to that

Choose

of a bright Red, and transparent, having as few fmall, thick, black and grey Pieces in it as possible. I am told the Hollanders mix half broken Glass in melting it, to discharge its black Colour the better, and to make it fo fine colour'd as we see it, but the Truth of the Fact I know not. Instead of throwing it upon Marble, one may put it in a Founder's Mould, and so make the Goblets or Cups; but this is a Work only for the Curious, there being no Demand for them.

This Vitrum of Antimony serves for a Vomir, taken from two to fix Grains. Apothecaries make a Syrup and the emetick Wine with it.

Of the Liver of Antimony.

The Liver of Antimony, improperly call'd Crocus Metallorum, is made of Antimony and common Saltpeter, mix'd and incorporated well together, and by Means of lighted Charcoal reduc'd into a Stone, after the Manner as we have it.

This Liver of Antimony ought to be chosen in fine thining Pieces, starr'd, smooth, brittle, and when bruis'd or pulveris'd, of a reddish Saffron Colour, which is the Reason of its being call'd the Crocus or Saffron of Metals; but in Pieces it ought to be Livercolour'd, from whence also comes the Name of H:par, or Liver of Antimony.

This Liver is a Sort of Catholicon for Horses; more especially to purge and put them in Case, if taken from one Ounce to two in wet Bran, as Mr. Soylefel directs, in his Book call'd The Compleat Farrier: 'Tis of fome Use in Medicine, but so little it is hardly worth speaking of; but on the contrary ris much us'd for Horses, as well under the Names above, as under that of Imperial Powder.

This Operation, which feems the easiest in the World, is notwithstanding very difficult to be perform'd with Success, more especially if one has not good Antimony and Saltpeter, or if it be fill'd with Salt, which but too frequently happens: Those therefore that undertake this Operation must dry the Saltpeter and make Choice of the Antimony of Poitou, not of that of Auvergne, as well because

Choose the Glass of Antimony that is flat, it is very full of Sulphur, as because it is not fo well cleans'd as the Former; and after it has been expos'd some Time, being mix'd together, to the open Air, put a sufficient Quantity thereof into a Mortar, or Iron Per, plac'd in a Chimney; and upon Application of the Fire, a great Noise, which the Chymists call a Detonation, will happen; and when that is over, and the Veffel cold, it must be separated from its Dross or Scum which is white, and the Bottom will be a Stone, such as I have describ'd. Note, You had not best make use of a cast Mortar for fear of breaking, which fometimes happens, or be apprehensive of the Fire thereupon. On the contrary, this Operation is the best Thing imaginable for Sweeping a Chimney; but observe to put a Cloth before the Chimney, and to get far enough off for fear of the Vapours, and that you don't perform it in any publick Place. It is an Operation of a very capricious and uncertain Nature; for I have feen a great Quantity of Saltpeter and Antimony mix'd and prepar'd together, that has made a very charming Composition: And again, when one has proceeded after the fame Manner, in all Particulars, the Refult has been less beautiful, and fometimes it has altogether miscarried. Those therefore that have Occasion for it in Powder will take Care that it be of a fine Red, not fuch as sticks to the Top or Sides of the Veffel, which is in Imal! thin, brown Scales, or fuch as has been spoilt, which is the Reason some sell it so much cheaper than others, which must be taken Notice of.

Those that wou'd have a Saffron of Metals, or the Crocus Metallorum, fit to be taken inwardly, must make it with equal Parts of Antimony, and refin'd Saltpeter, and then reduce it to a fubtil Powder, which is to be wash'd often in warm Water, as well to free it from any remaining Saltpeter, as to make it a little more emetick. The more emetick you'd have it, the more Saltpeter must be us'd; but it confiderably diminithes the Quantity, and makes it a great deal the dearer, tho' this ought to be no Confideration, fince, in fuch small Quantities it is fold at such a Rate that it amply rewards the Labour and Expence.

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One

One may give what Colour he pleases to as, when newly made, it is diaphoretick, the Imperial Powder, or Liver of Antimony, according to the Preparation, or according to the Saltpeter that is made use of; which if it be of the ordinary Sort will make it a little darker, or upon the Liver Colour, more than if it was of the best and finest Saltpeter; and if you add decrepitated Salt, that is, such as has been dry'd and half calcin'd, 'till it has done Crackling, 'twill be a good Red enough, inclining to that of Opal, and therefore it has obtain'd the Name of Magnesia Opalina, or the Ruby of Antimony.

Some make use of the white Drofs, as well for Horses as to draw from it a Salt or fix'd Saltpeter with Water, which is a very good Medicine for Horses, and to which the Name of Polychrestum, or general Remedy is therefore given; both wash'd, and other Crocus Metallorum, is us'd in making the emetick Wine, which is done by putting the Crocus or Liver of Antimony in white Wine, and Infusing of it for twenty four Hours.

Of Diaphoretick Antimony.

Antimony Diaphoretick, or the Calx of Antimony, is the Antimony of Poictou, and finest Saltpeter incorporated together, made into a Powder by the Means of Fire and warm Water; which before it is quite dry is form'd into small Troches, and so dry'd by Degrees and kept for Ufc. This Medicine is fometimes us'd in Malign Fevers, wherefore some prescribe it in the Plague and other scrib'd. contagious Diseases, it being a Sudorifick, and an Expeller of the Virus; tho there are others very diffident of its Qualities, suppofing it to have no Manner of Virtue, being only a Sort of Chalk, which I will not pretend to judge of, but leave it to the Phyficians to do it; who fince they substitute for it such Things as Men wou'd hardly believe, wholly void of all Tafte or Smell, being bar, from whence it has its Name. perfectly infipid. Some ingenious Men have

it becomes emetick when old, but this is what I have not experienc'd; and be it how it will, the New ought always to be pre-

Two Sorts of Salt may be drawn from Lotions made of it; but confidering the small Quantity that's to be obtain'd, I cannot advise any one to trouble himfelf about it.

Of the Flowers of Antimony.

The Flowers of Antimony are made in Pots put upon one another, call'd Aludels, being a Vapour rais'd by the Force of Fire, and found in the Top of them in white Powder, which may be gather'd with a Feather. Note, If you make use of an Earthen Retort inflead of Aludels, you'll have the Flowers-

The Flowers of Antimony are efteem'd good against the Epilepsy and Intermitting Fevers, the Dose is from two to fix Grains; and of the Red, being more emerick from two to four, taken with any Sort of Conserve, or Lozenges, or in Broth. And I cannot but observe, by the By, that a Man ought not to deal in chymical Medicines, without Advice of a faithful and experienc'd Physician; Empericks killing more than the Sword. How effectal foever a chymical Preparation may be, aptly and duly taken, it may be altogether as pernicious unfeatonably pre-

Of the Butter and Cinnabar of Antimony.

The Butter and Cinnabar of Antimony arife. from the same Matter, the Degrees of Fire only making the Difference: The Matter then is a Mixture of Antimony and corrolive Sublimate put into a Retort. That which fuch as Cerufe, and the like, which ought comes over first is a transparent Oil, next an carefully to be avoided, and may make one Oil as thick as Wax, which being well careful to buy it only of faithful honest Men; wrought 'tis like white Sugar-Candy; and the for I know no certain Proof of it, unless it third Sort produc'd by the Violence and Force be that genuine Diaphoretick Antimony, ought of the Fire, is a reddish Matter in small Necto be extreamly white, foft, brittle, and dles, pretty much refembling Mineral Cinna-

This Butter of Antimony is a strong Cauaffur'd me, that the Quality of this Medi- flick, but its principal Use is to make the cine is quite alter'd by keeping : For where- Angelick Powder, as will be feen hereafter ;

made use of fometimes in the Small Pox, from fix to fifteen Grains.

The best Butter of Antimony is very white, and perfectly like to white Sugar-Candy; it ought to be as dry as possible, and for that Reason kept in a Bottle well stop'd.

The Cinnabar ought to be chosen in little Pieces, red, and as full as possible with those Strie, or little Needles; that which is blackish is to be rejected.

Of the Powder of Algarot, or Mercurius

The Powder of Algarot, or the Emetick or Angelick Powder, fo call'd, is a white Powder made with Butter of Antimony diffoly'd and thrown into warm Water, and feveral Times wash'd, and then dry'd, and so kept in a Glass Vial for Use.

This Powder is a very good Purge; the Dose from two to eight Grains in Broth, or any other Liquor. This Powder ought to be very white, and made with the coagulated Oil or Butter of Antimony; that is to fay, with that which was made of the Regulus, as we shall see hereafter; for when the Emetick Powder is made with the Butter, which was made of Crude Antimony, it is by no Means fo white as when with that which was made of the Regulas.

Of Bezoar Mineral.

Bezoar Mineral is made of Butter of Antimony, prepar'd with Spirit of Nitre, and by this Means reduc'd into a white Powder, to which are attributed the same Virtues as to the Diaphoretick Antimony, which therefore is by many us'd for it, but ought to be avoided. Its Dole is from fix to twenty Grains.

Of the coagulated Oil of Antimony.

The coagulated Oil, or Butter of Antimony, is made of the Regulus of Antimony, and Sublimate Corrofive; which, by Means of the Fire, are reduc'd into an Oil, and of the Confiftence of that we spoke of before. Note, When the Oil is come over, if you encrease the Fire, and take away the Recipient,

the Cinnabar is sudorifick, wherefore 'tis and put another in its Place with cold Water, you'll have a very good and beautiful running Mercury:

> This Oil is very corrofive, and ferves to confume fungous Flesh; 'tis of this Oil you ought to make the Powder of Algaros and Bezoar Mineral.

Of the Caustick Oil of Antimony.

The Correlive Oil of Antimony is made of Powder of Antimony, Spirit of Salt, and corrofive Oil of Vitriol; out of all which, by the Means of Fire, is drawn a whitish Liquor, to be kept for Occasion; it is of use in carious Bones, being a strong Escharotick; also for Gangrenes, and to deterge old Ulcers.

This Liquor is not, properly speaking, an Oil, not being at all fat. One may also draw another Liquor from Antimony, with Antimony and Sugar-Candy.

Of the Tincture of Antimony:

The Tincture of Antimony is made of Salt of Tartar and Antimony, disfolv'd or melted together; from which, with Spirit of Wine, is drawn a red Liquor, efteem'd a very good Antifcorbutick; as also to be good against hyfterick Vapours in Women, as well as the scorbutick Itch. Dose from four to twenty Drops.

Of the Magistery and Precipitate of Antimony.

This Precipitate is made of a very fine Powder of Antimony and Aqua Regia mix'd together, and afterwards thrown into an Earthen Pan of Water, and the Powder found at the Bottom, is to be dulcified by Washing, and is properly the Sulphur of Antimony, being inflammable, like common Sulphur : Its Use is in Apoplectick and Paralytick Cases. Dose from two to twelve Grains in some convenient Vehicle. Besides this Sulphur of Antimony, there is moreover another call'd the Golden Sulphur of Antimony, which is made of the Scorie, or Drofs of the common Regulus of Antimony, without Mars; from which, being boil'd in Water, filtrated and precipitated with Vinegar, you will have at Bottom a red Powder, which when dry'd serves to provoke to vomit. was made all of Iron, suspended in the Air : The Dose whereof is from four to fix Grains that I enlarge not more upon the Chymical Process, fince it's hardly to be allow'd Merchants fo to do; and feeing Mefficurs Charas, Glacer, and Lemery, have so amply done it already.

2. Of the Load-Stone.

THE Load-Stone, according to fome Authors, is a black Mineral Stone, and is endu'd with furprifing Qualities; fuch as Directing its Poles towards the North and South, its Attracting Iron or Steel, and the Communicating its Virtue to it by the Touch. It is found in almost all Sorts of Mines, more especially in those of Copper and Iron, of whose Nature it participates. A good Load-Stone is very folid, not porous, nor very heavy, and of an homogeneous Substance, of the Colour of Water, or a thining Black, and to direct its Poles North and South, and and sometimes of a Grey or obscure Blue, to have the same Declination as the ordinary inclining to Red, Observe that the Virtue which the Load-Scone communicates to Steel is loft when the Figure of it is alter'd, whe- after amongst the Ruins of old Buildings, it ther it be with a Hammer or one's Fingers, as may be seen with a straight or crooked Needle, after it has been touch'd, as Father Grimaldi takes Notice of in his Phyficks. The Load-Scone that attracts Iron very forcibly, is call'd a generous or noble Stone. The Way of keeping it is in a dry Place, wrap'd in scarlet Cloth, or rather to preserve its Virtue, to hang it up by its Equator, with a Cat's Gut, that it may have its free Tendency to the South. If it chance to fall it loses fomething of its Strength for a While : Its Poles are found by applying to it a common Needle; for the Pointing of the two Ends shews the Places of them. It is said this Stone Place. There is a third Sort, but very rare taken inwardly intoxicates and renders stupid; and that its Antidote, or Counter-Poi- or the White Load Stone. There is moreson, is Gold or Emral'd Stone. Matthiolus over a fourth Sort, very frequent and comtells you, that red Brass melted with some mon amongst us, being no better than a of this Stone becomes as white as Silver, af- Sort of Drois of Iron, but what is commonter the same Manner as Copper does of a ly sold. as well because the true black Ethiogolden Colour, with Lapis Calaminaris. pick one by Reason of its great Excellency, Pliny says Dinocrates the Alexandrian began is so scarce, as that we cannot shift without to vault the Temple of Alfinoe with Load- it, especially those that go to Sea, because it Stone, in order to have his own Statue, which always tends towards the North, and shews.

The same Thing, and with the like Truth, in Broth or Pills. Let it not seem strange has been affirm'd of Mahomet's Temple: It is call'd in Latin Magnes, from a Shepherd nam'd Magnes, that happen'd todiscover it upon Mount Ida, by hitting upon it with the Iron of his Sheep-crook, according to Nicander: It is also call'd Lapis Lydius, or Heraelins, because found in Heraclea a City of Magnesia, which belongs to Lydia: In French it has the Name of L'Aimant, from its Love or Attraction of Iron. It is besides call'd Lapis Herculis, because it directs to find out the Ways, over which Hercules, by Antiquity, was faid to be the prefiding Divinity: And, lattly Sideritis, from its Adhesion to Iron, which the Greeks call Syderos.

Besides the fore-mentioned Sort of Load-Stone, the Abbot de Vallemont, in his Treatife, tells us of another, which he found upon the Top of Chartres Sceeple in the Year 1691, and which he had experienc'd to attract Iron, Load-Stone. It were to be wish'd therefore, that it cou'd be oftner met with and fought certainly being of a very extraordinary Nature. Mr. de Vallemont has shewn me one of 'em of a surprising Excellency and Force, in attracting Iron of a great Weight. I wou'd willingly enlarge upon this Sort of Load Stone were it more common, but it is very scarce; and fince the King has had one presented to him, it is sought after with great Diligence, therewithal to adorn the Cabinets of the Virtuofos: However, I refer the Curious to Mr. Vallemont's aforesaid Treatise, who has oblig'd the Publick with the Description of this Load-Stone, and explain'd how it was form'd by Nature in the foresaid alfo, which is what we call White Calamin,

the Pilots where they are. The White Magnet also, being of great Virtue, is much fought after, but feldom met with; and in its Place is fold a worthless Sort of Marle, or white Earth, found flicking to the common Load-Stone, but eafily diftinguish'd from the true White, which is of a Sort of greyish White, ponderous, and attracts Iron as forcibly as that of Ethiopia, which that which is fold for it cannot do ; besides, the Cheapnels sufficiently argues its being spurious; we therefore are oblig'd to content ourselves with fuch as are brought from divers Places, particularly from Auvergne, which we can hardly get ten Groats a Pound for; much less cou'd we be able to fell 'em at the Price of genuine Stones, which some have exchang'd for their Weight in Gold; but tho' we find much Fault with what we fell 'em, it does not follow but there are some good, though in Truth you'll scarcely meet with above ten amongst a Thousand. However, those of ours that can raise small Needles, or make the Filings of Iron move upon a Plate, by only paffing the Stone along underneath, without Touching it, or has Force enough to make Steel-Duft flick to, when thrown upon it, may very well ferve for any medicinal Use, and for the Emplastrum Divinum, which is its chief Use therein.

Magnes Lapis Heraclius, Lapis Lemery. Syderitis, Lapis Nauticus, or the Load-Stone, is a Compact, hard Mineral Stone, pretty heavy, and of a black or brown Colour, or obscure Blue, which is found in Iron or Copper Mines. The best is found in India and Ethiopia; but it is likewife brought from Italy, Sweden, and Germany; it has a great many excellent Properties, both for Travellers and Artifts, which are too redious to relate. The most valuable Magnet is that which attracts the greatest Weight of Iron. I have seen several Times a Load Stone no bigger than a common Apple that wou'd attract and fulpend a Bar of Iron that weigh'd twenty-two Pounds: This Stone was fold for a hundred Piftols.

They make the Load-Stone one of the Ingredients in the Composition of Plaisters appropriated to Wounds that are made with a Sword, where they think some Pieces may be left behind; for they believe that the Load-Stone which is in the Plaister, attracts and

draws the Iron out of the Wound, tho' all the Virtue in the Load-Stone cou'd never produce this Effect: For first of all, being powder'd finely, as it ought to be, it loses all its Force of Attraction: And, secondly, being mix'd in the Plaistet, tho' its Virtue shou'd remain, it wou'd not have Power to act, being confin'd by the Viscidity of the Gums and Rosins. There is a white Load-Stone, but it is very scarce; it ought to be of a greyish White, heavy and attractive. All these Stones are aftringent, and stop Blood, outwardly apply'd.

3. Of Natural Cadmia, or Calaminare Stone.

CAdmia, or Calamine Stone, or Lapis
Calaminaris, is a Mineral, whereof there are two Sorts, grey and
red.

The First is not unlike grey Bole, only 'tis harder; it is found in Germany and England, near the Lead Mines, and also near

The second Sort is also a Stone of a reddish Colour, interlac'd with white, hard, heavy Veins, sull of round hard Grains, the Bigness of Pepper: These Stones are found in great Plenty in Berry, near Bourge and Saumur, where there are whole Quarries of them, and are of so little Value, that one may have what Quantity he will for the Digging: They may be had also in many other Places; but since those of Berry aforesaid are as good as any, 'tis not worth While to have them brought from more distant Places.

This Stone is of some small Use in Medicine, in some galenical Compositions, for which it ought to be prepar'd upon a Porphyry, and made into Troches, with Rose-Water, and is what the Apothecaries call Lapis Calaminaris.

As for the first Sort, how genuine soever, it is of very small Use in Physick; its chiefest being to turn red Copper into yellow, which is call'd Leton, or Yellow Braft.

Cadmia, in Arabick, Clinia, vet Chilimia, in English, Cadmy, Lemery, is a Mineral Substance, whereof there are two general Kinds, one natural, and the other artificial; the Natural is metallick as Cobalt, or not metallick as Lapis land, and are of two different Sorts; the Calaminaris: The Arrificial is a Kind of one good, which is pretty tender, fost and Scoria, which is separated from the Metals casie to saw or cut into Crayons; but the in the Founders Works, when they make other not worth any Thing, is hard and Leton, Pompholyx, or Tutty.

4. Of the Hematicis, or Blood Stone.

HE Lapis Hematitis, or Blood Stone, is a Mineral of a reddish Colour, hard, ponderous, with long pointed Needles, very dangerous to fuch as are prick'd by them.

This Stone is brought us from many Places, there not being any Iron Mines wherein

they are not found.

Choose as near as you can those Scones that are of the highest Colour, with fine Strie or Needles, as much like Cinnabar

as may be.

This Mineral has little Use in Medicine. Mr. Charas observes in his Pharmacopara chymica, Page 823, that if you drive it over the Helm, in a Retort, with Sal Armoniack, you may draw Flowers of the Colour and Smell of Saffron, which is what they call the Flores Aromatici Philosophorum: And moreover you may make with it a chalibeat acid Spirit, and with Spirit of Wine a Tincture and Flowers; both which have great Virtues, according to the afore-mention'd Author, to whom I refer you.

Tis said this Stone has a Sovereign Virtue to stop Blood, from whence it derives its Name of Lapis Hematitis, or the Blood

This Stone being powder'd, as is faid of the Load-Stone, enters the Composition of fome galenick Medicines: Also those that work in Metals, or in quest of the Philosophers Stone, make use of this.

Goldsmiths, and those that gild in Gold, use it too, to polish their Work, whether it be in Silver, Copper, Iron, Wood, or the

There is also another Sort of Blood Stones. call'd Red Pencil, us'd by luch as defign and draw Sketches, and like to those of Spain, with this Difference, that they don't appear fo sparkling with Needles, but dull and unpolish'd, like Earth.

Thele Crayons are brought us from Eng-

gravelly, and will not admit of cutting.

Hamatitis, Lapis Sanguineus, or the Blood Scone, is a hard, folid, Lemery, heavy Stone, participating of Iron, dispos'd like Needles, of a reddish brown Colour, but becoming red as Blood, according as it is reduc'd to Powder; they take it from the Iron Mines. The best and most esteem'd is that of Spain, which is clear, heavy, hard and folid, in fine Shoots of a reddish brown Colour, with Streaks that are blackish without, and resembling Cinnabar within; it is very aftringent and drying, ftops Blood, and is given internally, as well as externally, in fine Powder: The Dose from fifteen Grains to a Dram. There is another Sort of Blood Stone brought from England, call'd the Bastard Hematitis; it differs from the former in that it neither shoots into Needles, nor is so hard : Chuse such as is of a brownish Red, weighty, folid, and fmooth; it is aftringent, and is call'd Hamatitis from aua, Blood, because being powder'd it is of the Colour of Blood, and stops Bleeding.

5. Of Spanish Emery.

E Mery of Spain is a Marcafite or ftony Mineral, with Iwall Veins of Gold running through it, which is found in the Mines of Peru, and elfewhere: 'Tis of much Account amongst those that feek the Philosophers Stone, because of these golden Veins that adorn it; and 'tis at this Day so valuable and scarce, that those that have any of it may fell it for its Weight in Gold; and therefore the King of Spain has forbidden the Exportation of it out of his Kingdom, which is the Reason 'tis so very scarce to be found. This same Emery is of little or no Use in Physick, tho' Mr. Demenve fays it is of a corrofive and cauftick Qua-

There are, besides this, two other Sorts of Emery, one whereof is reddiff, and found in Copper Mines, as well in Sweden as other Places, and is what some sell for E-

from it, being more rough, folid, and hard, of a fine red Colour, but not vein'd with Gold.

The third Sort is that which is commonly used, especially by Armourers, Cutlers, and in thort by all those that work upon Iron or Steel, there being nothing that polifies like to pounded Emery. It also is us'd in polishing Steel looking Glaffes, several Sorts of Stones, and upon a great many other Occa-

fions in the Mechanick Way.

The common Emery is brought to us from feveral Countries where there are Iron Mines, and likewife from England; and there are none but the English that trouble themselves about grinding or pounding of it in Mills, which serve only for this Purpose, or to grind Stones of a like Nature; for this ordinary or common Emery is so hard, that whoever wou'd pretend to powder, or beat it in a Morrar, wou'd be apt to make Holes with the Pestle in the Mortar : And as this Mineral is made much use of, especially in Powder, that ought to be chosen which is like Pepper, pure and clean; if in Stone let it be as bright colour'd, and as free as you can from Spar.

Emery cuts Glass as the Diamond does, but makes no Impression upon Diamonds as it does upon other precious Stones. It is faid, if melted with Lead and Iron it encreases their Weight, and hardens and makes em become red, which I have not experimented. Some also mix Emery with the fost pale Madagascar Gold, but it must be that of the second Sort, which comes from the Cop-

per Mines.

It is made use of also to cut and divide Marble. They affirm likewife that it becomes an impalpable Powder if put into Brandy or Spirit of Wine, which I cannot vouch for, having never try'd it; that which falls from the Lapidaries Mills, and looks no better than Mud, is by some made up into Balls, and fold to feveral People under the Appellation of the Putty of Emery.

Smyris Lapis, or Emery, is a Kind of Marcalite, or very hard Lemery. Stone, whereof there are three Sorts; the first and most esteem'd is call'd Spanish Emery, because it is found in the Gold

mery of Spain, but easily diftinguishable and Silver Mines of Peru, and several other Parts of New Spain; it is reddiff, mix'd with Streaks of Gold and Silver. This Kind of Emery is very scarce, for because of the Gold contain'd in it, the King of Spain has forbid the Transportation of it. The Second is smooth, and red, but has nothing of Gold or Silver in it; it is found in the Copper Mines. The Third is common Emery, whole Colour is blackish, it is got in the Iron Mines; they powder or grind it in England, by certain Mills made for the Purpole, which they cou'd not do in Mortars, because of the great Hardness of this Stone. This powder'd Emery is us'd to polish or clean Arms, Knives, Looking-Gloffes, &c. You must choose that which is in the finest Powder, pure and clean. All these Stones are made use of to cut and polish precious Stones, Glass and Marble, and are of no Importance in Physick, except only that they may ferve to clean the Teeth. What falls from the Lapidaries, in working with this, they dry and call Putty of

6. Of the Magnefia.

Magales, Magnesia, Magne, or Magnes, is a Mineral pretty Pomes: near approaching to Antimony, only it is fofter, and brittle, like Free-Stone,

and not so brilliant as Antimony.

There are two Sorts of Magnefia, grey and black; the former is very scarce, and so not much in use, but the Black very much, as well by Enamellers, as Potters and Glass-Makers, who purifie and whiten their Glass, by putting in a small Quantity of it; whereas shou'd they add too much it would be of a blue and purple Colour.

We have it from many Places, as particularly from Piedmont, where it is found in the Mines in Pieces of different Figure and Bigness; as to the Choice of it, let it be as brittle, as sparkling, but as little attended with Spar, or other extraneous Bodies as may

Monfieur Furetier affirms Magnefia to be the fame Thing as Safre or Perigueur, both which I am going to treat of, and first of Perigueur.

T. OF

7. Of Perigueur.

Pomet. PErigueur, or Perigueux, is a Mineral, or black Stone, like heavy black Coal, hard to be reduc'd into Powder.

Enamellers and Potters make use of it. There needs no other Choice about it than to see that it be pure, and clean from Impurities; for if there be any other Mineral mix'd among it 'twou'd spoil all, therefore they that sell it to the Workmen, must take the same Care as they do in Lead Oar.

