





Compleat Body

DISTILLING,

Explaining the

MYSTERIES

OFTHAT

SCIENCE.

A most easy and familiar Manner;

Containing an

Exact and Accurate Method of making all the COMPOUND CORDIAL-WATERS now in Ufe;

A particular Account of their feveral Virtues.

As alfo a

DIRECTORY

Confisting of

All the INSTRUCTIONS necessary for learning the DISTILLER'S ART; with a Computation of the original Cost of the several Ingredients, and the Profits arifing in Sale.

Adapted no less to the Use of private Families, than of APOTHECARIES and DISTILLERS.

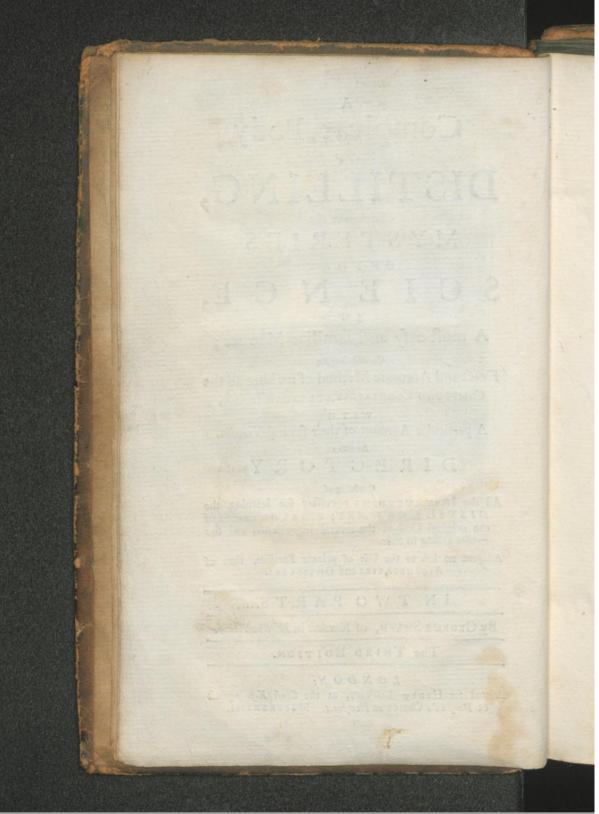
IN TWO PARTS.

By GEORGE SMITH, of Kendall in Westmorland.

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THE

PREFACE.



HEN first I undertook this work. I design'd to publish it without a preface; as judging that the truth and reason contained in it would be a sufficient commenda-

tion of themselves without any preliminary discourse whatsoever. I was sensible I had acted with faithfulness and care in the composition of it, and was willing to hope the usefulness of the Jubject might be a means to recommend the performance. But upon recollection, that all my Readers would not be equally distinguish'd by a right sense of these matters, I chang'd my opinion, and have refolv'd to proceed in the common method.

The Book is divided into two parts, which comprehend the Practice and Theory of distillation. The first is designed for a Dispensatory for the wholefale Distillers, and contains an exact and accurate form of making up what they

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name their compound goods. I have inserted nothing superfluous, nor omitted any thing of moment, which might be beneficial to the young artist. And thus I have endeavoured, in the most easy and intelligible manner I was able, to explain to him, how to order his Work-house to the best advantage, bow to erect his Still, Worm-tub, Water tub, Pump, Press, and other matters thereunto belonging. The several utenfils are describ'd, and the manner of using them. And he is farther taught how to feafon the Still and Worm, and put them in a proper condition for working proof-goods; how to order the Stillfire, and draw off the liquors clean and to the best advantage; and when drawn off, how to dulcify and refine them, so as to make them become speedily fit for sale; with several other particular instructions, which are not necessary to be mention'd here, and are at large explain'd in the following treatife.

To make the work yet more compleat, I have added the prime cost, particular and total, to every prescription, with the Prosit arising from the said goods in sale. And the some, or indeed most of the ingredients used in distilling bear no standard or six'd price, but rise or fall in proportion as the market is stock'd with them, yet taking one with another, the Balance will be found to be pretty even, and amount as near as may be to the respective sums I have here set down.

Tho' this Book is chiefly adapted to a wholefale trade, and indeed of no confiderable extent, the Still not exceeding thirty gallons, yet it

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it may be equally serviceable to Apothecaries and persons of other Employments, where distilling is a branch of their trade. For the the Apothecaries have a pharmacopæia of their own to direct them in making their compound-waters, yet are the cordial-waters of the Distillers (which I speak without any disparagement to their Profession) much finer and pleasanter than what they usually make; and this seems owing to their great error in drawing off the faints with their distill'd cordial-waters. This inconvenience I have taught them to avoid, and if they'll once make trial of any of the distill'dwaters hereafter mention'd according to the directions I have given them, I am perfuaded they'll find what I fay to be true in fact, and that these waters will much exceed both in taste and colour the compound-waters of the same denomination, which are commonly made by them.

I farther hope my pains will not prove unacceptable to such persons of distinction, as keep a Still in their families for their own private use. As they generally proceed by prescriptions, which require a composition of ingredients of heterogeneous qualities, the compound waters distill a from them must necessarily be correspondent, and prove disagreeable both in their taste and nature. To prevent this ill consequence, I have taught them in an easy and familiar manner the best method of distilling and composing all cordial-waters, with very little trouble or loss of time, by reducing the quantity of the ingredients and spirits to the dimensions of their Still. And lest any error should arise from a miscom-

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putation, I have also in the second part calculated them all for a Still of three gallons charge.

As the former part of my performance is wholly practical, the second comprehends both the theory and practice join'd together, reprefenting at one view the composition and virtue of such particular compound-waters. book the reader will find an account of several rich cordials, not mention'd in the first part, nor in any treatise of distilling extant, that I know of, besides the different methods of compounding other distill'd liquors, that are daily used. So that I may venture to affirm, I here give him the compleatest body of distilling, that has yet been publish'd. For the' there have been many treatifes written upon this subject, yet are they all of them highly deficient; and their deficiencies have been the grand inducement that has engag'd me to undertake the present Work. which I hope will prove acceptable to the candid and ingenuous, whose benefit I have chiefly fludied. If any one is inclin'd to cenjure, I defire be would fit down and write better; I shall not envy his fuccess, but shall be always thankful for any farther information.



A



Compleat Body OF DISTILLING, &c.

BOOK I.

Double-Aniseed-water.

		5.	a.
	- 02	05	00
5 pounds of Anifeeds at 6 d.	-00	02	06
9 pounds of fine Sugar at 6 d	-00	04	06
Coals, and working-	-00	OI	00
Main may be described and street	02	13	00
For Sale 30 gallons of double Anifeed-water,	} 03	15	00

A LL distill'd goods which are made proof, are call'd double goods, by what names or titles foever they be denominated, as Aniseed, Clove, Cinnamon, or any other water: And if your spirits

fpirits are of a good body, or what is call'd full proof, they may be made up with liquor or fpringwater to the same quantity, with which you first charged your Still, suppose thirty or any other

number of gallons.

You must put the Aniseeds into your Still immediately after your spirits, first gently bruifing them in a Mortar, and drawing them off very moderately from your Still, with a flow fire, as long as the goods will come off clear, which will be about two third parts of your first quantity, or near twenty gallons out of thirty gallons, first charged in your Still; and so proportionably for a larger or fmaller quantity, which deficiency must be made up with liquor, which the goods will bear; or if you would have the goods very high proof, you may put a gallon of liquor the lefs, afterwards dulcify the fame with fugar, in proportion, and keep your faints which come off after your goods by themselves, letting them run as long as they will burn, or fire on the Stillhead, with a lighted paper or candle put to them.

You must carefully observe in drawing off this water, that the faints, or after-runnings, come not off and run into your Cann along with your other goods. To avoid this inconvenience, you must often be viewing them in a glass or vial, especially towards the latter end of your distillation; for then your goods which before looked clear and limpid as rock-water, will now put on, or turn to an azure or bluish colour (the reason whereof I shall give you, together with the virtue, in the second part) and if they were suffered to mix with your fine goods, would impart both a disagreeable taste and colour to them, which would require a long time in sining. Therefore whenever you perceive the colour to alter, shift

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your Cann, and place another under the end of your worm for the reception of the faid faints; which must be kept separate from your proof goods; for such uses as hereafter shall be shewn in their proper places.

Single Aniseed water.

L of Applicale, at 5 do co of co	s.	d.
30 Gallons of proof malt-spirits at 18 d. 02	05	00
8 Pound of Anifeeds, at 6 d00	04	00
14 Pound of brown sugar, at 21 s. per C. 00	02	075
Coals and working oo	10	00

For fale.

02 12 075 so callons of Anticed water at no de og og og

45 Gallons of Anifeed-water at 2 s. 04 10 00

All common or fingle distilled goods are charged and drawn off from the Still, in the same manner as double goods, fave what difference is made in the composition, and making up the faid goods, viz. First draw off your goods from the Still into your Canns, you have for that purpose, putting them by as soon as they are full into your veffel defigned to make up the goods in; then make them up to their first quantity with liquor; to which add one half more in liquor, over and above what your first quantity of spirits was, wherewith your Still was charged, viz. Every thirty gallons of spirits must be made 45 gallons of fingle Aniseed-water, by putting as much liquor to the goods drawn from the Still, as will make up that quantity; then dissolve the fugar in a Cann or two of your goods fo made up, and stir and mix them very well together, with a proper instrument, and to make them be-

come

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come clear, put about four ounces of Alum finely powdered into them, stir them all well together, and in a little time the goods will become fine and fit for fale.

Common Aniseed-water.

Simpla Anthon Conten.	1.	S.	d.
30 gallons of proof-spirits, at 18 d			
10 pound of Anifeeds, at 6 d.	00	05	00
16 pound of Sugar, at 6 d. per C. w.	00	03	00
Coals, and working	00	01	00
	-	1	-

02 14 00

For fale.

1. s. d.

50 gallons of Anifeed-water at 20 d. 04 03 04

When you would make a low priz'd commodity for wholefale bufinefs, always endeavour to let fuch goods have two or three months age before you expose them to fale; and because the fpirits are lower, by having a greater quantity of liquor put thereto, you must add some more ingredients in lieu thereof, as above directed; and always when you draw off or diftil Anifeed-water of any kind, beware you let none of the white faints run amongst your goods, and that for the fore-shewn reasons laid down in double Aniseedwater; therefore as foon as your Still has run about the quantity you expect, mind diligently when the goods begin to change their colour, then take away your Cann, and substitute another to receive all the faints.

Single

Single Angelica-water.

l. s. d.

30 gallons of proof-fpirits at 18 d. — 02 05 00

8 pounds of Angelica-feeds or 12 oo 03 04 froots — 00 02 07 froots for Coals, and working — 00 01 00

02 12 00

For fale.

1. s. d.

45 gallons of Angelica-water at 2 s .-- 04 10 00

Ordinary Angelica-water.

l. s. d.

30 gallons of proof-spirits at 18 d.—02 05 00

10 pounds of Angelica-seed; or 14 oo 04 02

pounds of roots—

16 pounds of Sugar at 21 s. per C.—00 03 00

Coals, and working—00 01 00

For fale. 02 13 04

50 gallons of Angelica-water, at 20 d. 04 03 04

Directions about Angelica-water.

· If you find any fale or demand for proof or double Angelica-water, you may follow the fame rule or method, as in making double Anifeedwater, ufing the fame quantity of Angelica-feeds as you do of Anifeeds.

The Angelica-water most in vogue or demand is as above directed, which the Still must be charg'd with.

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with, drawn off, and made up after the same man-

ner with fingle Anifeed-water.

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If you make Angelica-water, when the herb is growing, you may use the stalks, taking a sufficient quantity (which you will have for a small matter) instead of Angelica-seeds, or in case of necessity, you may use Angelica-roots, first slicing them very thin into your Still, (they, like the stalks. are of fmall value) only put into your Still half as much more of roots well cleanfed and washed. as you would do of Angelica-feeds; then having put to your spirits, and luted the junctures of your Still, draw off with a flow Fire, dulcify and make up the goods as others of the like nature.

To improve English Brandy, and make it appear like French.

1. s. d. 20 Gallons of fine English Brandy, at \ 04 10 00 4s. and 6 d .-

6 Ounces of spirit of Nitre Dulcis, at \ 00 or 06 4 s. per Pound-

04 12 06

For fale.

20 Gallons of Brandy, at 8 or 9 s. per \ 08 10 00 Gallon -

The chief and principal ingredient which operates most in improving English Brandy, and giving it the flavour of French goods, is the Tinctura Japonica; not made by Chymists after the manner that is fit for that purpose, without particular directions, and a very great charge to them to be just in the composition thereof, and then they

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not much to be depended on in the Composition of it; therefore I have here inserted the true receipt as it ought to be made for this Intention: And it is to be observed that it must be made so strong, as to make a strong reslection, or to hang upon the glass or phial in which it is put and kept for uses: at the same time you must have I pound or 2 pounds of spirit of Nitre Dulcis which is 4 s. per pound, and mix 2 ounces of Tinctura Japonica with six ounces of spirit Nitre Dulcis, (as directed) very well incorporated together, and put to your Brandy and stirr'd or well romag'd therein, and you may sell it as soon as it is settled.

Tinetura Japonica.

Best English Saffron dissever'd r ounce, Mace bruised r ounce. Insuse them in a pint of Brandy, 'till the whole tincture of the Saffron be extracted (which will be in seven or eight days time) then strain it through a linen Cloth, and put to the strained Tincture two ounces of Terra Japonica powder'd fine; let it stand to insuse, 'till the Tincture be wholly impregnated therewith.

To rectify Molossus Brandy.

21 gallons of Mologra C.	5.	d.
21 gallons of Molossus spirits at 2 5.	15	OIT
2 pounds of Flemish pot-ashes at 6 d oo		
pound of Salt of Tartar — 00	00	08
4 pounds of Raifin-ftalks ————————————————————————————————————	00	03
Coals and working oo	00	08
02	17	o8± For

For fale.

20 gallons of Brandy at 5 s. or 6 s. 305 10 00 per gallon

You may use the same method in Molossus Brandy as in fine Brandy, in the foregoing page; but it will be a much better commodity, if you first draw it over again in your Still very gently and with a slow fire.

Directions in rectifying Molossus Brandy.

Putting to the Spirits two pounds of Flemish Pot-Ashes, half a pound of Salt of Tartar, and 4 pounds of Raisin-Stalks; and filling up your Still within a hand's breadth of the top, that the goods may the better cleanse themselves from all their impurities; and draw off your goods no longer than proof, whereby they will have a much better relish; and be sure to allow I gallon in 20 in making up your goods, which will be much siner and better by being full proof; and must not be reduc'd or lower'd with liquor (as common Molossus and rectify'd Malt-spirits, which will bear a pint to every gallon) because with a little age it will be a good commodity, and yield a good price.



To rectify Malt Spirits.

		5.	
30 gallons of proof Malt-spirits at 2 s. 6 d. per gallon.	02	05	00
Half a pound of Salt of Tartar.	-00	00	08
2 pounds of Sandiver powder'd-	00	00	02
Coals, and working	00	10	00
Use compare of the color of the	02	06	10
For fale.			
	1	s.	di
33 gallons three quarters of rectify'd? Spirits at 2s. 6d. per gallon ———3	-04	04	04 =

To make Salt of Tartar.

In rectifying Spirits, over and above the faid ingredients you may add 3 or 4 pounds of Raifinstalks, which gives a good flavour to the goods; (or they may be omitted without any prejudice) you may make your own Salt of Tartar, by taking Saltpetre and white Argill (or common Tartar) of each one pound; powder them, and fift them through a hair-fieve, put and mix them together in an earthen pot, that will endure the fire, and will hold thrice as much as the faid Powders, then place the pot in a large open chimney, or rather in the open air, and heat an iron spatula red-hot, and put it into the earthen pot, stirring the powders with it, which will immediately deflagrate and calcine, fo as to become but half the quantity? which must be kept in a gally-pot close cover'd with leather from the air, which otherwise would melt 10 A Compleat BODY BOOK I.

melt it: but being thus preferv'd, you may keep

it till you have occasion for its use.

Note, that a pint of liquor is to be put to every gallon of proof Brandy, when it is made fit for fale.

Double red Clove-water.

I.	s.	d.
1 s. 6 d. per gallon ———————————————————————————————————	05	00
6 pounds of Clove-pepper at 9 doo	04	06
12 pounds of ordinary Sugar, at 21 s.per C.00	02	03
4 gallons of Elder-juice —————————oo		
Coals, and working—————————————————————	01	00
02	15	09
For fale		
as callens of double Classes.	S.	d.
32 gallons of double Clove-water,	00	00

Colouring of red Clove-water.

All red Clove-waters must be made as deep in colour as Claret-wine, which may be done with 2 pounds of Archill (such as Dyers use) put into a harden bag, and pressed out with your hands into a cann of the goods; dipping or steeping it amongst the goods, and pressing it as long and as often as any colour can be drawn from thence; which may be afterwards cast away: But the best and most wholesome way of rubifying Clovewater, is by making your Clove-water, (before it be colour'd) about 2 gallons in 30 gallons above

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the first proof; then put thereto 3 or 4 gallons (according to the goodness or thickness) of your Elder-juice, stirring and mixing it well together, and using more or less of the juice, as you see occasion; and afterwards dulcifying it, in proportion, or to your palate, as the juice is more or less acid; which done, put it into your vessel to clear and fine of itself: for into red goods the

powder of Alum is not admitted.