The Perigueur which we fell at Paris is brought us from Dauphiny and England.

Lapis Petracorius, Perigord, or Lemery. Perigueux, is a Kind of Marcasite, or hard Stone, that is heavy and solid, black as Coal, difficult to reduce to Powder: It is met withal in several Mines of Dauphiny, and in England, from whence it is brought us in Pieces of different Sizes; the Enamellers and Potters use it: You ought to chuse it pure and neat; it is detersive and aftringent.

8. of Safre.

Pomet. Safre, or Zafre, is a Mineral of a bluish or Partridge Eye Colour, which the English, Durch, and Hamburgers, bring us from the East-Indies, and especially from Surae.

Most of the Safre we have is in a grey Powder-like Ashes, from which it so little differs in Appearance, that we are forc'd to consult such as are vers'd in its Qualities ere we can well distinguish.

There are two Sorts of Safre, the fine and the common; the former is in a bluish or cineritious Stone, the latter in Powder; and very often so bad, that 'tis hardly good for any Thing, and being so very weighty must needs be mix'd with Spar, the other being much lighter.

Safre is much us'd by Delf Ware and Glass-Makers, to give a blue Colour to both Sorts of Ware: 'Tis also with Safre that they colour calcin'd Pewter, in order to make the sa e Stone, which I've noted in

the Chapter of Enamels: and lastly, with Safre, it is that the azure Colour of Glass is produc'd, as is before observ'd, and of which is made the counterfeit Saphirs.

Saphre, Safre, Zafre, or Saphire, is a Mineral whereof there are two Lemery. Kinds; one call'd Fine Saphire, and the other common: The fine Saphire is a pretty foft Stone, of a bluish Colour; the common Saphire is a greyish, heavy Powder; both Sorts come from India. The fine Saphire is us'd to give a blue Colour to Enamel, to Earthen Ware, and Glass; to make an Azure; they likewise colour counterseit Saphires with it, whence it takes its Name.

9. Of Rusma.

Rush is a Sort of Mineral, in Colour and Figure resembling Pomet. the Dross of Iron, found in great Plenty in Galatia, call'd at this Time Changer: This Mineral is in such Vogue amongst the Turks to take of Hair, that those of all Ranks use it, by which the Grand Signior has an Income of 30000 Ducats per Annum. This Depilatory is very little used in France, but I'm sure if 'twas better known' twou'd be preserr'd to Lime and Orpiment upon that Occasion, it being stronger and more efficacious, if there be no Danger in it.

Rusma is a Mineral that is like the Dross of Iron, both in Colour and Lemery. Figure; there is Abundance of it in Galatia; it is a Depilatory very much us'd by the Turks.

10. Of Orpiment.

ORpine, or Orpiment, is a Mineral commonly tound amongst Copper Mines in Stones of different Bignes, Colour and Figure; some being of a golden, others of a reddish, and some of a greenish Yellow, and sometimes also almost quite red; which last proceeds from the different Degrees of Heat in the Bowels of the Earth where 'tis form'd. The Mines of Copper in which this Orpiment is sound are never without some little Gold; and for that Reason those that work in them don't fail to

make Separation of it after the ordinary Me- be done. Mr. Morin being a Man of too thod.

The Yellow Orpine is found to be of different Colours, wherefore 'tis that the Dutch and English send it to us in such Variety of Forms and Figures, but the best and most valuable is in thick Pieces, and in handsome bright Scales, gilt, as it were, with Gold, and which easily exfoliate, that is to say, which without much ado are separated and divided into thin Laminæ or Scales, gliftering like Gold.

A second Requisite in the Yellow Orpine is, that it be half yellow, half red, that is full of reddish Veins; so that which is in small Stones, and of a greenish Yellow, is utterly the common or factitious White Ar-Earth, as well as that which is in Powder.

Orpiment is made much use of by Persons of feveral Professions, especially at Roilen, to dye their Wood Yellow, of which they make Combs and fell 'em for Box : Farriers use it upon several Occasions, as also Painters when it is ground; 'tis one of the greatest Poisons we have, therefore we ought to take Care to whom we fell it,

'Tis this same reddish natural Orpiment, which ought to be denominated the Sandarach of Greece, and not the following, as most Authors have written; for the red factitious Orpine is made of this, as I'm going to make appear.

Of Red Orpine, or Ratsbane.

Red Orpine, which we ordinarily call Red Arfenick, as Mr. Morin, a Phylician of the Faculty of Montpellier, has affur'd me, is made of the yellow Orpiment, as it is drawn out of the Mines, by heating it in the Fire 'till it has acquir'd a red Colour; and afterwards putting it into a Crucible with Linfeed Oil, or Sallet Oil, or Nut Oil, evaporating the Oil; then adding more, and proceeding after the same Manner till the Orpiment becomes vitrified, and fit to be cast into Moulds of the Form of a Cake, and reduc'd to a Stone as we see it: This Procels feeming very feafible, I was willing to attempt, but could not succeed in it; for the Orpiment, instead of Red, became calcin'd and white, altogether like Plaister: But tho' I could not, yet I won't fay the Thing can't

much Honour to affirm a Thing he did not certainly know to be true.

Yet however this be, Orpine or Red Arlenick ought to be chosen in thick heavy Pieces, and as high colour'd as possible.

Red Orpine is but little made use of, except when ground into a fillamot Colour by Painters.

11. Of Natural White Arfenick.

WHite Natural Arsenick is a Mineral pretty much refembling Pomet. to be rejected, being nothing but mere fenick, only it is whiter, and more resplendent, but not fo fealy: This Mineral, or Natural White Arfenick, is found also in Copper Mines, and when Miners meet with it, 'tis a certain Indication to them that Copper is near; it is found generally in the Interstitia between the true Spar and fat Earth, and sometimes it is met with in separate Pieces amongst the dry Clay. This Arfenick is very little known, and little us'd.

Of the White Factitious Arfenick.

Though I have taken some Pains to discover what this White Arfenick that we fell is, yer it has not been in my Power to inform my felf, so that I am forc'd, to rest my self contented, and to fay with others, that it is a Composition of Orpiment and common Salt fublim'd together; which does not fland to Reason, since if it were so, I don't see how the Durch cou'd posibly fell it at the Price they do; for Arfenick, in Times of Peace, at Paris, is not worth above fixteen or leventeen Shillings the Hundred, which wou'd bring Arfenick, and what 'tis made up of to a Matter of a Halfpenny a Pound: But not knowing what to determine in this Matter, I will only remark that it ought to be chosen in thick Pieces, white within and without: Most of what we have from Holland is white and rough without, and if you break it transparent like unto Glass within, which gave Occasion to the Ancients to call it Crystalline Arfenick, which is in mighty Request at this Day with some, but by others undervalued and rejected.

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Arfenick is of some small Use in Physick to may become one transparent Mals, such as perform some Operations, as shall be seen the Artisicial Magnet ought to be. hereafter, but chiefly made use of by Dyers, and in the Country to destroy the Rats and stick, and that it may be prepar'd with a Mice, &c.

Of the Regulus of Arlenick.

Regulus of Arsenick is made of Arsenick, Potathes, and Soap put into a Crucible, and by the Flame of a Lamp melted and caft into a great Mortar; it is much milder than the Arfenick itself. If the Dross of this Regulus is boil'd in Water, and the Liquor filtrared, by throwing Vinegar into it, a yellow Powder will be precipitated, which is call'd the Sulphur of Arfenick, and acts with more Violence than the very Arfenick itself.

Of Caustick or Corrofive Arlenick.

have this Caustick Arsenick in Liquor, 'tis but on a Porphyry. placing it in a Cellar for a few Days.

of Arfenick with Sublimate. This Oil, or gallum, or Red Orpiment. Of this Arfe-Butter of Arfenick, is a very strong Caustick, nick, there are two Kinds, one Natural, and therefore proper for making an Elcar: and the other Artificial: The Natural is But as all Preparations of Arsenick have a that which is calcin'd in the Mine by the pernitions Quality, they are to be us'd with Subterranean Fires; the Artificial, which is of some skilful Person.

Sea Salt decrepitated; and with this, as of the highest Colour, it serves the Painters. fome do affirm, they counterfeit the Venetian Sublimate, which is what we call Smyrna Orpine, because of the Resemblance it has in Sublimate; but not being certain of this, I cannot avouch it for Truth, as I before

'Tis faid this Preparation is a gentle Caugreat deal of Facility; it is an Ingredient in the magnetick Plaister of Angelus de Sala, describ'd in Treatises of Pharmacy by many Authors, such as Monsieur Charas.

Arfenicum, five Arrenicum, or Arfenick, is a Mineral that is Lemery: weighty, thining, brittle, fulphu-

reous and caustick, of which there are three Kinds; one Yellow, one Red, and one White: The First is call'd, in Latin, Auripigmeneum, or Orpiment; this is a yellow thining Stone, taken from the Copper Mines, in Pieces of different Shapes and Sizes: There are feveral Sorts that are dinftinguish'd by their Colours; for one is of a resplendent Gold Colour ; the other of a paler Yellow ; the beautifullest and most valued is in large Corrofive Arfenick is made of Arfenick, Pieces, of a golden thining Yellow; they Saltpetre and Sulphur put into a Mortar to cassly separate by little thin Scales that glit-be set on Fire, as in Preparing a Crocus; ter like Gold. The reddish yellow Orpiwhen the Noise or Detonation is over, and ment receives its Colour from the Subterrathe Whole sufficiently burnt and grown cold, nean Fires that calcine it, it is ting'd from the Mass is to be pulverized, and put anew the Orpin and the Realgal; both which are into a Crucible to be calcin'd. If you wou'd us'd by the Painters, after being finely ground

The second Sort of Arfenick is call'd San-One may draw a Butter, or corrolive Oil daracha Grecorum, Realgal, Reifgar, Ristgreat Caution, and not without the Advice more common, being calcin'd by the ordinary Fire: You ought to chuse the Realgal Calcin'd Arfenick may be sublim'd with that is in largest heaviest Pieces, shining, and This Name of Sandaracha is given to Red Colour with Minium, or Red Lead.

The third Sort of Arfenick is call'd White hioted, when treating of Sublimate Corro- Arfenick, or Simple Arfenick, by Way of Excellence, as being the ftrongest of all: This is a Mineral in large Pieces that are Of the Arsenical Load-Stone. hard, heavy, brittle, very white, shining, or crystalliz'd without and within; there is The Arfenical Magnet is made of Poitou the natural and the artificial Sort; the Na-Antimony, Sulphur, and Crystalline Arle- tural is found in Copper Mines, but is scarce; nick powder'd together and put into a proper the Artificial is made with equal Parts of Veffel that will bear the Fire, that the Whole Orpiment and common Salt mix'd and fub-

lim'd together. All the Kinds of Arsenick are corrosive Poisons, but the most active and dangerous is the White: It does not usually work violently 'till half an Hour after it is taken; because the Salts that make the Corrosion are lock'd up, and naturally setter'd in the Sulphurs, which makes it some Time before they are at Liberty, when they produce great Pains, Instammations in the Guts, violent Vomitings, Convulsions, Restlesses, a general Loss of Strength, and at last Death, if not prevented. The Remedies proper on this Occasion are, melted Fat, Oil, Butter, &c. in order to sheath the Points of the Caustick Salts, and to evacuate upward and downward: Then Milk being taken in good Quantities, sweetens and corrects the Acrimony of the Poisson.

12. Of Sal Gem.

Pomet. SAL Gem is a natural Salt so call'd from its Clearness and Transparency, like unto a precious Stone, which the Latins call Gemma; this Salt is found naturally in the Bowels of the Earth in several Parts of Europe, principally in Poland and Catalonia; and fince I have not my felf been upon the Spot where it is, to confirm the Truth of what I say, it may not be amiss to let you see what Dr. Perou of the Faculty of Monepellier has written to me upon the Occasion, who says; That he was in Poland in the Month of March, 1674, with his Eminence Cardinal Janson, who having the Curiofity to take a View of the Salt Pits of Wilifca, near Cracow, had a Mind to go down into them, which he did on a Herle, as they call it, made for that Purpose, attended by divers of his Servants with Flambeauxs in their Hands; being come to the Bottom, which was very deep, he was receiv'd by the Subterranean Inhabirants which live there with their whole Families, but look extreamly pale, and was presented by them with Beads and Crucifixes, which Dr. Perou afterwards examining by his Taste found them to be a Salt, and to have the same Taste as that which the Druggists call Sal Gemme: But the Cardinal had a further Curiofity, and fo was conducted to the Workmen, who with Chiffels

Rocks as they do Stones out of a Quarry. There were two Sorts of Salt in these Mines, and in the same Veins, the one finer, being more pellucid and transparent, and which they separate from the other of less Value, but which the Poles, and other Northern People use in their Kitchins, and for their Tables; fo that Dr. Perou was able to determine concerning the Pieces of Workmanship that his Eminence had presented him, that they were of the pureft acrid Tafte, and the true Sal Gem us'd by the best Dyers. As to the Salt of Catalonia, hear what Mr. Tournefort, who has been upon the Spot, fays also in a Letter to me. There are four Sorts of Salt in the Mountains of Cardona, a pretty confiderable City in Catalonia; the first and most common is a Fossil Salt, white, and pretty much refembling Sea Salt, only not granulated, but cut out into large Quarters, as we do Stones in our Quarries. The Second is a Salt of an Iron Grey, or Slate Colour, which differs only from the Fossil in that it has a little blackish Earth mix'd with The Third is a red Salt near the Colour of Conserve of Roses, and differs from the other in having a Mixture of Bole, or a Kind of Ruft of Iron. The Fourth is the pureft of all, and indeed the true Sal Gem as transparent and bright as Rock Chrystal. Thele several Sorts of Salts lie in Strata or Beds, in this Mountain, and are very proper for any Ules of Life, and enter or penetrate into the Flesh better than Sea Salt, being not so fix'd and approaching nearer the Nature of Saltpetre. Sal Gem is easily wrought into what Figures you please; and accordingly little Boxes, Beads and Crosses, and other the like Things are made of it; but nothing comes up to the Beauty of a certain Cavern in this Mountain, which is adorn'd on all Sides with most admirable Congelations of this Salt.

The People hereabours affirm, that this Salt grows in its respective Abodes, and the Holes that you empty fill again after some Time, but this wants Confirmation.

Of the several Sorts of Sal Gem which I have spoken of, we deal in none but the best, that as has been said is in thick Pieces, is easily broken, clear and transparent, and for Dyers Use. 'Tis very observable of this U 2

Salt, that it grows red-hot, like Iron in the the Compositions Sal Gem, or Indian Fire, and crackles there but very little; but on the other Hand eafily diffolves, being expos'd to the Air; yet it may be cleans'd from Dirt, by washing it, without Injury. Sal Gem, which some call Fossil Salt, is brought us from many Places, but in greatest Quanties from Poland. Mr. Furtiere and other Authors fay it comes from the East-Indies, and that there is a Kingdom call'd Danzal, which fignifies with them a Country of Salt, and which affords yearly, a Loading for fix Hundred Camels, which in Ethiopia is ready Money. I do not think it worth While to waste Time in controverting what Pliny and others have observ'd concerning this Salt, when they tell us that in Carrbos, a Town of Arabia, Houses are built of that Salt, and Water is us'd instead of Mortar to bind the Salt Stones, or that the Sea derives its Saltness therefrom, &c. I must not here forbear to relate that there are Vegetables of Salt produc'd in the Mine, infomuch that Mr. Tournefort has a Vegetation of Fossil Salt as white as Sugar, almost two Foot high, like a Shrub, growing out of a Root of the Sefeli (Hartwort) of Marfeilles, which without all Peradventure is one of the greatest Curiofities in all Europe.

Sal Gemmeum, Sal Fossile, or Sal Lemery. Gem, is a Mineral, white and crystalline Salt, which grows in Form of Stone, or a Rock, in several Mountains in Catalonia, Poland, Perfia, and the Indies; this Salt being broken, is shining and transparent as Chrystal. They say that certain People of the Indies, which inhabit in the Countries where it is not mer withal but sarely, build transparent Houses with Sal Gem, which they work like Stone. The Tafte of Sal Gem is like that of Sea Salt, but a little more penetrating; they use it with their Mear. Out of the salt Waters of their Springs and Pits, in the French County and Lorrain, they make Sal Gem; they evaporate these Waters to make the Salt which they use in those Countries as we do Sea Salt. There is made by Distillation of Sal Gem an acid Spirit, altogether like Spirit of common Salt. Sal Gem is incifive, attenuating, penetrating, refolving, aperitive, laxarive, proper in the Colick, and to open Obstructions: They substitute in Salt, call'd Sal Indum, which some believe to be a Kind of Mineral Salt, and others

12. Of Sea Salt.

SAL Marine, or Sea Salt, is a Crystallization made of Sea Pomet. Water, perform'd by the Sun, and reduc'd into Grains of a cubick Figure, as Monsieur Des Cartes has made appear. As to its Origine, some will have it to proceed from the above-mentioned Fosfil Salt, or Sal Gemmæ; but fince I cannot decide this Affair. it may not be amiss to transcribe here what Monfieur Lemery has written concerning it, P. 345.

Sea Salt is made at Rochel in the Salt Marshes, which ought to lie a little lower than the Sea, and to be of a Clay Mould to retain the Salt Water that is drawn off into em; so that all Places that are contiguous to the Sea, are not fit for the Purpofe.

When the Season begins to be hot, which usually happens in the Month of May, the Water that has lain in the Marshes to be preserv'd there all the Winter, must be drain'd off; then the Sluices or Dams are to be open'd to let in what Quantity of falt Water you please, which must be contriv'd to pass through many different Channels, where it is purified and becomes hor; then 'tis convey'd into plain level Places, in order for the Salt to cream. This Salt does not shoot throughly, but during the excessive Heats, the Sun evaporating some Part of the Humidity, and the Breezes from the Sea, which happen after the Heats, by their Coolness condensing and crystallizing the Salt.

But if it shou'd chance to rain during this Process, only two Hours, there wou'd be no making Salt again in fifteen Days Time, because the Marsh must be made clean, and all the old Water taken out, and other new let in in its Place; fo that if it rains but once in all the fifteen Days there's no making Salt after this Manner.

Besides the aforesaid Sea Salt, there is the White Salt of Normandy, which they make with Water out of a Sort of Mud or Sand that the Sea throws up in the Summer, and upon



Of Spirit of Salt.

upon which the Sun has shone some Time; and when the Water is sufficiently impregnated with the Salt that it will dissolve no more, which is found by the Swimming of an Egg in it, (for every Body knows that Water can be charg'd but with a determinate Quantity of Salt or Sugar) then the Water is to be strain'd or filtrated through Straw; and when it is very clear to be put on the Fire and boil'd 'till it comes to a Skin, and afterwards put into Baskets to reduce it to what we see it. The more this Salt is wrought, the whiter, pleafanter, and better Quality 'tis of; its constant Softness is besides very peculiar to it, as well as its growing the more infipid the longer 'tis kept. There are still other Sorts of Salt in France, as that of Lorrain, which is made with falt Water cast upon hot Plates of Iron; that of Franche Comté, and many more; which I forbear to speak of, not having any Commerce in them.

Of the Purification of Sea Salt.

To purifie Salt, it ought to be diffolv'd in Water, and the Diffolution filtrated through brown Paper, then the Humidity to be evaporated in an Earthen Pan, and so there will remain a very white Salt; but it will be purer and better, if instead of evaporating, all the Humidity, Part is left to crystallize in a cool Place; for at the Bottom of the Veffel is found the finest Salt, which may be separated from its Moisture and dry'd; then ought Part of the falt Liquor to be evaporated again, and having put the Vessel into a Cellar, let it crystallize; thus must you continue to evaporate and crystallize, 'till at last all the Humidity must be evaporated because it will not shoot into Crystals any more; the Salt that is behind being fill'd with an oleaginous or bituminous Matter that hinders into Loaves like to those of Sugar, it must be put into Moulds when 'tis a little more evaporated to a Skin, and after it has lain a little to coagulate and stiffen, it must be put into a Stove to dry it perfectly. This Salt, well purified, differs not in Appearance from double refin'd Loaf Sugar.

Decrepitated Salt is a Sea Salt calcin'd by the Fire, which ferves for many Purpoles.

Spirit of Salt is an Ambre-colur'd Liquor drawn from dry Sea Salt, by the Affiftance of dry'd Potters Earth, a Retort and Fire. The best Spirit of Salt we have comes generally from England, and if 'tis good must be void of Flegm, that is faithfully and carefully prepar'd, of a fine yellow Amber Colour, and of a very acid and pungent Tafte. I shall not spend Time, at present, to run through all the Particularities and different Sorts of Spirit of Sale, Monfieur Lemery bath done it at large already, only I must observe of Spirit of Salt, that which is right and good is much in use in many Cases as in Hernia's, Apoplexies, Scurvy of the Teeth, Gums, &c. The Way of taking it, may be a few Drops by its felf, or in Water, or any other Vehicle almost, ad gratum acorem, for cleansing the Teeth, mix it with clarified Honey of Roles. Those that wou'd have a dulcified Spirit of Salt, to be taken in a greater Quantity, may make it according to Bafil Valentine, by mixing Spirit of Wine, and Spirit of Salt, equal Parts, and digesting of them together in a Sand Heat for three Days.

Sal Marinum, Sal Commune, or Sea Salt, is a Salt they make from Lemery.

the Sea Water by Evaporation and Crystallization: I believe that the Origine or Rife of that Salt comes from Sal Gem, and feveral Reasons confirm me in this Opinion; the First is, That Sea Salt is altogether like Sal Gem, or that Salt made from the Springs in the French County, the Pits of Lorrain, and several Salt Lakes in Italy and Germany, whence Salt comes, as all the World know. The Second is, That there is no Salt whereof there is fuch Plenty as of the Sal Gem : It fills not only in Europe Abun-Crystallization. If you'd make the Salt up dance of Mountains of a great and vast Extent, but it is found in almost all the Mines in Egypt and the Indies; and there is no doubt but it is at the Bottom of the Sea, as well as the Earth we live upon, where we meet with Mountains, Rocks and Mines, full of Sal Gem. The Third is, That the Naturalists have at all Times observ'd, that the Waters which pais thro' the Mines of Sal Gem, and are loaded with the Salts, flow by an Infinity of Channels into the Seas drive in the Wavesvince are dry end to horse The Fourth is, That the Sea Salt must ne- such Rapidity and Violence, that they volaceffarily be made in the Land; for if but a little vers'd in Chymistry, one may know that fix'd Salt compos'd of an acid Earth, as the Sea Salt is, cou'd never be evaporated. or perfected in the Sea Water; it wants the Earth to imbody the acid Liquor, otherwise it wou'd always remain a fluid Salt, and never become folid. If we make a chymical Analysis of Sea Salt, one may draw from thence a great deal of acid Liquor, which being separated from the Earth can never gain again its Confiftence of Salt. This Argument being clear and demonstrative, it is likewise plain, that the Sea Salt must receive its Elaboration in the Earth before it is convey'd into the Sea: But as we see no Salt so plentiful in the Earth as Sal Gem, we may well believe it is that which gives a Saltness to the Sea; besides the Salt that we now take from the Sea is entirely like it in Tafte, in Quality, and in Principles.

But I shall propose some Objections made against this; they say that it is difficult to conceive that the Sea which is so large, and of fo prodigious an Extent, shou'd receive all its Saltness from Sal Gem; for the' there is great Quantities of Salt in the Bowels of the Earth, there does not appear enough to falt

fo much Water. To answer this Objection, I say, that the Difficulty we apprehend of the Sal Gem's being sufficient to salt the Sea, proceeds from this, that we do not see the Quantity of Salt Mines, as we do the Extension of the Sea Water: But if we confider that the Earth is full of Sal Gem, or the like, in Millions of Places, and that it discharges itself into the Sea perpetually, there is no doubt but we may have Room to comprehend that the Earth in all its Parts, contains Salt enough in it to make the Sea Salt.

Another Objection they bring is, that according to my Argument the Sea ought every Day to encrease in Saltness, fince it perpetually receives fresh Salt, which cannot be dispos'd of otherwise: I answer, that we cannot perceive any Augmentation of the Sea's Saltness; for if there be a great deal of Salt that is brought into it, there is likewise a great Consumption by Evaporation and the Salt, is an artificial or factitious Salt,

tilize a great Share of Salt that is receiv'd in Vapour, as may be fenfibly perceiv'd by the falt Air we breath in, when upon the Sea, and which contributes much with the Agitation of the Ship towards the Provocation to Vomiting. This Salt is driven by the Winds upon the Shore, where it is useful to make the Land fertile, and by a perperual Circulation it is brought to the Sea again.

In Normandy they make Sea Salt by Evaporating Sea Water over the Fire in great leaden Cauldrons to a Drynels; there remains a white Salt that is less piquant and less falt than that of Rochelle, because of the Evaporation, and perhaps occasion'd from some Particles of Lead that are diffolv'd in it, which has blunted its Points; this Kind of Salt loses its Strength as it increases in Age.

There is a Sale prepar'd by Crystallization at Broilage and Rochelle, besides several other Parts of the Country where there are falt Lakes. The Rochelle Sale is grey because of a little Earth that it carries along with it; it is nevertheless more penetrating, and salter than the white Normandy Salt, which is made by Evaporation, but it is not so piquant as Sal Gem, because of the violent Motion of the Sea Waves which blunts its finer Points. It may be render'd white as Sugar, by diffolving in Water, filtrating the Diffolution, and Evaporating to a Drynels: But as in this Purification we separate it from a great deal of Earth, which made it weaker; it does not by this Means increase its Strength, but on the contrary it is less biting, because that the Fire has carry'd off, or blunted feveral of its more subtile Points. Sea Salt contains a great deal of Acid, a small Quantity of Sulphur and Earth; it is incifive, penetrating, deficcative, aperitive, resolutive; it is us'd in Apoplexies and Convulsions; they mix it in Baths and Suppositories, and being apply'd hot behind the Neck; it rarifies and diffipates Catarrhs.

14. Of Nitre or Saltpetre.

SAltpetre, which the Chymists call Dragon, Cerberus, or the Infernal Pomet. Motion of the Waves that are driven with drawn from several Sorts of Materials, as from

from Earth, from Athes, and also from Pi- Pots and Furnaces of Glais Founders, and geons Dung. I shall not describe here the many different Ways of making Salepetre, feeing they are largely describ'd in the Tranfactions of the Royal Society at London; and also because 'tis easie to see it made in very many Places in France, and especially at the Royal Arfenal at Paris, where 'cis made in great Quantities, and where they divide it into a Matter of half a Dozen Sorts, according as 'tis, more or less purified; but the finest and best is what will hardly diffolve in Water, which they fend in Casks to the Frontiers; and this Saltpetre may be kept almost in any Place without Loss or Decay, but is not at all expos'd to Sale.

Befides the Salepetre of feveral Sorts made in Europe, we have it brought in large Pieces from the East-Indies, sometimes rough and unpolish'd, and at other Times as well purified and refin'd as any whatever: There are moreover other Sorts of Natural Saltpetre, fuch as is found flicking to Rocks and old Walls, in fmall white Crystals, and is what the Ancients call'd Aphronitrum. Saltpetre is made also in Egypt, with Nile Water, after the same Manner as common Salt is made with us at Brouage or Rochelle ; and this same Saltpetre, made of the Water of the River Nile, is that which was fo common in France, about twenty Years ago, and which used to be fold at a cheap Rate to the Whitsters, to blanch or whiten Linnen, under the Name of White Pot-ashes, Alkali, Natrum, or Anatrum.

There is nothing almost has more perplex'd the Ancients, as well as Moderns, than the Natrum of Egypt, even whilst it was the commonest Thing in the World; for at Paris, alone, was confum'd of it more than 2000000 Pounds yearly, without reckoning what the Burchers and Tanners made use of to falt their Skins and Hides, which was the Reason it was prohibited afterwards; and fince it is become so scarce, that at present 'tis at its Weight in Silver, and is also prohibited to be fold by Merchants under large Penal- End, as Mr. Lemery affures us. ties. Some will have this Natrum of Egypt drawn naturally out of the Earth in grey partly volatile, and partly fix'd,

from old Stones, whence it has its Name, and Froth of Glass Metal taken from the that it is either grey, white, brown, or bluish, altogether unsit for Vitriscation, and fit for nothing but to throw to Sheep or Pigeons; but nothing can be more wide of Truth than this, fince the true Salt of Glass is still so common among us, that it's fold not above a Groat or five Pence a Pound, and never given to any Sorts of Cattle or Beaft, but us'd chiefly by Potters, and Dutch-Ware-makers to prepare the Sand wherewith they whiten and varnish their Things; and again Light and Darkness are not more contrary than those two; for the Salt of Glass is in Cakes or Stones, extreamly heavy like Marble, contracting no Moisture by the Air; whereas the Egyptian Natrum is a white Salt in great Crystal weighty Masses, salt and nauseous to the Tafte; and besides casily diffolving into Liquor, when expos'd to the Air, and is of some Use too in Medicine, being an Ingredient of the Lap. Crollii. As for Natural Saltpetre we have but very little of it, and confequently make use of the Artificial or Factitious, which ought to be made choice of, good and well work'd, according to what Degree or Quality it is of; but however, let it be always dry, and as void as possible of Salt. The common Sort, when good, must be as white, dry, and free from Salt as may be; the Refin'd also, the whiter, dryer and more beautiful, long and large Crystals 'tis in, the better, and more valua-

> The Use of Salepetre is very considerable, as well upon Account of the great Quantities employ'd in making Gun-Powder, as that Abundance of Artificers make use of it, and that diverse chymical Preparations are made thereof. This great Consumption is the Reafon why the Sale of it is forbidden to Grocers and others; and that those in and about Paris that employ any of it, are forc'd (under Pain of Confiscation, and a Fine) to buy it at the Arfenal; and even then are not to use it to the Purposes of seasoning Meat, or the like, though it be proper enough for that

Nitrum, Sal Nitrum, Sal Petre, to have been a natural Borax, or a Salt Salepetre or Nitre is a Mineral Salt, Lemery. hard Pieces; some that 'twas the volatile Salt which they make from Stones and Earth upon old Walls, Buildings, and the Urine of feveral Animals, which has lain a long Time on Cellar Floors, or on the Stones: This Salt being form'd by the Acid of the Air, which after it has penetrated and ratified the Stones or Earth, is thus fix'd and imbodied.

Salpetre is separated by Dissolution, Filtration, and Coagulation; they powder grofly the Stones and Earth that have lain a long Time in the Air, or which are taken from old Buildings; they steep this in a great deal of hot Water, in order to diffolve the Salt: They throw this Infusion upon Ashes to make a Lixivium, or Lye; they pals and re-pals the same Liquor several Times upon the Aihes; then being clear they evaporate three or four Quarts of the Humidity over a Fire, then they fer the Liquor to cool and crystallize, taking the Crystals off to dry, and then evaporate almost all the Moisture away, and cool again as before: They take off the Saltpetre that contains a great deal of lixiviate Salt, and which is almost like Sea Salt, only that the lixiviate Salt being Alcali, it changes its Nature because the Pores are fill'd by the Acid of the Saltpetre. The Saltpetre, made by this first Purification, is call'd Common Saltpeter; the last Sort of which ought not to be mix'd with the first, because it is almost fix'd, and consequently not so good.

They purifie Common Saltpetre by diffolving it in Water, filtring the Diffolution. and evaporating the Water over a Fire, 'till there appear a small Scum upon it; then leaving it to cool, without flirring, there will shoot fine, long, white, clear, transparent Crystals; pour off, by Inclination, the Water that swims upon it, and take out the Crystals to dry, evaporating again Part of the remaining Water, and leave it to cool; new Crystals will be form'd, which dry as before; and in fort evaporate the rest of the Liquor, 'till you find nothing at the Bottom but a little Salt like Sea Salt : Repeat several Times the Purification of your Saltpetre after the same Mahner, and every Time separate some of the fix'd Salt; the more it is purified, the finer, larger, more thining and

upon old Walls, Buildings, and the Urine of preferable to Common Saltpetre, and which

The ordinary Saltpetre ought to be chose well purified, in long Crystals, as hath been said, cooling upon the Tongue, and that casts out a great Flame, when thrown upon hot Coals; it is aperitive, resolutive, abates Thirst, provokes Urine, resists Putrefaction, allays the Heat of the Blood, drives forth the Stone from the Kidney or Bladder: The Dose is from half a Scruple to a Dram.

Of melted Saltpetre, or Salt of Nitre.

Sal Nitri is a purified or refin'd Saltpetre melted by the Fire, and Pomet, put into a Skillet, and so reduc'd into Cakes of three or four Fingers Thick-

The Sale of Nitre, made after this Manner, is very little in use, but instead of it is much us'd a Preparation call'd Crystal Mineral, which is made by casting a little of the Flowers of Brimstone upon some of the aforemention'd melted Saltpetre.

Sal Nitri, or saltpatre, is fix'd with Charcoal, and said, when fix'd, to have the same Properties as Salt of Tartar, and that a red Tincture of it may be drawn with Spirit of Wine, like that of Sal Tartari.

of Spirit of Nitre.

From any of the Sorts of Salipetre, by Means of a little dry'd Potters Clay, a Retort and Fire, is drawn a Spirit extreamly strong and violent, but very proper for all Occasions where 'tis requir'd.

Spirit of Nitre, when good, is as clear as Rock Water, and fends forth Fumes continually, if the Bottle is unftop'd. Some rafcally People fell Aqua fortis inflead of it, therefore Care must be taken about it, but 'tis easily diffinguish'd from Spirit of Nitre, by what I have said before, and by the low Price they fell it at; whereas true Spirit of Nitre cannot be afforded under eight Shillings the Pound, or upwards.

transparent are the Crystals, freed from the fixed Salt, and difficult to melt. There is likewise a Natural Saltpetre, sticking against the Covetousness of Workmen that will walls and Rocks in little Crystals, which is





ctures are neither fo good nor fo well fure it is good and genuine.

Spirit of Nitre, being a strong Corrosive, is very feldom us'd internally, wherefore 'tis dulcified, or foftned, by adding as much Spirit of Wine to it; and this is observable in this Mixture, that it wants no Fire to make it; for as foon as those two Spirits come together, there arises as great an Ebullition and Bubbling, as if they were upon a good Fire: In performing this Operation, Care must be taken to avoid the Fumes and Vapours which are very hurtful and offenfive. When this Mixture is become clear, it may be taken a few Drops of it in any proper Vehicle, and is faid to be very good in flatulent and nephritick Colicks. Sal Armoniack diffolv'd in this Spirit makes the Aqua Regia, or Royal Water, so call'd from its Capacity of diffolving Gold, the King of Metals.

Of Aqua fortis.

Aqua fortis is a Spirit drawn from Saltpetre, and German or English Vitriol calcin'd to Whiteness, by Means of some dry'd Earth or Clay, a Retort and Fire.

Aqua foreis, so call'd from its Strength, though it be not so violent as Spirit of Nitre, is very much in Use with a great many Sorts of Workmen, fuch as Coyners, Mint-men, Goldsmiths, Engravers, Cutlers, and Abundance of others, as well as by those that dye in Grain.

The best Aqua fortis we have comes from Holland: Not but that it can be made as good in France; but to fell it a little the cheaper, 'tis not above half deflegmated with us, and confequently not above half fo ftrong as it shou'd be.

With Aqua fortis and Clippings or Fileings of Copper, is made a tecond Sort, as they call it, of Water, of a blue Colour, which Farriers make use of, or otherwise that which the Workers in Silver make with Phlegm of Vitriol, or Spirit of Vitriol, that is made of Aqua fortis, and to which the Name of the Aqua secunda, or second Water is given.

There's no Fear of counterfeiting Aqua fortis, or felling any other Spirit for it, there being none can be afforded at a lower Price.

foreis instead of it, whereby their Manufa- When this Water has no Phlegm in it to be

Of Cryftal Mineral.

Crystal Mineral, which some call Sal Anodinum or mineralis Lapis or Sal Prunelle, is a refin'd Saltpetre melted in a clean Iron Pot, throwing a small Matter of Flowers of Sulphur into it: When it is thus in Fusion, the Saltpetre being throughly melted, and the Sulphur consum'd, let it stand a While, then take off the Scum with an Iron Spoon, and pour out the Saltpetre into an Iron Skillet, or Poringer, to make it thin, after the Manner as we see it. We send to Holland for our best and whitest Crystal Mineral, but it being in little thick Cakes, we have but small Sale or Demand for it, since it's only fit to be fold by Weight, and to those that make use of it themselves.

Cristal Mineral ought to be chosen very white, new made, and thin; and when it is to be retail'd, let it be as dry as you can. That which is made with the pureft Saltpetre is to be prefer'd to that which is made with the common or ordinary Saltpetre, and this is eafily known by its Whiteness, and keeping well. 'Tis a Mistake to believe, as an Author of late observes, that those who hawk Crystal Mineral about the Streets make it up with Alum; for 'tis impossible to make Alum and Saltpetre unite, the Alum becoming immediately a Scum when 'tis thrown into the Saltpetre, as it does with Sugar, tho' 'tis pretended to be made use of to whiten it; fo that those that make Crystal Mineral for Cheapnels must use the common Saltpetre; for 'tis but melting it twice and it will be as white as the other, and the only Difference will be in keeping but a flort Time, which they to their Colt know that buy of those Strowlers. Care must be taken not to wrap it in Paper, which being porous, attracts Humidity, and moistens the Crystal Mineral, and renders it unfaleable; for this Commodity ought not to be maift, or in Powder: Wherefore, by the Experience I have had, the best Assurance you can have that 'tis good, will be to have it made by your

Crystal Mineral is very much in use in Phyfick; it has acquir'd the Name of Sal X Vol. II. Prunelle, Prunelle, 'tis said, from its specifick Quali- tiful, that is to say crystalliz'd, let them disry of curing Inflammations of the Throat, and the Quinfy, which some call Pruna, or Prunella: And according to others, from the effential Salt, which is drawn from the Prunelle, or Sice, refembling Crystal Mineral; or because it is much made use of in inflammatory Fevers, compar'd to a Fire, which the Latins call Pruna; or laftly, because the Germans give it the Figure of a wild Plum.

Of Sal Polychrestum.

The Sal Polychrestum, so call'd from its many and great Virtues, is made of the finest Saltpetre, and Holland's Sulphur, powder'd together, and by Means of a gentle Fire wrought into a very white light Salt.

This Way of making it is very different from that of all Authors that have treated of it, who recommend a Crucible made red hor, by keeping a Fire about it for three or four Hours: I will not fay this Process is not good, but the Impossibility there is of Selling it when 'tis heavy, and of diverfe Colours, is the Reafon why it can't be difpos'd of; and I believe my Merhod will be prefer'd, fince with two lighted Charcoals, and in the Space of one Hour, a Salt may be made both white, bright, and well qualified, also more saleable, and that costs less. And fince I disapprove the Ways of making the Sal Polychrestum hitherto used, it will not be amiss to declare the Manner of succeeding best in it. Take therefore equal Parts of Sulphur and fine Saltpetre, and having heated a Crucible, not varnish'd in the Infide, and plac'd it upon five or fix lighted Charcoals, so that the Bottom be red hot, throw into it a Spoonful of the Mixture of Saltpetre and Sulphur; and when the Detonation is over, and the Sulphur and Saltpetre are sufficiently burnt, another Spoonful in like Manner must be thrown in, and so 'till all is calcin'd; then take the Pot off the Fire, and after it is cool break it, and therein you'll find a Sal Polychrestum, both whire, light, and very faleable, and what I fay frands to

folve it in Water; and after having filtrated and evaporated it to a Pellicle, it must be put in a Cellar, or some other cool Place, to shoot into Crystals; which when dry'd, ought to be in small Plates moderately thick and brillant, or thining like Diamonds, and of a clear White, and folid, that is, that are hard to break; for that which is eafily reduc'd to Powder is not well made.

This Sal Polychreftum crystallized, is preferable to the first Sort, how well soever made, being free from that ungrateful Tafte, and evil Quality, which the Sulphur, that is inseparable from the other, gives it.

In Selling of this Salt there are great Cheats and Abuses committed, instead of which those who trade in it expose to Sale only the Saltpetre itself melted and cast into a Mass like a Stone: But it is easy to discover the Imposture, for as much as the true Sal Polychrest neither cracks nor flashes in the Fire, but will become red hot; whereas the Counterfeit flames and crackles as Saltpetre itself, and is also to be known by its exceeding Whiteness, and the cheap Rate is is fold at.

The Rock or Cryftal Sal Polychreft, that is, as it comes out of the Crucible, was fome Years fince much in Vogue in Phyfick, but at prefent being out of Fathon, (as there is a Mode in Medicine, as well as in every Thing besides) is now feldom made use of; losing, as it were, its Virtues with the Opinion of the World.

This Salt has had the Appellation of fullble Sulphur or fix'd Nitre given it, as Penotus describes at large, and which shews it to be no new Composition, fince it has been known a long Time by the Name of fix'd

Of the Antifebrifick Salt.

The Sal Antifebrilio, or Salt against Fevers, is made of the finest Saltpetre, Flowers of Sulphur, and diffill'd Urine, all mix'd together, proceeding after the same Manner as Reason enough, fince this Salt cannot be is directed in Treatifes of Chymistry, whether made heavy, and in a Mass, but by the great the Reader may have Recourse. This Anti-Violence and Strength of the Fire. They that febrifick Salt is efteem'd an excellent Remedy wou'd be still more curious, and wou'd have for Fevers, taken at the Beginning of the a Sal Polycbrestum purer and more beau. Fit, or upon the Return of it, from eight Grains to half a Dram in any agreeable Dutch make that which they fend us under Vehicle.

Of Nitre Vitriolated.

Vitriolated Nitre is made of Salt of Nitre diffolv'd in Spirit of Vitriol, and then prepar'd; and to which is attributed the same Qualities as to the vitriolated Tartar. Note, It ought to be white, light, and in small Striæ or Needles, like Sal Saturni.

There is also a Sort of Butter prepar'd of Nitre, by the Means of Tartar; the Procels whereof may be feen in Monsieur Cha-

ras's Chymiftry, p. 853.

15. Of Natural Borace.

HE Natural Borace, to which the Ancients have given the Name of Chry-Socolla, or Tincal, is a Mineral Salt of the Figure of the common Sal Gem, found in the Bowels of the Earth in many Places of Persia; and at the Bottom of a Torrent, among the Mountains of Purbeth, in the Country of Radzioribron, that reaches to the Confines of the white Tartary. When this Mineral is taken out of the Earth it is expos'd to the Air, that it may contract a Sort of fat reddish Ruft, which nourishes and preferves it from being calcin'd, as it were by the Influence of the Weather; and when it Salt, by opening it more or less. is as it ought to be, the Perfians carry it for whence the English, Dutch, and We have it; and this is what we call Natural Borace, or the unpolish'd, rough, fat Borace, which some Workmen imploy for the fame Uses as they do the refin'd.

We have another Sort of Natural Borace brought us, which differs only from the Former in that it is a little dryer, and of a grey Colour, which proceeds only from its having been longer expos'd to the Air, whereby the reddish fat Substance, wherewith 'tis covered becomes dry, and like to the English Copperas that has lain a great While above Ground. Those that have Occasion of one Sort or 'tother must take Care that it be not mix'd with Stones, or other fuch Refuse, the Appellation of refin'd Borace.

The Ancients were not out when they faid there was a greenish Natural Borace, of the Colour of a Leek, no more than Agricola, who rightly enough observes, that he had feen a Fossil Nitre, solid and hard, like a Stone, of which the Venetian Borace is made : But the same Author is very much mistaken, when he fays, that then no Borace was in use but the Factitious or Artificial, made of the Urine of Boys that drank Wine, Brass Ruft, and sometimes Nitre beaten together in a Bell-metal Mortar to the Confiftence of an Oyntment; which is far from Truth, fince the Borace he means is only the fat Borace refin'd and thot into Crystals.

Borax, Chryfocolla; Capiftrum Auri. Auricolla, or Gold Flux Powder, is Lemery.

a Mineral Salt that has the Colour and Transparency of Sal Gem, but a great deal more Pungency; it is found in certain Mines of Persia, and several other Places: When they take it from the Earth they expose it to the Air, where it becomes greaty and reddish on its Superficies; this is that which is call'd Fat Borace. This fat hinders the Salts that they cannot be penetrated and diffolv'd, or melted by the Air; there is likewise found a grey or greenish Borace, which Colours proceed from the various Impressions, that the Air being hotter or colder, makes upon the

The Venetians and Dutch purific or refine the most Part to a Place call'd Amadabat, from their Borace as they do other Salts, by diffolving in Water, filtrating the Diffolution, leaving it afterwards to evaporate, and fettling it to crystallize. They bring us this Borace under the Name of Borace refin'd. Chuse your Borace in fine white Pieces, neat, crystalliz'd and transparent. One may, by Refining, separate from Borace a vitriolick Matter, which gives it a great deal of Sharpnels; for which Reason the Refin'd Borace is much softer than the Natural, and ought to be prefer'd in Medicine; it is incifive and penetrating, proper to open the Obstructions of the Glands of the Mesentery, and dissolve the Schirrus of the Liver and Spleen. The Dose is from sour Grains to twenty. They alto use it externally to consume the Excreas it frequently happens to be. 'Tis of either scencies of Flesh. They may draw a Spirit of these Sorts of Borace the Venetians and from Borace like that of Alum, by a very

Landesbibliothek Düsseldorf

strong Fire; it is aperitive, and very like Spirit of Salt: It is call'd Chryso-colla, Gluten Auri, Capistrum Auri, and Auri-colla, because the Goldsmiths use it to flux Gold withal.

Of Refin'd Borace.

As Natural Borace is found of difPomet. ferent Colours, fometimes greenish,
and other While yellowish, the Venetians, who were the first that brought Borace into Vogue, finding it could not be well
made use of with its natural Fatness and
Unctuosity, considered of a Way of purifying of it, by dissolving it in Water; then
filtrating and crystallizing it, in order to
which they made use of Cotton Matches,
upon which the Borace is crystallized, after the
same Manner as Sugar Candy or Verdigrise
does on Sticks or Splinters of Wood.

As for others that don't use Cotton, they reduce the Borace into little Stones of the Form and Figure of the Tag of a Lace or Point; but as this Sort of Borace had a greenish Cast, the Dutch has taken it to Task, and made it whiter and more vendible, and reduce it into larger Pieces, which is what

we fell at this Day.

Borace, whether it be the Venetian, or that of Holland, ought to be chosen clear and transparent, of Taste almost insipid, taking Care that it be not mix'd with English Alum, which is difficult enough to discover, if the Alum has been soak'd in Water, and then expos'd a few Days to the Air, to give it the natural rough Appearance of Borace; but this Cheat may be easily found out, if you'll put it to the Test: For first it will by no Means solder Metals, nor being put upon lighted Charcoal will it swell and heave like Borace, or is it ever altogether so white or light.

Refin'd Borace is much in Use by a great many Sorts of Workmen, and serves as well to solder, as to melt and dissolve Metals: Some use it also in Fucus's; 'tis of some small Use too in Medicine, since tis an Ingredient

of the Ung. Citrinum, &c.

16. Of Alum.

Pomer. Alum is a Fossil Salt drawn from Stones of different Bigness and Colour in several Parts of Europe, especially

in Italy, England, and in France. After Alum is taken out of its Bed or Quarry, as you take other Stones, it is burnt in a Kiln made on purpose as you do for Lime, or the like; and when it is calcin'd, its Salt which is the Alum, is drawn out with Water, proceeding after the same Manner as in making Saltpetre. A certain Person in the World, in the Presence of a Man of Worth, maintained that Urine was made use of instead of Water in drawing this Salt; but fince his Authority was not sufficient to make him credited. I chuse rather to rest satisfied with what Matthiolus, upon Diascorides, has written of it, who having been an Eye Witness of the Fact, has given us an ample Description of it in his Book, p. 733, to which my Reader may have Recourse.

We commonly fell fix Sorts of Alum, to wir, the plumous Alum, or Earth Flax; the Roman, English, Liege, Burnt Alum, and the Sugar Alum; as for the round Liquid and Black Alum I know nothing of it.

Alumen, or Alum, is an acid mineral Salt, made from a Kind of Lemery. Stones of different Sizes and Colours, which are found in the Quarries of France, Italy and England: They calcine this Stone, and then make Alum of it by Solutions, Filtrations' and Coagulations, as they make Saltpetre; there are several Sorts of it, as Roman Alum, Roch Alum, and Sugar'd Alum.

The Roman Alum, or that of Civita Veochia, call'd Alumen Romanum, is a Salt in Stones of a moderate Size, that are reddish within, of an acid stiptick Taste; they use it outwardly for stopping of Blood, and inwardly in Gargaritms for Instammations of the Throat, and to clean the Teeth: They dry it or calcine it upon the Fire to free it from its Flegm, then it is call'd Burnt Alum; this is an Escharotick, and serves to eat away proud Flesh, dissolve Excrescencies, and open Ulcers and Chancres.

Roch Alum, White, or English Alum, call'd Alumen Rupeum, or Rock Alum, is a Salt in large great Lumps, that are clear, white, and transparent as Crystal, which is brought from England, this Alum has the Virtues of the former, but is not so strong. The Dyers, &c. use it. The Alum, call'd Alumen Succarinum, or Sugar Alum, is a Composition

made

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and Rose Water boil'd together, to the Confiftence of a Pafte, and form'd while hot into little Cakes, like Sugar Cakes, whence it woolly, and in a Word, wholly like to takes its Name. Alumen Catinum, or Difh Alum, because it is made in a Platter or Dish, is what we call Pot-Ashes, or the Ashes of Kali calcin'd, or some other Ashes, or Alcali Sale, made from Vegetables; they call it Catinum, because they use to dry it in a Plate or Difh.

Of Plumous Alum.

Plumous Alum, or Earth Flax, is a Mineral found in the Negropont, which some will have to be the Stone which the Ancients call'd Lapis Amiantus; but as I am not fure of the Thing, I will content my felf to fay, that the Plumous Alum which we fell, is a Sort of thready Stone of diverse Colours, but most commonly of a greenish White, in Figure pretty much refembling Venice Talck, excepting only that it is not fo green nor flining; and inftead of parting into Scales, this rifes in white refembling Shagreen. This white Stalk of a Quill, from whence comes its Name; into a long and round Sort of Flax or and accordingly most Part of the Plumous or Feather Alum one meets with, is almost ever in small Fibres, and but little in Stone, proper to spin and make the perpetual Matches. This Plumous Alum, to which some have given the Name of that of Sicily, is of very little Use in Medicine, and at present it is almost of no Use. fince the Secret of drawing it out into Threads, or Spinning it, has been loft : The Cloth made with this Sort of Alum when dirty, to be made clean, needed only to be thrown into the Fire, and it wou'd come out thence as white as Snow; and with this Sort of Cloth did the ancient Romans preserve the Ashes of their Emperours, and separate them from those of the aromatick Wood, wherewith their Bodies were Cotton to make Matches; and to that End like Flax. it ought to be in long Wicks, and as fost as Alumen Plumeum, five Alumen possible. This Alum is a strong Corrosive, Scissile, or Feather'd Alum, is a Lemery. or Escarotick; for what Part soever of the Kind of firingy Talk, like the Body it touches it causes Whelks and Bli- Feathers of a Quill, whence they call it fters, and a most intollerable Pruritus or Itch, Feather'd Alum; it is very soft to the Touch,

made with Roch Alum, Whites of Eggs, by anointing the Part with Oil of Olives. Besides this Plume Alum, we begin to sell a certain Stone Mineral, ponderous, white, Plumous Alum, and incombustible also, wherefore it has obtain'd the Name of Asbeston, which in Greek fignifies Incombustible, and by Corruption we call it vulgarly Albeftes.

This Stone Mineral is found in many Places in France, more especially in the County of Foye in Gascoign, where there are Quarries out of which Stones of a surprising Magnitude are taken, and from which Cotton Threads may be drawn fit to make Cloth, and to endure whitning or cleanling in the Fire, like that of Feather Alum already spoken of. And befides this Albestes, is found in France (particularly about the Pirenees in the Valley of Campan, near the Stone-Quarries, about three Leagues from Grippa) certain Plants about two Foot high, which have Stalks all as it were filver'd over, their Leaves like those of a Nettle, excepting only that they are white underneath, of a dark Green at Top, and soft Threads or Filaments, like the Feathers steep'd in Water, like Hemp, may be run Tow, of which good Cloth may be made that will refift the Fire like Plumous Alum, only it will not whiten so well: And it is to be remark'd, that when this Flax is put in the Fire it immediately grows red, but black if apply'd to a Candle. Perhaps what I fay may not eafily meet with Credit; but fince I have some of it in my Possession, to thew to those who won't believe, and the Person that has collected it is still in Being, and a Man of Reputation and Fidelity, I thought it might not be amiss to advertise the Publick, that Plumous Alum, and what we call the Albestes, are not the only Druggs in Nature capable of enduring or refifting the Fire.