There is another way of making double red Clove-water, which is thus done : put 30 gallons of Spirits into your Still, with half a pound of Cloves, and near half a pound of Clove-pepper well bruised; then draw off your goods gently, and prepare, against your Still come to work, 5 pounds of ground Sanders, and 2 pounds of red Archill mixed, and put them into your cann which is to receive the goods, and flir 'em up from the bottom, that the Spirits may extract the Tincture; and when it is full, empty it, and fet it under the worm-pipe again; still stirring up the ingredients, till they are all dissolv'd amongst your distill'd goods, which will run to about 20 gallons for every 30 gallons first put into your Still: then take 28 pounds of brown Sugar, and dissolve it in 12 gallons of liquor, which will make betwixt 14 and 15 gallons, and put it to the goods drawn from the Still, which together will be 35 gallons: being well stirr'd and incorporated, let it stand in an open-headed tub, with a cock in it till next day, when it will be clear, and may be drawn off, and put by for fale: All the fæces, or thick dregs at bottom, may be put into the flannel bag gradually, and filtred, or drawn off fine and clear, and then may be put into the hogshead amongst the other fine goods, and there be referved for fale.

Ba

Red

Red Clove-water.

" " " " " " " " " " " " " " " " " " " "		s.	ď.
30 gallons of proof Malt-spirits at }0	2	05	00
9 pounds of Jamaica-pepper at 9 d o	0	06	09
18 pounds of ordinary Sugar at 21s. per C. o.	0	02	TO
5 gallons of Elder-juice at 9 d. —— o	0	02	00
Coals, and working.	0	OI	00
0	3	00	04
The state of the s	_		

For fale.

4.5 gallons of Clove-water at 2 s. ____04 10 00

Directions for making Clove-water.

All Clove-waters, till of late years, were generally made of Clove bark, or of Winter's bark, called Cortex Winterana; of the former one pound to every ten gallons double; or 15 gallons fingle: Cloves being 2 s. or 2 s. 4 d. a pound: and the latter used accordingly at 8 d. or 9 d. a pound: But those Barks were, or became so great an abuse, by being distill'd whole, without bruifing, and afterwards dry'd, cur'd, mix'd, and fold among better goods, that Distillers had recourse to Clove (which is also call'd Jamaica) Pepper, especially fince it became so cheap, which has heretofore been 3 or 4 times the price it now is, which gives the goods an acceptable flavour: it may be also made with I ounce of Cloves to every 10 or 15 gallons of double or fingle Clovewater; which indeed makes the best goods, but

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'tis feldom made use of, because of its dearness: it must be colour'd according to directions of double Water, and dulcify'd, in proportion; wherein your own palate and experience will very much inform and improve your judgment.

Ordinary red Clove-water.

l. s. d.

30 gallons of proof Malt-spirits at 18 d.02 05 00
10 pounds of Clove-pepper at 9 d.— 00 07 06
20 pounds of ordinary Sugar at 21 s.

10 per C. or rather 21 pounds of Treacle at 14 s. per C.—
20 gallons of Elder-juice at 9 d.— 00 04 06
20 coals, and working— 00 01 00
21 per C.— 00 01 00

For fale.

50 gallons of Clove-water at 1 s. 8 d. 04 03 04

It is a principal point in the Diftilling Trade, to keep the kind of every ingredient an entire secret: for otherwise there are no distill'd goods so liable to common odium as Clove, especially ordinary Clove-water, which when dulcify'd with Treacle (being of a very deep colour) will require less Elder-juice for that purpose: wherein your own discretion must direct what quantity of colouring or dulcifying is most convenient, according to the goodness of your juices: these and all other goods whatsoever, reduced so low, must have two or three months to meliorate, and become palatable, before they be expos'd to sale.

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No powder of Alum must be put into red goods, but you must let them settle and become clear of themselves, by placing your casks in such a manner as you will have no occasion to meddle with the same, lest they be disturbed and want to be re-settled.

White Clove-water.

L.	s.	d.
30 gallons of proof Malt-spirits at }02	05	00
8 pounds of Clove-pepper at 9 d 00	06	00
14 pounds of Sugar at 21 s. per C oo	02	072
Coals, and working	OI	00
02	14	071
For fale.		
1.	s.	d.
45 gallons of white Clove-water at }04	10	00

Directions for white Clove-water.

White Clove-water is so called, not that it is any whiter, or otherwise coloured than Anniseed, Angelica, or any other such like goods, but only to distinguish it from red Clove-water, which is most in demand in the Country, and the white Clove-water seldom called for, tho' in vogue at London. If you keep any by you, and find it not vendible, you may when you please, turn it into red Clove-water, by putting a proportionable quantity of Elder-juice to it, according to former directions prescribed in red Clove-water; but you must

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must be sure to put a suitable quantity of Sugar, dissolved in the goods, to qualify the acidity or tartness of the juices; especially when the juices are old, which naturally become more acid; and your palate or judgment must direct you herein, by comparing the relish or taste of it with other such like goods of or about the same prices.

Double Cinnamon-water.

Directions about double Cinnamonwater.

Cinnamon-water is very much esteemed all the world over, and is mostly enhanced in its price and value by Apothecaries, who retail it at 16 s. per gallon: and in prescriptions at a much greater price, and is also retained by Distillers at or about the same price. This water is sometimes drawn from Molossus Brandy, or from siner goods, and sold out at high prices to persons of nice palates and judgments, who scruple no price B 4

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for fuch a commodity. It is dulcified with loaf, and fometimes with double refined loaf Sugar; but what is fold by Diffillers is generally drawn from rectify'd Malt-spirits; which by keeping a few months, becomes wonderfully mellow, and of an agreeable flavour, and the longer it is kept becomes the better, as do all goods that are of a good body: it is call'd double Cinnamon, purely to make it more valuable to the buyer: for it is a general rule, that all fine goods, which bear a good price and profit, are made proof; because goods reduced become foul and flegmatick.

Cinnamon-water.

an college of madified Prof.	s.	đ,
20 gallons of rectify'd Proof-spirits } or	13	04
2 pounds of small Cinnamon at 6s oc	12	00
2 pounds of Cassia Lignea at 2 s. 4 d. oc	01	08
21 pounds of Sugar at 52 s. per C. 00	06	06
Coals, and working.	00	08
60 60 50	1,45%	
02	17	02

For fale,

20 gallons of Cinnamon-water, 306 00 00

Directions about second Cinnamonwater.

Whatever diffinction is made, in the names of double, fingle, or ordinary goods, is chiefly for your own inftruction and government, and not that

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that you are to puzzle your customers with such terms of art: For persons of judgment will make the distinction themselves, in their enquiring for, and buying such commodities; or especially in their prices which they will readily give for such goods. But when you are enquired of for Cinnamon Water, or any other such like goods, whereof you keep two sorts or kinds, which bear a high price, you are always to understand their meaning for the cheapest fort of goods, and you are not to hesitate or speak doubtfully to them, as if you had any other, or better goods; which if they suspect or know, they'll not be pleased without; or at least will have a worse opinion of what they would otherwise not have scrupled.

You must bruise your Cinnamon and Cassia,

before you put them into your Still,

Caraway-water.

For fale.

1. s. d. 45 gallons of Caraway-water at 2 s. — 04 10 00

Directions

Directions for Caraway-water.

If you have a call for double Caraway-water, you may make it after the same manner with double Anniseed-water; only with the difference of the Seeds, by which the goods bear their names or denominations: As Caraway-water, made of Caraway-seeds; Aniseed-water of Aniseeds, and so of all others in like manner. You may probably meet with Caraway-seeds in the gardener's hands, as well as other things, which you will be capable of buying, by comparing the price demanded of you, with what the same cost here in the foregoing prescript.

The Sugar used in dulcifying all common or fingle goods, is the cheapest that can be bought, and by reason of its brownness gives the goods an Amber-colour, which is become agreeable enough

through long usage.

But if you are to make goods of a lighter colour, you must use finer Sugar to dulcify withal, which will make the goods proportionably dearer, and must therefore bear a better price than high-colour'd goods.

To make Cherry-brandy.

Cherry-brandy is made different ways, sometimes by pressing out all the juice in a press proper for Cyder, Cherries, and such like goods; picking out all the stones, and selling them to Druggists, &c. to make Black-cherry-water with, who commonly give as great a price for the stones in proportion to what they weigh, as the Cherties sirst cost; and then casting away the pulp or Book I. of DISTILLING.

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skins of the Cherries, and putting as much Brandy to the juices so pressed, as the goods will bear. Which will be double or treble to the juice, according to the goodness of the juice: And 2 or 3 pounds of ordinary brown Sugar, must be added to every 20 gallons with half an ounce of Cloves and Cinnamon beaten small, and put amongst every such quantity of Cherry-brandy, which may be vended in 2 or 3 Days, but will be abundantly

better by longer keeping.

In London it is commonly made of old rectify'd spirits, and sold at 3 s. 6 d. or 4 s. per gallon; but according to the usual price of Cherries, does not stand in one half part of the Money. The best and most usual way of making Cherry-brandy, is to put your Cherries, being first clean pick'd from the stalks, into a Vessel, about half fill'd with the Cherries, and then fill'd up with brandy rectify'd, or rather Moloffus; the latter being most used in the country, where Cherry-brandy bears a great price: And when the Cherries have been infused 12 or 14 days, you may draw off the goods by degrees, as your occasion requires, till all the liquid goods are drawn off at the first infusion; then fill up the Vessel a second time near the top, and let it stand about 3 Weeks or a Month to incorporate with the Cherries, and draw off as you have occasion, till all be come off the Cherries: Then gage your Cask to compute what quantity of Brandy will a little more than cover the Cherries; which must be with Brandy drawn over anew in the Still, and made one fifth part itronger than proof; and put upon the Cherries to infuse 5 or 6 weeks, which by its strength will extract all the juice and virtue out of the Cherries; and when you draw it off for use, you must put to it a proportionable quantity of Liquor, as the Brandy was above proof. And afterwards the Cherries

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Cherries must be pressed as long as any goods or Brandy is in them, and then cast away. When you make your Cherry-brandy of the first Insusion, the juice will be best, and bear the most Brandy mix'd with it, till it be brought to as deep a colour, as to discern a candle lighted and held on the other side of the glass; and if you find it does not taste well of the Cherries, you may add a little more of the juice, as it's drawn off the first insusion, and then dulcify'd with 2 or 3 pounds of Sugar to every 20 gallons of goods, and in proportion for a larger or lesser quantity thereof, which by standing a little time will be much more palatable than at its first being mixed or made up.

When you draw off your Cherry-juice or Cherry-brandy of the second infusion, it will be something inferior in goodness to the first, and will bear less Brandy in mixing or making fit for sale; and will require a little more Sugar to dulcify, and half an ounce of Cinnamon, and half an ounce of Cloves beaten, and put to twenty gallons of Cherry-brandy of the second Insusion; as there must be half the quantity of Cinnamon and Cloves in each 20 gallons of the first insusion, and the longer you keep it, it becomes the better.

When you draw off your Cherry-brandy of the last infusion, you must not put any more Brandy to it, which it will not bear, but may add about a pint to a gallon of liquor, in consideration of the said third infusion being made with stronger than Proof-brandy, and dulcify and aromatize it with Cinnamon and Cloves, as order'd in the second infusion, or a little more if it be needful. What goods are pressed from the Cherries after their being thrice infused, will be of a little thicker body than the ordinary; therefore you may add a little Brandy if it will bear, and dulcify with Sugar, and dry spices as before dir

rected.

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ZI

rected, according to your quantity, and after it hath stood a few days to settle, it will become clear and saleable.

It is customary and practised frequently by most Distillers, to add a fourth or fifth part of Elderjuice to Cherry-brandy, as it is made up for sale: But it is much better, when about a proportionable quantity is put into your Store-cask, to incorporate with the Cherries and Brandy infus'd together; which quite alters and loses the flavour of Elder, and becomes perfectly good Cherry-brandy, to all intents and purposes; and if you were not privy to its being so mix'd, you wou'd not imagine any such thing; but you are herein at your own liberty and choice, whether to use, or to omit it.

Raspberry-Brandy.

Rafpberry-Brandy is in less demand in the Country than Cherry-Brandy is; and is infused much after the same manner with Cherry-Brandy, and drawn off, and made sit for sale with about the same addition of Brandy to what you draw off from the first, second, and third insusion, and dulcify'd accordingly, first making it of a bright deep colour; but omitting Cinnamon and Cloves in the first, but not in the second and third insusion.

The first infusion will be of a colour deep enough without help or art to it; the second infusion will be somewhat paler, and must be made deeper colour'd, by adding Cherry-Brandy about a quart to ten, or more gallons of the said Raspberry-Brandy; and the third infusion will take more Cherry-Brandy to colour the Raspberry, which your own judgment will direct you in.

All

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All other instructions are mentioned in making and compounding Cherry-brandy.

Golden Cordial.

11 6 66:	I.	5.	d.
at 1 s. 8 d. per gallon	00	18	04
4 pounds of Angelica-roots at 2 d. —	- 00	OT	00
2 pounds of Railins at 4 d. 1	-00	00	00
I pound of Coriander-feeds—	-00	00	01-
hair a pound of Caraway-feeds——	-00	00	OTI
half a pound of imall Cinnamon —	00	02	00
2 ounces of Cloves —	- 00	OI	08
mair a pound of iviellor-nowers———	- 00	00	06
1 pound of Figs	-00	00	04
pound of Liquorice	-00	00	08
o pounds of Sugar at 21. 12s. per C	.00	03	10
2 quarts of Rofe-water	-00	OI	00
	01	II	04
For fale.		2017	777 b
and the design of the selection of the	1.	5.	d.
rogallons of Golden Cordial at 8s.	04	00	00

Directions for golden Cordial.

Let your Angelica-roots and Liquorice be thin fliced, and your Raifins ston'd, and Figs cut in pieces, before you put them into the Spirits with your other ingredients: infuse them all night before you distil them, then draw off very gently with a slow sire, and no longer than proof; then take your sine Sugar, and dissolve in clear Springwater,

water, with which you make it proof, adding the Rose-water to the liquor in which your Sugar is disfolv'd before you put it to the goods drawn from the Still, making the whole up to ten gallons, which must be coloured with burn'd Sugar to a fine golden colour, and put it into a cask with a brass cock to it: let it stand 4 or 5 days, until it be perfectly settled, and then draw off into another vessel in which you intend to keep it.

If you put any into a large shop-bottle for sale, put 3 leaves of gold well broken to pieces, and shaken well together, when you pour any out of

your bottle.

Some in making of this golden Cordial, in lieu of the burn'd Sugar, give the Tincture with English Saffron (whereby the Cordial becomes exceedingly richer and better) to a fine citrine or golden colour, adding a portion of Alchermes (either in juice or confection) but as they are both very dear, are wholly omitted by the Distillers: yet upon the account of the virtues and richness of the slavour, which they impart thereto, I shall insert a Recipe thereof in the second part of this work.

Citron-water.

	1.	s.	d.
11 gallons of proof Molossus-spirits at 25. 7 d. 1/2 per gallon-	}01	08	IOI
G. of Figs at 1 l. 4 s. per C.	-00	12	00
80 Lemon-peels thin fliced 10 pounds of double refin'd Loaf- fugar at 1 s. per pound	-00 }00	10	00
	- 00		
40 (0 to 0)	02	12	101
			For

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For fale.

10 gallons of Citron-water at 10 s. —05 00 00

Directions for making Gitron-water.

Let your Figs be the choicest that can be got, and flic'd, and infused all night in the Molossusfpirits, together with the thinnest skin or peel that can be par'd or taken off the finest and clearest Lemons: put about half the quantity (of the Spirits with which your Still is charged) of clear Spring-water into your Still along with the goods; and draw off your goods with a gentle fire, no longer than proof: then take as much Springwater, as will make up the goods drawn off from the Still to proof, abating as much liquor as the Sugar when diffolv'd will measure to: put your double refin'd Loaf-Sugar into the faid Springwater, and fet it upon a gentle fire until the Sugar be diffolv'd; then let it stand till it be fully cold: which must be then put to the goods drawn off, and well ftirr'd together and put into a proper veffel with a brass cock into it : and stand five or fix days to become clear, and then drawn off into your cask you intend to keep it in.

Plague-water.

to to col	1.	s.	d.
23 gallons of proof rectify'd Malt- fpirits at 1 s. 8 d.	}01	18	04
Ingredients, as below-	-00	10	00
Coals, and working	- 00	01	00
	02	09	04
Tor			For

For fale.

20 gallons of Plague-water at 8 s. — 08 00 00

The ingredients are Rue, Rosemary, Balm, Carduus, Scordium, Mint, Marigolds, Dragons, Goats-Rue; of each 24 hand-fuls.

Roots of Masterwort, Angelica, Butterbur, Piony, of each 3 pounds; Scorzonera a pound and half: price 10 s. ut supra.

Directions in making Plague-water.

It is called Plague-water, because of its being a sovereign antidote or remedy against it, as against the Cholick, Gripes, Faintings, Ill-digestion, &c. and has a peculiar virtue to dispose one to sleep.

The best season to make it is in the month of June, when all the Herbs are at their first and full growth; because the second crop hath not the virtue and efficacy of the first: and it is meliorated by keeping; fo that you must make as much then, as will ferve for a whole year's fale: or if it be kept longer, 'twill be fo much the better; as will all goods that are made high proof: as, Plaguewater must be in a peculiar manner, because so great a quantity of Herbs and Roots does extremely lower, or reduce the body, or strength of your Spirits. Draw it off from your Still very gently, and no longer than proof. Be fure you make it, and all fine goods high proof; which causes them to be, and taste, far more clean, and agreeable to the palate.