This incombustible Plant might be call'd burnt. Some People, at this Day, also Asbestos, and the Tow that comes of it Inmake use of this Plume Alum instead of combustible Flax, being long, large, and toft,

which is to be appear'd only, that I know of, of a white, greenish, shining Colour, is probes ; hift at mort seales and rabes meaning ben duced duced in the Mines of Negropont; it will any Sort of Filth as may be; also Care must and divide.

Of Alum of Rome.

Roman Alum, which we also call Pomes. Alum of Civita Veccbia, because great Quantities are made in the Neighbourhood of that City, is a Stone Alum of a middle Size, red without, and within clear and transparent, and of a difagreeable flyptick Tafte: This Alum is of a reddish Colour; the Mine from whence it is drawn being of the fame.

throughout, in the Infide as well as on the the English and Liege Alum of a dark Red, but the Cheat is easily discover'd; for if you find it not as red within as without 'tis a Sign it is counterfeited; it ought to be as free of fmall or broken Pieces as possible; which casion for Burnt Alum do not trouble themyet is no Disadvantage to those who use it, selves about distilling, but only put the Alum provided the Alum be pure and genuine, but into a Pot, which they place in the Midst of only to fuch as retail it.

Tanners, and others, that make counterfeit keep it for Use. Pearl, but it ought to be very good for all

Of English Alum.

given the Name of Roch or Rock Alum, White and Glass Alum, is an Alum clear and transparent as Crystal, which is fent us from England in Pieces of different Figure and Bigness; fince sometimes 'tis to be met with it has been more or less purified.

As this Alum is much made use of by feweral Sorts of Trades, particularly by Mint-Men or Coyners, and Dyers; as also for many Preparations in Physick, as will be

neither flame, nor consume in the Fire ; some be had that it be not Liege or Meziere A-Alchymists use it for Wicks in their Lamps; tum, which is greafier and fatter than that 'tis call'd Scissile, because 'tis easie to break of England, and not so sit for Dyers Use, and which they never make use of but for want of the true English. We had not long fince a greenish Sort of Alum, like Saltpetre, drawn from a Stone taken out of the Mines in the Neighbourhood of Soiffons in Picardy; but as this Alum is of no Account, as well by Reason of its ill Looks, as because we continue ignorant of its Virtues, I shall say no more concerning it. From the English Alum is distill'd a clear and acid Water, wich we call Alum Water, and which is us'd as an Ophthalmick for the Eyes; after the Phlegin comes over an acid Spirit, useful in Fevers, Chuse the Romin Alum that is reddish whether continual or intermitting; and also good against small Ulcers or Excoriations in Outfide, because there are some who colour the Mouth, from sour to eight Drops; that which remains in the Veffel being a light white Substance or Mass, is what we call Burne Alum: But as this Water and Spirit of Alum is in little request, those that have Oca good Fire; and when the Alum is become Roman Alum is much in Use with Dyers, very light and white, they take it out and

Calcin'd or Burnt Alum ought to be light and friable, that is, eafily reduc'd to Powder, fo that Care must be taken that it be not fuch as has been pass'd through a Silk Searce or Sieve, which is put into a Bag tied English Alum, to which the Ancients have close, to make it into Stones or Lumps, but this Cheat is eafily discover'd; the Counterfeit Alum, being heavy, extreamly white, more like Paint or Plaister than any Thing elfe, and of a fliptick Tafte.

True Burnt Alum is esteem'd a very good in Lumps as big as a Man's Body, some- Escarotick to eat away proud luxuriant times clear and white as Cryftal, and at other Flesh; Persons of Condition commonly wear Times blackish and moist: In fine, the Glass it in little Bags under their Armpits, and Alum is more or less beautiful, according as their Feet to prevent Sweating, but then it ought to be extreamly Fine.

Of Saccharine, or Sugar like Alum.

Saccharine Alum, because it resembles Sutaken Notice of hereafter; Care ought to gar, is made of Glass Alum, Rose-Water, be taken in the Choice of it, that it be white, and Whites of Eggs boil'd together 'till it clear and transparent, as dry and as free from is stiff; and this Alum fo boil'd, and Book III.

OF MINERALS.

cold it becomes as hard as a Stone.

Some make this Sugar Alum enter the

Composition of their Fucus's.

There is moreover other Sorts of Alum, namely that which is in a white transparent Stone, in every particular almost like the Crystal Rock Alum, and to which the Name of Scayolle Alum is given, or that of Mufcovy Glass, which is found in the Quarries of Pasty, and which after it is calcin'd is of a very beautiful White; but that of it which is counterfeited is more like Plaister, not

bem caft up by the What; and is a Committee by

reduc'd into a Paste, what Figure or Form long fince great Quantities of this Sort of you please may be given to it, and when it is Alum was found in the Clayey Earth of Plasty. There are others that make use of another Sort of Muscowy Glass, which we call Gip or Plaister; Porashes also have obtain'd the Name of Alum Catin, as is observ'd in its

> Some fay the Name of Alum is deriv'd from the Latin, Lumen, which fignifies Light, because Alum gives a Lustre, or Brightnels to died Colours, and that without it there wou'd be no dying or colouring to any

> or are at different Colours, Deings either the Land or Yellow L. Tais Britmers is liquid

Purpole.

BITUMENS or Sulphureous MINERAL

and Archingal of Its Coal, Cannal Coal, or Black Stones, and Sulphur: The fat End of the Third BOOK of MINERALS. ozoka of jest al harla River Manua

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There is moreover other Sorts of Alumy Name of Alum Carin, as is oblery'd in its OK the Fourth, of the Second Volume.

on pleaserness be given to it, and when it is! Alum was found on the Clayer Earth of Partie

Of BITUMENS or Sulphureous MINERALS.

The PREFACE.

HE Word Bitumen, to speak properly, signifies a fat, sulphureous, inflammable Matter, which is found of different Colours and Consistence, either within the Earth, or upon it, or Swimming upon the Face of the Waters : Of these we have several Sorts, some bard, others soft, and some liquid, like Oil. The bard Bitumens that we fell, are the Yellow Amber, Black Amber, or Jet; Jews Pitch Natural and Artificial; Pit Coal, Cannal Coal, or Black Stone, and Sulphur: The foft Sorts are Naphtha, the Bitumen of Colao, of Syrnam and Copal; The Liquid are Naphtha of Italy, and the Petroleum, or Rock Oil; of all which bereafter in their Turns.

I. Of Yellow Amber.

Pomet. W Ellow Amber, to which the Ancients have given the Name of Succinum, or Carabe, is a Bitumen of different Colours, being either White or Yellow: This Bitumen is liquid when 'tis in its natural Place of Production, but as it comes from thence it hardens and becomes such as we see; and as it passes from its Recesses in the Earth in a State of Fluidity, swimming upon the circulating Waters, it is apt to carry with it what is in it's Way, which is the Reason we find many extraneous Bodies in our Amber, which also not hardening all at once, but by Degrees, a great ma-

ny Infects flick to it and there die. Most of the Tellow Amber we have is found upon the Banks of certain finall Rivers, running into the Baltick Sea, in the Ducal Druffia: It is also found upon the Sands, which have been cast up by the Winds; and is a Commodity which brings no inconfiderable Profit to the King of Prussia, for he raises above 20000 Crowns per Annum from these Places where it is found, over and above the great Charge they are at in Securing and Preferving it from others; so that it necesfarily follows, that this same Tellow Amber yields a yearly Rent of more than 100000

What I fay may perhaps feem strange to thosy that don't know the great Use there



is of Amber in China, and amongst the Sava- feited with Turpentine and Cotton, or with ges, as well as in Europe; but the greatest Confumption of it is in Austria, Germany, in Poland, and in the Neighbourhood of Vebrought it into fuch Vogue and Fashion thereabout, there being few People in Lombardy, or all along the Po, but wear Amber Necklaces, believing they keep 'em from Quinzies, and other ill Effects of the Neck and Throat, to which they are very subject, by Reason of the bad Waters they are forc'd to drink in those Parts: And History informs us, that the Romans made fuch Account of it, that Nero caus'd great Quantities of it to be imported; but no where is Amber more efteem'd and valu'd than in Pofome Piece, without Fault or Flaw, being there as valuable, and prefer'd even to Gold; fuch Lovers and Admirers of this Commodity are they. As for France, 'tis by no Means fo much in Esteem there, though 'twas not many Years ago that all People of Quality and Fashion wore Necklaces of it, but at prefent it's become fo vulgar and common, none but Servants make Use of it. Beside the great Use of Yellow Amber for Trinckets, Sc. 'tis of some Use too in Medicine, not only to powder, but to draw a Tincture, a Spirit, volatile Salt, and an Oil, and to make a Varnish with Spirit of Wine.

Amber ought to be clear and transparent, capable of attracting Straws, whence comes its Name of Carabe, which in the Perfian Language fignifies draw Straw. When it is defign'd for any Piece of Workmanship, or to powder, it shou'd be white; but when it is to undergo the Fire, it matters not of what Colour it be, provided 'tis genuine Amber; for there are a great many that fell the Copal of America for it, of which I have spoken above, but it is easily distinguish'd from it, the Copal being in Pieces of the Bigness and Figure of Gum Arabick, and the true Carabe ordinarily in great Lumps, and also most commonly in a Sort of Film or Skin, which ferves as a Kind of Matrix for it; and then again Amber burnt at the Candle fends forth an exceeding strong Smell; and moreover, as has been noted, will attract Straw, which Copal will not do. Some have affur'd me that Yellow Amber is counter-

Yelks of Eggs and Gum Arabick: But as this Sort of false Amber, wou'd be worth lirtle or nothing, I cannot conceive how any nice; and the Venetians were the First that one need fear its being disguis'd with those Druggs.

Amber is powder'd upon a Porphyry, and reduc'd into Troches, which are of fome Use in Physick, particularly to restrain Spitting of Blood, and to stop Dysenteries and other Lasks. Dose from ten to thirty fix Grains in any appropriate Vehicle. Also from Powder of Amber, with Spirit of Wine, is drawn a Yellow Tincture, endow'd with a great many good Qualities, especially in apoplectick and epileprick Fits, and paralytick Cases, taken from ten Drops to a land and the lower Hungary, a pretty hand- Dram in any agreeable Liquor: Some diffolve pure fine Camphir in this Tincture to make what Monfieur Soleyfel calls the Flaming Balfam, and recommends for Wounds, Bruifes, or cold Humours in Horse or Man, which may be feen describ'd in his Book,

> Karabe, Succinum, Electrum, Ambra Citrina, or Yellow Amber, is a Lemery. hard Matter, like a Stone, yellow citron, or white, of a fine, shining, transparent Colour, that is brought from the Ducal Pruffia in Pieces of different Shapes and Sizes: This Amber is thrown by the Waves of the Baltick Sea up the Rivers of Pruffia, especially by certain Winds. They likewife find both the liquid and folid on the Banks of several little Rivers, and upon the Brooks that are about the fame Sea; that which is liquid hardens in a little Time, and becomes folid as the other.

Opinions are divided upon the Nature and Origin of Amber; the Ancients believ'd that it was a Mixture of Gum and Rosin that flow'd from Poplars, Pines, or Firs, which being confusedly carried by the Winds into the Baktick Sea, incorporated with the Salt, and was elaborated or work'd up, and then thrown by the Waves upon the Banks of the Rivers. This Notion is rejected by the modern Authors, who have all writ that Succinum, or Amber, is a Bitumen or Juice of the Earth, which the Sea has rais'd up, and the Waves thrown a Shore about the Ducal Pruffia where it is form'd, and hardens after the Manner we fee it in. I my felf fol-Vol. II.

low'd this last Opinion in my Book of Chy- Circumstance has given Occasion to Natumistry: But as I have been convincid, fince by feveral Circumstances, I have changed my Opinion, and found that the Thoughts of the Ancients, on this Subject, were preferable to those of the Moderns: For first of all, Travellers know that about the Baltick Sea. on the Coast of Sweden, there grows Abundance of Poplars, Pines, and Firs, from which there flows in Summer a great Quanrity of Gum and Rolin, which is partly

blown into the Sea by the Winds.

In the next Place, the Substance, the Co-lour, and the Transparency of that resinous Gum, refembles much those of Amber; for we have Gum Copal brought us that flows from Poplars, in the Antilles Isles, and has no other Elaboration than what it receives from the Torrent of the Water in the Rivers, from whence they take it, as has been faid in its proper Place; and it is so like Karabe, that those who know it not well may eafily be deceiv'd, from whence it is call'd, False or Counterfeit Karabe. Amber, indeed, is something harder, of a higher Colour, more transparent and resplendent than Gum Copal, but these Perfections come from the Salt that is mix'd in it, a long Fermentation and Working it meets with in the Sea, besides the Mixture of the Pine with the Rolins of Poplar, &c. In the third Place the Principles that are drawn from the true Karabe by Chymistry, are likewise those that are taken from Gum Capal, or the refinous

Chase your Amber in fine, large, hard Pieces, clear and transparent, that will attract or draw to itself Straws, and several other little light Bodies, when the Amber is rub'd in your Hand, or otherwise, and apply'd near the fame. The white Karaba is preferable to the yellow, but the Difference is not confiderable: They ale both Sorts to make Necklaces, Braceleis, and little Cabiners, with feveral other Nick-Nacks that are earry'd into Persia, China, Turkey, where the Natives efteem them as great Rarities. They likewise make Amber Necklaces in Aufiria, Gormany, in Venice, and sometimes in France.

In Pieces of Amber there are sometimes found Spangles, Leaves of Trees, or little Infects; as Spiders, Ants, Flies, Go. This

ralists to enquire How these little Bodies become enclos'd in the Amber; and it appears to me that the Difficulty is easie to resolve, fince from the Opinions given, touching the Nature of Amber, it has been thought necesfary to admit that the Substance of it was sometime liquid or soft before it harden'd; that during that Time thefe small Bodies adhered to it, as to Glue, and were wrap'd up in it, or rather were cover'd and enclos'd therein by the Addition of fresh Matter of the same Kind; so that when the Whole was hardned, these little Bodies remain'd wholly

embalm'd, as we now fee them.

The Karabe contains in it a great deal of Oil and volatile acid Salt; it ftops the Flux of the Belly, Hemorrhages, Gonorrhea, and resists Poison: The Dose is from ten Grains to half a Dram; they likewise burn it over the Fire to receive the Fume of it, which checks the Violence of Rheum from the Head, and Catarrhs. Karabe is a Persian Name that fignifies draw Straw; and they have given this Name to Amber, because it attracts Straws, especially when it has been a little rub'd in the Hand. The Reason of that Effect proceeds from this, That the lubtil and inlenfible Particles of the Matter having been put into Motion with some Kind of Heat that follows the Friction, they emit on all Sides their Effluvia, and spatter it in the Air within their Circumference; but as they lofe their Motion according to the Distance they are from their Center, they become so much weaker, and are on all Sides repell'd by the Air, and in their Return they flick by their Viscosity to a Straw, or any other light Body they meet with in their Way, and drag it along with them; the same Effect happens to several other Substances, which are rub'd after the same Manner as Wax, Suet, and divers Gums; this is call'd Succinum, from Succus, because it is suppos'd to be the Juice of the Poplar, or of the Earth.

Of the Spirit and Oil of Amber.

From Amber groffy powder'd, put Pomer. into a Glass or Earthen Retort, may be drawn a reddish Spirit, and greenish ferid

The

The Spirit of Amber is efteem'd an excellent aperitive or deobstruent, and very good against the Scurvy, taken in any Liquor, from ten to twenty-four Drops.

As for the Oil it is chiefly in Use to allay and drive down Vapours, being put upon Silk or Cotton, and rubbing the Wrists or Pulse, and the Nose therewith. If you'd have this Oil of a fine clear reddish Colour, you have nothing to do but to mix with it a little Earth or Sand, and to distil it again.

Those that won'd have a volatile Salt, or Spirir, or Oil of White Amber, may perform all the three Operations very well, with a Glass Retort, and a Sand Heat: As for the volatile Salt, if you find it not good and fine enough, you need only put it into a small Vial, or Glass Bottle, and to sublime it upon a gentle Fire, taking Care to keep it well stopt; for this is a ticklish Commodity that will evaporate and lose itself in the Air, and that which you'll find in the Retort, is of a fine shining Black, resembling the Bitumen of Judea, or Jews Pitch.

2. Of Black Amber, or Jet.

Pomet. JET, which with good Reason, may be call'd Succinum Nigrum, or Black Amber, is also a Sort of Bitumen found in the Bowels of the Earth, but feldom near the Waters; it is a sulphureous Fosfil, very hard, and of a gliftering or thining Black, found in feveral Places of Europe, as well in Germany and Sweden, as in Ireland; as also in France, between St. Beaume and Toulon; and in Ireland it is fo common, that as you go along you may fee Veins of it running through the Stones and Rocks. Some Authors are of Opinion that Fee is the Yellow Amber divested of its Oil, drawn out by the subterranean Fires, and that from thence proceeds Naptha and Petro-Leum, which does not feem very repugnant to good Senfe.

Fee is of a like Use with Yellow Amber for Ornaments and Decoration, but in Medicine it is only made use of for its Oil, which serves for the same Purposes as that of the other.

As to the Choice of ir, 'tis sufficient to be of a shining Black as the Proverb bespeaks it. Gagates, in French Geeft, Jays or Jayet, and in English, Jet, is Lemery. a Bituminous Stone, that is hard,

black and fmooth, found in feveral Parts of Europe; as Germany, Sweden, Provence and Ireland, in the Stone Quarries among the Rocks; it yields a good deal of Oil, and a little volatile penetrating Salt.

Some People are of Opinion that Jer is an Amber whose volatile Parts have been separated by the subterranean Fires, and become what we call Petroleum: Chuse such as is near, hard, and of a fine shining Black; it discusses, is emollient, expelts Wind, and allays Vapours: The Dose from a Scruple to a Dram. The Name comes from Gaga, a River and City of Lycia, from whence Jet is sometimes brought.

3. Of Jews Pitch.

HE Jews Pitch, or Afghaltum, is a Bitumen found (wimming up- Pomet, on the Waters of the Lake, where heretofore flood the Cities of Sodom and Gomorrha, and the Name Afphaltum comes from the Dead Sea, or Lacus Afphaltites, which fignifies the Lake of Truft, being to very firong, that every Thing almost swims that is thrown into it; and it is call'd Mare Mortuum, or the Dead Sea, because no Fild or other Beaft can live in it, through the extream Saltness and Bitterness, and no some Smell of its Waters; but in Recompence there are great Quantities of this Bitumen found floating thereupon like Greale or Fat, of which the Coasters, who are Arabs, make very confiderable Advantage; it being what they use to lay upon and belinear their Ships and Boats with, as the Northern Narions do with common Pitch: And one Thing is very remarkable, that when this Lake is very full of this Bitumen, there arifes such a Stench in the Air, that the Inhabitants thereabout are necessitated to gather it and put it a Shore, and to notione at that Time is the Smell that all Birds that fly over it fall down dead; and this is the Reason why the People in the neighbouring Places are lo fhort liv'd.

The Bitumen of Judea, or Afghaleum, to much refembles the best Black Stockholm Y 2 Pitch,

Pirch, that were it not for the strong Smell of Pirch, and that it is not so hard as the Afphalium, no one could distinguish the one from the other.

The Use of this Bitumen is to make the fine thining Blacks of China. It also is of fome small Use in Medicine, for that it enters the Composition of the Venice Treacle, for which Purpole it needs no other Prepararion than to be true or genuine, that is to fay, of a most beautiful, shining, polish'd Black, reflecting the Image of the Sun, and of no Manner of Smell; and to fee that it be not adulterated, or mix'd with Black Pitch, which is what is call'd the Artificial or Factitious Piffafphaltum; it is no difficult Matter to discover this artificial Bitumen, being of a very base Black, and a strong Smell. 'Tis a Miftake to believe as some Authors do, particularly Monfieur Furetiere, that we have no Bitumen of Judea brought us now a-Days; and that the Apothecaries, instead of it, fell a Composition which they make of Pitch, and the Oil of Petre, a Thing that don't stand to Reason, nor can I conceive Pothecaries to be such Knaves and Fools, to do any fuch Thing, fince the true Bitumen is realonable enough in its Price; fo that it wou'd have been better for these Scribblers, and all fuch as have underraken to write of Druggs, without understanding them well, to have been filent; for they have made, and ftill do make horrid Blunders about quid pro quo, or in substituting succedaneous Druggs or Medicines, which is a Matter concerns the King and the Commonwealth,

Bitumen Judaicum, Bitumen Lemery. Babylonicum, Afphaleus, is a folid, brittle, black Matter, resembling Black Pitch that is sulphureous and inflammable, and in Burning fends forth a strong disagreeable Smell: It is found fwimming upon the Surface of the Lake, or Asphaltite Sea, otherwise call'd the Dead Sea, where stood, some Time ago, the Cities of Sodom and Gomorrha. This Bitumen is cast up from Time to Time in the Nature of liquid Pitch, from the Earth that lies under this Sea, and being thrown upon the Water it swims like other fatty Bodies, and is condens'd by little and little thro' the Heat of the Sun, and the Salt that is in it.

The Inhabitants of the Country are con-

firain'd to take it from thence and carry it a Shore, not only because it brings them Profit, but also because the Lake being too much loaded with this Bitumen, yields a stinking and malignant Smell, which spoils the Air, affects their Health, and shortens their Days: The Birds that sly a-cross it fall down dead, and it is call'd the Dead Sea, because of the Stench, Bitterness, and excessive Saltness of it; so that neither Fish or any other Creature can live upon it. The Arabs use this Bitumen of Judea to pitch their Ships as we do common Pitch, and there was a great deal of it imployed in the Embalming of the Ancients.

Chuse such as is clean, of a fine shining Black, solid, and harder than Pitch, having no Smell but when it is held to the Fire; take Care it be not mix'd with Pitch, which may be known by the Smell: They use this to make your fine shining Blacks of China; it yields a good deal of Sulphur, partly exalted, with volatile Salt and a little Earth; it fortifies and resists Putrefaction, resolves, attenuates, and cleanses cicatrizes Wounds, and is us'd externally and internally.

It is supposed that the Word Bitumen comes from the Greek Word virus, which signifies a Pine, and which has been changed by Corruption, the w being altered into a B, from whence they pronounced it Bitumen instead of Pitumen: This Etymology is taken from the Opinion of the Ancients, that the Bitumen of Judea was a Pitch that flowed from Pines and several other Trees about the Lake of Sodom: So were the Jews of that Opinion before; the Prophet Esdras speaking of Sodom and Gomorcha, says, that the Earth is founded upon Pitch and Heaps of Ashes.

4. Of Pit Coal.

Arth or Pir Coal, is a Sort of Bitumen chiefly us'd by Farriers Pomes
and other Sorts of Smiths to heat
their Iron; that of England is efteem'd the
best, though there are some that say ours of
Auvergne comes very little behind it; 'tis
made a great Traffick, being a Commodity
much us'd in France; the best is pretended to
be most void of Sulphur, and consequently
that which will keep Fire longest. Some
will

will have it that this Sort of Coal is the Refult of Petroleum made in the Bowels of the Earth, which is probable enough, fince out of it may be drawn an Oil altogether like the Oil of Petre.

It is call'd in Greek, Lithanthrax; in Latin, Carbo Petræ, or Carbo Fossilis; and in English, Lemery. Coal; and is diftinguish'd into Sea Coal and Pit Coal, only upon the Account of that which is generally carried by Sea; all Coal being properly speaking Pit Coal, which is chiefly found in England, Scotland, Ireland, Germany, &c. and is an impure Sulphur, mix'd with many gross and earthy Parts, and a volatile Salr, being strong, friable, and black: In Distillation it yields an acid Spirit, reddish Oil, black Balsam, and volatile Salt, like Amber; which is but too well known to the Chymists of this Age, who adulterate most of the Preparations of their Shops, that are either chargeable or troublesome, and tedious in the Operation: The Virtues of this are in a lower Degree subservient to those of Amber, as well internally as externally apply'd.

5. Of Terra Ampelites, or Cannal Coal.

Pomet. T Erra Ampelites, or Cannal Coal, is a dry Bitumen impregnated with Sulphur, that eafily iplits into Scales, and is reduc'd to Powder, found in the Entrails of the Earth in many Places of France: We have two Sorts of it, the one foft, the other hard, which comes from near Alenson, in the Provence of Maine; the Propriety of the Quarry whence 'tis taken, belongs to a Curate of a Parish, who makes seven or eight hundred Livers per Annum of it; the Quarry is a Matter of forty or fifty Foot deep; and though this is a Merchandise of low Price, yet they make a good Trade of it; there hardly being any Artificers in Stone or Wood, but what make use of it more or less. That which is good must be lately taken from the Mine, for when 'tis stale and old it resolves into a Powder and becomes a Saltpetre; it ought to be light, neither too foft nor too hard; some have given it the Name of Vine Earth, because it kills or drives away the Worms from the Leaves of Vines; also it is call'd *Pharmacitis*, because 'tisus'd in Medicine.

Ampelieis, five Pharmacitis, the Black Stone, or Medicinal Earth, Lemery, is a very bituminous Stone, black as Jet, splitting into Scales, and is easily reduc'd to Powder; they get it from a Quarry near Alenson in France: There are two Sorts of it, one fost and the other hard; it affords Abundance of Sulphur and Salt: It is proper to kill Worms apply'd to the Belly, and to dye the Hair Black: Some use it as an Antidore to destroy all Vermine, apply'd to the Vine Roots.

6. Of Sulphur Vivum, or Native Sulphur.

SUlphur Vive is an Earth or Clay Pomer. easily inflammable, that in burning emits a bituminous Smell, brought us from Cicily and other Places. As to the Choice of Live Sulphur, so call'd, because it is sold and made use of just as it comes out of the Earth; let it be tender or soft, friable or easy to be broken, smooth, shining without as well as within, and of a Sort of Mouse Dun, or Grey, as free from Gravel and Dust as possible.