C

Agua-

Aqua-mirabilis.

de la	1.	s.	d.
11 gallons of proof Malt-spirits at 7	00	18	04
Sage, Betony, Balm, Cowllip-flowers, Mint; of each 6 handfuls: Cubebs, Galingal, Ginger, Calamus Aromaticus; each 6 ounces. Nuts, Cloves, Cardamom-feeds,			
coals, and working	-00	00	06
	OI	06	04

For fale.

1. s. d.

10 gallons of Aqua-mirabilis at 8 s. - 04 00 00

Directions for Aqua-mirabilis.

This Cordial is properly enough called Mirabilis, because of its wonderful good qualities and effects; being preventive of Apoplexies, Convulsions of the Nerves, and Palsies; strengthening the heart and stomach against Faintings and Coldness there; and because of the great variety in mens palates, it is sometimes made plain, and sometimes dulcify'd with fine Lisbon-Sugar (or rather double refined Loaf) half a pound to every gallon, and set in an open-headed cask with a cock in it, 'till it become clear; and then put by into your cask for sale.

Apothecaries, Druggists, &c. make it without Herbs, or with very few, according to their Pharmacopæia; and according to their usual custom.

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custom, decry all that prepare it otherwise; but their objections are of small force.

You must (as I before hinted) never discover what ingredients you use, or do not use: for all such mysteries are to be a profound secret, and neither assert, nor deny, whether this, that, or the other ingredients be made use of.

Hungary-water.

7 gallons of proof rectify'd Maltfpirits at 1 s. 6 d.

12 hand-fuls of Rosemary and Lavender-tops

1. s. d.

1. o. d.

1. o. d.

1. o. o.

1.

00 12 00

For fale.

1. s. d.

6 gallons of Hungary-water at 55. — 01 10 00

Directions for making Hungary-water.

The Queen of Hungary's Water (so called) is best made in the summer-season, when the ingredients are at the best: the thickest of the stalks are to be cut off, and cast away; and the other to be put into the Still, drawing no longer than proof; and it must be made high proof for sale: it is usually put up and sold in long phials purposely made for the same; and a title put upon each bottle in French, Italian, or some other sorreign language; and sold at 3, 4, or 6 s. a dozen; and retail'd at double and treble prices: the bottles are as valuable as the goods, and the titles cost but a small matter, being sold at 9 d. a

quire; and every sheet has abundance of titles upon it, which are put upon the bottles with a little starch or paste.

It is very much in request amongst the Gentry, who pay well for it; and being good proof, will be the better for keeping; and the bottles must be well cork'd.

Your flock in hand will be best kept in large bottles.

Lemon or Orange-water.

to an all the sounded to so	1.	s.	d.
20 gallons of rectify'd Spirits at 1 s. 3	01	13	04
6 pounds of Lemon or Orange-	00	02	00
7 pound of Sugar at 2 l. 12 s. per C.	00	03	03
Coals, and working	00	00	06
	01	19	or

For fale.

1. s. d.

20 gallons of double Orange or Lemon-water, at 4 s. per gallon. —} 04 00 00

Directions for Orange-water, &c.

Lemon-water is not near fo much in request as Orange-water, nor indeed is it so pleasant or grateful to the palate as Orange: they are not much known, or used in the country; but the agreeable relish, or slavour thereof, will make it much preferable to the double or single Anisced, Clove, Angelica, or such like goods: I

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mean Orange, especially double Orange, which is fold much dearer than any other such like goods; purely to get an opinion in the buyer, that it is a more rich and valuable Commodity; and the more to keep up its reputation, as well as the temptation of a greater profit thereby.

The skins or peels must be all of the Sevil, and none of the China Oranges; and must be kept very dry, or they will grow damp and pu-

trefy'd, and not fit to be used,

If you buy or procure green Orange-peel, you must spread it very thin in a dry chamber, and turn it oft, and not put it by for use, 'till exceedingly well dry'd.

To make Punch.

Colomba Ball Car Sanda to	1.	5.	d.
8 gallons of proof Molossus-spirits at 2 s. 7 d. ½ per gallon—	OI	OI	00
10 gallons of liquor —	00	00	00
at 2 s. per gallon. ————}	00	02	06
half an ounce of Ifing-glass-	00	00	02
6 pounds of Sugar at 2 l. 12 s. per C.	00	02	09
No to to lead to at the new of the	01	06	05
Note that the same of the same	-		

For fale.

1. s. a.

20 gallons of Punch at 2s. 6d. _____ 02 10 00

Directions in making Punch.

When you are to make Punch, the preceding day before you make it, take half an ounce C3

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of Ifing-glass, beat it all to pieces in a mortar, or with a hammer: then infuse it in a pint of Limejuice for 24 hours: then put a pint more of the juice to that which is infused, which will be all in a jelly: take a small white-wandWhisker, and put it into what your forcing is in, and brew it; viz. rub or rowl the whifker with both your hands in the jelly, 'till it become all a froth; then strain it forcibly through a coarse harden cloth, and cast away what stays behind in the cloth, and fet by your forcing; then put the gallon of juice into a clean open tub, diffolve your Sugar in it; then put to the 10 gallons of liquor, and ftir all well together, which is called Shirbeck: after that add to your Brandy; and last of all, the forcing: all which being well stirr'd together, may be put into the vessel it is to be kept in; and next day it will be fit to drink,

Mint-water.

OI 12 104

For fale.

1. s. d.

50 gallons of Mint-water at 25. --- 03 00 00

Directions

Directions for Mint-water.

Mint-water may perhaps not be in any great demand in the country; but upon recommending it, as well from the novelty, as the pleafant-ness of the commodity, you may meet with sale enough for it, especially in great and populous towns, where a far greater variety of all distill'd goods are call'd for, than in small villages, where commonly the most known and vulgar liquors are made use of.

If any double Mint-water be demanded, you may make it as you do other distill'd goods (double I mean): but remember that double goods must have finer Sugar to be dulcifyed with than single goods, which makes them more fragrant to the taste, and more beautiful to the eye: and your customers must not know but all double distill'd goods so call'd are twice distill'd, or drawn over from your Still.

Lime-juice.

00 03 012

For fale.

5 gallons of Lime-juice at 2s. 6d. - 00 12 06

C 4 Directions

Directions for making Lime-juice.

Lime-juice, according to these directions, is said to be unwholesome; but that may be from prejudice against Vitriol, which is known by all the practitioners in Physick to be a most wholesome and fafe medicine; and that for its numerous virtues, which I could here enumerate; therefore that is an error grounded on no reason. When you make the liquor for Lime-juice, you may take double the quantity of water you intend to make of juice, and put 3 or 4 pounds of Limestone to it, and stir it about 'till the Lime be diffolv'd, and let it fland 'till next day: Then pour off gently as much as is the quantity you intend for juice, which will be very clear; and to every gallon of liquor, or Lime-water, add one dozen of prick'd Lemons thin flic'd, and all the decay'd part first cut away; and let them be often well stirr'd, and infused till next day; then strain off all the goods, which must stand till they be clear. and drawn into a vessel to keep for sale or use; adding to every fuch gallon of goods half an ounce of Oil or Spirit of Vitriol to be incorporated therewith, by drawing a gallon or two into a Can, and mixing the same now and then with the whole quantity.

The common and usual proportion of Limeftone used in this and other diffill'd Goods, is about a pound to a gallon, or 5 quarts of water; which stir well about till the Lime-stone be difsolv'd: let it stand all night, and then pour off

the clear liquor for use.

Ratafia.

Ratafia.

	I.	s.	d.
25. 7 d. 2	10	06	03
5 pounds of Lifbon Sugar ———	00	13	OIT
½ pound of Nuts at 12 s. per pound	00	06	00
5 pounds of bitter Almonds at 10 d.			
10 grains of Ambergrease at 3 d. —	00	02	06

02 02 00 E

For fale

l. s. d.

10 gallons of Ratafia at 8 s. --- 04 00 00

Directions for making Ratafia.

Ratafia is not much in demand, fave in fome particular places where it has gain'd a great Reputation; and where to make it more vendible the vender oft-times pretends to be run out; that it comes from the Isle of Man, and is not to be had without much difficulty, purely to make the buyer the more to value and esteem it, and to buy the more at a time, lest a supply were not to be had when there should be most occasion.

You must bruise in a mortar the bitter Almonds and Nuts, and then put them into your Brandy; and let your Ambergrease be well mix'd into the Lisbon, or finest moist Sugar; which must be all infus'd together in the Brandy 5, 6, or 7 days together, oft-times stirring up the same: and when you find it to taste well of the ingredients, strain, or pour off the Brandy from the ingredients; and let it stand in another vessel with

a cock

a cock in it; and when it is fine, put it into your cask wherein it is to be kept.

Cyder.

1 CAG1 DIG	1.	5.	d.
14 pounds of Malaga-Raisins at 24 s.	00	03	00
6 gallons of liquor	00	00	00
100 20 00 100 100 100 100 100 100 100 10	00	02	00

For fale.
6 gallons of Cyder at 2 s. _____ co 12 00

Directions for Cyder.

You need not pick the stalks from the Raisins, but wash them in 4 or 5 waters, until the water run from them very clear: Then put them into a clean open-headed cask, and put to them 6 gallons of liquor that will bear Soap, and cover it very well up; and let it stand 10 days: then draw it off from the fruit into another clean vessel, having a brass cock in it; and in 3 or 4 days time it will be clear, and fit to be drawn into bottles, and in 7 or 8 days more it will be fit for drinking.

But as there is a duty upon Cyder, you must not make any for sale, but for your own and family's use: And to avoid all manner of umbrage, you may give it any other name, when you treat your friends with it. And when your goods are all drawn off, let your Raisins stand or remain dry in the cask, to become acid in 14 days for Vinegar.

Surfeita

Surfeit-water.

l. s. d.

11 gallons of rectify'd Malt proof
Spirits at 1 s. 8 d.

Ingredients, as below, from the Gardener 00 03 04

from the Druggist and Grocer 00 03 02

01 04 10

Herbs from the Gardener Centaury, Marigolds, Mint, Rofe-mary, Mugwort, Scordium Rue, Carduus, Balm, Dragons, St. John's wort, each 8 hand- oo og o4 fuls.

Roots of Angelica, Butterbur, Piony, Scorzonera; of each a pound and half.—

from the Druggift and Grocer

Calamus Aromaticus, Galingal, Angelica-feeds, Caraway-feeds, of each 4 ounces: Ginger 2 ounces, red Poppy-feeds 2 ounces, 6 pounds of Sugar at 4 d. per pound.

For fale.

To gallons of Surfeit-water at 8s. --- 04 00 00

Directions

Directions for Surfeit-water.

You must endeavour to make your Surfeit-water for your whole year's fale when the Herbs are at their prime growth, bruifing your spices or feeds, and cutting your Herbs, and mixing all well together, before you put them into your Still, that one thing may not be predominant over another. but all be duly qualified, and one ingredient proportionable in taste and flavour with another; and it must be drawn off no longer than Proof, and made up and dulcify'd in an open-headed tub, to stand five or fix days to become fine, and then to be put into your cask for use.

If your customers defire it of a red colour, which fome do, and fome do not, the finest and noblest way of colouring it red, is to take one ounce of Cochineal bruifed, put into a linen-cloth, and hang it at the end of your worm, when you distil the goods, and by running through the cloth it will extract all the tincture: but an eafier and cheaper method is by putting fome Cherry-juice or Brandy to the goods, which will give it a de-

licate colour.

Dr. Stephens's water,

ra gallons of rectify'd proof Malt-	1.	5.	d.
fpirits———————————————————————————————————	-00		04
	OI	08	08
	7	Thy	me,

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Thyme, Mother of Thyme, Sage,
Pennyroyal, Pellitory of the wall,
Rosemary, Red-roses, Chamomileflowers, Origanum, Lavender, Mint,
of each 4 handfuls

Ginger, Galingal, Cinnamon, Nuts,
Anifeeds, Caraways, each 2 00 03 04
ounces
5 pounds of Sugar at 8 d. 00 03 04
2 Leaves of gold in every gallon as you make it fit for fale

00 10 06

For fale.

1. s. d.

to gallons of Dr. Stephens's water 303 00 00

Directions for Dr. Stephens's water.

It will be the best season to make Dr. Stephens's water (which is in great demand in London) in June only, when herbs are at their full prime, and must be drawn over, with a very moderate fire, and no longer than it is proof; and as all other fine goods, it will be abundantly better for keeping, after it is made up, and dulcify'd with fine Sugar: Let it stand 5 or 6 days in an open-headed veffel, with a brafs cock in it, and when it is perfectly fine, draw it off gently into the cask you intend to keep it in all the year: But forafmuch as you must have standard bottles for keeping and felling small quantities of Dr. Stephens, and other fine cordial Drams, you must when you fill your standard Bottles of Dr. Stephens's

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Stephens's water put to every gallon thereof 2 leaves of gold, diffever'd with the feather end of a quill, and shaken well up, when you pour out any for sale; some few Persons chuse to drink it, and other fine cordials undulcifyed.

Fine Usquebaugh.

8	1.	5.	d.
5 gallons of proof Molossus spirits at 2 s. 7d. ½	00	13	OII
frigits at 20 d	00	10	00
Mace and Cloves each one ounce and a half	00	03	09
Nutts 4 ounces and a half————————————————————————————————————	00	05	OIZ
Coriander-feed, Ginger, each 3 ounces	00	00	03
Cubaba r ounce and half	00	00	OIL
Raifins 4 pound 1	-00	OI	06
Dates 3 pound	-00	04	00
Liquorife 2 pounds !	00	OI	06
Raifins 4 pound ½ Dates 3 pound Liquorife 2 pounds ½ Best English Saffron 4 ounces and a half	00	11	03
10 pound Lisbon Sugar at 7 d. 1	00	06	03
- on you called two many of	02	17	011
For fale.	,		7
C C TTC 1 1	1.	S.	as
10 gallons of fine Usquebaugh at	}10	00	00

Direc-

Directions in making fine Usquebaugh.

Charge your Still with the Brandy, Mace, Cloves, Nutts, Cinnamon, Coriander-feeds, Ginger and Cubebs, adding 5 or 6 gallons of liquor, and draw off your goods very gently, and no longer than proof; and against your Still comes to work prepare ready the English Saffron, well dissever'd and put into a linen cloth, and hung at the worm's end; whereby all the goods running through the Saffron (which must be oftentimes turn'd over and over) all the tincture will be extracted, and run amongst the distill'd Goods.

In the interim take the Raifins and Dates and flone them, and scrape the Liquorise, and slice them all very thin, and put'em into an earthen pot, with three gallons of liquor, and covered with thick cap paper, and set to stand in a moderate oven 5 or 6 hours; then let it stand 'till it be fully cold, and strain it into the goods drawn from the Still, and with liquor make up the ten gallons wanting from the Still, dissolving your Sugar therein, and add it to your goods, which when well mix'd together must stand 8 or 10 days in a cask with a cock in it, to become clear, and then put into your cask for sale.

Usquebaugh.

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Usquebaugh.

0 1 0			
	1.	s.	d.
11 gallons of rectify'd Proof-spirits-	-00	18	04
Nuts 2 ounces	00	OI	08
Cloves 2 ounces	-00	OI	08
Cinnamon 2 ounces	-00	OI	02
Anifeeds 4 ounces	-00	00	02
Caraway, and Coriander-feed each ‡			
Liquorife ½ pound	-00	00	04
6 pounds of Sugar at 32 s. per C	- 00	OI	09
English Saffron 2 ounces			
Coals, and working	-00	00	06
and the comment of th	OI	10	08%

For fale.

1. s. d.

10 gallons of Usquebaugh at 6 s. - 03 00 00

Directions for Usquebaugh.

When you make fine or common Usquebaugh, be sure you bruise all your spices and seeds before you put them into your Still, and draw off no more from your Still than proof goods, as is, or must be, a constant and standing rule in making all manner of sine goods; and your Liquorise must be also sliced or bruised; and against your Still come to work, you must have ready your Saffron, rubb'd or pull'd to pieces (call'd properly disseveration) and put it into a large linen cloth, and hang it at the end of your worm, to receive all the goods as they come from the Still,

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Still, and so drop into your Cann, often turning and teazing the Saffron, that the goods may the better extract all the tincture: If any thing be left in it, take a pint of liquor, and put the Saffron to it in an earthen pot, that must simmer an hour over a gentle fire, and press all the virtue that remains into the goods, dissolve your Sugar, which makes your goods proof, and let it stand two or three days to be cleared for sale.

Vinegar.

For fale.

1. s. d.

3 gallons of fine pale Vinegar at 12 d. 00 03 00

Directions for making Vinegar.

When the Raisins, of which your Cyder was made, have remained dry in the vessel for sourteen days to become sour or acid, from the time your Cyder was drawn off; then put of the same liquor, of which your Cyder was made, as much as will cover the Raisins and appear at the top of them; and let it stand sourteen days infusing, in which time it will become smart vinegar; and may be then bottled off, being sit for use, and the longer it is kept, 'twill be the better. Cast away the Raisins, where the gager may not take notice of them, lest he suspect your using them in an illegal way, as in rectification, &c. which is prohibited under a severe penalty; nor are you to sell

the vinegar so made, because it is subject to a duty, but what you make for your own use is not cognizable by any Officer.

To make Elder-juice.

When you make Elder-juice let your berries be fully ripe, and all the stalks (which are very many) be clean picked from them; then if you have a press for drawing all the juice from them, have ready four or five hair Cloths fomewhat broader than your press, and lay one layer above another, having a hair cloth betwixt every layer, which must be laid very thin, and pressed first a little, and then more and more, till your press be drawn as close as you can; then take out the berries, and press all you have in the like manner; then take your pressed berries, and break out all the lumps, and put them into an open-headed vessel, and put upon them as much liquor as will just cover them. and let them infuse so for seven or eight days, and put your best juice into a cask proper for it to be kept in, and put one gallon of Malt-spirits not rectified to every twenty gallons of Elder-juice, which will effectually preferve it from becoming four for one or two years at least: I mean your Elder-juice of the first drawing.

In London, where Elder-berries are scarce and dear, they are insused in liquor as above, and pressed a second time after the lying in the said liquor seven or eight days, and pressed after the same manner as the former, and the liquor put into a cask by itself; and one gallon and a half of Proof-spirits put to every twenty gallons, and proportionably for a greater or lesser quantity, which by standing some months becomes a pretty good commodity.

But

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But in the country where Elder-berries are plentiful and cheap, a press is not always made use of, but an open-headed vessel like a mashing tub, with a large hole at the bottom, and a piece of brick laid upon it; and the Elder-berries press'd with your hands into a pulp, and cast into the said vessel, and the juice will run through the hole at the bottom into a trough, or any other thing set under to receive it, and the berries are press'd no otherwise.

Colouring for Brandy.

There are divers ways of colouring Brandy, according to the feveral fancies and humours of countries and customers; for Brandies first made are as clear as liquor, and grow or become higher coloured by long keeping: But are artfully and speedily made of any colour by several ingredients; as for instance,

To make Brandy of a light straw colour; half a pound of Turmerick powder dissolved in a Cann of spirits or Brandy, and put into the whole piece of goods and stirred well together will colour the

whole piece.

Another more usual way is to compute what quantity you have to do, and put three quarters of a pound of Treacle to every twenty gallons of Brandy, and more or less to every larger or lesser parcel, dissolving the Treacle in a little of the Brandy in a Cann, or any convenient vessel, and putting it to the whole quantity; which like the leven in a lump communicates it self through the whole.

But the best and most celebrated way of giving an immediate colour or tincture to Brandy, is by having always by you a quart of burn'd Sugar D 2

of the confiftence of Treacle; (or fyrup of Elder may in lieu of it be fubstituted) which gives an admirable colour to the goods, and may be made deeper or lighter, by putting more or less thereto as you see occasion, and putting it into the whole quantity you intend to colour.

To make a light bright red.

When you have occasion for this colour, you must take two pounds of red Sanders, and one pound of red Archil well mixed together, and put it to four gallons of proof Malt-spirits; which by a gentle heat dissolve, or extract all the tincture, continually stirring it all the while of the solution or extraction of the said tincture; which done, strein it whilst warm through a coarse cloth or hair sieve, and if you find it necessary you may add or put in four or sive pounds of Sugar at the first insusion.

A quart of this mixture, or infusion, will colour fix or eight gallons of other goods as you have

occasion.

Alkanet-root imparts a beautiful red colour to any spirituous liquid; and that immediately, by only a simple and cold insussion; without communicating any disagreeable taste or smell thereto: Which by age inclines to a bright golden or amber colour.

Syrup

BOOK I. of DISTILLING.

45

Syrup of Elder.

l. s. d.

1 gallon of Elder-juice — 00 01 00

8 pound of fine Sugar at 6 s. 6 d. 00 04 01 2

00 05 01

For fale.

12 pound of Syrup-elder at 12 d. — 00 12 00

Directions for Syrup of Elder.

When you make your Syrup of Elder, you must first put your juice into a brass pan, &c. that will hold twice as much, and fet it upon a clear but flow fire, adding the white of an egg (beaten up to a froth) as foon as it begins to boil, skim it as long as any skim appears upon the top of it, then put (to the faid clarified juice) your Sugar, which is one pound to every pint of juice; and let them boil very moderately together 'till it come to a proper confiftence, which is known by dropping a little upon your nail; and if it stand thereon, without spreading it self farther, it is enough: Let it stand till it be fully cold, and then put it into glass bottles, cover'd only with paper, pricked full of holes, and fo kept for use.

D 3

Wormwood-

Wormwood-water.

State of Various Str. of Local Difference	1.	s.	d.
30 gallons of proof Malt-spirits at }	02	05	00
10 pound of dried Wormwood—	00	00	08
e pound of Sugar at 21 s. per C.	00	00	II
Coals, and working	00	OI	00
	02	07	07
For fale.	7.	s.	d.

45 gallons of Wormwood-water at }04 10 00

Directions for making Wormwood-

Wormwood-water is in good demand in the Country, being fold and made use of, simply and purely by it self.

But in London it is commonly drunk with other goods, by putting a small and inconsiderable quantity of it amongst other liquors, which receive a particular flavour and agreeable relish thereby.

There is no certain rule for the quantity of Wormwood; because Wormwood that is very dry, and shaken, or removed from place to place, will lose most of its seed, wherein its strength lies; and besides persons palates differ so much (as one man's meat is another's poison) that your own discretion and experience will direct you, after you have once or twice sollow'd the prescription as above directed.

And

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And you must remember at the season of the year to procure as much as will serve for a year's use; and dry it perfectly well by hanging it on lines, and then lay it by for use.

Spirits of Wine.

to got a rest time, I we ware that an		s.	
20 gallons of proof Malt-spirits at 18 d.	10	10	00
6 pounds of Bay-falt at 2 d. ½ — Coals, and working —		01	100
Coals, and working	-00	02	00
	01	13	03

For fale.

I. s. d.

10 gallons of Spirit of wine at 6 d. - 03 00 00

Directions for making Spirit of Wine.

When you make spirit of wine charge your Still not only with double the quantity of spirits, to what you intend for Spirit of wine, but a few gallons more of Spirits, as four, sive or fix gallons; that the bottom of the Still may not be burned: (viz.) charge your Still with twenty four gallons, (in lieu of twenty) and put thereto two pounds of Bay-salt, which will of it self dissolve in the Still; draw it off gently, till the colour of the goods change, which will be about two third parts of the goods, (viz. sixteen gallons:) Then draw off the faints, and put them amongst the other faints; damp your fire, empty your Still, and charge it again with the rectify'd Spirits new drawn off, and free from faints; and put other D 4

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two pounds of Bay-falt thereto, and lute up your Still again, and draw it off with a very gentle fire; and when the proof's gone, put what is left in the Still amongst your faints; damping your fire, and charging your Still again a third time with no more than your strong goods, last distill'd; to which add the last two pounds of Bay-salt, and so lute up your Still very well, and take a special care in drawing it over a third time, left any candle should set it on fire (and endanger the burning of your Still-house, &c.) and let your fire be so flow, as the goods may run like a fmall thread: And when as much is come off as makes up the quantity you intend to make, damp or extinguish your fire immediately; and put all the goods together, stirring and mixing them very well; and emptying what's left in the Still, and using it for common waters: And for proof of your Spirit of Wine, put a little Gun-powder in a spoon, which fill up with Spirit of Wine, then fet the Spirits on fire, and if they be perfectly deflegmated they will burn dry, and blow up the Gunnowder.

Royal Geneva.

		s.	
30 gallons of proof Malt-spirits at 3	02	05	00
7 pounds of Juniper-berries at 3 d. —	00	10	09
7 pounds of Juniper-berries at 3 d. — Coals, and working	00	01	00
	02	07	09

For fale.

30 gallens of Royal Geneva at 2 s. 4 d. 03 10 00

Best

Best Geneva.

now Dillillers there at her of their	1.	s.	d.
30 gallons of proof Malt-spirits	at }02	05	00
8 pounds of Juniper-berries at 3 d.	00	02	00
	00		
	02	08	00
For fale.	SUP.	ile.	NA.
35 gallons of best Geneva at 2 s		s. 10	

Geneva.

The Control of	1.	s.	d.
30 gallons of proof Malt-spirits	at }02	05	00
10 pound of Juniper-berries at 3 d.	00	02	06
Coals, and working	00	01	00
	02	08	06
For fale.			
45 gallons of Geneva at 20 d.		s. 15	

Observations upon Geneva.

Geneva hath more several and different names and titles, than any other liquor that is fold here: as double Geneva, royal Geneva, celestial Geneva, Tittery, Collonia, Strike-fire, &c. and has gain'd

gain'd fuch univerfal applause, especially with the common people, that by a moderate computation, there is more of it in quantity fold daily in a great many Distillers shops, than of Beer and Ale vended in most publick houses, with this farther advantage, that Geneva is faleable the next day after its being distill'd, which is not to be practis'd in the others: However, it wonderfully improves by keeping, especially when it is full proof, infomuch that some persons distilling Geneva from rectify'd Malt-spirits, with the usual quantity of Juniper-berries, and laying the goods by for eight or nine months, the same has meliorated, and become fo mellow a commodity, that it has been fold at double price in parcels, and been preferable to other liquors of dearer prices.

Directions for ordering Juniper-berries.

It is most for your interest to buy the best Juniper-berries that can be procured; I mean fuch as have been first gather'd at their full growth and maturity; which far excel those that are gather'd green or unripe, and fo become black, or faleable only by artful means, but have nothing like the fubitance and flavour of the best ripe Berries: And the Geneva made of the faid best Berries is incomparably better, fweeter, and of a more grateful flavour, than what is distill'd from ordinary Berries. There are feveral ways of preferving or keeping Juniper-berries for the whole year, viz. after their being first gather'd, lay them pretty thin, by fpreading them upon a boarded floor, leaving the windows or doors open to convey more air, that the Berries, by turning them once a day, may become fit to pack, either in barrels Book I. of DISTILLING.

SI

or bags, without the danger of heating, when you have occasion of sending them any ways abroad: But what Juniper-berries are for your own proper use, and for a whole year's consumption, you may put or pack up in any liquor-barrels or hogsheads, which are tight and will hold any liquor withour leakage; which no wind or air coming or getting to, by keeping the bungs also cork'd up, 'twill preserve your Berries as black, bright and plump, as at the first; you may let your casks lie along any dry ground-room floor; and by opening your bung may see the condition they are in; which will be worst next the bung by the air coming to what lies next it, so to be at your pleasure taken up.

Another, and more usual way of ordering them is, to let them lie upon a Chamber or loft-floor; and when by often turning they are become sufficiently dry and beyond any danger of heating, you may put them all together in a heap in a corner of the said room, as is done with corn in a barnfloor; and so use them as you have occasion.

But because the Berries, by long lying on a boarded floor, will become much drier and lighter than at first; you may take the quantity you distil at once, being first weigh'd according to the prescription, and put them into a measure that's as near the fize as possible to your Berries, before they become wither'd and dry'd; and observe well, by marking or otherwise, how far your measure is fill'd, and you may afterwards, as long as that parcel of Berries lasts, make that your standard; without weighing them any more for the said quantity.

Directions

Directions for preserving Juniperberries.

The fame method is exactly follow'd and made use of in another way of keeping your Berries; which is, to put them immediately after their being first gather'd into a large tight cask, near full with your Berries, and then putting Proofspirits upon them, which preserves all their first fubstance, and prevents all smack and ill savour to which they are otherwise subject, when they are not gather'd fully ripe and dry: and take up the cover, when you have occasion for any, and measure them out dry, according to the measure you observed they were of when you weigh'd and measur'd them before their infusion; and as your Berries fink in the cask, you must draw off your Spirits with a brass cock put into the said cask, always keeping your Spirits of an equal height with your Berries, and using the Spirits as you draw off for the Geneva you then diftil. But for those who live in the country, where Juniperberries are both good and cheap; (for the other methods are used in London, because of the dearness and badness of Juniper-berries; in which commodity the greatest frauds possible are made use of; in their being gather'd green, not half ripe, and wanting at least a year's growth of their full ripeness and maturity; in their being sweated and ripen'd by putting in stoves, kilns, or ovens, and artfully colour'd, and fo mix'd with good goods, whereby the whole is adulterated, and becomes a downright wrong, and oftentimes a great loss to the person that makes use of them) I advise you to be careful in procuring your Berries of persons, whose report you can depend

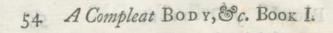
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upon of their being gather'd at their full ripeness: lay them pretty thin on a loft-floor, turn them often 'till they be pretty dry, then may you lay them in a bulk, and constantly weigh them as you have occasion; and if you should observe them to heat or sweat, when they lie in a greater quantity together, then spread them abroad thinner on the floor, and so you will recover or preferve them always fweet and well-favour'd, and always have Geneva of a true flavour, guft and relish.

Cardamom, or All-fours.

te inquery and adding a greater quar-	1.	s.	d.
30 gallons of proof Malt spirits at })2	05	00
3 pounds of Clove-pepper at 9d.			
3 pounds of Caraway-feeds ———————————————————————————————————	00	00	07
3 pounds of Coriander-feeds-	00	00	04
3 pounds of Lemon-peels at 4 d.	00	OI	00
per C.————————————————————————————————————	00	02	07:
Coals, and working			
)2	12	091
For fale	,		1
45 gallons of Cardamom at 2 s.			d.

Directions



Directions for making Cardamom, or All-fours.

In this liquor, any one, or more of the Ingredients may be omitted or alter'd, and another thing that's cheaper may be substituted: as for Clove-pepper, you may use Angelica-seed or root, or Mint; or for Lemon you may use Orange-peel, or wholly omit any particular that is predominant, or disagreeable in its slavour; and add proportionably in a greater quantity of the other ingredients. You may reduce it lower by adding more liquor, and adding a greater quantity of the ingredients, as in Aniseed-water: let it stand two or three months before you use or expose any of it to sale.



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THE

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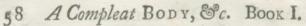
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THE

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THE

DISTILLER'S

Directory.

Ι,

N rectifying and diffilling compound goods a fmaller Still is known to make a cleaner and better commodity than one that's larger: and one that's half a hogshead gage, over and above your hand breadth depth from the edge or top of your Still, is accounted the fittest fize for a moderate trade; both as it may be managed without fatigue, and as it produces encouraging profit much superior to the fund it requires.

2.

When you erect and place your Still, and other utenfils thereto belonging, let it be, if possible, in a building, out-house, or shed, separate from, but near adjoining to your dwelling-house, or shop, to prevent any hazard which may arise E 2

by fire, to which all fpirituous goods are liable; and no otherwise to be extinguished, but with a woollen blanket or rug, drench'd in water, and cast upon the slame.

3.

Let your work-house be large enough, not only in regard to your Still, Worm-tub and Pump, which must be all placed in a row, or ranged together, to contribute to your working with ease and pleasure; but because your Spirits which are for distilling, must lie in some proper place or part of your work-house, to be near at hand to charge your Still with, and at some reasonable distance from the fire; and also that you may have room enough for placing all your empty vessels, tubs, canns and other utenfils properly belonging to the distilling trade, to have them near at hand on all occasions; and let your Still-house-floor be paved with broad stones or flags, having a descent to carry off all the wash from your Still, your hot liquor from the worm-tub, and all other occasional flop, which will be made by washing your casks, &c. whereby your Still-house-floor will always be kept clean.

4.

It is absolutely necessary, and what you must first of all be apprized of, that there be sufficiency of water where your Pump is to be sunk, both to keep your Worm-tub continually cool, to make up all your goods to their proper strength, and to serve all other occasions whatsoever: it matters not whether your water be soft or hard, if you have but plenty enough of it.

5. Your

5.

Your Still must be plac'd upon brick-work, having an ash-hole of twenty four inches long, nine inches broad; and to the iron bars, where your fire is to be under your Still, twenty one, or twenty two inches high; and made somewhat sloping, the better to command the ashes.

When your brick-work is made about the height last mentioned, you must place your gratedoor (both of strong iron) before, or in the forefront of the Stove, or place where your fire is to be made under your Still. The faid iron door and frame must be about ten inches long, and eight inches broad : Close behind the faid door, and frame, must be plac'd two flat cross iron bars, about two inches and a half broad, half an inch thick, and fifteen or fixteen inches long: Both ends of which bars must be laid about three inches into the brick-work, for fixing them the better ; and the upper part thereof must be about half an inch lower than the upper edge of the door-frames. Just behind the said two iron bars must be placed another flat iron bar, about an inch and an half broad, half an inch thick, and fixteen inches long, fasten'd in the brick-work as the former, and near an inch lower: Upon which last mentioned flat iron bar your iron grate must rest at the higher end; and the other ends of your iron grate must rest upon another flat iron bar of the same dimenfion fasten'd at the furthest end, or most distant part of your Still-bottom.

The iron grate must consist of about eight bars of inch square iron, but exactly of one length, made broad, or flatted at each end, to rest on the said two cross iron bars, so as the upper part of the square bars must be even with the higher part of the slat iron bars on which they rest, that the sire-shovel or

E 3 coal-

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coal-rake may run fmoothly along them. The faid fquare iron bars must be about eighteen inches long, and laid loofe within a crown's breadth of each other upon the aforefaid two broad iron bars, as firm as you can, yet fo as they may be put in, or taken out as occasion requires; then raise your brick-work, fo as your Still-bottom when fix'd, or rested thereupon, may be about ten inches above the iron grate, that the fire may have room to play; and the part of the brick-work under the Still where the fire is plac'd, and whither it extends within the Stove, must be inlaid with hearth inch-tiles, well fasten'd with lime and hair, which will abide the fire much better and longer than bricks. Let not the fire-place be too broad, wherein your workman's judgment will have regard to the fides not being of the fame thickness with the bottom of your Still. There must be left a floping place, or hole proper for conveying the fmoak into the flue or chimney; which flue must be carry'd up a convenient height, to draw the fmoak, and convey it as in its proper vehicle. Let your Still-cock come fo far through the brick-work, as your wash may run out either into canns or otherwife, as you have conveniency for conveying it away. The brick-work about your Still must be exactly round, as high as the upper nails of your Still, sloping from the fires, left any goods boil over; and very well mortar'd, and cover'd all round with coarfe canvais or hop-fack, to keep the fire closer in, the wall from cracking, and your cloaths from being abufed thereby.