This Sort of Sulphur is very little in Use, unless it be for some particular Operations, and certain galenical Compositions, but pretty much us'd by Vintners, who mix it with Sugar, Anis, Cinnamon, Nutmeg, Cloves, Sc. to sweeten and preserve their Vessels.

Some Apothecaries pound it with Scammony, which they call Prepar'd Scammony, or Diagrydium, and so make a better Market of it than their Neighbours, who take Pains to prepare it as it ought to be.

7. Of Mineral Sulphur.

SUlphur Mineral is a hard earthy Bitumen, of a yellow Colour, and bright enough, of a ferid sulphureous Smell, easie to be melted or burnt, and is more or less beautiful, as 'tis more or less mixt with Impurities in meets with in the Mine.

This

This Mineral Sulphur comes from Moune Vefuvius; as to the Choice of it, though indeed 'tis made but very little Ule of, let it be, in handfome Lumps, of a golden Yellow, bright and finning, and as little as may be mix'd with Earth or other Filth.

Its Uses and Qualities are no other than like those of the common factitious Brimftone that is made of this, which we are going to speak of under the next Head.

Of Sulphur in Rolls, or Common Brimftone.

The common factitious Sulphur Pomet. or Brimstone, is made of yellow Mineral Sulphur melted, and, by the Affistance of right Train Oil and Moulds, cast into the Form in which we see it.

This Sulphur is more or less beautiful, and endow'd with good Qualities, according to the Degree of its Purification, and the Places where its made; for that of Holland is much better, and more beautiful than that of Venice, or that of Marfeilles, the three Places whence it comes, and where its made: The Gentlemen of the Royal Arfenal, indeed, manufacture great Quantities, but make use of it all themselves.

In your Choice of this factitious Sulphur, or Brimfione, take fuch as comes from Holland, in large thick Rolls, of a golden Yel-low, light, easie to break, and being held close, or grasp'd in the Hand, and apply'd to the Ear, crackles and makes a Noise, and at length breaks to Pieces, and being broken, appears as it were in Crystals, which are the true Marks of that of Holland and Venice : none of which were to be found in the Marfeilles Sulphur, it being little better than a grey Sort of Earth, 'till of late, fince we cou'd have none from Holland, they have learnt the Art of well-working it there; and I think it has been our own Fault that we have fuff r'd other Nations so long to run away with the Profit of Refining it as it ought to be: The Reason has been that no Merchants have undertaken to write of it, or enquire into the Manner of doing it; only a few Phyficians, and fome Apothecaries and others that have travell'd, but understood no hing of the Mystery of Trade, have set Pen to Paper concerning it, who acquit

us that ordinary Sulphur in Rolls, or Common Brimstone, is made of Sulphur Vive; for that wou'd be to turn Pewter into Lead, since the latter, tho' natural, is more valuable, that is, will sell dearer than the former, notwith-standing it be wrought; however, I wou'd not be thought to discourage Authors, sew Books being so ill written, but may contribute, in some Measure, to the Advancemen of Knowledge; only in general it may be said, that the Subject one is going to treat of, ought to be understood before we begin to write.

There are several other artificial Sulphurs, as I have already taken Notice of, proceeding only from the different Preparations of different Countries; so the ordinary Sulphur of Marseilles is in small Rolls, the green Sulphur of the same Place, both in large and small Rolls, which Sort is esteem'd the best for Distillation, as shall be shewn hereafter.

There are a great many other natural Sulphurs, besides the two Sorts we ordinarily make use of, but they are not very common with us, because they come a great Way off, and we have 'em not in large Quantities.

The first and most desirable is that of Quitto, of a golden Colour, and an Amber Figure, found in great Abundance near the Gold Mines.

A fecond Sort is that of Nicaragua, which is in a yellowish grey Mass, altogether like That that was found, some Years since, in that Bank of Earth which was levell'd by St. Martin's Gate.

A third Sort is of Swifferland, refembling that of Quitto; and many more there are which I shall forbear to mention, there being no Demand for 'em.

The Use of Sulphur in Rolls, or Common Brimstone, is well known to all, and that it is one of the chief Ingredients of Gun-Powder; for which Reason, those that sell great Quantities of it to the Arsenal, for that Purpose, ought to discover it when 'tis faulty, that what is made of it may not fall short of Expectation. This Sulphur is us'd too in whitning Gawzes, Stockings, &c. for nothing blanches any Thing of Woollen like the Fume or Vapours of Sulphur.

Pen to Paper concerning it, who acquit It is also of some Use in Medicine, as well themselves but indifferently, when they tell in the Body of many Prescripts, as to per-

form

as will be feen hereafter.

It is befides a Specifick in the Itch; but Care ought to be us'd in the Exhibition of it, for it now and then produces very ill Symptoms, nay even Death itself sometimes.

Sulphur, or Brimstone, is brought Lemery, to us from the Caribee Islands of the West Indies, and is found allo in Italy, Bohemia, Sicilia, and Melos, being generated of the Far and Rosin of the Earth, filled with an acid and vitriolick Spirit: It is twofold, viz. Natural and Artificial, the Roll Sulphur is the latter; but if you wou'd make right Oil of Sulphur, you must chuse the Natural, or Sulphur Vivum; but if that cannot be got, you must make use of the other, which yet you are to try, whether it easily inflames and burns constantly, if not 'tis not good, but is impure and adulterated with Rolin, and such like Matters, whereby it becomes harder to kindle, and is eafily extinguish'd, being Caballine Sulphur.

It is a noble Mineral even before Preparation, and is generally appropriated to the Breaft and Lungs, and to cure all Difeases which difturb the same; it kills Worms, opens, cuts, refifts Putrefaction and Poison, provokes Swear, and is given in Coughs, Colds, Phthificks, Wheefings, Shortnels of Breath, &c, Outwardly apply'd, it re-folves all hard Tumours, cures corroding Tetters, Scabs, Itch, Scurf, Morphew, &c. drys up old Sores and Ulcers. Tho' this being finely ground, is fometimes us'd internally, yet the Flowers are more commonly us'd, as being a Sulphur open'd and purified from all Filth, whereby it is fitter for all internal as well as external Uses.

Of Flowers of Sulphur.

Flowers of Sulpbur are prepar'd of Pomet. Sulphur calcin'd in Pots made for the Purpose, and then reduc'd into Flowers as we fee : The best and most beautiful come from Holland; but of late, fince they have been made at Marfeilles, Roan and Paris, we have little thence. The true Holland's Flowers of Sulpbur were wont to be brought us in Cakes that were light, foft, friable, and rather white than yellow; but through Avarice and the present Wars, there is no

form a great many Operations in Chymistry, such now; and the best that we have at prefent is from Marfeilles, which tho' very good does not come near that I've mention'd of Holland, that us'd to be in an extraordinary fine impalpable Powder, of a bright golden Yellow, and of an agreeable Tafte.

The third Sort is that of Roan, which usually is of a whitith Yellow, made up of Sulphur rais'd by a violent Fire, and Meal or Wheat Flower, or fine powder'd Starch added to it, which is all a Cheat; in like Manner is that which is generally hawk'd about, made of the Duft or Drofs of Holland Sulpbur beaten up, and then pass'd thro' a very fine Taffety or Silk Searce, but the Cheat is easily discover'd by the low Price this spurious Stuff is fold at.

Upon the Whole, Holland's Flowers of Sulphur are preferable to any other; next to them thole of Marfeilles, and thele are the only two that ought to be given internally.

The true Flowers of Sulphur are a Natural Ballam for the Lungs, and endow'd with fo many good Qualities, that 'twou'd be endless to pretend to recount 'em all.

Flowers of Sulphur are also made after another Manner, to wit, by adding to it fixt Saltpetre, or Sal Polychreftum, which is the Method we use to make it white; but there being little Demand for this Sort, it's feldom made, though it be a very good Medicine, and as agreeable to take as the above-mention'd.

To make Flowers of Su'phur: Take Sulphur grofly powder'd, half a Pound; put it into a Glais Lemery. Body, or Cucurbit; place it in a small open Fire, and cover it with another Glass Body, or earthen Cucurbit; turn the Bo tom up-wards, fo as that the Neck of the Lower may enter into the Neck of the Upper; change the upper Cucutbit every half Hour, fitting another in its Place; adding likewife new or fresh Sulphur; the elevated Flowers fweep together with a Hare's Foot, and continue to do thus fo long 'till you have what you defire. These Flowers are good against Diseases of the Lungs; Dose ten or twelve Grains in any sit Syrup, Pulp, or Electuary; outwardly you may mix them with Hag's Lard, for Scurf, Tetters, and the Itch; but be cautious of using it to Infants, especially anoint not any where upon the Trunk of the Sulphur be sublim'd with Sal Polychrest you will have white Flowers.

Of Salt of Sulphur.

The Salt of Sulphur is made leve-Pomet. veral Ways, but the best and easiest is according to Monsieur Charas's Pharmacopeia, p. 887, whether the Reader may have Recourse. This Sale is compos'd of Saltpetre refin'd, and Spirit of Sulphur, made in a Retort with a Sand Heat, into a white Mass, which has many good Qualities; or it may be made with the Sal Polychrest, or otherwise, as may be seen in Abundance of Chymical Processes which treat of it.

Salt of Sulphur is much in Use to temper and allay the Heat of Fevers : The Dofe is not adjusted, but 'tis sufficient to give it in any common Drink to an agreeable Aci-

What Form one pleases may be given to this Salt; some will have it in a Mass, others in Crystals; some granulated, and others in Powder, or finally in Rolls; which last is a curious Method, and known but by

Of Magistery, or Milk of Sulphur.

The Magistery, or Milk, as 'tis Pomet. call'd, of Sulphur, is made of the Flowers of Sulphur, and Salt of Tartar boil'd in Water; and then adding diffill'd Vinegar to precipitate a Powder, which when dry'd will be white, and is esteem'd very good for the Lungs, and for Afthmaticks.

If half a Pound of Flowers of Lemery. Sulphur be mix'd with a Pound and an half of Salt of Tartar, or Pot-Ashes, and be boil'd in two Gallons of Water for fix or feven Hours, the Sulphur will be all diffoly'd, and the Liquor become red: This filtred and mix'd by little and lit-tle with Spirit of Vinegar, or some other Acid, prefently becomes white like Milk; let it stand to settle, and a white Powder will precipitate, which being edulcorated by five or fix Times washing in hor Water, and dry'd, is the Lac Sulphuris, which is better Annifeed, and the best Flowers of Sulphur

Body, and especially the Belly. If your than the Flowers for all the Diseases aforenam'd, given from fix Grains to fifteen : This is powerful against all Manner of Catarrhs and Fluxes of Rheum from the Head, that fall upon the Throat and Lungs; for it confumes and dries up all ferous and watry Superfluities.

Of Spirit of Sulphur.

Spirit of Sulphur is a Liquor drawn from the green Sulphur, by the Af- Pomer. fiftance of Fire and certain Veffels, as Mefficurs Charas, Lemery, &cc. teach us ; and as it is of different Colours, according as 'tis more or less divested of its Phlegm, fo it has two different Names affign'd it: That which is just as it comes out of the Veffels is call'd Spirit of Sulphur, which when good ought to be as clear as Rock Water, and of an agreeable Acidity, and which put upon blue Paper will turn it red; but the best and furest Proof is to deal with honest Men for it.

The fecond Sort, to which improperly the Appellation of Oil of Sulphur has been given, is fuch as has been separated from its Phlegm or superfluous Humidity, and has a bright Yellow, or golden Colour, and is so very firong that it can't be endur'd upon the

Tongue.

Some Hawkers counterfeit this Oil of Sulphur by a Mixture of Vinegar, and Spirit, or rather Phlegm, of Vitriol, or with Vinegar and Water, adding a few Drops of Aqua fortis, and fell it to Abundance of People, especially to Vintners, who use a great Quantity of it upon Occasion.

Great Vertues are attributed to the Spirit and Oil of Sulphur in Fevers and pulmonary

Cases especially.

Not long fince it has been discover'd, that Spirit, or rather the Oil of Sulphur, is the only Thing to give Luftre to the Peridot, as will be feen where we treat of precious Stones, and also to give Flowers that never fading or immortal Colour as we call it.

Of Balfam of Sulphur.

Balfam of Sulphur is made two Ways; First, With the green or express'd Oil of melted Balfam of Sulphur annifated, and has great makes it dry and brittle. Qualities given to it, as will be feen here-

Monsieur Charas says in his Book, p. 470, Quality but little behind the Natural Balfam, or Balm of Gilead, because it heats and dries moderately, and refifts Corruption or Putrefaction; it therefore is a celebrated Medicine in pectoral Cases, being very beneficial in Coughs, Afthma's, Pleurifies, and Ulcers of the Lungs: It is good also against Weaknesses and Indigestions of the Stomach, restores the Appetite, expells Wind, eases all Sorts of Colicks: 'Tis faid to be good also against the Plague, and all epidemical Discases, venereal Affects, continual or intermitting Fevers, and the Epilepsie; it may be taken internally in any agreeable Liquor, from three to ten or twelve Drops; the Stomach or Navel may be annointed therewith in any Illness of the former, or in Colicks, Ec.

might be made use of for this Composition, were it not that in the Operation it is apt to evaporate and fly off, do what you can, more than the green or express'd Oil.

The fecond Way or Method of making it is with Oil of Walnuts cold drawn, Flowers of Sulphur, Salt of Tartar, and White Wine mix'd together, which by Affistance of the Fire is made into a Balfam very good to digeft, discuss, or resolve any crude Fluxion impacted in any Part of the Body, made use of by Way of Unction; it is also the Basis of the Emp. Sulpburis.

Some use Oil of Sweet Almonds, White Poppy-Seed and Turpentine instead of Oil of Walnuts in the Composition of this Balfam, in which every one may do as feems best to him.

Some again add to this Balfam, Myrrh,

Aloes, Saffron, and the like.

Belides the Sulphurs afore-mention'd, we have a Sort of Earth or yellow Stone, which Mount Ætna casts forth, call'd by us Naples Tellow, which Painters make use of: But this Sort of Earth is scarce enough amongst us. Note, The Marks of its Goodness are, that it be landy, and of as high a Colour as may be. This Earth is nothing but a Sulphur

melted or diffolv'd together, which is call'd harden'd in the Bowels of the Barth, which

You may make a Balfam of Sulphur in a small Time, by taking to Lemery. one Part of Flowers of Sulphur four that some are of Opinion this Ballam is in or five Times as much good Oil of Turpentine. Oil Olive, or the like, and boiling them in a Pipkin, so big, as it may be but half full, 'till the Flowers are perfectly diffolv'd, into a Blood-red Balfam; let the Fire be pretty quick, yet not too quick, and continually ftir it all the While it is a making 'till it is cold, otherwise the Flowers will be apt to coagulate into a Mass, and so you will have no Balfam : It is good against Coughs, Colds, Afthma's, Consumptions, &c. outwardly apply'd, and is taken inwardly from four Drops to twenty.

8. Of Naphtha.

Mapheha is a Birumen or Slime found in many Places of Europe, Pomet. The diffill'd or chymical Oil of Annifeed and the Name Maltha has been given first of all to a Sort of Bitumen found near Comagene in Syria: And Pliny tells us that this Bitumen is so glutinous that it flicks to whatfoever it touches, from whence comes its Names of Maltha; and accordingly he relates, that at the Siege of Samozata, which Lucullus undertook, it was of great Advan-tage to those in the Town; for that as soon as it touch'd any of the Soldiers it fet them on Fire in fuch Sort as could not be extinguisht but by throwing Earth upon them, being of the Nature of other Bitumens, which the more you cast Water upon them the more they blaze. There is another Sort of Bitumen found near Ragusa, which has the Smell of, and serves for the same Purposes as common Pitch, and therefore has the Name of Maltha, or Natural Piffasphaltum, or Earth-Pirch bestow'd upon it : But these two Sorts being unknown to us, and we having none of 'em in France, I shall content myfelf to speak of that of Auvergne only.

The Bitumen then of Auvergne is a Sort of Pitch of a disagreeable Smell enough, found between Clermont, Montferrat and Rion, in a Place call'd Pege-well, where it is in such Abundance, that it makes its Way out of the Earth, and causes a great deal of Un-Vol. II.

Uneafiness to Paffengers, who when they Wine, the next yellow, afterwards green; very often forc'd to leave their Shoes behind Sun, is black. them. 'Tis this same famous Drugg the White Naphtha, which we commonly Hucksters dry, and then sell to Grocers and call Oil of Petre, or White Rock Oil, be-Barth; but we having no Commerce in, as to be as careful of it as of Gun-Pouder. having none of 'em, I shall not trouble my felf to speak any Thing about them.

9. Of Naphtha of Italy.

HE Naphtha of Italy is an Oil of difhave by me, and had the following Ac- be feen in the next Chapter.

The Italian, or Montfestin Naphtha, comes is a Kind of fost or liquid Bitu- Lemery. from a Rock which is upon a Mountain, men, of different Colours, very in-

tread on it can hardly draw up their Feet 'tis and in thort, that which is at the other opso sticking, and who by Reason thereof are posite Side of the Rock, quite off from the

ignorant Appothecaries and others, instead of cause of its Whiteness, Clearness, and Beauthe true Bitumen of Judea, tho' it be easily ty, is immiscible with any Thing in the distinguishable from it by its strong Smell, World besides, being lighter than whatwhereas the true Judea Bitumen is almost soever can be put to it; and consequentwithout any Smell at all; 'tis from its fætid ly it will be uppermost : as also by Rea-Smell, some, as to Asa fetida, have given it the son of its strong piercing Smell, coming near Name of Stercus Diaboli, or Devil's Dung, that of Sulphur, which renders it extreamly There are also many other Sorts of Bitu- volatile, it is easy to catch Fire, which men that come from the Bowels of the may serve as a Precaution to those that fell it,

The great Virtues of this Oil is the Reafon why I will not fay any Thing of it here, but rather refer my Reader to what the afore-nam'd Roque Foura has printed concerning it. As for the red, yellow, or green Naphtha, they are so little in Use, that we don't fee any of 'em at all: And moreoverferent Colours, flowing from a Rock another Reason may be, that the Italians fituate in the Valley of Montfestin, in the mix em with the black Oil before they send Dutchy of Modena; and this Oil has been it to us, and this makes the Oil of Petre, known to us but a few Years fince by the which we have thence, instead of being black Means of one Roque Foura, a Native and an and thick as it comes out of the Rock, to be Inhabitant of the Village call'd Prat, near red, transparent, and yellowish, and mode-Brianfon, in the Upper Dauphine, of whom rately fulphureous in its Smell; and as this I bought the different Sorts of Naphtha that I Oil is pretty dear some counterfeit it, as will

Naphtha, Piffafphaltum Naturale, whether it is convey'd by Subterranean Veins, flammable, which is brought from feveral and it is gather'd into Oil of different Co- Parts; as the Place where ancient Babylon lours, by Means of certain Canals and Cop- stood, and about Ragusa; likewise from a per Cauldrons which separate it; or to certain Lake or Marsh of Samosata, and dispeak more intilligibly, the Duke of Sara and vers other Parts; but we have no other Naph-Darce, and the Marquels of Arpia in Modena, tha brought but what comes from France and to whom the aforelaid Rock belongs, have Italy: The last of which is a Sort of Petrocaus'd Trenches, and Copper Canals, or leum, or clear Oil, that is sometimes white, Pipes to be made, which are purposely sometimes red, sometimes yellow, sometimes plac'd to receive the Oil as it diffills from green, and sometimes black; it flows from the Rock, by Means of which it falls into a Rock fituate on a Mountain near Mount the Cauldrons or Coppers, from whence it is Festin, in the Dutchy of Modena; the White taken or gather'd for Use. It is observable, is most valued. The Bitumens, call'd Naphthat this Oil changes Colour according as it tha, are almost all Sulphur or Oil mix'd is nearer or farther off from the direct Light with fome acid and volatile Salt; they are of the Sun; so that which is of the sunny Side incisive, penetrating, deterfive, digestive, is white, and clear as Water, and most e- vulnerary, and strengthening, and so are feem'd; that next to it clear and red like prevalent against Palsies, Weakness, and Rethey relieve the Tooth-ach, and dissolved in a Turpentine or vinous Clyster, prevail against Dyfentery and Diarrhea: Petroleum is by many us'd instead thereof.

10. Of the Black Oil of Petre, or Oil of Gabian.

HE Petroleum, or Black Oil of Gabian, is a liquid Bitumen that comes from the Bowels of the Earth, and by subterranean Channels is thrown upon the Waters of a small River near a Village call'd Gabian, in the Bishoprick of Bezier, in Languedoc. Formerly this Oil was fo plentiful and common, that 'twas made but little Account of; for considerable Quantities might be gather'd of it daily : but now Mondays only are fet apart for that Purpose; and the Place where it is, is enclos'd with a Wall, and guarded by a Man. And I have been told at Gabian, that the Bishop makes a great Penny of it, which notwithstanding is not of such Account as 'twas heretofore.

This Oil ought to be of a middle Confiftence, of a strong stinking Smell, and of

Colour black.

In the Choice of it, one must see to it that it be'nt Oil of Turpentine thicken'd and colour'd with Tar and black Pitch: The best Characteristick I can give whereby to know it, is to buy it of honest reputable Merchants, that won't do an ill Thing and fell one for another; and not to expect it at under Price.

The Black Oil of Petre of Italy, or of Gabian, is somewhat of Use in Physick, but chiefly employ'd by Farriers, and those that

make artificial Fire-Works.

There are moreover other Sorts of Oil of Petre, or Bitumens, found in many Parts of the World, as those of Colao, of Sirnam and Copal; but fince we have none of 'em, nor any Trade or Dealing in 'em, I'll not pretend to fay any Thing concerning them.

Petroleum, five Oleum Petra, or Lemery. Rock Oil, is a Kind of Naphtha, or bituminous Liquor that flows ly, and Languedoc: It is brought of feveral Black.

laxation of the Nerves; outwardly apply'd, Colours; as Black, Red, White and Yellow. The black Petroleum, usually brought us from a Village in Languedoc, call'd Gabian, and from thence Oil of Gabian, is of a very unpleasant Smell. All the Kinds of Petroleum are incifive, penetrating, resolutive, attenuating, refift Poilon, deftroy Worms, expel Wind, strengthen the Nerves; some Drops may be taken inwardly and outwardly; the Joynts, Emunctories and Navel.

may be rub'd with it.

It is hot and dry, and of thin Parts, and is of admirable Use against Aches and Pains, and all cold Distempers of the Muscles, Nerves and Joynts; it is prevalent against Gout, Palsies, Cramps, Convulsions, Apoplexy, Megrim, and other cold Difeafes of the Head and Brain; anointed upon the Region of the Abdomen, Bladder, Reins, Spleen or Womb, it gives Ease to all Pains and other Diforders of those Parts, discusses Swellings, &c. It is faid to cure ulcerated Kibes and Chilblains, to help Bruises, and heal old Sores; and is of fingular Use against the Rheumatism, or running Gout. Some say that that which comes out of India is the best and pleasantest, and is thought to have all the Virtues of the Naphtha aforego-

II. Of China, or Indian Ink.

CHina Ink is a hard folid Pafte, which, according to some Authors, the Chinese make of a black bituminous Earth, which they powder, and with Gum Dragon form into a Paste, which they after lay upon little Sticks, and having mark'd it with some China Character, they dry and fell it as we have it. Others will maintain that it is made of a Black produc'd from the Smoak or Fume of Oil of Olives burnt; but as it is impossible I shou'd be able to determine of which 'tis compos'd, I will only remark in the Choice of it, that the true genuine Ink of China is to be prefer'd to that of Holland, and is distinguishable from it, in that it is in small square Cakes of the Thickness and Length of one's Finger, and of a from the Clefts of feveral Rocks, Stones very black jet Colour, whereas Holland's and Quarries, in many Parts of Italy, Sici- Ink is in flat Lumps, and of a footy musty

Z 2

China.

China, or Indian Ink, serves for Geogra- shining is the best. If when it is set on Fire, phical Charts: In short, 'tis very useful for all fuch as mark or take Sketches in Black, being a portable Ink.

12. Of Gun-Powder.

GUN-Powder is a Composition of Saltpetre, Sulphur and Coal made with Willow, or any other white light Wood, which by Means of Vinegar, and a Sieve, or any other Instrument full of Holes; is made into Corns big or little, or what Size you please : But I will not enlarge upon this Occasion, not being throughly acquainted with the Manner of making it best; and by the Bye, I wou'd not advise any Merchant to deal in this Commodity, whose profes'd Business'tis not, it being too hazardous.

Sal Pyrium, Sal Bombardicum, Lemery, and Pulvis Pyrius and Bombardicus, or Gun-Powder, was a Thing wholly unknown to the ancient Greeks and Arabians, and therefore they have no Name for it. It is made in many Parts of the World, but most plentifully in France and England, and is compos'd of Saltpetre, Sul-

phur, and Wood-coal.

You are to chuse good and pure Nitre, with fair and large Crystals or Shootings; if it be not good you must purifie it as we have before taught : This purified Niere, put into a Kettle, which fer upon a Furnace with a moderate Fire, which gradually encrease to such a Degree of Heat, 'till it begins to smoak and evaporate, lose its Humidity, and grow very white; keep continually stirring it with a Wooden or Iron Ladle, for fear it should return to its pristin Form, whereby its Greafiness will be raken away. Then pour so much Water into the Kettle as will cover the Nitre; and when it is diffolv'd, and is brought to the Confiftence of a thick Liquor, then with a Wooden Stick or Ladle, keep continually flirring it without any Intermission, 'till all its Humidity is again evaporated, and it be reduced to a most dry, white Meal.

You ought also to chuse the purest and best Sulphur; that which is in very great large

it freely burns all away, leaving little or no resident Matter, it is a Sign it is good : So also if you press it between two Iron Plates that are hot enough to make it run, if in running it appears yellow, and that which remains be of a reddish Colour, you may conclude it excellent and fit for your Purpose; but if it be impure and foul, Powder-makers, prepare it after this Manner. Melt your Sulphur in a large Iron Ladle or Pot, over a very gentle Fire of Coles well kindled, but not flaming, then fcum off all that which rifeth on the Top, and fwims upon the Sulphur; presently after take it from the Fire, and strain it through a double Linnen Cloth, letting it pass at Leisure; so will the strained Sulphur be pure, (the gross filthy Matter remaining behind in the Cloth,) which powder finely.