6.

Your Worm-tub must be plac'd very near your Still upon a strong wood-frame, according to the fize of your Tub, which must be four or five times Book I. of DISTILLING.

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the quantity of your Still, fo as every staff of the Tub may rest firmly upon the frame, the better to support the great weight of such a quantity of liquor as is necessary to keep the Worm constantly cold, or cool enough. Your Worm-tub-frame must be so high, as when the tub is plac'd upon it, the low end of your Worm which comes through the Worm-tub will admit of your canns being readily plac'd under, and taken away when they are full. The upper end of your Worm must be placed fo, as the nofe of your Still-head may go into it without any difficulty, and thut in fo close as to be eafily luted; and your Worm-tub must stand so upright as no liquor may hang in the Worm, which you may know, by putting a pint or quart of water into the Worm, which will run out at the lower end of your Worm. In the middle of your Worm-tub you may place a woodgutter about three inches square within, to reach from the top of the Worm-tub to the bottom of the fame, having about three or four inches on the opposite sides at the bottom end of it left open, that the liquor that's pump'd into the gutter, which descends, may flow out at the faid two breaches to the lower part of the Worm-tub, which forces all the hot water to ascend upwards, and runs either over the Worm-tub, or rather through a leaden pipe of a moderate fize, which is call'd a wafte pipe, being put through, and foder'd in your Worm-tub, and extended down your Tub-fides, to what further length you pleafe, to convey the warm water from your Tub, till the liquor in your Worm-tub be perfectly cold; which by the continuance of your Still working will grow hot again, and again must be still cooled after the same manner.

E4

7. Your

7

Your Pump must be plac'd next your Wormtub, and of such a height as you may have a spout put into that part of your Pump, which is next your Wormtub, under which you may six a good gutter, to reach to, and be laid in the gutter, that's six'd in the middle of your Wormtub, that the liquor may be more easily, and with less waste, convey'd into your Wormtub, in order to cool it. You must have also another spout in the fore-part of your Pump, much lower than the other, for drawing liquor for all common uses, the higher spout being closed, and only appropriated for cooling the liquor, when hot in the Wormtub.

8.

It will be necessary also to have a large ironbound Water-tub fet upon a strong frame, or Stillyard, about the height of your Worm-tub, and plac'd on the other fide of your Still, or in some other convenient place near at hand, to contain a large quantity of water, having a large brass cock therein, to draw off what liquor you may stand in need of fuddenly; which may be of very great fervice to you upon any emergency; and may be drawn off in much less time, and with less trouble than by pumping: for the Still may accidentally be sometimes dry, and prove of dangerous consequence, if you had not a quantity of liquor ready on all occasions in your Water-tub to repair to. Your Water-tub must be open at the upper end, that you may dip or drench your canns into it, or lay any small rundlets in it, to steep and become tight; and that your Tub may be more eafily fill'd with water.

9. You

9.

You will find your interest in keeping a good middle-fiz'd Press, plac'd in a corner of your work-house, and ax'd so steadily, as not to be mov'd when you use it, having a very strong bed or place, in which the goods to be press'd are put; and five or fix hair-cloths fomewhat broader than your Press to be put betwixt every layer of Elder-berries, Cherries, Raspberries, or any other things which are to be press'd; all which are to be laid as thin as possible, and your Press-skrew to be drawn pretty much till the liquor run by a fpout made of sheet-lead, nail'd to the forepart of the bottom of your Press-bed, into one of your canns, which must be placed under it, to receive the juice from the press; and draw out your iron pin, to give time to the Press to empty itself of what juice lies in the bed: then draw the skrew a little closer, and allow time for the juice to run out; and fo more and more, till all the juice is wholly drawn or press'd out of the goods.

10.

You must have also at least two or three iron-bound open-headed tubs, wide at the top, and narrower, taper-wise down to the bottom (one of these Tubs is to make up a hogshead of goods in, another to contain somewhat more than half a hogshead, and another about twelve gallons;) which must be plac'd orderly in your Still-house, and now and then fill'd with hot liquor out of your Still; and the iron hoops driven, or fasten'd, to keep them sirm, and in sit condition to hold the goods that are to be put, or made up in them,

II. You

II.

You must also have three or four iron-bound canns, either with iron round hands or bales; one to hold five, another to contain four, another three; and if you please, another two gallons; not by bare measure to the top, but let your goods reach no higher than within three inches of the brim; and put a brass nail, foresett, or plug into your cann fix'd therein just where the liquid reaches; which serves for a constant gage for the future.

12.

Another necessary utensil is an iron-bound wood Funnel, which by computation would hold three or four gallons, with a strong iron nosel or pipe to put into the bungs of the casks which the goods are to be put in; which must be ranged or plac'd upon a shelf along with the iron-bound canns pretty near your Still.

13.

In some convenient part of your Still-house where room may be most spared, must be plac'd a pretty large vessel, either cover'd or open, as you please, upon a Still-yard or guntree with a cock in it, in which you must put all your Faints or After-runnings, until you have a quantity worth your distilling over, into which vessel or cask you may put the washings out of your casks, the drippings of your cocks, any goods accidentally spoil'd, either by wrong mixture, spilling on the ground, or otherwise; or any thing else that has a spirituous matter or substance in it.

14. Another

14.

Another piece of necessary furniture for your Still-house, and which cannot be dispens'd with, is a good strong Tin-pump of about five foot long, and fix inches in circumference, its nosel about six inches from the top of the pump, and the said nosel about fourteen inches long from the body of the Pump; besides a little angular nosel about four inches, to be put on upon the other, or taken off as your occasions require. The use of this Pump with its appurtenances, is to draw off your Spirits out of the pieces into your Canns to charge your Still withal; and for many other purposes to which it will be serviceable.

15.

A pewter Crane is also absolutely necessary, made somewhat semi-lunar, or like a half moon or angle, about six foot and a half from one end to another, and sour inches round about on the outside; to draw goods out of any vessel where the Pump cannot play.

16.

A pewter Valencia is also useful, being about two foot long, tapering at the end, which you put into the piece, or any other vessel, to draw out any small quantity, by putting or moving your finger on the other side of the Valencia, whereby the liquor is suck'd into the gim-crack for your tasting or trying of its proof; which with the Crane may be hung against the wall.

17.

Hippocrates's bag, or Flannel-slieve is another thing very necessary for the Distiller, whereby all bottoms of casks, tho' never so thick and seculent, culent, by putting into this Bag or Slieve to filter, become prefently clear, the porous parts of the faid Bag being prefently fill'd with the groffer matter; and the thin or liquid element runs clear from the Bag, and is as good as any of the reft: Alfo any foul goods or liquor may prefently be made clear and fine, by putting fome powder'd Alabaster into the goods or liquor, to stop the porous parts of the Bag or Slieve, which presently becomes, or runs clear, leaving nothing but the sediment or grofs matter in the Bag: nor do the goods or liquor contract the least ill flavour from the said Alabaster-powder.

The faid Bag or Slieve is made of a yard or ell of flannel, not over-fine or close wrought, laid floping, so as to have the bottom of it very narrow, and the top as broad as the cloth will allow, well fewed up the fide; and the upper part of the Bag folded about a broad wood-hoop, and well fasten'd to it; then boring the hoop in three or four places, fix to it a strong box-cording to support it, and hang it up.

18.

You must have for your Still-fire a large Poker, Fire-shovel, and Coal-rake, with other necessary utensils for your Still-house; a Cooper's Hand-saw, Edge, Gimleck, a striking Gimleck, a Hammer, a pair of scratching Irons, a pair of Tarriers, a Bung-borer, a Box-foreset, and a Box of Bungs.

19.

When you are to distil, you are to make ready, against your Still is charged, a Paste of the bigness of a Turkey Egg, made half of Spanish wheat, and the other half of Rye-meal, Bean-meal, or Wheat-slower well mixed together, and made

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made into a Paste with Water, of the consistence of an ordinary Paste for baking; and having put on your Still-head, with its nose in the upper end of the worm, then take your Paste, working and making it plyable with the heat and operation of your hands, and spread it upon the junctures of the body and head of your Still, and that part of the nose of your Still-head, which goes into the end of the worm, to keep in the goods from boiling over: Make the Paste very smooth, by wetting your hand (with which you lay on the Paste) oft times in water, to cause it to lie the closer, and fecure the goods from all events, and referve a piece of Paste about the bigness of a small apple; left the luting should crack or break out, which is very dangerous, and must therefore be carefully attended to and examin'd, and, in case of any defect, mended with the Paste reserved for that purpose.

20.

When you fet up a new Still, which has not been used, let it be fill'd within your hand breadth of the brim with liquor, and put to it a peck of Wheat-bran, or Chissel, and put the head upon the Still, and fix it firmly on with a Wood bar, about the thickness of your wrist, upon the loop, a little below the neck of your Still: And the upper end of the faid wood bar must be fastened under fome beam or lintel perpendicularly, to prevent the Still-head from moving by the force of distillation: Then lute your Still as directed in the foregoing paragraph; and having made a fire under your Still proper for that purpose, draw off two or three or four gallon Canns by distillation; whereby all the joints and nails of your Still will be cemented, and made fit for distilling your ftrongest proof goods: Then damp your fire with iome 70. A Compleat BODY BOOK I.

fome wet ashes, or extinguish it wholly with liquor cast upon it, wash out your Still-head and worm, afterwards you may charge and work your Still with what goods you please.

21

All your Spirits to be diftill'd should be proof goods; which you try, by having a fmall quantity put into a glass Phyal, and shaking it with your hand; if the blebs or proof of it continues a pretty while upon the top or furface of the goods, it is then what is called proof-goods: and when it is diftill'd, it will yield about or very near two third parts; or every thirty gallons will distil to near, or fometimes full twenty gallons; according as the Spirits are higher or lower proof; which you may make proof, or to what strength and weakness you please, by adding that proportion or quantity either of spring or river water, as is neceffary thereto: As for example, take and observe this general rule in diffilling, that all double goods coming from the Still, clear proof and without faints, must be made up with liquor to that quantity you charg'd your Still with at first: As if with thirty gallons of proof-spirits, it will yield (as above noted) about twenty gallons of high proof goods, the deficiency of ten gallons must be made up with Liquor, till the whole amount to thirty gallons your first charge; and in fingle goods you add one and a half part more of liquor (viz. fifteen gallons) to what is ordered in making up double goods, whereby you will have in all forty five gallons of fingle goods. But if your spirits are below proof; upon your shaking the Phyal, or glass, the goods will fall flat, or the blebs or proof thereof will not continue on the furface of it : And according to the degree of its being reduced more or less below proof, the goods will flatten accordingly; and

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and when fuch goods are distilled, they'll fall short in quantity; and upon making them proof, and no otherwise will you know what Body they were of, and how far they were reduced.

22.

When your Still is charged with goods for diffilling, and luted, then make your fire under the Still; which if possible must be of coals, because their heat is most constant and durable, and wood fires are very subject to both extremes, of too much or too little heat, which are prejudicial and sometimes hazardous.

Let your fire be first pretty moderate, and then by degrees increased, and now and then stirr'd up with your Poker, as is usual in common fires: and by laying your hand upon the body of your Still, as the fire gains strength in the stove or furnace under the Still, you will perceive the heat will by moderate degrees afcend up your Stillhead, occasion'd by the goods in the Still boyling higher and higher. When your Still-head becomes warm or hot, then prepare a damp (which is to check or leffen the violence of the fire) which damp is made of about half a bushel of ashes taken from under the Stove or Furnace, and two or three gallons of liquor cast upon and well mix'd with 'em, upon the ground or hearth, before or under your kiln door, to be ready to cast upon the fire, when there is occasion so to do: And move your hand upon the Still, higher and higher, as you find the heat grow hotter, and afcend to the neck of your Still-head: Which when it comes with any vehemence more than a common warmth to turn downwards towards the Worm-end, in which your Still-nose is luted, cast three or four fireshovels of wet Ashes upon the hottest part of the

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fire, which must be done very smartly and critically, at the very turning of the highest part of the Swan-like neck of your Still towards the Still; whereby the violence of the fire is abated, which wou'd otherwise bring down the goods through the worm very foul in a rushing stream; which is dangerous, and by any means to be prevented: Whereas your damping the fire seasonably, brings down the liquid like a small twine thread.

23.

You must take especial care not to touch or meddle with your fire while your Still is near coming to work, because of increasing or heightening the heat, which wou'd unavoidably make your Still run foul: But when your fire is damp'd and come to work, you may let your kiln-door be fhut close, and continue fo, as long as the worm runs as fmall as a moderate Box-cord, or as thro a large turkey quill. But as the kiln-door being long thut will overcome the Damp, and bring the fire to its former violence, fo when you are apprehensive of it, you may throw open the kilndoor, which abates the heat immediately, and lessens the stream flowing from your worm : And you must cautiously meddle with your Still fire till more than one or two Canns be come off from your Still, which is about the double strength of the first goods, and then there's less danger, and you may more fafely stir up or mend your fire, or thut your kiln-door, to make your goods come down with a little larger Stream, 'till the goods be wholly come off from the Still.

24.

When you perceive near two third parts of the first quantity which you put into your Still to be run from thence, then be often tasting the goods,

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goods, which must run as long as any strength remains; when all the goods are come off, the former clear colour of the goods will turn to a blue, and fometimes according to the nature of the goods, to a whitish colour; which are flegmatick and foul, and if they were fuffered to run amongst the goods, wou'd make them taste difagreeably; but by being kept by themselves, the goods are clean and well-tasted; and the faints or after runnings, being put and kept in a veffel till you have a quantity together, you may then distill them (I mean the faints) charging your Still within a hand-breadth of the brim; and casting two or three pounds of Salt to each Still, and drawing them off as other goods, as long as the strength continues in the spirits, which generally will be about one fourth part of the whole. When the strength of the spirits is gone or run off, take away your cann of goods, and let the faints run into another cann, as long as the faints will burn on the Still-head, being cast thereon, and a candle put to it to try the experiment.

25

When your faints are drawn into spirits, which must be made proof, that you may make a better judgment how to convert them to other goods, you must always make them into such goods as carry a very predominant or prevailing gust or taste, above other ingredients: And therefore the common and usual method taken with them, is to convert them into Aniseed or Wormwood waters; and sometimes into all-sours; putting a little more than the receipt of Ingredients, which is made use of, the same goods being drawn from clean Malt-spirits: And also dulcifying a little higher than otherwise, purposely to cleanse or carry

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ry off any ill relish contracted from the multiplicity of mixtures in the faints.

26.

You must always keep the water in the Wormtub very cold or cool, that the goods coming off the Still may be perfectly so; which will contribute to bettering the goods, and making them settle sooner: Whereas the goods coming off warm or hot from the Still, they lose considerably of their strength, which is extracted by the hot liquor, become more unpalatable, and not without much time and difficulty are made fine.

27

When you distil any goods which are not above one third, or one half part of the quantity your Still will work, be sure you add one, two, or three canns of liquor to the goods you charge your Still withal; both for better preserving the Still from damage; and because the goods will purge and fine themselves, by having a quantity of liquor with them wrought together; and will run considerably more from the Still, than when the Still is charged with full proof goods; not that they can possibly be more in strength or substance, but by their being weaken'd with liquor put to them, are drawn lower, and require less liquor to make them proof.

28.

When you draw off your Still more than once in a day; if your fecond distillation be of the same goods with the first, and the quantity of each the same; then when your goods and faints are drawn off, damp your fire very well under your Still, draw your wash quite out of your Still, and without cleaning out the ingredients, you may charge

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it a fecond time with the spirits and ingredients; and draw off your goods as at other times: But if you charge your Still a second time with the same goods, and no greater quantity than what the goods run from what your Still was first charged with; then when your goods are come off, and without suffering the faints to run, damp your fire, strike off your Still-head, and charge your Still accordingly with your ingredients, and draw them off as you do at other times. But if you charge your Still a second time the same day, with goods different from, and of another fort than what your Still was first charged with; then clean your Still of all the wash and ingredients: scrape

your Still of all the wash and ingredients; scrape off all the luting on the Still-head, and upper part of the body of your Still, which remained or was left on the Still and head; wash down the worm with about a quart of liquor, to prevent all Obstructions therein; and draw off your goods of the second charging or distillation, as you do at other times: Nothing differing either in drawing off, or making up the goods, from what you do when your Still is charged with no other goods, or only one distillation made thereof at that time.

29.

Be fure that betwixt every new charging your Still, you scrape off all the Paste which cleaves or is burn'd to the Still-head, or the brim of your Still; which might endanger your new luting, to crack or break, were it put upon the old paste or luting: And also let your worm be constantly washed down, with a pint or a quart of liquor, lest any thing be accidentally got into the worm, which might prove of the worst consequence, and must therefore be prevented or guarded against, by the greatest caution you can possibly take therein.