You ought also to chuse Charcoal, large, clear, free from Knots, well burnt, and cleaving; but if you be where it's not to be had, you must make it after this Manner. Cur down your Wood when it is full of Sap, and is apt to peel, viz. in May or June, and chiefly Hasle, or Ash, or Juniper, &c. which cut into Lengths of two or three Foot long. of the Bigness of ordinary Billers, taking away the Rind and superfluous Branches; being very dry, make them into Bundles, and in a plain even Place, fit for that Purpose, fet them upright one by another, and one upon another, cover them with Earth or Turf very close, leaving only some few Vent-Holes; then kindle the Fire, and when it is well lighted, and all in a red burning Heat, being reduced into burning Coals, stop up every Vent-Hole for the Fire, close, with moistened Earth, so that there be not the least breathing Place, the Fire being thus extinguished, the Coals will be pure and whole without any Ashes, and in twenty-four Hours after you may take them out for Ufe. But for a present and imall Occasion do thus: Cut the Wood into imall Pieces, dry them well, put them into a large earthen Pot, cover it all over the Top well with Clay, then make a good Fire round the Pot gentle as first, but so as it may be made red hot; covering it also all over with Fire, leaving it Lumps, clear, perfectly yellow, not very fo for the Space of an Hour or more in that hard nor compact, but porous, nor too much strongest Heat; let the Pot cool of itself, and

then take out the Coals for Use, which reduce into a fine Powder.

Of these Ingredients the Country People in the Ukrain in Poland, and the Coffacks make it with their own Hands thus. They put their Proportions of Nitre, Sulphur and Charcoal, (being all in fine Powder) all together in an earthen Pot, upon which they put fair Water, then they boil upon the Fire 'till all is evaporated, and the Matter becomes thick like Paste, and taking it from the Fire they make it yet dryer in the Sun, or in a Stove, or the like, 'till it is fit to corn; then they granulate it by passing it through a Hair Sieve, making the Grains of what Bigness they please, and this serves their rural Occasions, as well as if it had been made by the most skilful Artift in the World.

But in order to the truly Knowing and Making of Gnn-powder, it is fit that you should first know the Kinds thereof, and then the different Strength of each: The Kinds are threefold, 1. Canon Powder, 2. Musquer Powder, 3. Piftol Powder, and of each of these there are two several Kinds, viz. a stronger and a weaker, all which Differences arifes only from the various and differing Proportions of the above enumerated three Ingredients. The exact Limitations of which we come now immediately to declare.

kasu, j	Cannon.	Mulquet.	Piffol.	1000
Nitre. Sulphur. Coal.	2.5	1.8	1.2	Strong.
Nitre. Sulphur. Coal.	2.0	1.5	1.0	Weak.

The Preparations declared, I. Cannon Powder, 1. The Stronger. To every 100th of Saltpetre, there is Sulphur 25th. Charcole 25th 2. The Weaker. To every 100th. of Saltpetre, Sulphur 20th. Charcoal 24th. II. Mulguet Powder. 1. Stronger. To Saltpetre 100th. Sulphur 18th. Charcoal 20th. 2. The Weaker. To Saltpetre 100th Sulphur 15th. Charcole 18th. III. Piftol Powder, 1. The Stronger. To Saltpeter 100th. Sulphur 12th. Coal 15th. 2. The Weaker. To Times while it is in the Mortar, and moisten

Saltpeter 100th. Sulphur 10th. Charcoal 18th. as in the Table annexed, which are the Numbers, and in the fame Proportion, but in leffer Quantities or Dicimals.

The Way of making it. All these Ingredients are to be finely powdered, and they are to be moistened with fair Water or Vinegar, or Spirit of Wine, or Water and Spirit of Wine mixt together, or Urine, which is usual; then let all be well beaten together for the Space of twenty four Hours at least, and then granulated after the following Manner.

You must prepare a Sieve with a Bottom of thick Parchment made full of round Holes, and the former beaten Mass must before hand be moistened with the following Liquor. Be Spirit of Wine 3xx. Spirit of Wine Vinegar, 3xij. Spirit of Niere, 3iiij. Spirit of Sal Armoniack, 3ij. Camphir, 3j. dissolved in Spirit of Wine, mix together for the Purpose aforesaid. Or in stead thereof, if all these Things cannot be had with this. B. Brandy 3xl. Champhir 3j. mlx and diffolve; the Mass being made up into Balls as large as Eggs, which put into the Sieve, and with them a wooden Ball, which so move up and down about the Seve, that it may break the Balls of Powder, and make it pass through the little Holes into Corns.

But in making of vast Quantities for a natural Use, to do it all by the Hand would be a most tedious and flavish Work, and therefore Kings and the fupream Rulers of Countries have provided Mills for that very Purpose, by Help of which they can do more in one Day, than a Man can in an hundred.

You may make Powder of various Colours, if you fo please, but then you must leave out the Charcoal, and put in as much for it of another Thing of the Colour you intend, which may be as apt to kindle or take Fire as Charcole is; but for real Service, whether for War or Hunting, &c. the black Powder is much to be prefer'd; yet for Satisfaction's fake, we will give you the Directions for making white

White Powder. Take Saltpeter, 10th. Sulphur, thi. Sam-duft of Elder, or the like Wood, dried and powdered fine, this mix and make Powder by the former Directions. Or thus: Be Nitre 10th. Sulphur, this. dried and finely powdered, Saw-dust this mix and make Powder. Or Thus: B. Nitre 10th Sulphur, thij. Rotten Wood dried and powdered, thij. Salt of Tartar Bij. mix and make Powderto be kept close from the Air.

This is also to be noted, That in making Piftel Powder, if you would have it ftronger or more violent, you ought to ftir it up feveral it with Water distill'd from Orange or Le- some Grains feel harder than the rest, mon Peels in an Alembick, and then beaten for twenty-four Hours, as aforefaid.

Moreover you ought to know, that Powder when it is corned, is of much greater Force and Power than when in Dust or Meal; and from hence it is concluded that the larger Grains are stronger than the smaller, and for that Reason Canon Powder is granulated larger than Musker, Musker than Pistol; and therefore being put into Ord-nance, Muskers, or Pistols; it ought not to be forced or beaten so home, or hard into the Piece, as to bruile the Grains, left it shereby loses much of its Strength.

To know the Goodness of Gun-Powder. It is tried three Ways, by Sight, by Touch, and by Fire. First by Sight; if it be too black, it is too moift, or has too much Charcoal in it; fo also if rubb'd upon white Paper, it blacks it more than good Powder does. If it be of a Kind of Azure Colour, or a little obscure, something bordering upon red, it is

a Sign of good Powder.

Secondly by Touching. If in crushing of it with your Fingers Ends the Grains eafily break and turn to Duft, without feeling hard, it has too much Coal in it. If in preffing under your Fingers upon a smooth hard Board, or as it were dent your Finger's End, or very hardly yield to preffing, the Sulphur is not well mixt with the Nitre, and the Powder naught.

Thirdly by Burning. Lay little Heaps of Powder three Inches or more afunder upon white Paper, and Fire one of them; if it only fires and burns all away, and that fuddenly, almost imperceptible, without firing the others, and makes a small thundering Noise, and a white clear Smoak rifing in the Air, almost like a Circle, the Powder is very good. But if it leaves black Marks behind it, it has too much Coal in it, or is not well burnt. If it leaves a Greafiness behind it, the Sulphur or Nitre, are not well cleanfed or ordered as they should be. And if two or three Corns of Powder be laid upon a Paper an Inch afunder one from another, and you put Fire to one of them, and they all fire at once, leaving no Sign behind but a white smoaky Colour in the Place, and the Paper not touch'd, the Powder is good; so also if fired in your Hand, and it burns it not; but if black Knots which burn downwards in the Place where Proof was made, remain after firing, it is not ftrong enough, but wants Nitre.

End of the Fourth BOOK of BITUMENS. The second of th

BOOK the Fifth, of the Second Volume.

General Filling of DILLINGS. history Red, what are tound very commonly boulder that they salurd you no mater that

Of STONES.

The PREFACE.

I mean by the Word Stone, a folid and hard Body that will not melt in the Fire, or be extended under the Hammer, form'd in the Earth by Course of Time, being a Kind of Mineral. I shall divide Stones, the Subject of this Book, into two Classes; to wit, into precious and common Stones. By precious Stones I understand those that are dear. either because that they are scarce, or that they come from far distant Parts, and such as are very bard, small, and sparkling. And by the Common, I mean such as are of little Value : I shall begin with the Hyacinth, or Jacinth, as being the Finest of all those we deal in, and of which we make the most Use. And by the Way, the Reader may be pleas'd to take Notice, That I shall only speak of such as we deal in, not meddling with the fine Stones the Jewellers and Lapidaries trade in, as knowing little or nothing of them.

1. Of the Hyacinth, or Jacinth.

HE Hyacineb that is us'd in Medicine is a Stone of which there are three Kinds, to wit, the foft milky Hyacinth, which is a little Stone of the Size and Figure of a moderate Grain of Salt, very plyable, and of the Colour of Milk, from whence it derives its Name. The Second is a reddift Stone without, and within cut naturally like a Dia-

mond Point, that is found very frequently in Poland, Bobemia, Silefia and Italy: In this same Stone or Jacinth, you will often meet with White mix'd with red, or yellow fometimes with other Colours; but as these different Sorts are not us'd by any but Apothecaries and Hucksters, who chiefly confider the Cheapnels, or don't know 'em from others. they ought to be entirely rejected, being nothing elie but a Sort of Sand; as also another Sort of falle Hyacinths, that are little Stones about the Bigness of a Pin's Head, of a thining:

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thining Red, that are found very commonly Jouffy, that they afford you no better than use no other than the milky Hyacinth, as be- table Dealer. ing the true Oriental, and fit for medicinal to be ground to an Impalpable Powder.

Of the Confection of Hyacinth.

The Confection of Hyacinth is a liquid and cordial Electuary made up of Hyacinth, red Coral, Bole from the Levant, feal'd Earth, of each four Ounces and half; Grains of ental are to be prefer'd to those of Silefia and Kermes, Dittany of Crete, Tormentil Root, Bohemia, which are known by their Bigness, Citron Seed, Saffron, Myrrh, Provins Roles, their Beauty, and their Hardness; for the the three Sanders, the Bone of a Stag's Heart, Shavings of Hartshorn and Ivory, Sorrel and Purslain Seed, of each ten Drams and two Scruples; of Saphire, Emerald Topaz, Fine Pearl, Raw Rilk, Gold and Silver Leaf, of each five Drams and a Scruple; Musk Red or Yellow, and feveral other Colours; and Ambergrite, of each two Scruples; powder all the Druggs, and grind the Stones Red: This laft Kind is found in feveral Parts on a Porphyry, then make 'em into an E- of France, and particularly in Autorgne, all lectuary with Syrup of Lemons. Those the Sorts are very cordial and restorative: who defire to know further of it let 'em con- Dose half a Scruple. fult Monfieurs Charas or Bauderon's Difpensatories. The Confection of Hyacinth ought to be of a good Confistence, fresh and faithfully prepar'd of a reddish Colour upon the Yellow: All those who prepare this Medicine ought nor to put in Musk and Ambergrife, except by the Direction of the Phy- Magnitude, very heavy and transpafician; because the greatest Part that is us'd is by the Women, and that is very improper found in the Plaister of Mont Martre: This for the Sex, especially in any hysterical Case. This Confection made as it ought, is much prescrib'd because of its good no other Preparation for Medicine than to be Qualities in fortifying the Heart, refifting of Poison, &c. and it is of the same Nature with Confection of Alkermes, being much ns'd in the Lionnois, Provence and Languedoc, where you meet with few People without a Pot of this Confection, or of Alkermes or Treacle about them, of which they take a small this Medicine, and the Demand for it, is the the Chryfolite, or Mother of the Emerald: It pers of it, who do it fo grofly and fcanda- and all Manner of Fluxes of Blood; as like-

in several Parts of France, but chiefly in Au- Honey, Bole, Myrrh, and some Leaf Copper vergne, which are what we call Jargons, or for this Confection, and fometimes they alfalfe Hyacinths: Wherefore those that wou'd low you a little Bastard Saffron; therefore have the Facinth for the Confection that the best Way is never to meddle with this bears its Name, and is after describ'd, must except you have it from an honest and repu-

Hyacinthus, five Lapis Hyacinthi-Use, it requiring no other Preparation than nus: The Jacinth is a precious Stone, Lemery, of which there a great many Sorts that differ in Size and Colour; for fome are small as a Grain of Salt, of a white Colour, and this Kind is call'd the foft milky Hyacinth. which is the oriental, others are as big as Peas. very hard, of a red Colour, enclining to the Yellow, bright and resplendent. The Ori-Oriental exceed not the Size of a Pea, and are finer and more Brillant than the European Kind. There are others much about the same Size, of a yellowith Colour, almost like Amber; fome are white partaking of others are small as Pins-Heads, of a bright

2. Of the Topaz Stone.

THE Topages that are us'd in 1 Physick are Stones of different Pomet. rent, altogether resembling the Muscovy Glass Stone is found in the East and West Indies, Bohemia, and Germany. The Topaz needs ground with Rofe-Water on a Marble like Hyacinth and other precious Stones.

The true Topaz of the Ancients, which was afterwards call'd a Chryfolite, is a transparent Gem of a diluted green Colour, that feems to have some Yellowness, or a Gold-Colour in it, very glorious; some will not Quantity every Morning. The Dearnels of have it to be properly the Topaz, but rather Reason that you have a thousand Sophistica- is reported to be good against Hemorrhages,

wise to stop Bleeding: This Gem is so hard that the File cannot touch it. It has been a Stone of great Esteem and Value, not only for its own Glory and Brightness, but for its sacred Use recorded in Scripture: It is sometimes counterfeited with double Crystals or diaphanous Stones, with a proper green Foil interpos'd, and being thus set in Inclosures, with a like Foil underneath, the Cheat will be hard to discover.

Topazius, Chrysolithus, Chrysopa-Lemery, tius, the Topaz is a transparent precious Stone, of a greenish Cast, mix'd with a little Yellow, shooting forth golden Rays: There are two Sorts of it, the Oriental and Occidental; the first Sort is harder, siner, and more valued: We have 'em brought from Arabia, Ethiopia, and about the Red Sea; it's said they grow among the Alabaster, and some pretend 'em to be the Mother of the Emerald, because these two Stones are something like one another in their Colour. The second Sort are sound in Bohemia, and are larger than the Eastern Kind, but not so beautiful.

3. Of Emeralds.

HE Emerald is a greenish Stone that is found in different Parts of the World; as Ethiopia, Egypt, Persia, and both the Indies. The highest priz'd, or most valued Emeralds, are those call'd the Prime Emeralds, in that they are commonly pure and neat, that is to fay, of a fine beautiful Green, inclining to the Blue, without Rock or Marble. There is some Grounds or Appearance that Emeralds are found in Iron Mines, because I have seen where the Iron has fluck to them. It is by some affirm'd that the Emerald takes its green Colour in the Mine, according to the Degree of its Perfections, as Fruits ripen upon the Trees, which I cannot confirm, having never feen the Truth of it.

Some Authors have made twelve Kinds of Emeralds, as the Scythian, the Bactryan, Agyptian, Cyprian, Attick, Ethiopick, Medick, Calcedonian, Samian, Sicilian, Laconick, and Cyprian, or Chalco-smaragdus, to which of late has been added a Thirteenth, call'd the Smaragdites, or Bastard Emerald. This

Stone has been of great Esteem, not only for its Glory, but the Use it was apply'd to, being set in the Breast-Plate of Judgment.

The Smaragdo - Prasinus, Smaragdites, or Bastard Emerald, is a transparent green Gem of a mixt Beauty, between a Prasinus and an Emerald; being compar'd with the Prasinus, it has the Greenneis of Grals, without Yellowness; but being compar'd with the Emerald, it has a yellowish Greenness, which is not in the Emerald; it is seldom perfectly transparent because of some Clouds in it, and is of two Kinds; first, the Bohemian, which is almost transparent; and, 2dly, the American, which is but half transparent: This Stone is said to be diuretick, expels Gravel, hinders the Breeding of the Stone, and eases Pains of the Kidnies and the Gout?

Smaragdus, Prasinus, or the Emerald, is a fine, green, precious Lemery. Stone that is diaphanous, thining, resplendent, but moderately hard; there are two Kinds, one oriental, and the other oc-cidental. The first Sort is harder, finer, and more esteem'd; it represents by its agreeable Colour and Pleasantness the Verdure of the Field, and fills the Eye with a fudden glaring Light; it is brought from the East Indies. The second Sort may be distinguish'd into two Kinds, Peruvian and European; the Peruvian shews a very fine, pleasant, green Colour, but does not shoot its Rays like the Oriental, and is sometimes fill'd with little greenish Clouds; they are plentiful in Peru, and pretty large: The European Sort is not to hard or resplendent, but the least valued of all; they are found in Cyprus, Great Britain, and several other Places: The Weftern are generally much larger than those of the East, for they are sometimes met with as big as the Palm of a Man's Hand: Both Kinds are proper to ftop the Flux of the Belly and Hemorrhages, to sweeten the too acrid Humours, being finely powder'd and taken inwardly: The Dole from fix Grains to half a Dram.

4. Of Saphirs.

W E sell two Sorts of Saphirs, to wir, the reddish and the blackish; the Saphirs are little Stones of the Vol. II.

A a Size

Size of a Pin's Head, extreamly hard, and the Use in Physick, for which Reason I shall call Vermeil, or small Granats, which beware Red, and very folid.

Saphirs, they are less enquired after than specially such as come from the East-Indies; Acids. as Calecut, Pegu, Bisnager and Zeilan; they are found likewise in several Parts of the Western World, as on the Borders of Bohemia and Silefia, but they are neither fo perfect nor fine as the Oriental, but have their Luftre defac'd or funk by the Fire.

They use in Physick the Fragments or Pieces which the Lapidaries cut off from the Saphirs, which are much about the Size of large Pins-Heads, reddish or blackish, but the Red are prefer'd because the Black are full of Iron Stone, by which we may perceive they have some Analogy to the Load-Stone, for they will be attracted like Iron: There are a great many Virtues attributed to the Saphirs which they have not; as the fortifying the Heart and other noble Parts, purifying the Blood, refifting of Poyson; their true Properties are to stop Fluxes, sweeten the Blood, and dry up Ulcers of the Eyes.

5. Of the Ruby.

HE Rubies are likewise little reddish Stones that are brought us from the East-Indies, and are of very lit-

therefore difficult to bruise or pound. The say nothing of them, nor of a great many reddish, which are usually of the Colour of others which we might fell had they attain'd Wine, ought to be imploy'd for physical Uses; to their Perfection, the Names of which are for as to the blackish Saphirs they are rather subjoyn'd, referring the Reader to a Book like Rust of Iron than a precious Stone, and entitled, The Perfest or Compleat JEWELLER, turn the Confection of Hyacineh black when or, The History of Precious Stones; comadded thereto. Some substitute in the Room pos'd by Anselmus Boetius de Boot, Physician of the red Oriental Saphirs, those little to the Emperor Radalph the Second; or to the Stones, very common in Holland, that we Indian Mercury, made by Rosnel, who has made a very large Treatife thereof. The of, tho' it is not difficult to diffinguish 'em, precious Stones we have, besides those menbecause the true Saphirs are of a very fine, tion'd before, are the Diamonds of Alenson, clear, transparent Red, which are contrary the Amethysts of Auvergne and Cartagena, to the Granats, that are of a very deep the Girasole, the Peridos, the Agats, the Berils, the Sardius, the Coralines, the Granats, Saphirus vel Sapphirus, or the the Malaquits, and several Sorts of Marble, Lemery. Saphir, is a fine, precious, brilli- Florence Stones, &c. And as I have feen the ant, diaphanous, resplendent Stone, vast Difference betwixt the Stones that we of which there are two Sorts, one call'd the fell, and the fine Stones the Lapidaries use, Male, the other the Female: The Males are I advise all those that wou'd make the Confeof a pale Blue, or a Water of the Diamond Stion of Hyacinth, to take rather the Chippings Lustre; these last are call'd White or Water of the fine Stones, than fancy he can buy better at the Druggists: Besides, I am of the Blue: The Female Saphirs are of a Opinion with those who allow no other Virdeep Blue, these are more valuable, and e- tue in all the precious Stones, than to absorb

> Rubinus, Carbunculus, Pyropus, Anthrax, the Ruby or Carbuncle is a Lemery. fine, diaphanous, precious Stone that is very hard, and refifts the File; it is resplendent, and of a Colour as red as Blood, mix'd with a little Tincture of blue : There are several Kinds of it, but the finest, bardest, and most valuable, is that from Zeilan in the Indies : Stones that are of a Flesh Colour, they are whitish at first, and grow reddish as they approach to Persection: There are some likewise in Gambaya and Bifnaga, but these are not so fine.

> There is affign'd to the Ruby the Virtue of resisting Poyson, strengthening the Vitals, driving away Melancholy, reftoring of loft Strength; but we know by Experience it has no other Quality than that of an Alcali Powder, that Iweetens the Sharpness of the Humours, and breaks their Points, and confequently flops the Flux of the Belly : Dofe from half a Scruple to two Scruples; 'tis call'd Rubinus from its red Colour, and Carbunculus from its Reflexion, looking like a red-hor Coal of Fire.

> > 6. Of

6. Of Lapis Lazuli, or the Azure Stone.

THE Azure Stone, which is most commonly call'd Lapis Lazuli, and by some Lapis Cyaneus, and Lapis Stellatus, is a heavy Stone of a Sky Blue, fomerimes full of Rock Stone, and most frequently streak'd with Veins of Copper, which the Ancients, and fome Moderns, believ'd to be Gold : The greatest Part of the Stone that we have comes from Perfia and the East-Indies; and some affirm that it is usually found in Gold Mines, and that it is the Marchasite of that Metal: However it is certain that this Stone is got out if a Quarry as other Stones are here, which is the Reason we have it of all Sizes; the Lapis Lazuli to be perfect and fit for Making the Ultra-marine, which is the chief Use it is put to, except the fine Works made of it; ought to be heavy, of a deep Blue, like fine Indigo, with as few Copper or Sulphureous Veins as possible, and take Care it be not rub'd with Oil Olive, in order to make it appear of a deeper Blue; but the Cheat is not hard to discover, because it ought to be of as fine a Blue within as without; likewife refuse such as is full of Stones, and the pretended Veins of Gold; so that when it is burnt to make Ultra-marine it will flink extreamly, having a fulphureous Smell, which shows that it proceeds from Copper, and not from Gold.

There is an Error some People are guilty of in believing, as some have prerended, that this Stone, when fine, will encrease its Weight in the Fire: This is certain, that the finer this Stone is it will lole the less in the Fire; and that there is some of it that loses fo little that 'tis not worth speaking of; but let it be never fo good it will always lofe fomething; fo far is it from being encreas'd in Weight: You ought to put the Stone into the Fire to see if it be good, for if so it will not change its Colour for being heated hot. The Choice of this Stone is quite otherwise than has been described by others, who say that that which is full of yellowish or golden Veins ought to be most valued, which I maintain to be falle, fince the more it is fo, the less it is esteem'd, especially by those who know what Use they delign it for namely, to make Ultra-marine, wherein you must beware of the greenish Stone, very common in France, which is found about Toulon, or that it be not a counterfeit Stone, made up of Tin and Saphre, as has been observ'd. This Stone is of some small Use in Medicine, because it is put into several galenical Compositions, as Confection of Alkermes, &c. There are Authors who attribute great Virtues to this Stone, and amongst others Monsieur Demeuve, to whom the Reader may have Recourse; and there are several others who say that Lapis Lazuli, and the Armenian Stone, are almost alike, which will be found to be falle, as you will fee in the next Chapter.

Lapis Lazuli, Lapis Cyaneus, Lapis Ceruleus, or the Azure Stone, is Lemery. of different Sizes and Figures, being opaque, heavy, and of a blue Colour, intermix'd with Streaks of Gold and Copper; it is found in Quarries in the East-Indies, and in Persia, and some say in the Gold Mines; its Use is chiefly to make Ultramarine of, for which Purpole chuse the cleanest, weightiest, of the highest Colour, and best Blue; it contains a great deal of Sulphur and Salt. To make Ultra-marine, they calcine this Stone, and grind it fine on a Porphyry, and mix it up in a Pafte made of fat Pitch, Wax, and Oil; then they wash this Paste well to separate the blue Part which precipitates to the Bottom in a very beautiful Powder; they pour off the Water leafurely, and dry this Powder, which is for the Painters Use. Lapis Lazuli prepar'd purges melancholy Humours, fortifies the Heart, and is us'd in the Confection of Alkermes: The Dose from half a Scruple to a Dram. There is found near Toulon in France, Germany, and feveral other Parts of Europe, a falle or baftard Lapis Lazuli, that is greenith and thicker, which is imploy'd for common Ules.

Of Ultra-marine.

Ultra-marine is, properly speaking, a Precipitate made from Lapis Pomet.
Lazuli; [as you have it describ'd
by Lemery above] and some say it took its.
Name of Ultra-marine, from being made
A a 2

beyond the Seas , the first of the Kind com- paration given them ; the finest Sort ought the Name was given it, because this Blue is lour. much more beautiful than that of the Sea. Ultra-marine was made in England by one Stone is of different Shapes and Sizes, Colour, well ground, which is known by phisticated; hear a little of it red-hot in a Lazuli, in that it is not so blue, but fuller of the true; for if it is adulterated there will be black Spots in it: Its Use is for Painting in Oil and Miniature. The Manner of preparing Ultra-marine is describ'd in so many Books, I thought it needless to repeat it here; I shall only say, that those who prepare it make it into four Sorts, which proceeds from nothing else but the different Wathings of the Powder, whereof the First is abundantly more beautiful than the Laft.