F 2

30. It

30

It conduces to meliorate your goods, when the ingredients of which they are made, are infused in spirits over night, before they are distilled; which spirits must cover the ingredients, and being measured, you must allow what they measured to out of the quantity you put into your Still; so that both the spirits in which the ingredients are insused, and the other which you measure into your Still, must together make up your intended quantity: And let all your ingredients according to their several kinds, be bruised, sliced, or otherwise dissevered, before their insusion, if you have time and opportunity for so doing.

saw ear awall lines 31.

Take special care that no manner of Grease, Tallow, Soap, or any other such like unctuous things, get or fall into your Pieces, Tubs, Rundlets or Canns: Because they quite take off all manner of proof of the goods; and although their strength be very high, yet will they fall as flat as water.

32.

Above all things beware of lighted candles, torches, papers, or other combustible matter being brought too near your Still or any vessel wherein your goods are contained; which are subject to take fire upon very slight occasions: As it is in itself most dreadful, being compar'd to Fire and Gunpowder, and no other ways to be extinguished, than is directed in the second paragraph of this directory.

33. You

33.

You must take care to have your Stove-chimney, or Flew, pretty often swept or clean'd: Both to prevent the danger of its taking fire, and to make your flew, or kiln Chimney, draw the better, whereby your Stove-fire will be first lighted and afterwards continued with less trouble.

34.

It is best for preserving the strength and flavour of your goods, that as they come off your Still into your Canns, exactly fill'd up to the plugs or brass nails of four or five gallon measure, they be empty'd into the casks they are to be kept in ; always noting, or keeping an account of the feveral Canns or quantity of goods to be put by; which must be made up to their several proportions, according to the quality or kind of goods fo to be made up; which is, or must be, by adding fo much liquor or pump water, as compleats the fame. And in dulcifying your goods, first weigh your Sugar you intend to put in; then diffolve it in one or more Canns of your liquor, with which you make up your goods; bruifing all the lumps of the Sugar, and ffirring it very well with a romager in your Canns, till all is dissolved; and then emptying it into your other goods; and mixing all well together, by drawing off feveral Canns of the goods at the cocks, and putting them in again at the bungs; and then romage all well together, till they are perfectly well mixed and compounded.

35.

When you have made up your goods to the quantity and quality you intend, that they may become fine and clear; all your goods which are F 3 made

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made proof, will without any art or composition settle, and become fine, and clear, within one or two days at most; but goods that are reduced below proof, the weaker they are made in strength, the longer they are in becoming fine or saleable. To every hogshead of Geneva, or strong waters, put five or fix ounces of Alum powder'd, so as to go thro' a coarse hair-sieve, and mixed in three or four gallons of the goods, well stirred or dissolved in your cann, and then put to your whole quantity, romaged and very well stirred together, some canns of goods being drawn off, and put to the goods again, to mix them the better. And the Geneva will be clear in one day; and the other in two or three days.

36.

When your diffill'd goods are finished, being fet upon a Still-yard or pair of Gantrees; in order to their being drawn off, you must let the bungs of the casks continue open, till they are become fine and fit for use: Then you may put the bungs in, but not too hard, and fet a forfet or a plughole, and a forfet, or plug put flightly therein, in a proper place of your casks, to take out or loofen, to give vent when you draw off any goods: It is a vulgar error to suppose that goods are injured, or weaken'd, by the bungs being left open : For where there is any quantity of goods, of any tolerable body or strength, they receive no manner of injury thereby, but mellow and clear more and more, by having good vent either by bung or forfet.

37-

You may make any goods deeper or lighter colour'd, by dulcifying with browner or finer Sugar. And as all common goods bear a low price, they

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they are always fweetened with the cheapest brown Sugars, which commonly make them of a deep amber colour; which by long custom and usage has so prevailed with the populace, that goods of a lighter colour, occasion'd by being dulcify'd with better Sugar, are less accounted of; whereas fine goods, which are generally drunk by persons of judgment, and distinguishing palates, must be made up with fine Sugars; and the clearer and lighter colour they are, are more acceptable and valuable, to those who know what they buy: And some persons are so nice this way, as to dulcify with loaf Sugar; but the Sugars in your Receipts specify'd are what will give a general satisfaction to all your customers.

38.

When you first draw off any goods lately distilled, that which lies next the cork, will not be clear, or left fine; according as the goods have been a longer or fhorter time distill'd: And must be fet aside, till you have drawn off what fine goods you have prefent occasion for; and then you may put what you first draw'd in at the bung, and it will fettle in a very little time: And when any of your standard, or other casks, are near out, or to be emptied, and drawn off, let all the bottoms be drawn into one of your canns; and first put one, two, or three gallons of liquor, according to the fize of your cask, to wash out your cask; and let your first liquor with which your cask is washed, be put amongst your faints: And what liquor you wash clean out withal, must be cast away. Then take your cann of bottoms; and first hanging up your flannel slieve in some convenient place, put your bottoms into it all at once, if your bag will hold it. The first runnings of the bag will be foul, till all the porous parts of the F 4

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bag be filled up with the fediment, that is amongst the bottoms of casks: And when they run fine, you may take away the foul goods, and put a clean veffel to receive the fine goods; and when your bag is near run out, you may put in it what goods first run foul, when the bottoms were put into the bag: And let the bag hang, till all the goods be quite run off from the sediment; which must be then cast away, but the fine goods, fo filter'd. through the flannel flieve, will be as good and wholesome as any of the rest: And the bottoms of fine goods, which are much more valuable, must be filtered or put through white cap paper folded in four parts; one part or leaf to be opened, and made capable to receive what it will hold of the bottoms; being put into the upper continent of a large tin funnel; which will diftil off all the goods from the sediment.

39.

When you are to draw a sample of goods, to shew a person that has judgment in the proof; don't draw your goods into a Phyal to be tasted, or make experiment of the strength thereof that way; because the proof will not hold, except the goods be exceeding strong: But draw the pattern of goods, either into your glass from the cock, to run very small; or rather draw off a small quantity into a little pewter pot, and pour it into your glass; extending your pot as high above your glass, as you can without wasting it; which makes the goods carry a better head abundantly, than if the same goods were to be put and tried in a Phyal.

or and 40. Her mot do

When you are to buy any Brandies or fpirits, don't confent to take them by measure: But having tasted and tryed them in a Phyal, insist upon having Book I. of Distilling.

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having them by weight at feven pounds three quarters to each gallon, and the stronger spirits will be lighter than what is reduced.

41.

All Brandies, whether French, Spanish, or English, being proof goods, will admit of one pint of liquor to each gallon, to be made up and incorporated therewith in your cask, for retail, or felling smaller quantities: and all persons that infift upon having proof goods, which not one in twenty understands, you must supply out of what goods are not fo reduced, tho' at a higher price. For all goods which are high proof are cleaner and have a better flavour, than the fame goods will have when they are reduced: And the more they are brought below proof, they contract a worse relish, and are not so capable of improving by keeping, as when full proof: So that you must lower the proof of a lesser quantity of Brandies at a time, whereby you will find your account confiderably: Not but the Londoners, who deal into the country, reduce the same commodity one half part lower, and fell at small prices: But I wou'd diffuade you and others from that practice.

42.

It is a custom amongst retailing distillers, which I have not taken notice of in this Directory, to put one third or one fourth part of proof Molossus Brandy, proportionably to what Rum they dispose of: Which cannot be distinguished, but by an extraordinary palate, and does not at all lessen the Body, or proof of the goods; but makes them about a Shilling a gallon cheaper; and must be so mixed and incorporated together, in your retailing cask. But you must keep some

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of the best Rum not adulterated, to please some customers, whose judgments and palates must be humour'd.

43.

When you have a mind to recover any goods to a better body or ftrength, which are too low or weak; if they be Brandies, Rum, or fine cordial waters, you must put a proper quantity, by little and little at a time, of spirit of Wine to the goods; mixing or ftirring them very well together, and often trying them, until you have perfectly reflored them to the proof you defire; which may be done with little or no lofs; because the spirit of Wine lies you in but about the same price with the cordials, and cost less than some of your Brandies. If you want to recover or amend any of your common waters, or Geneva's, you must put fuch a quantity of proof or double goods of the fame kind and denomination to the other, as the price will bear, or will answer your intentions, by fuch a composition or mixture. If by putting proof and weak goods together, the colour or face of the goods be spoiled, which before their being mixed together, were both fine, as it frequently happens, you must clear and fine them, as you do when they are newly distilled: Or if you can't flay their fettling, then cast about a pound of Alabaster powder into your mix'd goods, to stop up the porous parts of the flannel slieve, which fines them immediately.

44.

If by chance or accident any goods happen to be spoiled in their complexion, so as to become not saleable, as sometimes, especially in Geneva's, comes to pass; or were they by some ingredients to be turn'd as black as ink; you must then die still.

3

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still them over again, only putting half the quantity of the ingredients as usual; and they'll come perfectly fine as rock water from the Still, and must be dulcified according to their quantity, just as they were at their first being made. But the goods, notwithstanding the missortune they met with, will be much better than they were at their being first made.

45

As you receive fo great an advantage by having your discoloured goods brought to their proper complexion again, by their being distill'd a second time, as is mentioned in the foregoing paragraph; so that is balanced by the disadvantage that you lose all the dulcifying wherewith they were before sweeten'd; and by every distillation they are weakened near one in twenty, tho' improved in goodness as aforesaid.

46.

You may colour any fort of goods according to the fancies of your feveral customers: If your Raspberries grow too pale, as they will do, after their being twice or thrice drawn off, and fill'd up with plain brandy; then a quart, or what more you find necessary, of cherry-brandy must be put to the Raspberry, as you make it up; to give it a deeper tincture for sale. If your plain brandies want a higher tinge, then a little burnt Sugar or Treacle does it immediately: And so your own judgment and experience will direct you in all the rest.

47.

You will find it your interest to keep such a Stock of ingredients by you, as not to be necessitated to buy in the Country; where you must

pay

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pay dear for them, and where you have a much worse commodity, and pay sometimes a double or triple price: Because several of the ingredients are only in the hands of Apothecaries; who also are seldom over-stock'd therewith, and cannot, or will not sell for a moderate gain.

48.

You must be so prudent as to make a distinction of the persons you have to deal with: What goods you fell (especially fine goods, which always yield a good profit) to Gentlemen for their own use who require a great deal of attendance, and as much for time of payment, you must take a confiderable greater price than of others: What goods you fell to persons where you believe there's a manifest, or at least some hazard of your money, you may fafely fell for fomething more than your common profit: What goods you fell to the poor, especially medicinally, (as many of your goods are faniferous) be as compassionate as the cases require: And what goods you fell in a merchandizing way, you must have regard to the balance of trade; which you have very much in your own power, yet won't be managed without a good correspondence abroad, and a good intelligence at home, especially about the quality and prices the goods are of, and bought at from the Merchants, by whom your country chapmen are supplied; what are the contingent charges of bringing their goods home; what time of Credit is given; what or how much may be supposed per Cent. in riding, charges, and bad debts: All which must have their due weight and confideration, in your governing yourfelf, both in making your goods and fixing your prices.

49. What

49.

What goods are most in demand, suppose Geneva, strong Waters, or ordinary Brandies, be sure to be therein particularly careful to keep a good stock, and have variety thereof; selling the same for a lesser profit, than any other goods of equal goodness; whereby you'll obtain a general credit in the place where you reside; and by lessening your profit in one thing that is observable and taken notice of, it will induce your customers to give you your own price, and a much greater gain in things that are less understood; and yield what's abundant recompence for the other.

50

You must remember that in most examples or receipts for distilling, specified in the beginning of this Book, the computations of profit are made only of one charge of your Still; supposed to be thirty gallons; by which you may make your own estimation in a larger or lesser quantity: And you must also note, that in some directions, about placing your Still, mentioned in your fifth paragraph of this Directory, respect is not always had to a Still of the same gage or dimensions.

51.

'Tis usual in shops of great business to fell all liquors for a greater dispatch by weight, to save the trouble and tediousness of measuring; who have tables hung up in their shops like Almanacks, shewing at one view, the contents of any cask by its weight: Which you and all distillers must or ought to be provided of, and have them hung up in frames for that purpose; as being more ready upon occasion, than any examples I can here insert.

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insert. Therefore as thinking it superfluous, I have omitted any specimen here; but in London all casks for the most part under half a hogshead, are measured by such canns, as are mentioned in the eleventh paragraph, which canns are as expeditious a way of measuring as by weight; tho' not known or used in the Country: And as divers liquors are of divers weights, according as they are more or less spirituous; so goods that are proof, by being reduced lower with liquor become more ponderous; yet no allowance is made in their weight, when they retain their first names and denominations.

52.

In London, and other fouthern parts, liquors retailed are fold for greater profit, than in the country: Infomuch that it is a maxim taken for granted, that the retailer has half in half profit; and oftentimes not fo contented, fells in short meafures, which are five quarts to a gallon; and proportionably in fmaller measures; which possesses people with fuch a notion of the profitableness of that trade, that brandy-shops are in many places as numerous as the ale-houses: And because the distillers have an encouraging profit, it is now become customary, to furnish such customers with gilded and painted casks, bottles, brass cocks, &c. at the distillers charge; he referving the property, and fetting his own name thereon; which is also defigned as an obligation, to continue their cufrom: But the way which has of late obtained, of having dead stock in hand, which is feldom cleared off, is much worfe than taking by fmaller parcels, and paying ready money for what they have.

53. In

53.

In the country liquid measures somewhat differ in names, but not in substance from what they are in London; where they are called gallons, quarts, pints, half-pints, quarterns and half-quarterns: But in the country, they are termed gallons, quarts, pints, jills, half jills, quarter jills, &c. And one thing is observable here which is not any where taken notice of, viz. that by the City Standard, four quarts over-run the gallon, by about one and a half quarter pint; two pints over-run a quart proportionably; two half-pints over-run a pint; two quarterns overflow one half-pint, and two halfquarterns exceed one quartern in the like proportion: And they are fold accordingly, viz. one gallon, one shilling and ten pence; one quart fix pence; one pint three pence half penny; one half-pint, two pence; one quartern a penny halfpenny; and one half-quartern three farthings.

54.

When you feald out, or feafon any veffel with hot liquors out of the Still, take care not to put any Aniseed hot-wash into any other vessel than Aniseed-water: for it will leave behind it a disagreeable relish, and gives the goods an ill flavour: But the hot-wash of other goods, such as Geneva rectify'd, All-fours, Clove, &c. leave no ill scent behind, in what cask soever they are put: You must also take care not to put white goods, such as Geneva, Brandies, and most forts of strong waters, in any casks that have had red liquors in, fuch as Clove-waters, Cherry-Brandy, &c. unless you first scald out such casks three or four times with hot wash or liquor, to fetch out the tinge of the red colour, which is not effected, without

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without great difficulty; and therefore must be

very cautiously observed.

You are to be perfectly versed (ad unguem) in Weights and Measures, viz. twenty hundred weight is a tun, one hundred and twelve pounds is an hundred weight, twenty eight pounds is a quarter of an hundred weight, fixteen ounces is one pound; lower than which you need not go: So also one tun of liquors weighs about twenty hundred weight, and confifts of four hogsheads; one hogshead contains fixty three gallons; one gallon of strong waters or Vinegar weighs eight pounds; one gallon of proof-Brandy or Spirits weighs feven pounds three quarters; one gallon of Oil weighs feven pounds and an half; and one gallon of Treacle, or Honey of a good confistence, is ten pounds and an half (and fometimes twelve pounds is allow'd in Honey to the gallon): And an hundred weight is abbreviated in writing by this character C. a quarter of an hundred by Q. and a pound weight is express'd by to; and an ounce weight by 3 or G: And fo for a gallon you may write Gall. for a Quart Qt. for a Pint, Pt. and for a Jill, Jil, &c.



CONCLUSION.

Book to a period, and explain'd whatever feems necessary to be known in the practical part of this Science. I shall now enter upon a Second, and subjoin theory to practice; in which I shall endeavour to give an account how these distill'd Cordial

Book I. of DISTILLING.

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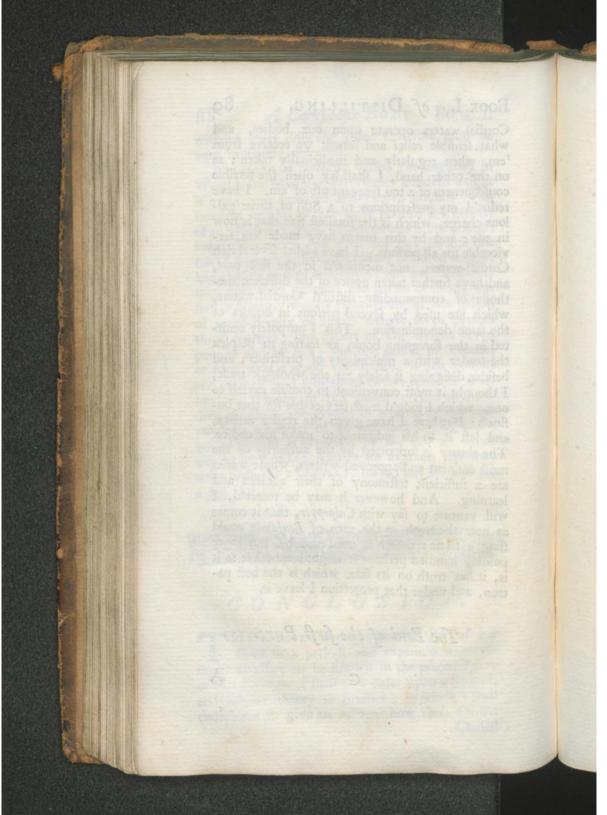
Cordial-waters operate upon our bodies, what fenfible relief and benefit we receive from 'em, when regularly and medicinally taken; as on the other hand, I shall lay open the terrible. consequences of a too frequent use of 'em. I have reduc'd my prescriptions to a Still of three gallons charge, which is the smallest fize that is now in use; and by this means have made 'em ferviceable for all persons. I have added several rich Cordial-waters, not mention'd in the first part, and have further taken notice of the different methods of compounding distill'd Cordial-waters, which are used by several persons in liquors of the fame denomination. This I purposely omitted in the foregoing book, as fearing to perplex the reader with a multiplicity of prescripts; and befides defigning it folely for the wholefale trade, I thought it most convenient to confine myself to one, which I judg'd most serviceable for that bufiness: But here I have given the reader variety, and left it to his judgment to make his choice. The theory is supported by the authority of the most eminent and approved writers, whose works are a fufficient testimony of their abilities and learning. And however it may be receiv'd, I will venture to fay with Culpepper, that it comes as near the truth as the men of Benjamin could fling a stone; nearer it need not be, but more politely handled perhaps it might; however as it is, it has truth on its fide, which is the best patron, and under that protection I leave it.