7. Of the Armenian Stone.

THis is a little Stone of the Size of a Buller, of a greenith Blue without and within, adorn'd with small white gliftering Sparks, rifing beyond its Surface, like Spar or finall Diamond Sparks. They attribute great Virtues to this Stone, as that it is good to cure the Falling Sickness, Melancholy, and the like. This Stone is ground and wash'd to free it from the Spar and little Sparkles, as it were Sweepings of Gold, tho' 'tis only Sand, and afterwards dry'd and brought to us by the Name of Powder Green, or Verditer, which is us'd by the Painters; but more especially by those, who to encrease their Mountain Green, mix equal Parts of both together to make this come cheaper, that so they may get more Money by it; for which Reason never buy any Mountain Green but of Persons you can trust, and such as has the Marks describ'd, when treating of it; and besides when a little of it put upon Paper stains it not, but is like Sand, which is a Sign 'tis not mix'd with Verditer. We fell several Sorts of Verditers which have no Use is for the Painters. other Difference but according to the Pre-

ing from Cyprus; but others will have it that to be very dry, fine, and of a high Co-

Armenus Lapis, seu Lapis Arme-A Friend of mine affur'd me that the first nis, feu Melochites, the Armenian Lemery. of the East-India Company there. You but most commonly round, uneven, rough, ought to chuse that which is of the highest as big as a Nut, of a Mixture of Colours, Blue, Green, white, &c. It is brought from chewing of it betwixt the Teeth, and if it Armenia, whence it derives its Name; but is gritty it is a Sign that it is not well ground: at present it is also found in Germany, as in and to discover if it is genuine and not so- the County of Tyrol; it differs from Lapis Crucible; if its Colour is not chang'd 'tis a droffy Stone and other Impurities; and that this is taken from the Silver Mines, whereas the other is found in the Gold Mines. Chuse that which is of the deepest Colour. They grind this Stone and wash ir, to separate the finer Parts, or the Sand which shines like Spangles of Gold; and this, when dry'd, they fell by the Name of Verditer, for the Painters Ufe. This Armenian Stone, prepar'd, is deterfive, and deficcative or drying, being outwardly apply'd, and inwardly purges melancholy Humours; it is good for the Epilepsie, &c. The Dose from a Scruple to a Dram,

8. Of Smalt or Powder Blue.

Dowder Blue is either a Composition, or a Stone pulverized, Pomet, which we have from England and Rollen, whither it is brought by the Swedes, Hamburghers and Danes : The greatest Part of this Smalt comes from Dantzick in Poland, as well as feveral other Colours, with Zink and Tin-glass; but this being a Trade known but to sew People, therefore those who deal in these Commodities directly from Dantzick, fell cheaper than those who trade from Holland, England, or Rouen. After all the diligent Enquiries I cou'd make, I found it impossible to find out what this Pomder Blue was, fome affuring me that it was a Composition made at Rouen; but as those who made it kept it as a Secret, I never cou'd discover of what it was; it ought to be very fine, of a deep Colour, and as dry and like to Ultra-marine as possible; its

Of STONES.

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9. Of the Jasper.

THere being various Sorts of Faspers, such as the Green, the Purple, Cérulean, Aurora, or Crystal like: I shall speak only of that which is fold in the Shops, which is the Green Jasper; and if it had not been of some small Use in Medicine, I shou'd not have spoke of it. Being a very precious Commodity, it is very liable to be counterfeited in Glass: Chuse such as are of a fine deep Green, smooth and shining, full of red Spots, as if they were little Drops of Blood, and which can take no Impression from the Point of a Needle drawn upon it, which is a Sign that it is truly Oriental. Some People affirm that the Green Jasper is very proper to cure the Epilepsy, and that it is a good Cordial; it is prepar'd as the Hyacinth and other precious Stones.

Jaspis, the Jasper, is a fine, hard, Lemery. Imports, resplendent, precious Stone, which differs little from the Agate, only that is not so hard and pure: There are a great many Kinds of it, but the Oriental is the best. It ought to be very hard, of a deep Green sported with Red, and it is of some Use in Physick, ground sine upon a Porphyry: The prepar'd Powder is aftringent, proper to stop Blood and the Scour of the Guts. Great Virtues are assigned it in the Epilepsy, also to strengthen the Stomach, and bring away the Stone in the Kidnies,

10. Of the Jade Stone.

Pomes. THE Jade is a greenish Stone, inclinable to grey, extreamly hard and very rare: This Stone is little us'd in Physick, but pretty much in several Sorts of Works that are very valuable, it being very difficult to cut. The Turks and Poles use a great deal of Jade to make Handles for their Knives, Sabres, Swords, and other Things, which they adorn with Gold; the Oriental is the finesh Jade,

Jade is a very hard Stone, of a greenish grey Colour; the finest Lemery; comes from the East-Indies. The Turks and Poles make several Uses of them, and it is difficult to work because of its excessive Hardness. Some pretend, that apply'd to the Region of the Kidnies, they are proper to bring away Stone and Gravel, but I can give no credit to such Remedies.

11. Of the Nephritick Stone.

HE Nephritick Stone is a greyish Stone, with a little Mixture of Blue in it, fo that it is usually of a bluish grey Colour, being fat and oily like Venetian Talck. This Stone is much valued by certain Persons for the Cure of the Gravel, which makes it so scarce, and fo much enquired after, because of its Virtues, which it performs by hanging about the Thigh of those who are troubled with the Stone or Gravel in the Kidnies, from whence it is call'd the Nephritick Stone: The Dearnels and Rarity of this Stone is the Reafon why some have substituted in its stead a Kind of green Marble, furnam'd Malaquitte, and cut and carve it like a Bird's Head, because the Ancients believ'd that the true Nephritick Stone resembled a Bird's Head, or the Beak of a Perroquet. The true Nephritick Stone comes from New-Spain; and whoever wou'd know further of it may read Mr. Worms, who has writ a large Description of it, too long to be inferted here.

Lapis Nephriticus, or the Nephritick Scone, is of different Sizes, Lemery, pretty hard, opaque, of a bluith Grey or Ash-colour, but sometimes mix'd with white, yellow, or black, and is not persectly smooth, because it is unctuous like Talck; it is found in New-Spain, sometimes with the Jasper, and sometimes alone: Some reckon it among the Kinds of Jaspers, making no great Difference, but only that this is the harder: For the most Part they are found like Whet-Stones in the Fields in great Lumps, so big, that a Cup may be made of them. Carolina affords pretty large ones, of about eight Inches long, three broad,



broad, and two thick, of an ash-colour'd hemia, and feveral Parts of Spain, but those are not to much effeem'd as what comes from America.

This Stone has the Property to ease the Stone Colick, to break the Stone in the Reins, and expell Gravel by Urine, being hung about the Neck, Thigh, or Arm: Some prescribe it to be taken inwardly, from four to fifteen Grains. Of latter Years there is brought into Use for the same Diseases, a brown, fmooth, thining Stone, which they call from its great Virtues, the Divine Stone; this breaks the Stone in the Kidnies, and forces it away by Urine; they tye it in their Cloaths about the Back.

12. Of Venetian Talck.

THE Venetian Talek is a Kind of greenish Stone in Scales or Flakes, which tho' it be fatty, is nevertheless very dry and heavy; the finest is that which is found in the Quarries, fituated near Venice, from whence it is call'd Venecian Talck. It is found also plentifully in Germany, England, and about the Alps. The best Talck is that which is in large, white, greenish, shining Stones, that being broken sparkle like Silver Spangles, and which being in small Leaves are white, clear, and transparent; but take Care that they be equally fine throughout; for that which is in great Stones is very subject to be bad, by Reason of a great many yellow or reddiff Veins that are found within, accompanied with a Kind of Earth that spoils the Sale of it; there are some of them also of a greenish White, instead of a reddish Yellow; so that we had better take that which is in moderate Pieces, which we may know at Sight.

Talck is much in Regard with the Ladies of Quality, who use it for a Cosmetick: and as it is exceeding difficult to reduce it into Powder, yea, or to calcine it, the Way is now to grate it with a Fish-skin, and then to fearce it, fo using it as Occasion shall require. Hence it is that almost none but fuch Talck, as is in moderate Pieces of a Size fit to be held in the Hand, is now call'd for.

Venetian Talck, while it is whole, is of Green: They are likewise gather'd in Bo- a greenish Colour; but being broken, or divided into thin Scales, it is known from English Talck by its Inclination to Friability, its green Colour and Fixedness in the Fire: For some who have kept it forty or fifty Days in a Glass-House Fire, have taken in out at the End of the Time, and found no Alteration in it, neither in Respect of Resolution, Colour, or Weight, but it has come out absolutely the same Thing as it went in. This Talck therefore being of so fixed a Nature, our Labour now must be to show how to open its Body in order to make those Preparations of it, which we defire, at least the noble White, which Ladies. with fo much Curiofity and Charges, feek after and pursue. It is true, there are a great many Men that boaft what Preparations and Secrets they have of Talek; but this we certainly know, that there is no liquid Substance of it, yet invented or known, made out of the simple Thing itself; but fuch as is compounded by the Mixture of fuch Salts as are able to penetrate the Stone; fo invincible is the Fixedness of the True Venerian Talck; therefore to attempt to calcine it, with Addition of some piercing Salt, is an unpardonable Vanity; but by the Help of some Salts, and acid Spirit, I confels a good Colmetick may be made of it. to change and whiten the Skin.

The Ancients, and especially the Arabians, were sometimes of Opinion, that from Talck might be drawn a Remedy, of fuch Efficacy as ever to preserve the Body in good Cafe, for which Reason they gave it the Name of Talck, as much as to fay, an equal Disposition of Body, according to which it is in perfect Health; and from hence, undoubtedly, hath proceeded the Vulgar Error concerning an Oil of Talck, which is so much commended, and to which such extraordinary Vertues are attributed; and fo prevalent hath this Error been, and still is at this Day, that whoever could find the Secret of getting an Oil from Talck, without the Addition of Salts or Acids, might be fure to fell it for its Weight in Gold; yea, I may venture to fay, twenty times more. But fince as I believe the high Commendations, and wonderful Vertues usually ascrib'd

shall say no more of it, but that some Perfons who flatter themselves with a Belief that they have the Secret of Making it, affirm that it is incomparably good for Whitening the Skin, Smoothing the Face, and in Word to make old People renew their Youth.

If Venice Talck be heated red hot, and put into an Iron Mortar almost as hot, it may be beaten in a small Time to a most fine impalpable Powder, which being fears'd may be mix'd with Ouguents and Pomatum, and us'd as other Cosmeticks of the like Kind. This Talck, thus pulveriz'd, may be ftrew'd among shell Snails, and left in a glaz'd Pipkin 'till they have suckt it all up; then having bruifed them with all their Shells, put the Mixture into a Glass Cucurbit, cover'd with its Head; distill the whole Mass, and you will have a Cosmetick Water good to cleanse and beautify the Skin with.

We have another Sort of Talck brought us from Muscovy and Persia, which they call Red or Leaf Talek, because it is of a reddish Colour, and easie to be divided into Leaves as thin as you please. This Red or Leaf Talok is only used, so far as I know, by the Monks and Nuns, who put it, instead of Glass, before their Pictures and Agnus's, but don't, as some Authors affirm, imploy to this Purpose the Venetian Talek. This then, as I have faid, being the only Use of the Leaf Talck, we ought not to meddle with any, but what is in large Leaves, and when split or divided into very thin Pieces, is of a Crystalline Clearness and Transparency. There is not almost a more curious Commodity in the World than Leaf Talck with the required Qualifications, for as much as it is very rare to be found. 'Tis a Thing so very hard to understand, that I would not advise any one to buy any, but what is approv'd by those who work in it: That which, being thick, is blackish, and may be divided into Leaves extremely thin, is judged to be the best.

Talcum, or Talck, is a Kind of Stone, or a mineral Matter, that is fine, white, fmooth, foft to the Touch,

to it, proceed upon Supposition it could shining and transparent, dividing into be had, which is impossible, therefore I Leaves or Scales that will not burn; fome call it Stella Terre, because it shines like a Star: There are two Kinds of it; one call'd Venetian Talck, and the other Muscovy Talck. The Venetian Sort is foft, fcaly, heavy, and appears greafy to the Touch, tho it is dry, of a Silver Colour. tending to green, fomething transparent : Chuse the finest white shining Pieces, upon the green Cast, that separate into little nice clear Leaves, or Flakes, that shine like Pieces of Silver. When you wou'd reduce this into Powder, rasp it with a Sea-Dog's Skin, or rather calcine it in a Crucible about a Quarter of an Hour; then heat it in an Iron Mortar almost red-hot, and fift it thro' a Sieve: It is us'd in Cosmetick Pomatums, by the Ladies.

The Muscovy Talek is hard, smooth, shining, and soft to the Touch, dividing or breaking into thin Leaves, that are almost as transparent as Glass, and sometimes it is reddish: This comes from the Quarries in Mulcovy and Perfia; chuse the finest and clearest; it serves them for Lanthorns, as we use Horn; but the Talck is more commodious, for it is more transparent, and not fo subject to burn. Talck is difficult to reduce to Ashes, by the Fire, because the Pores of it being small, the Parts of Fire slide thro without making any Impression. I attempted to calcine both Sorts by a Burning-Glass; that of Venice was chang'd by the solar Fire into a groffer, yellowish, opaque Matter; and that of Muscowy into a light farine, being very fine white Powder.

13. Of Brianfon Chalk.

HE Brianson Chalk is a Kind of Stone, Venetian Talek, but harder, and that does not so readily split or separate into Scales ; there are two Kinds of it, one white, and the other green, that are found in the Quarries or Pies near Brianson; they serve to take Greale-Spots out of Cloths, and for Taylors to mark or score with; chuse the neatest, imootheft, green and loft.

14. Of

14. Of Spalt.

SPalt is a scaly bright Stone, very like Parget Stone, except that this is whiter: They find Abundance of these Stones in Germany, especially about Ausburg; there are some likewise in England, but not fo good. We sometimes see Fragments of this Stone adhering to and mixt with Frankincenfe, a Sign that it is found in the Places whence it comes; it shou'd be in long brittle Scales that may be eafily crumbled to Powder with the Nail of one's Thumb, which can't be done by that of England, being more hard. Spalt is us'd by feveral Sorts of Workmen, being good to affift the Founders in Melting of their Metals, which I cannot affirm to be Fact, having never feen it try'd.

Spalt is a scaly Stone that is bright, and looks like Plaister Lemery. Stone, or Crystal of Montmartre, but it is much whiter: It is met with in England and Germany. The Founders use it to flux their Metals with; it is deterfive and drying, outwardly apply'd.

15. Of the Lapis Judaicus, or Jews-Stone.

THE Jews-Stone is of different Sizes and Figures; but the most common Size is that of an Olive, adorn'd with little Streaks or hollow Lines, running from one End to the other, and fometimes it is altogether smooth. This Stone is usually Grey, and fometimes of a reddish Grey, and thines like our little Flint Pebbles, of which I believe it to be a Species. These Stones are brought us from different Parts of Judea, from whence they take their Name: They are likewise call'd Syrian and Phanician Stones. This Stone, tho' it be like a Flint, it is nothing so hard, yet not to easie to break as some Authors have as-

phur, from it, with distill'd Vinegar, Spirit of Salt, and Spirit of Honey, may be drawn a falt that is admirable for breaking the Stone: where those who defire to prepare it may be instructed therein.

Lapis Indaicus, Lapis Syriacus, Phanicites, Tecolithus, or the Jews- Lemery. Stone, is of various Forms and Bigness, but most usually is shap'd like a small Olive, streak'd all over with Lines that run thro' the Length of it, and are equally distant one from another; some are found smooth without any, and some in a Cylindrical Form: The Colour is grey, and fomerimes reddiff without, and whitiff within: It appears to be hard like a Flint, but is foft and may be eafily beat to powder: they are diftinguish'd into Male and Female : the Male is that which is large, long, and of a Cylindrical Figure; the Female is that which is of the Shape and Size of a small Olive: They are both indifferently us'd in Physick, being first ground to a fine Pow-der on a Marble. This Powder is given to ftop Fluxes of the Belly, to provoke Urine, and to break the Stone in the Kidnies and Bladder.

16. Of the Lapis Lyncis, or Thunder-Stone.

THE Belemnites, falsely call'd the Lynx Stone, is a Kind of Pomet. Flint made in a Pyramidal Form, to which the Ancients gave the Name of Belemnites, from its Refemblance to a Dart or Arrow, and others of Dastylus Ideus, from its Likeness to a Finger, and because it is found on Mount Ida; others fay it was call'd Lapis Lyncis, because it was believ'd that it was form'd from the Urine of the Lynx. This Stone is harder than the Jews Stone, notwithstanding they attribute the same Virtues to it: And Mr. Charas told me it might be prepar'd after the same Manner, and used for the same Purposes. This Stone being broke is of the Colour of Horn in serted; but being broke it is of a whitih the Concavity, in which is found a Sort of Grey, and shining. Mr. Charas, in his grey dry Earth, of an insipid Taste, and Book of Chymistry, at the 821 Page, says, like to be good for nothing: At the End of that this Stone being calcin'd with Sul- the Stone there also appears, as it were, the Resemblance of a Sun. Plenty of these Stones are found about Paris, in digging and Iabouring the Ground, especially in landy and gravelly Soils.

Belemnites, sive Lapis Lyncis, Lemery. Sive Dactylus Ideus, the Thunderftone, or Thunder-bolt, is about the Length and Thickness of a Man's Finger, fometimes more, and fometimes lefs, round, pointed, or in a pyramidal Form, like an Arrow: They are found of different Colours, fometimes white, and fometimes grey, and fometimes brown, brought usually from Candia; but they come likewise from Germany. They find the same about Paris, in the fandy Grounds, and there are two Sorts of 'em; one that being put upon the Fire will yield a bituminous Smell, and the other none at all. The first is plainly, that which the Ancients call'd Lyncurius, and believ'd fallely to be a Kind of Succinum, or Amber that was made from the Urine of the Lynx coagulated. The Stone being broke they find in its Concavity, that looks of a Horn Colour, a little dry grey Earth, without Smell or Tafte. This Stone is us'd to break the Stone in the Kidney, and to expell it by Urine, being taken inwardly: It is also us'd externally to cleanse and dry Wounds; it is ground on a Marble to reduce it to Powder.

17. Of the Bolognian Stone.

THis is a heavy Stone of a shining Silver Grey, very like in Figure to the Nephritick Scone, which is found very commonly about Bologna in Italy, whence it takes its Name. This Stone is of no other Ule than, after Calcination, to make the Phosphorus, of which Mr. Lemery treats fo largely at the End of his Book of Chymistry; and likewise Mr. Worms, he having writ a long Discourse of it, whither those who defire to make it may have Recourfe: The Bolognian Stone is not yet well known amongst us, which is the Cause we sell so little of it. Some call this Stone calcin'd, the Sun or Moon Spunge, the illuminated Stone; Lucifer, Cassiolanus his Stone, or Kercher's Phosphorus.

Lapis Boloniensis, Chrysolapis, or the Bolognian Stone, is a Stone where- Lemery. of a Phosphorus is made: It is ordinarily of the Biguels of a Walnut, bunch'd, uneven, flattish, and dispos'd in such a Manner, that the Side opposite to the Bunch or Knot, makes a Kind of Cavity; it is heavy, grey, foft, shining in several Parts, Crystalline within, almost like Talck of Montmartre: It is found in feveral Parts of Italy, but chiefly at the Bottom of Mount Paterno, which is a Part of the Alps, and diftant from the City of Bologna, about a League; they are easily discover'd after the Floods of Waters that happen from the great Rains; for then the Earth is wash'd and clean'd that furrounded them, and hinder'd them from being feen: They are diftinguish'd from other Stones of the Mountain, by little Sparks that appear on their Surface; and we may fee, in the Cabinets of the Curious, some of these rhat weigh to five Pounds. These large Stones are no otherwise valuable than for their Scarcenels, they being more earthy than the small ones, and not so good to make the Phosphorus of.

The best Bolognian Stones are those which are found cover'd on the Outside with a thin, white, and opaque Crust, but these are very rare; and since we cannot come at them we use the common Sort, which shou'd be chose with the sewest Spots, and that are bright; the worst are those where there appear Veins of Vitriol or Iron; these contain in them much more of Sulphur and Salt

The Bolognian Stone is prepar'd and reduc'd into a *Phosphorus*, by a moderate Calcination, that purifies and exalts the Sulphur more than it was, This Calcination is made in the following Manner: Take feven or eight of these Stones cleans'd on the Outside with a Rasp, or a Knife, and powdering very finely one or two of the most thining of them in a Brass Mortar, throw the others whole, one after another, into clear Water; and having taken 'em out, cover them intirely over with the Powder, by rolling them in it, that they may lick up as much as they can; then put them into a little Furnace or Stove, with a Brass Grate, upon which you must lay them in order, with a Fire under them to calcine; Vol. II. ВЬ

which when done, let the Fire go out of it- likewise given you the Figure of a Furnace felf; and when all is cold, take off your calcin'd Stones gently from the Grate; fepa-rate the Cruft, which comes from the Powder in which you have roll'd them, and keep the Stones in a Box with Cotton; preserve likewise the Crust which is to be reduced in-

to an impalpable Powder.

These calcin'd Stones are the Phosphorus, which being expos'd to the Day in an open Field or Street, are lighted, as it were in an instant; after which, if they are carried into a dark Place, they will appear like lighted Coals without any fenfible Heat, and you may extinguish them by little and little; but if you let in the Light they will burn again, and thus they will last for two or three Years together, according as they are more or less frequently expos'd to the Light; and when these Stones have lost their Virtue they may be reftored again, by observing the fame Circumstances as before, but their Brightness will be much less. The Crust reduc'd into Powder is likewife finer and more illuminating, when expos'd to the Air, than the Stones; they fill little Bottles of fine Crystal with it closely stopt, which they keep to give Light when they please, for they are not oblig'd to expose it to the Air as they do the Stones, the Crystal not giving any Obstruction to the Light from the Pow-

One must not imagine that any of the several Circumstances that I have shewn for the Calcination of the Bolognian Stone are useless; for they are so necessary, that if they be not all exactly oblerv'd, the Operation is loft, and the Stone will give no Light: This Stone acquires, by Calcination, a sulphureous Smell, like melted Orpiment; and when it is boild with Lime and Water, it yields likewise a little Arsenical Salt.

The Reason why it appears light proceeds from the Fire mixing with the Sulphur in its Motion, which railes to the Superficies an Infinity of Particles that are so subtle and delicate as to take upon Light, or the Motion of the Air; but those who defire to be more fully inform'd in this Matter, may read what I have faid in my Treatife of Chymistry,

that is most convenient and proper for Calcining this Stone, which is a Depilatory; and being powder'd and mix'd with Water to the Confistence of a Paste, may be apply'd to any Part of the Skin where there is Hair to be taken off: It is call'd Phofphorus, or Lucifer, from bringing of Light, and Chryfolapis, from casting a Light of a golden Co-

18. Of the Pumice Stone.

HE Pumice Stones, which the Latins call Pumex, are Stones Pomet. of various Colours, Shapes and Weight, being white, greyish, light, heavy, big, little, round and flat; they are valued more or less according as they are demanded; for fome esteem the white, others the grey, some the light, and some the heavy: Notwithstanding which, I must tell you, that the largest and lightest are most set by, especially for those who make Parchment, and Stone-Cutters, who confume Abundance; but the small are scarce us'd but by the Pewterers, who reduce them into Powder. As to the flat Pumice Stones, they are not us'd but by the Curriers; in a Word, the Pumice Stones are of fuch Use, that we have scarce any Commodity whereof there is a greater Confumption, there being fuch Abundance of Workmen that use 'em. As to Physick, the little Use made of it is not worth speaking of, fave only that after Calcination and Powdering, it makes a Dentrifice for the Cleaning of the Teeth.

As for the Nature and Constitution of this Stone, I have not yet been able to come to the Knowledge thereof; wherefore I shall rest satisfied with what several Authors say of it; namely, that it is a Stone thrown out of Mount Vesuvius, or Mount Æina, and by the Violence of the Winds carried into the Sea, where it is found swimming on the Surface, from whence 'tis taken : Others lay they are the Stones of Mountains that have been burnt by subterranean Fires. However, 'tis certain, that the Pumice Stone is a where I have spoke not only of this Kind of calcin'd Stone, because it is light and porous, Phosphorus, but of several others; and have or full of Holes, and that it has been in the

Sea, or is of a falt Nature, for as much as near Trevoux in the Principality of Dombes. all the Pumice Stones we fell are of a falt It is now no longer believ'd that they are and brackish Taste, and full as it were of found in the Eagle's Nest. little Needles.

fenny, or marshy Taste, full of small Nee- the Flux of the Belly. dles. They are found likewise in Sicily, near Mount Vefuvius, from whence they come; and in Germany, about Conflans, the Mofelle and the Rhine; they are alkaline, deterfive, drying, us'd for old Ulcers, fore Eyes, and to clean Teeth.

19. Of the Ætites, or Eagle Stone.

WHat we call the Eagle Stones are certain Stones that are hollow in the Middle, and contain in them a ftony Nut or Kernel, that makes a Noise when we thake them; we commonly find but four Sorts of them, that are indifferently call'd in Latin Lapis Ætites, but the Kernel Callimus. The first Sort is brown, oval, usually the Length of two or three Inches and half a one broad, rough or knotty, and that takes a good Polish: The Second is fomething less than the other, and seems to partake much of Iron, for it is cover'd with an Ocre like the Iron Marchafite. The third Sort is rough and uneven, as if it was compos'd of Fragments of little shining Flints of different Sizes, whereof some are brown, and others of a ruffer Colour, and fome as it were transparent; and all these Flints are strongly knit together by a natural Cement, and most commonly nothing is found within it but some Grains of Sand. The fourth Kind is of an ash Colour, and contains within it white Clay or Marle; this Sort comes from Germany: The First and Second are found in the Bogs of Cape St.

It were to be wish'd that the Virtues at-Pumex, or the Pumice Stone, is tributed to the Eagle Stone were as certain as Lemery, a Stone or Earth that has been cal- they are confiderable; Authors affirming that cin'd by subterranean Fires, thrown it facilitates the Birth, if tied to the Thigh out by Eruptions of the Vulcano's, and by the of a Woman in Labour, and that it hinders Force of Winds, carried into the Sea, where Miscarriages if tied to the Arm; they beit is found floating; there are several Kinds lieve that reduc'd to Powder, and mix'd in of it, the large, small, round, flat, light, a Cerate, it lessens the Paroxysms, or Fits of heavy, grey, white, &c. the most valued the Epilepsy, if apply'd to the Head: 'Tis are the biggeft, lightest, and the cleanest; also said, that the Marle or Clay that is found they ought to be porous, spungy, of a salt, in the Hollow is sudorifick, and will stop

> Ætites Lapis, or the Eagle Stone, is a Stone commonly round or o- Lemery. val, of the Bigness of a Walnut, and sometimes of a small Pullet's Egg, of a greyish or dark Colour, hollow in the Middle, wherein is contain'd a Sort of stony Kernel, that rattles in the Stone when you shake it. There are four Kinds, [according to Pomet's Description] all which have great Virtues affign'd them, which are nothing but imaginary, Experience not confirming them with any Pretence of Certainty: It is aftringent, and proper to ftop Loolenesses and Hemorrhages, taken inwardly; the Kernel, which is fofter than the Stone, is more advantageous for all the fame Purpofes: They are call'd Ætites, that fignifies Aquiline, or of the Eagle, because it was believ'd that the Eagles furnish'd their Nests with these Stones to preserve their Young.

20. Of the Toad-Stone.

THE Toad-Stone, call'd in Latin, Bufonites, and Batrachites in Greek, Pomet. is a Stone likewise found in the Mountains, or the Plains. It has been believ'd that it was bred in the Head of an old Toad, whence it was voided by the Mouth of that Creature when put upon red Cloth: But Boetius, and those who have made exact Enquiries after it, affirm that this Stone is form'd in the Earth; there are commonly two Sorts, to wir, the round and the long: The round Toad-Stone is of the Shape of a Vincent in Portugal, and in the Mountains small Bonnet, round in Circumference, hollow below, convex above, and very smooth, venemous Beafts, they draw out the Poison. about half an Inch broad at the Bottom; fome of them of a deep grey inclining to blue; and there are others of a reddiff Colour; but both Sorts are usually of a much lighter Colour at their Bottom. The long Toad-Stone is most frequently of an Inch long, and above four or five Lines thick, hollow'd like a Trough on one Side, and of a convex Figure on the other: Some of those are of a deeper, and some of a lighter Grey, marked with some reddish Spots, and smooth as the round: They fer them, especially the round Sort, in Rings; but that is more for Ornament that any Virtue in them, for they are very uncertain in their Effects, especially when they pretend that they allay the Inflammation occasion'd by the Sting of Bees, or other Infects. It is falle that it changes its Colour, and fweats when it approaches a Cup wherein there is Poison; tho' Boetius and others affirm, that the Toad-Stone is found in the Ground, nevertheless I shall not contest or dispute, but that it may be bred in the Head of old Toads, tho' it is certain what we now fell comes not from these Animals, but is found in the Earth, as has been observ'd. This Description of the Toad-Stone, and that of the Eagle Stone were given me by Mr. Tournefort, who is a Person on whom we may depend.

Bufonites, Chelonites, Batrachi-Lemery. tes, is a Kind of precious Stone, whereof there are two Kinds, one round, and the other long. The First is round in its Circumference, hollow on one Side, and convex on the other, in Form of a little Cap or Bonnet, about half an Inch broad at the Basis, very smooth, sometimes grey, brown, black, green, and of various Colours. The second Sort is sometimes more than an Inch long, and above four or five Lines thick, [according to Pomet's Description]. The Size of these Stones are sufficient to undeceive those who believe that they are taken from the Heads of Toads, for they are found in the Mountains, and the Plains

where they are produc'd.

Some pretend, that being powder'd and taken inwardly, they are capable of refifting the Plague and other malignant Diseases; that being apply'd to the Stinging or Bitings of

Some hang them about their Neck for Quartan Fevers; but all these Virtues are imaginary, for the Toad-Stone has nothing in it but an alcaline Quality proper to absorbe Acids, and to stop Looseness, taken from a Scruple to half a Dram; but it is not in Use.

21. Of the Lapis Aminantus.

HE Lapis Amiantus is a Stone of a greenish Black without Pomer. and within, pretty heavy, that being broken is almost like Plumous Alum, in that it rifes in Threads of a whitish Green, or rather of a Horn Colour. This Stone is incombustible, and the Ancients were not much deceiv'd when they said the Lapis Amiantus and the Plumous Alum were the fame Thing: There is notwithstanding some Difference, in that the Plumous Alum rifes in long Threads; and this, in short : besides the Extremities of the Plumous Alum, are not of a Colour with those of the Lapis Amiantus. This Stone is found in Turkey, for all that we fell comes from Constantinople; as to the Choice of it, or its Ule, I know nothing. Amiantus, five Albeston, five Al-

bestes Lapis, is a Stone of a Mine- Lemery. ral Substance, or a Kind of Talck that has a near Refemblance to Plumous Alum. which feveral People confound one with the other, believing them to be the fame Thing: It is found in two different Forms; for the one is in Filaments or Strings, like those of Plumous Alum, but much longer; the other is in a brown or blackith hard Stone, but that will spread under the Hammer. Ancients spun Amiantus and made incombuftible Linnen of it, which, amongst other Uses, served them to wrap their dead Bodies in when they burnt them to preferve their Ashes: The Corps burnt while the Linnen remain'd entire. This Stone is found in the Quarries near the Pyrenées, Amiantus is us'd in some Remedies; they believe it refifts Poison, cures the Itch, and is deterfive.

22. Of Cobalt.

Obalthum, or Kobaltum, is a red-Pomes. dish hard Stone, that is heavy, and in Grains of the Size of our Peas, that ftick

and is a Plague to the Workmen, being a dangerous Poison: For if by Chance it fall into the Water, and that the Miners be oblig'd to go into that Water, they are fure of having their Legs all ulcerated. This Cobalt is much different from that of some Authors; who have thought it to be Cadmy, or Lapis Calaminaris; but they are grofly mifraken, fince 'tis easie to see the Difference. As to its Ules they are unknown to me, and its Scarcenels makes that there is little Demand for it.

Cobaltum, five Kobaltum, is a Sort Lemery. of Marchafite, or hard, heavy, reddish, granulated Stone, many of which are collected together upon a Mine-ral Body like Antimony. This Stone is com-pos'd of a Kind of Natural Cadmy that is found in the Silver Mines; it is a strong violent Poison, yielding a burning Arlenical Salt, a Sulphur and an Earth compos'd of fome Metallick Parts: It is caustick, and upon the Flesh, and eats off Excrescencies.

23. Of Osteocolla, or the Bone-Binder.

the one heavy, gravelly, uneven, and call'd Ofteocolla from Ofteon and Colla, which pretty round; the other light and less is as much as to say Bone-Gluo. like a Bone, whereof there are two Kinds;

flick several of them together upon a Kind ragged. The Ofteocolla is found in several of Spar or Marchasite, like Antimony. This Parts of Germany, where they call it Ben-Cobale is usually found in the Silver Mines, biru, but chiefly near Spires, Heidelberg, and D' Armstadt. They pretend that this Stone has the Power or Faculty of fetting a broken Bone when taken inwardly, as well as when apply'd to the Fracture.

Besides all these Sorts of Stones already describ'd, we sell several other Kinds, such as that of Asso, the Serpentine and Blood Stone, which is a Sort of Marble full of little red Spots, from whence it takes the Name of Blood Stone, as also because it is pretended that it stops Blood: The Star-Stone, Rock-Crystal, Alabaster, and many others, whereof several Authors have treated at large.

Osteocolla, Ostiocolla, Osteites, Stelechises, Morocheus, Holosteus, Osteo- Lemery. lithus, Lapis Sabulofus, Lapis Offifragus, or the Bone-Binding Stone; is a fandy hollow Stone, of an ash or whitish Colour, having the Shape of a Bone of different Sizes; some are met withal as big as one's Arm; we have two Sorts of them; one round, uneven or rough, fandy and being apply'd externally makes an Eschar heavy, the other smoother and lighter; it flicks to the Tongue like Pumice Stone : Both Kinds are found in several Parts of Germany, as the Palatinate, Saxony, and where they grow in fandy Places: It is us'd to agglutinate and restore in a little Time broken Pomer. THE Osteocolla, or Bone-Binder, Bones, being apply'd upon the Part, and is a sandy Stone, and porous taken inwardly at the same Time. Dose from balf a Scruple to two Scruples: It is

End of the Fifth BOOK.

by one of his Friends, is an Marin riace, is no Postational and Say the Second of tound in the Leavest, what exists call is also be such as the highest blood and the highest bl

BOOK the Sixth, of the Second Volume.

Of EARTHS.

The PREFACE.

IN this Book are contained not only the Earths that are of Use in Medicine, but likewife those which are serviceable to the Painters; in a Word, all that are soft and apt to crumble, and for this Reason have not been rank'd among the Stones. I comprebend in this Book whatever is made from Earths; that is to Jay, that are related to our Business: I put into the Number of the Earths the Catechu, or Cachou, not because of its Likeness to an Earth, but that most People will have it to be one as the Name imports, and will appear in the following Chapter.

1. Of Cachou, Cashew, or Japan

CACHOU, according to Mr. the Faculty of Paris, fuitably to what was communicated to him by one of his Friends, is an Earth that is found in the Levant, where it is call'd Maf-

it up, Sand and all together, and wet it with River Water, and make it into a Paste, drying it in the Sun to the Hardness we see it of; the Natives always carry it about them, and use it for the Pain of the Stomach; they also apply it outwardly like an Oyntment upon the Region of the Stomach.

Tho' this Description of Cachou appears not very conformable to Truth, because there is no Probability of its being an Earth; quiqui, which is usually met withal up- yet as the Person, who gave this Description on the highest Mountains where the Ce- to Mr. Caen, affur'd him that it was so; and dars grow, under the Roots of which this for as much as 'tis call'd in Latin Terra Ja-Earth is found, which of itself is very hard, ponica, I was oblig'd to rank this in the Class and in a Lump. To lose nothing of this of Earths, and leave it to those to determine Earth, the Natives call'd, Algonquains, gather what it is, who understood more of it than I

chuse Cachou of a tawny Red without, and of a clear Red within, the brightest and least burnt that can be.

As Cachou is a very bitter Drugg, and of an unpleasant Tafte when taken in the Mouth; it is usual to reduce it into a fine Powder, and to mix it with Ambergrise, which with the Mucilage of Gum Tragacaneh, is made up into a Paste, and form'd into little Pellets, in Colour and Figure having the Resemblance of Mouse's Dung, and the fmaller these Troches are made the more valuable are they.

The Use of Cachou, whole or prepar'd, is to ftrengthen the Stomach, and to make the Breath sweet; and in shore it is one of the best Druggs we have, and yet at this Time the least used, which proceeds from the great Use of Tea and Coffee, tho' Cachou is of much greater Virtues than either of them.

As Cachou is very unpleasant to the Palate, especially when first put into the Mouth; therefore some People, besides the Ambergrise, mix Sugar with it.

Catechu, sive Terra Japonica, or Lemery. Cachou, is a Sort of dry'd Paste, hard, a little gummy, reddiffs, having the Form and almost the Hardness of a Stone, of a bitter and auftere Tafte at the Beginning, but leaving afterwards a fost and agreeable Impression in the Mouth; there are two Sorts of it, the first and most common is compact, heavy, of a reddiffi brown Colour, ftreak'd with little whitish Rays: The Second is more porous, less weighty, and paler than the first. We are not sufficiently inform'd concerning the Nature of Cachen; some saying it is a Paste prepar'd by the Japanners, with the Extract of Areca, Calamus Aromaticus, Liquorice, &c. mix'd and harden'd together over the Fire: Others pretend that it is made with the Juices of Areca, and the green Bark of a thorny Tree of Japan, call'd Catechu, and thicken'd together by feal'd, or Lemnian Barth, is a Lemery. Heat. Others, as some Moderns main- Kind of Bole, or fatty clayey tain, that it is an Earth from the Le- Earth, that is dry, foft, and friable; fomevant, call'd Masquiqui, [as describ'd by times yellowish, whitish, or reddish, infi-Pomet]; but after all Cachon does not appid, and aftringent to the Tafte; they bring pear to the Tafte to be any Thing of it sometimes into the Isle of Lemnos, but

do : All I shall say is, that you ought to an Earth, but rather a thick Juice; befides, there is drawn from it, by Chymical Analysis, a great deal of Oil and Effential Salt, like what is drawn from Plants. It is good to strengthen the Brain, Lungs, Stomach; against Catarrhs, and to correct a flinking Breath.

2. Of Seal'd Earth.

TErra Sigillata, or Seal'd Earth, is a Kind of white Bole, Pomee. fometimes a little reddift, that is moisten'd with Water, and afterwards form'd into little Cakes half round, of the Bignels of one's Thumb, upon which is stampe feveral Characters: The Variety of Figures, Colours, and different Seals, that are found upon the Terra Sigillata, makes me think that every one makes em to his Fancy; and that it is nothing but a fat aftringent Earth, that is more or less. colour'd, and reduc'd into fuch Cakes as are brought us. I shall not stop here to relate all the fabulous or true Stories which the Ancients have told concerning the Native Place whence this Earth comes, and the Ceremonies us'd when it is gather'd, nor how the Grand Signior figns it with his own Seal, Go. but I shall tell you that the Earth that is most us'd and efteem'd, is that which is in little reddiff Cakes, the least fandy or gravelly, and the most aftringent that you can-

It is much used in Medicine because of its aftringent Quality: It is also an Ingredient of Venice Treacle, and needs no other Preparation than to have the abovedescrib'd Qualifications.

As to the Earth of Lemnos, 'tis faid to be the same with the Seal'd Earth, but in its natural State, without any Impression upon it.

Terra Sigillata, Terra Lemmia,

Germany, Blois, and several other Parts: Levant, and because it fits the Gilders best. It comes ordinarily form'd into little round Cakes about the Thickness of one's Thumb, the Charge in transporting em to Paris from roundish on one Side, and flat on the other, by a Signet engrav'd with some and other Places about Paris, because the Arms or certain Devices that the Prince Pealants bring it us at a cheaper Rate of the Country causes to be put upon it, than we can buy the other. The best is and this is the Reason why it is call'd Seal'd Earth: That of the Ancients was yellow, and made into Cakes much smaller than these at present are, and had engrav'd upon 'em the Arms of Diana under the

Representation of a Goat.

Chuse your Seal'd Earth that is loft to the Touch, clayey, apt to crumble, and of a whitish red Colour, that will cleave to the Tongue; they tinge or colour it fometimes with Turmerick, or some other Drugg, to make it come up to the Colour of the Ancients, which is the true Lemnian Earth, and was taken from a Hill where no Plant grew. The Turks, who are the present Masters of it, mix this with other Earths of the same Nature; and having kneaded them together with Water, make 'em up into little round Cakes, which they feal with the Grand Signior's Signer to make it pay Duty. This Earth is a good Antidote against Poison, proper for Fluxes, Hemorrhages, Gonorrhea, Whites and Vomiting. Dose from half a Scruple to two Scruples; it is outwardly us'd to ftop Blood, dry up Wounds, and strengthen the Joynts.

3. Of Fine Bole, or Bole Armoniack.

Pomet. IF we have several Sorts of Seal'd Earths we have not less of Boles, whereof the most esteem'd is that which has its Name from the Levant or Armenia, whether because it formerly was brought from those Parts, or that those who deal in it may make it fell the better; but as I have never feen any of that, and what we now fell is found in feveral Parts of France, I must inform you the best is that we have from about Blois and Saumur, or from Bourgogne, and which is of various Colours, as grey, red, and yellow; the yellow is the most valued,

it comes at present from Constantinople, because it passes the readyest for Bole of the

As these Boles are the dearest, because of Blois or Saumur; we prefer that of Baville the cleanest, smoothest, and well colour'd, of a light yellowish Red, which being tasted feems to melt like Butter in the Mouth; its Thickness is known by sticking to the Tongue: The counterfeit or adulterate Bole is of a sad deep Red, sandy and gritty, being indeed not of a third Part of the Price: It is very drying and aftringent, good against Fluxes and Gleets; it thickens thin Humours, refifts Putrefaction, and expells poylonous Bodies : It is likewise us'd in spitting of Blood, bleeding Wounds; and also to consolidate broken Bones, strengthen weak Limbs.

Bolus, or Bole, is a foft, brittle, reddish, or yellow Earth, which Lemery. is brought us in Pieces of different Shapes and Sizes; the finest comes from the Levant and Armenia, call'd Bolus Orientalis, seu Bolus Armena; but all the Bole we have, which is in Use amongst us at present, is brought from several Paris of France, and the best is about Blois or Saumur. As there is found in the Quarries or Pits a great deal of coarfe and gravelly Bole, they wash it to free it from the Gravel, then make it into a hard Paste, which they form into square Sticks, about a Finger long, which is call'd Bole in the Stick, and is us'd externally: Bole is aftringent and deficcative, proper to ftop Looineis, Dysentery, Spitting of Blood, to sweeten the Acids being taken inwardly: There is also a great deal us'd externally to ftop Blood, prevent Fluxion, and strengthen and consolidate. That which is call'd White Bole is an aftringent Marle, but not so efficacious as the Red Bole.

4. Of Oker.

THE yellow and red Oker is one Pomer. and the same Thing, for the natural Colour is yellow, and it is turn'd red

by Means of a Reverberating Furnace, in which they put it, to make it red by the Force of the Fire: All the best Mines of Oker in France, are in Berry; and among the rest, that which is at a Place call'd St. George, upon the Side of the River D'Ucher, two Leagues from the rona, which is brought from about City Viergon in Berry, where they dig it Verona in Italy, whence it takes its Name, out of the Earth, as they do Pit-coal. and the common Green.

This Oker is found 150, or 200 Foot deep in the Earth, of four to eight Inches and as green as may be, and take care that thick; only they find under this Oker a it be not inlaid with Veins of Earth. white Sand, like that of Calais, and above The common Green ought also to be of the Oker a yellow Clay good for no- the greenest, and as near resembling that

There comes likewise yellow and red that of France, but not so good, because it Colour, which is brought from Ground which they are forced to grind in a Mill; whereas that of Berry is more narural, fatter, and works better in Oil; to that the Dutch will not use the English Oker, but when they mix it with an equal Share of that which comes from

Both Sorts are us'd by the Painters, but that which is most fet by, is that which is dry, foft, friable, of the highest Colour and least gravelly.

There comes besides a Red Oker from ture of Dirt as possible, England, which we commonly call Brown Red; this is us'd by the Painters; but that which is of a much deeper Colour is call'd Putty, and they imploy it in polishing of Glass.

Ochra, in English Oker, is a Lemery. Mals of Earth that is dry, fat, will crumble, and is foft to the Touch, of a yellow or gold Colour, that is taken form some deep Pits in Berry; they calcine it in the Fire, 'rill it gains a red Colour, and then it is call'd Red Oker; both Sorts are ns'd by the Painters; they are resolutive, drying, aftringent, being externally apply'd. Some fay there is another Sort of Oker call'd Alanian Barth, or Tripoly, and Terra Albana; it is chiefly found in Alania, a Place near Scythia, but is brought to us out of the Mediterranean, being a Species or Kind of Oker,

5. Of Green Earth.

WE fell two Sorts of Green Earth, to wit, that of Ve- Pomet.

of Verona as you can get.

Terra Viridis, in French Terre Oker from England, which is browner than Verte, is a dry Earth, of a green Lemery. is naturally dryer, and comes from a ftony Verona in Italy, and is for the Painters

6, Of Cologn Earth.

Cologn Earth is an Earth altogether like that of Umber, ex- Pomer. cepting only that it is browner: This is of some Use to the Painters. You must chuse such as is tender, easie to crumble, the cleanest, with as little Mix-

7. Of Umber.

TMber, so call'd because of its being us'd in drawing Shades, is brought to us from Egypt, and other Places of the Levane, in Lumps of different Bigness.

In the Choice of this Earth you ought to take that which is foft, in large Pieces of a brown Colour, enclining to the Red. for this is better than the grey.

Its Use is for the Painters, and before it is ground 'tis usual to burn it, as well for Painting in Oil as for the Glover, which makes it become more reddith; the Fume of it ought to be avoided, as being flinking and offentive.

Vol. II.

8. Of Tripoly.

THE Tripoly is of two Kinds in France; the one they bring from Poligny near Renne, in the lower Breeagne; the other from a Place call'd Menna near Rion in Auvergne. That of Bretagne is most esteem'd, and the best, being more proper for Lapidaries, Goldsmiths, Braziers, and all other Workmen: It is raken from a Mountain at twenty or thirty Foot of Depth, and is found in Veins or Beds of about a Foot Thickness: They carry it to Redon, where it is fhip'd and transported to Nants.

That of Auvergne is not so valuable, being not at all fit for the Use of Jewellers, Goldsmiths, or Braziers, because it has not Substance; and also rises into thin Leaves like Paper, when 'tis dry. It is only us'd for scouring Houshold Stuff, and is found almost, in the very outer Surface of the

Earth.

'Tis faid that Tripoly is a Stone that becomes light by Means of certain Veins of fulphureous Earth that are burnt under the Tripoly, and which gives it the Quality of whitning, polishing, and brightning the Copper.

much fought after; besides which we have Silver. it in France, and there is no Occasion to

bring it from other Parts.

Alana, in French Tripoly, is a Lemery. light white Stone, tending a little upon the red, which they take from several Mines of Bretagne, Auvergne, and Italy. 'Tis believ'd that the Lightness of this Stone proceeds from its being calcin'd by the subterranean Fires. We have two Sorts in France; the first and the best is that from a Mountain near Renne in Bretagne. It is found laid in Beds of about a Foot thick, and is us'd by the Lapidaries, &c. to whiten and polish their Auvergne; this divides itself into Flakes or whereof several Authors make mention, Leaves, and is of no Use to the Lapidaries

or Braziers, but ferves to foour Pots and Kettles, and other Utenfils belonging to the Kitchin: It is deterfive and drying apply'd outwardly, but of no Use in Medicine.

9. Of Indian Red.

THE Indian Red, or Perfian Earth, is what we improperly Pomet. call English Red; this is a very dear Drugg, especially such as is in little Pieces, moderately hard, and of a high Colour. This Red is us'd by none but the Shoemakers, who steep it in the White of an

Egg to colour Shoe Heels with. We have besides this, several other Sorts of Earths that come from the Pits; as Marle that fome fell by the Name of White Bole, and many other wash'd Earths; as Rouen White, that of Seve and Port Neuilli, Champaigne Chalk, and others; of which we fell none, because we can easily come at them, as the Smeltim or Fullers Earth, which is a fat, smooth, flicking Earth that is heavy, fometimes yellowish, and sometimes blackish. This is much us'd by the Cloathiers in England; and because this Earth does almost the same Thing as Soap, the Latins call it Terra Saponaria, or Soap Earth; also the Mexican Earth, which is a very white There are also Mines of Tripoly in Italy Earth, which the People of Mexico make and other Places; but as this Commodity is use of to whiten with, and in Medicine like of little Value and Consumption, it is not Ceruse; and likewise it serves to polish

> The Marga is a Kind of white Stone very like to Champagne Chalk. The Lithomarga, or Stenomarga, is what we call Stone Pith, or Mineral Agarick, or Moon-Milk; this Stone is found in the Chinks or Apertures of the Rocks in feveral Parts of Germany, and different Names have been given to this Stone, because it is very white and crumbling, and that this Whiteness comes from its being calcin'd by the Vapours which arife from Metals

There is, belides, feveral other Sorts of Earths, as the Eretrian Earth, the Samian Earth, Chio, Selinufian and Cimolian Earths, Works. The fecond Sort is brought from and Tobacco-pipe Clay; with many others

As

As to the Preparation of Stones or Earths, that is done ordinarily two Ways, that is to fay, by grinding on a Porphyry or Marble, in like Manner as Sea Shells, Pearl, Hyacinth, Topazes, Emeralds, Sapphirs, Corals, Loadftone, Lapis Calaminaris, Tutty, and the like, are ground. The second Way is by pounding in a Mortar with Water, in order to reduce them to a fine Powder, as we do Lytharge, Ceruse, and Minium. The first, after they have been levigated, are made into Troches with Rose Water, and the next into Tablets with common Water.

Terra Perfica, or Indian Red, is Lemery. a dry red Earth that is brought us in little Stones that are of a moderate Hardness; the Shoe-makers use 'em to dye Shoe-heels red; chuse the deepest colour'd. Terra Saponaria, in French Smeltin, or Fullers Earth, is a Kind of flippery glutinous Earth, that is heavy, of a yellow or blackish Colour, and does the same Thing as Soap, whence it was call'd Soap Earth, or the Earth the Fullers use to scour with. The Terra Selinusia is a greaty or clayey Earth, that is very like that of Chio; it is aftringent and refolutive, proper to take away Spots and Chops of the Skin, to foften Tumours of the Breaft and Tefficles, and to refolve. The Chio Earth is a Kind of feal'd Earth, or a fatty, sticky, ash-colour'd Earth that is brought from Chio; it is aftringent,

and removes Spots, &c. Terra Samia, or Samian Earth, is what comes from the Isle of Samos, and is of two Kinds; one is soft, white, and crumbling, that sticks to the Tongue when apply'd to it, and is very like seal'd Earth. Some People call it Collyrium, because it serves sometimes to relieve the Eyes; the other is crusty and hard, the something unctuous, they call this Samius Aster, because it is found in shining Spangles, like Stars.

Besides there is Marga, Lithomarga, Stenomarga, Medulla Saxorum, Agaricus Mineralis, Lac Luna, or Stone Pith, Mineral Agarick, Moon Milk, which is a Kind of soft, friable, pithy, very white Stone, resembling Chalk, which is found in the Clests of Rocks in some Parts of Germany; it is detersive, astringent, drying, consolidating, which dissolves coagulated Blood, and may be us'd inwardly and outwardly.

Mr. Pomet observes in his Annotations made at the End of his Book, that this Stone Pith is found on the Side of the Signiory of Moscow, belonging to the Elector of Saxony, and near Gironne in Catalonia; that the Inhabitants of those Parts chuse some of this Earth after the Sun is down and has warm'd it, that has little Balls on it like Meal, with which they make Bread, mixing it with some true Flower, which has been confirm'd by several other Naturalists.

FINIS.

and removes Spon Ca Towa Samp, or Samula Manus, and tames, in what comes from the life of Samula, and restricted foliated one is fell, white, and crumbing, that finks to the Could Samula, and one freely deals and the very like feeding and there and the very like feeding and there, and feeding and the state of the feeding and the state of the feeding the finest of the country of countries of the samula of the feeding the fines, and the samula of the feeding the feeding the fines of the feeding the feeding

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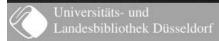
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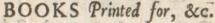
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