The End of the first Part.

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A

Compleat Body

OF

DISTILLING,

Explaining the

MYSTERIES

OFTHAT

SCIENCE,

IN

A most easy and familiar Manner;

Containing an

Exact and accurate Method of making all the Compound Cordial-Waters now in Use,

WITH

A particular Account of their feveral Virtues.

Adapted no less to the Use of private Families, than of APOTHECARIES and DISTILLERS.

Part II.

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Explaining the

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Containing an

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DISTILLING, &c.

Book II.

Aniseed-water.

Ake Aniseeds fix ounces, caraway feed three ounces, proof-spirit three gallons, river or spring water one gallon and a half: Insuse all night in the Still, and draw off the goods with a gentle fire, no longer than proof; dulcify'd with brown Sugar two pound, and make up your goods with liquor to their due quantity.

By this addition of water put into your Still along with the goods (which ought never to be omitted in Distillation) the goods will come off cleaner, and in larger quantity from the Still without faints; and will require less liquor to make them up, than otherwise they would do.

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Some general Rules in distilling.

It may not here be improper to infert some certain rules observed by distillers; in drawing off, and making up their diftill'd goods: viz. when you perceive about two third parts of the first quantity you put into your Still is come off; then be often trying the goods in a glass or phyal; and when you fee that the bell or proof immediately falls down, and does not continue a pretty space upon the surface; then take away the cann of goods, and fubstitute another vessel to receive the faints: Which if fuffered to run among the goods would cause a disagreeable relish, and be longer in fining down: Whereas the faints being kept feparate; the goods will be clean and well tasted, when made up with liquor to their due quantity.

It will much improve your goods (and is us'd by most Distillers) to throw into your Still along with the goods, when first charged, about fix ounces of bay falt to every three gallons of spirits; and fo proportionably more or less to a greater or leffer quantity of spirits: Whereby the goods will better cleanse themselves and separate from their phlegmatick parts; and the spirits so dephlegmated will afcend and come over much cleaner

and finer in distillation.

Some also are wont to cast in a handful of grains, to make the goods feel hot upon the palate, as if they bore a better body; yet this conduces nothing towards the advancement of the proof, when the goods come to be tried in a glass.

When your goods are all come off, and you defign them for double goods, you must make them up to their first quantity, with liquor: As if,

for instance, you charg'd your Still with three gallons of proof-spirits; they will yield in distillation about two gallons without faints; which deficiency of one gallon must be made up with liquor (and Sugar us'd in dulcifying) to their determin'd quantity: And if you are to make up common or fingle goods, you must add over and above the prescribed quantity in compounding double goods, one and a half part more of liquor, (viz. one gallon and a half) to dilute it for fingle or common goods. Thus by this specimen may you learn how to make goods proof, and how to reduce them lower to what strength or body you please; according as use or the custom of the place has rendered them more or less vendible.

You must also observe, when you dulcify your goods, that you never put your dissolved Sugar amongst your new distill'd goods, till the said dulcifying be perfectly cold; for if mixed hot with the goods, it would cause some of the spirits to exhale, and render the whole more soul and phlegmatick, than otherwise they would be.

When you want to fine any goods fpeedily for present use or sale (especially white or pale goods) add about two drachms of crude Alum finely pouder'd to three gallons of goods: Which romage well therein, and it will immediatly depurate or throw down the faces, whereby the residue will become clear and transparent for sale or use.

These observations so useful and necessary to distilling, I could not omit; but thought good to insert them all under one general head: As defigning in this following treatise, to touch upon this subject no farther.

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Wirtue.

Anifeed water ought never to be reduced below proof upon the account of the oleaginous particles, wherewith this water is highly faturated; Which whilft the goods bear a good body or fpirit they intimately commix with, fo that they fwim and are diffolved therein, tho' imperceptible to the eye (for all Oils do readily commix, and unite with fulphur, which is the more spirituous part of the menstruum, or goods as they are call'd by diffillers) but when the goods are reduced, and the body of them weaken'd with liquor, the Oil separating from the spirit, its proper vehicle, renders the whole of a milky colour, unpleasant both to the eye and taste. And this is the cause that makes Aniseed water so little in efteem as it now is, and has for some years past been daily falling in its reputation, purely upon the account of its disagreeable gust, which is so offensive to most palates: But if made with Caraway-feeds, as before directed, it will be much more pleasant in taste, and no less efficacious in virtue. It is a good carminative, and commonly is used as fuch, especially among the populace, to expel wind, and attenuates viscidities lodg'd in the first passages, causing pricking pains and tortions there: But as it is an unpleasant and disagreeable water (a cordial I can't call it) when fimply taken; it might most properly be used as a common menstruum for drawing carminative and anticholic tinctures with; and wou'd ferve much better than common spirits for making Elixir Salutis; whereby the medicine wou'd be render'd more carminative, and less subject to cause griping; and also fome of the correctives might very well be omitted,

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ted, which only ferve to clog up the menstruum, and thereby hinder the due extraction of the cathartick virtue of the Senna.

Angelica water.

Take Angelica roots fliced half a pound; Angelica feeds, and Caraway feeds bruifed, each one ounce; proof-spirits three gallons, water as much as is sufficient: Macerate them all night in the Still, and draw off your clear goods without faints; which dulcify with Sugar one pound and a half, and make up with liquor as afore directed.

Virtue of Angelica water.

Angelica water is cardiack, cephalick, and carminative, and is accounted a good specifick against windy and flatulent cholicks; it comforts the heart, chears and refuscitates the spirits, and gives a grateful fensation to the whole nervous fystem; as all aromatick, spirituous, and volatile bodies do: which by the volatility of their fubstance, are as auxiliaries immediately dispensed to, and by their tenuity and fubtilty as eafily admitted into those sensible organs, with a new supply of spirits, to repair that waste, which their continual motion renders them liable to; whereby all languor or faintness is removed, and their tonick structure is invigorated more forcibly to vibrate and shake off any pendulous or viscous matter adhering to the fibrous or membranous expanfions, (as in the stomach and guts;) which lentor may not improperly be called the common matrix of indigeftion, fevers, cacochymia's, flatulencies, vapours, &c. causing various pains and

and tortions in those parts wherein included or detained, till by some natural or artificial means it is removed. And this feems most efficaciously to be performed by those medicaments that are endued with an attenuating and discussive faculty, whose subtil parts have power to penetrate and open the glandular pores, and thereby make way for the exclusion of excrementatious or heterogeneous humours: And that Angelica is endow'd with fuch qualities, is evident by that pungency or fmart impression, wherewith (in tasting) it affects the nervous papillæ of the tongue; and farther, by the use and esteem the antient doctors had of it; who order'd it in their orvietans and antipestilential antidotes and alexipharmick mixtures; for they observ'd its diaphoretick and rarifying quality, and therefore very worthily rank'd it amongst their alexipharmicks; whose virtue and efficacy chiefly confifted in promoting a gentle diaphorefis, thereby expelling the malignity or venenate matter from the center to the circumference, which was thence carry'd off by the glandular pores of the cutis, $\mathcal{C}c$. by a visible perspiration, or gentle dew.

White Clove-water.

Take Cortex Winterana fix drachms, Pimento one ounce, Cloves two drachms, bruife them, and infuse all night in proof-spirits three gallons; water a due quantity, draw off the proof goods, and sweeten with fine Sugar one pound and a half for use.

Best red Clove-water.

Take Cloves bruised fix drachms, Jamaica Pepper an ounce and a half, proof-spirits three gallons,

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lons, water as much as is needful: Macerate, and distil, no longer than proof: Edulcorate with brown Sugar (or rather Treacle) two pounds and a half, and colour it with Elder-juice five or fix pints, to the due colour of Claret-wine.

There is yet another prescription for making red Clove-water, which is by putting an ounce of Cloves, and half an ounce of Caraway-seeds to the three gallons of Spirits, drawing off and dulcifying, ut supra, and colouring it with red Sanders or Poppy-flowers: Of these you may take your choice.

Virtues of Clove-waters.

Clove-waters are not in much use or esteem. except amongst the populace, who use 'em sometimes to warm their fromachs; or perhaps to expel or drive off a Fit of the Cholick: The Elder-juice in the one, and the Winter's Bark in the other, makes the faid compositions to partake of an antiscorbutick and diuretick quality: And if the white Clove-water was fweeten'd or colour'd with Juice or Syrup of Elder-berries, it would be much improv'd in the faid virtues; and might fometimes the us'd in that case; and perhaps too with as much fuccess as a more pompous medicine: For by the heat and fubtilty of the faid Cortex communicated to the spirituous Menstruum, it has the power and efficacy forcibly to attenuate and incide any vifcous or faline concretions which might adhere, or cause obstructions in the capillary veffels or their glandules, thereby hindering perfpiration; which being detain'd becomes sharp and acrid, eroding the capillary glandules and furface of the cuticle; whereupon enfue those cutaneous defœdations, which usually attend the Scurvy,

Best

Best Cinnamon-water.

Take choice Cinnamon bruis'd twelve ounces, proof Molossus-spirits rectify'd three gallons, water one gallon and a half: Macerate them twenty-four hours, and then distil and draw off your proof-spirits, and dulcify with Loaf-sugar two pounds and a half, and make up your goods full proof.

There is another Recipe for making best Cinnamon-water, which is by an addition of Nutmegs to the composition, and with a much larger quantity of Cinnamon; which here I shall give you.

Take best Cinnamon bruis'd a pound, Nutmegs bruis'd an ounce, Bay-Salt four ounces, strong rectify'd Proof-spirits three gallons, Riverwater a gallon and a half: Macerate, and draw off as above directed; and dulcify the same with best Loaf-sugar two pounds twelve ounces, and make them up high proof for sale or use.

Virtues of Cinnamon-water.

The best Cinnamon-water is sometimes by perfons of nice distinguishing palates and judgment drunk undulcify'd; or only pro re nata edulcorated with double resin'd Loaf-sugar put into the glass: Therefore 'twill be your advantage to keep a stock of both sorts always by you: For as it is an excellent commodity that bears a good price, and yields an encouraging prosit, of quick demand, and no loss to be fear'd by age, but rather an improvement (for all high-proof goods meliorate, and become better by long keeping)

a greater stock is therefore requir'd of it than of most other distill'd Cordial liquors. This compound-water is much us'd both in dram and medicine; and is frequently prescrib'd by Physicians in all aftringent and corroborating Juleps and Draughts where-ever aftriction of the Viscera is requir'd: It comforts and strengthens all the noble parts, as head, heart, stomach, nerves, liver, fpleen, matrix, &c. it opens obstructions, attenuates and discusses gross humours; and upon that head is rank'd amongst the Alexipharmick tribe; it takes off fainting, palpitations, and tremor of the heart; fickness at flomach, hiccough, vomiting, continual bearing down of the intestines, &c. and is a very efficacious remedy against all or most disorders arising from weakness, and laxity of the nerves; especially proceeding from a humid and cold distemperature: For it powerfully stops defluxions, and dries up and discusses superfluous moisture: And these effects may principally be afcrib'd to the faline and oleaginous particles that arise from the Cinnamon in distillation: The faid Salts I take to be of two kinds, viz. volatile and fixed; and that not from coniecture only, but from actual experiment: The analysis of the Bark does partly manifest the same unto us: The fubtil and pungent atoms that arife from it in fimple trituration, and which fo fenfibly affect or stimulate the olfactory fibres, as thereby fometimes to provoke sternutation, shew us the volatility of some of its constituent particles; for which cause Cinnamon should only be slightly bruis'd for distillation; which when put into the Still, and the potential heat of the more spirituous part of the Menstruum, assisted and actuated by the additional heat of the subjacent fire, comes to act upon the bruis'd and half separated particles of that drug, the finer and more diffipable, or vola-

tile parts thereof are compell'd wholly to separate and disjoin from the more heavy and fixed Salt. which being now fet at liberty, and pois'd up, or as it were born upon the wings of the high rectify'd Alcohol, or aereal spirit, which is then in rifing, unites, and comes over with the fame in the very first beginning of distillation: For then we perceive this new-drawn spirit to have a remarkable pungency and volatility, if held to the nofe, which certainly must be attributed to those volatile faline particles we have now been speaking of; which lying diffolv'd in the Menstruum, 'till admitted into the body, is there by the heat of the blood and spirits subtiliz'd anew, and thereby render'd capable of entering the minutest pores or passages of the capillary glandules; where, if meeting with any viscidity or gross matter that may cause obstruction therein, it attenuates the fame by its fubtilty, and rarifies it by its heat to fuch a degree of fluidity, as to make it capable of passing thro' the cutaneous pores, in order for its ejectment out of the body along with the recrements of the blood: The Stimulus which it gives the nervous fibres in transitu, not a little contributing towards the expulsion or squeezing out of the stagnating humour, otherwise (if too gross for that excretion) to be reassum'd by the reductory veffels, and thereby convey'd to some proper emunctory, to be fecern'd as an excrementitious matter: Thus are vapours discuss'd from the brain, and other parts of the body by opening the pores, and making free perspiration, whereby that load of heterogeneous matter which weaken'd and oppress'd nature is remov'd, and in lieu thereof a calm tranquillity is induc'd upon the whole animal economy; which being duly confider'd, we may eafily account for that brilkness and agility which we immediately perceive in our felves

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felves after a moderate dram of these Cordial liquors, which they effect by the foresaid causes, viz. by opening the pores, and giving due vent for perspiration; an evacuation so useful and beneficial to nature, that Sanctorius has in his accurate book de medicina statica told us, that more excrementitious humours are in one day secern'd or carry'd off by insensible perspiration, than by flool in fifteen days: And further he affirms, that more than one half of our daily aliment which we receive into our bodies is thrown off by infenfible vapours. And to this opinion does that great and learned Physician Dr. Glisson affent, where discoursing on the same subject, he has in his Anatom. hepatis, pag. 370. these words, Ingens est proculdubio bujusmodi (insensibilium nempe babituum) evacuatio, &c. Now from the aforesaid observations may we see the danger of obstructed perspiration; for what a load of humours must we necessarily expect therefrom, and what a train of diseases thence ensuing, if not timely removed by proper remedies? fuch as we are now treating of, &c. which are endu'd with fuch volatile Salts, or particles as are capable of entering the capillary or cutaneous glandules, and forcing open their minute pores when obstructed: But a more immediate way it has of comforting the principal Organs or Viscera, viz. by the grateful sensation which it imparts to the nervous genus, by communicating a fresh influx of animal spirits thereto, and consequently new strength and vigour to their languid motion, which being recruited, and the waste of nature repair'd anew, their fibres being contracted, or brac'd up to their due natural tone, by the aforesaid repletion of spirits, are now invigorated to shake off and dislodge any heterogeneous or viscid matter, which may adhere to, load, or disturb them: But since the

nervous fibres are fometimes fo greatly relax'd, especially by superfluous humours, or too much moisture, that this auxiliary or new supply of the nervous fluid can't fufficiently wind or brace 'em up to their due pitch of tenfity, necessary to difburthen and free themselves of that oppression. Another more powerful affiftance they have (to this fo necessary a work) and that is from the fixed falt and oil which arises together, by a more vehement heat of fire towards the middle and latter end of distillation; for as they are a more ponderous body than the phlegm, as is feen by their fubfiding in water, they require a more forcible heat to raise them, so as they may ascend and come over in distillation; which being effected, they readily commix with, and lie diffolv'd in the fulphureous or spirituous part of the Menstruum: And these are what gives that acute pungency to the nervous fibrillæ of the tongue, leaving a fort of roughness thereon (upon tafting this Cordial-water): And the fame may we lawfully suppose they do impart (especially the pointed particles of the fixed falt) to the nervous fibres, or their expansions in other parts, which firiking, or darting against those sensible organs, cause them forcibly to contract, or shrink up themselves into a more compacted tone; which state of contraction I take to be only a return to their natural fite, or place of rest which they had been stretch'd from, by that superfluous moisture wherewith they were annoy'd in that preternatural flate of relaxation, which being freed from, partly by the deterfive quality of the fixed falt (affifted by the vibrations of the faid capillary fibres); and partly also by the attenuating and discussing quality of the extraordinary hot (and I had almost said acrid) oil; the superfluous humidities falling upon, or lodg'd in any part, are thereby.

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thereby attenuated or absorbed; whereby the natural tone of the parts being restored, they are enabled to perform their due functions, and also invigorated to throw off by the fecretory Canals fuch excrementitious humours as nature has appointed to be fecern'd, which being detained are the fource of innumerable maladies, as I afore obferved. Thus the stomach having first received their faniferous impression or influence (by difcusting vapours, and deterging viscidities or crude phlegm, the cause of indigestion, flatus's) &c. it immediately recovers its digestive faculty, whereby good chyle is fent into the blood, replenish'd with mild balfamick spirits, fit for the generation of the nervous fluid, which being crouded with no lentor or heterogeneous obstructing matter, is eafily dispensed by its canals to all parts of the body, to communicate life and motion thereto: And in this state no fuliginous vapours are fent up into the head; and those that were afore lodg'd there, caufing pains, giddiness, swimmings in the head, catarrhous and other ferous defluxions, &c. are remov'd and thrown off by the open'd perspiracula, being partly beforehand attenuated by the very warming and aromatick effluvia of this cordial.

Thus may we account for the cure of all the enumerated maladies; and after this manner may it be faid to comfort and strengthen all the noble parts, or principal viscera, and take away their disorders; as sickness at stomach, vomiting, hiccough, &c. and from the heart palpitations and faintings; which only arise from a convulsive motion of its nervous fibres: And upon the account of its subtil ætherial or volatil Salt, whereby it attenuates gross humours, and opens the perspirable pores of the cutis; thereby making way for the transit of morbous humours or vapours; it is

ranked in the alexipharmick class; and upon the account of its fixed Salt, it has a place amongst the deobstruents; and is frequently in many feminine cases given, where opening of the uterine passages is desir'd: And this it effects by the specifick gravity of the said salt (and partly also by its detersive quality) which being driven by the impetus of the arterial sluid against those obstructed glands, abrades or wears away the obstructing humour or matter, and enables thereby the blood to force open and break through those Capillaries, whereby a way is open'd for those natural and critical discharges, which nature has that way appointed.

Cinnamon-water.

Take small Cinnamon and Cassia lignea, each four ounces, proof Malt-spirits three gallons, water as much as is necessary: Bruise the Barks, and insuse them all night in the spirits; then distill and edulcorate with fine Sugar three pounds, and make it up as in double Cinnamon-water directed.

When you make fecond Cinnamon-water, it is best done when you have new drawn off your double Cinnamon-water, and having pour'd off the wash from your Still, put the bruised Cinnamon and Cassia along with the spirits, &c. (as above prescrib'd) upon the Magma of the double Cinnamon-water left in the Still: Which draw off, and dulcify ut supra, whereby your water will taste stronger of the Cinnamon, than otherwise it would have done.

You must be careful in drawing it off; for the Cassia, if drawn low, is very subject to an Empyreuma. The virtues are much the same with (tho far inferior to) the former.

Caraway-

Garaway-water:

Take Caraway-feeds bruifed twelve ounces, proof-spirits three gallons, water one gallon and a half: Draw off and duleify with Sugar one pound and a half, and make it up as the former.

Another.

Take Caraway-feeds bruifed half a pound, Lemmon (or Orange) peel dried fix drachms, fpirits three gallons; water q. f. Diffil and duleify with two pound of Sugar, and make up as ufual.

Virtues of Garaway-water.

This water partakes of the same virtues with double Anniseed-water; but is much its superior in pleasantness of taste, if not in virtues: It is an excellent carminative and anticholic water, discussing wind and vapours pent up, either in the stomach, bowels, or included between their mem; branes.

It abounds with a very warming, discussive, and subtil Oil; which powerfully penetrates and rarises included vapours, which being agitated partly by the motion of the fibres, and rarised by the force of additional heat, communicated by the said oleaginous particles of the seed, forces the obstructed wind or vapour to dislodge, and expand it self in order for its discharge out of the body. And of this we have a familiar example (alluding to the included vapours in our bodies) of boys blowing up Soap water with a reed or quill into bubbles: Which by the continual succession of heat and warm air, blown through the said tube, the

included vapours rarifying expand the veficle or bubble more and more (according to the degree of viscosity of the liquor) till it be stretch'd to such a degree of tenuity that the rarified vapour therein contain'd is capable of forcing its way thro' the same: And that such a collection of vapours may be detained in our bodies is indisputable; we too frequently experiment it by those tortions or griping pains which we feel in the cholick; and the ease that ensues when this pent up wind, &c. has forc'd its way either upwards or downwards; and the strepitus or rumbling noise it makes either before, or at the discharge, proclaims to us the cause of our malady, and the nature of the enemy that offends us.

Gold Cordial.

Take Angelica-roots one pound, Raifins half a pound, Coriander-feeds four ounces, Carawayfeeds and Cinnamon of each two ounces, Cloves half an ounce, Melilot-flowers two ounces, Figs four ounces, Liquorife four ounces; having fliced and bruifed the ingredients, infuse them all night in proof-spirits three gallons, water one gallon and a half; draw off your proof-goods without faints; which dulcify with fine Sugar two pound, dissolv'd in Rose-water a pint, adding thereto the liquor with which you make up your goods proof; and colour it with burnt Sugar to a fine golden colour, or if you please with Saffron tied in a rag three drachms, and press'd into the goods; adding twelve leaves of Gold, when you put it by for use,

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Another

Another.

Take best Brandy three pints, confection of Alchermes half an ounce, oil of Cloves ten drops, loaf Sugar fix ounces, Musk and Ambergreese tied in a rag each three grains. Insuse them all together in a large glass bottle close cork'd and shaken up every day, then filter or decant off the clear liquor, adding fix leaves of Gold thereto.

Virtues of Gold Cordial.

Golden cordial, as you may fee by the prefeription, does wholly confift of carminative and emollient ingredients conjoin'd with those of a lubricating mucilaginous quality; for which I take it to be much the better: For they induce a foftness and smoothness on the parts, and thereby hinder the renitency and adhesion of both viscous and sharp juices; which may either by collection of vapours cause gripings in the stomach or bowels, or by their afperity fo vellicate the nervous fibres, as to draw them into spasms: And as the Prince of physic (I mean the divine Hippocrates) has well observed, spasms and convulfive twitchings, yea and fometimes a paralyfis, often succeed inveterate cholicks: And both antient and modern practice confirms the same. Dr. Charleton, an eminent and learned physician, in his lectures recommended to his learned auditors the use of emollient and lubricating medicines, even in continual fevers, to make foft and yielding the passages for the transit of the humours, by fmoothing their roughness and inducing a flipperiness; so that the humours may flide along thro' them, without renitency and attrition, which always causeth griping pains in the stomach

and belly when retained: And in Rheumatisms and Pleurifies, lubricating oleaginous medicaments are now frequently prescribed, for the said reasons, and that with laudable success: For we may easily conceive that when the points of any faline or tharp humour are wrapp'd up, or as it were sheathed in the mucilaginous body, or rather vehicle of any fuch like medicament, fo as they cannot in transitu vellicate the sensible fibres, and the parts being also render'd by the said lubricating quality fmooth and yielding to the fame, they must consequently thus pass on imperceptible and inoffensive, 'till by the due course of circulation, they be brought to their proper emunctory or fecretory organs, in order for their difcharge, without offending the parts through which they pals.

The latter Recipe of Gold cordial, made with confection of Alchermes, is a great cordial; it takes off faintings, fwoonings, fickness at stomach, palpitations of the heart, &c. It is also a good neuretick or nervous cordial, warming and comforting the nerves; and thereby takes off cramps, numbness, tremblings, and weakness of the joints, occasion'd either through languor, or obstruction of the nervous fluid: Which effects may in a great manner be attributed to the fragrancy and volatility of the perfumes; upon which score it is also good in some feminine cases, where the women can well bear the odour of perfumes; but in others they are as pernicious, as fometimes immediately inducing violent hyfterick fits, faintings, &c. therefore cannot fafely be given in all constitutions.

This cordial may be made cheaper, and full as good with the fuce chermes, in lieu of the confect; for no virtue can be extracted (by a mercurious or spirituous menstruum) from the pearls preferib'd

III

fcrib'd in the confection; and the perfumes order'd in the cordial are fufficient to aromatize it high enough for any conftitution,

Citron-water.

Take fresh Lemon peels number thirty, figs fourteen pound, proof-spirits three gallons, water as much as is necessary: Infuse and distil, make it up high proof, and dulcify with double resin'd loaf Sugar two pound and a half for use.

Another.

Take best Lemon peel bruised eighteen ounces, Orange peel nine ounces, Nutmegs bruised one quarter of a pound, strong proof-spirits three gallons, water two gallons; macerate, distil and dulcify with double refin'd loaf Sugar two pound, for use, &c.

The former is what is usually sold in London for Citron-water; and it must be a nice palate that distinguishes it from the genuine: You ought to keep some of this water undulcified; for most persons of the best judgment desire it so; and for others it may be duscified (pro re nata) with a lump of double-resin'd Sugar put into the glass.

Virtues of Citron-water.

The true Citron-water (which I have drawn from the Citron-peel in the West Indies) I found had a more aromatick and spicy slavour than any cou'd be drawn from the Lemon peel alone: And the Figs only contribute to make it softer and smoother upon the palate. This put me upon an enquiry, whether a succedaneum might not H 4

be found, nearer, and more improv'd to the nature and flavour of the genuine, than what was vulgarly fold: And this Form or Recipe with Nutmegs, which here I have given you, I found, after many experiments, to come nearest to the true or West India Citron; the Nuts must be bruifed, and the peels cut in pieces, and infus'd all night in the rectify'd spirit and liquor, and then drawn off with a gentle fire, which reserve in

bottles either plain or dulcified.

This water is a very pleasant cordial dram, of a very aromatick and grateful flavour: It strengthens the stomach, and gives a suitable tensity to the nervous tunics of it, thereby rendering it more able to digest the aliment. And by the addition of the Nutmegs it becomes a good cephalic, and comforts the brain as well as stomach; and that partly by the grateful sensation it imparts to the nervous system, invigorating their tonic structure, and partly also by its warming discussive quality; it dries and clears the brain of supersuous humidities, attenuating and making them sit for glandular secretion, or perspiration.

Plague-water.

Take Rue, Rosemary, Balm, Carduus, Scordium, Marigold-slowers, Dragons, Goats-rue, Mint, each three handfuls, roots of Master-wort, Angelica, Butter-bur, Piony, each fix ounces, Scorzonera three ounces, proof-spirits three gallons; macerate, distil, and make it up high proof.

Another.

Take roots of Masterwort, Gentian, Snakeroot, each two ounces; green Walnuts bruised twenty

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twenty four, Venice-Treacle and Mithridate, each one ounce; Camphire two drachms, Rue, Elecampane root, each an ounce; Horehound two ounces, Saffron a drachm, Proof-spirits three gallons, Water q. f. Distil, and sweeten with white Sugar one pound and a half for use. Note, that the Saffron is best added after distillation.

Epidemick, on Plague-water.

Take Dragons, Rosemary, Wormwood, Sage, Scordium, Mugwort, Scabious, Balm, Carduus, Tormentil with roots, Angelica with roots, Marigold-flowers, Centaury, Betony, Pimpernel, Celadine, Rue, Agrimony, each half a pound; Gentian, Zedoary, Liquorise, Elecampane, each four ounces: Bruise and slice the ingredients, and insuse them in three gallons of Molossus-spirits; then add Spring-water two gallons: Distill and dulcify with sine Sugar one pound, for sale.

Virtues of Plague-water.

I have given you here three prescriptions for compounding Plague-water, of which you may take your choice. They are compounded of noble and generous Alexipharmicks; and are each profitable to be taken as a preservative against all pestilential, malign, or other contagious distempers: and also as an antidote to expel the malignity from the heart, and force it towards the circumference, there to be discharg'd by a gentle Diaphoresis: And this they effect by the subtilty and tenuity of their substance, whereby they divide and attenuate the humours, so as to render them sine enough to pass thro' the cuta-

neous glands, by a fensible perspiration, which appears upon the cuticle in form of dew, or gentle tweat: And to this necessary work we may well suppose the nerves lend their helping hand; for they being now invigorated by a fresh influx of animal spirits communicated to them by these generous Cordials or Alexipharmicks, and their waste repaired by this timely Auxiliary, are enabled more forcibly to contract their fibres, and fo to fqueeze out of the capillaries those humours which obstructed the perspiration; or so to divide them by fuch shocks and impulses of the contracting fibres, that becoming thereby more fluxile, they may readily pass out that way which nature endeavours for their excretion; which commonly terminates the distemper by this critical evacuation.

That Plague-water which I approve best of for this purpose, is the second Recipe made with the Theriaca, Snake-root, Camphire, Saffron, &c. Amongst all the whole tribe of Alexipharmicks no greater antidotes can be found; for they are allow'd by all the learned Phyficians both ancient and modern, to be the principal ingredients for this use. The Walnuts and Rue form'd the basis (or rather made up the most part) of that fam'd antidote, or counter-poison of Mithridates King of Pontus, which so effectually preserv'd his body (and render'd it proof) against all manner of Poifons. The Camphire Croci and Rad. Serpentaria Virg. are of no less efficacy; for they are generally taken to be the greatest Alexipharmicks in the whole materia medica; for being of wonderful fubtil parts, they exceedingly attenuate gross or viscid humours, obstructing the capillaries, and forcing them out by fweat; and by the same attenuating qualities, have the efficacy or power to keep the rest of the humours or circulating fluids in a Aqua due state of fluxility.

Aqua mirabilis.

Take Sage, Betony, Balm, Cowslip-slowers, Mint, each a handful and half; Cubebs, Galingal, Ginger, Calamus Aromaticus, each one ounce and half; Nutmegs, Cloves, Cardamoms each half an ounce; Proof-spirits three gallons, Water, q.f. Macerate, distil, and dulcify with fine Sugar a pound and half for use.

Another.

Take Celadine half a pound, Nuts, Ginger, each one ounce; Cowflip-flowers half a pound, Cloves one ounce; Penny-royal, Marjoram, each four ounces; Spirits rectify'd three gallons; infuse all night, and distil; which make up high proof, and dulcify with fine Loaf-sugar two pounds for sale or use.

The College has it thus:

Take Cloves, Galingal, Cubebs, Mace, Cardamoms, Nuts, Ginger, each half an Ounce; Juice of Celadine two pounds, rectified Spirits two galfons, Water one gallon; distil, and edulcorate with Loaf-sugar, q. s. pro usu.

Another.

Take Cardamoms, Cubebs, Nuts, Galingal, each two drachms; Cloves a drachm; white Ginger and Grains, each half an ounce; Caraway-feeds one ounce, Proof-fpirits two gallons and a half; Water one gallon and a half; infuse, draw off, and dulcify with fine Sugar two pounds for fale or use.

Those length satt prepared

Virtues

Virtues of Aqua mirabilis.

These are the various Recipes that are now us'd, and there is little difference in their virtues, except what the Penny royal makes in the one, and the Celadine in another; for the virtues of the Spices are not much different, being all of the warming and aromatic species; and upon that account are

good stomachic and cephalic ingredients.

This Water warms the stomach, corrects crudities, and flatulencies in the primæ viæ, and thereby helps digestion; chears the heart, helps languor and faintings, and performs the office of a generous Cordial to the whole animal œconomy: It is frequently prescrib'd by Physicians in most stomachic and cephalic Juleps; and upon the account of its aromatic flavour, is usually the fole spirituous Menstruum in Pearl Cordials: for by its warmth it helps Digeftion, ftops Vomiting, Hiccough, Gripes in the stomach and bowels; and by the addition of the Celadine is useful in all indispositions of the Eyes, proceeding from weakness, or obstruction of the optic nerves; for it attenuates and discusses gross humours; and by its pungency vellicates the fibres to shake off any pendulous or gross matter which may occasion their obstruction.

But here I would be understood, that when I reckon up the several virtues contain'd in each Cordial-water arising from, and communicated to them, by their proper ingredients, extracted by the spirituous Menstruum, I don't mean, that a liberal use of any of these Waters used simply, or by themselves, will really effect a cure in the aforesaid diseases; neither do I believe any one so gross as to expect it; for it is certain that all spirituous liquors produce a Coagulum in the blood, if immoderately taken; suffocate the natural heat,

thereby

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thereby inducing Dropfies, Weakness of the Nerves, and other cold and humid diffempers, as is daily experienc'd in those who have long indulg'd themselves in a too frequent use of them. and evidenc'd by their fwell'd legs and trembling hands: Therefore they are to be taken as a Cordial, either fimply, or diluted with fome proper vehicle; when, and at fuch feafons, as the recited difeases call for the use of them; and then the rehears'd benefits and virtues may be expected from them: For a daily use of any thing, whether medicinal or not, becomes in time fo customary to nature, that in case of a distemper, wherein that Medicine, Cordial, &c. might be ferviceable, and from which a cure might happily be expected, it will then fail at the greatest need, and no more benefit may be expected from it, than from our daily food in a continual Fever, which rather augments, than abates the fury of the diftemper: And of this we fee divers examples, as in those who to allay some inveterate pain, or induce sleep when long absent, have begun with a moderate dose of Laudanum, &c. which answering the expectation, and they fearing the fad returns of their hosfile guest, when the falutary and pleasing dose had spent its vertue, have been prevail'd with to repeat the same dose again; but not finding the same benefit as from the former, to mend the matter, have augmented the dose some few drops or grains, and thus by degrees increafing it, have at last arriv'd to such an uncommon pitch of taking Opiats, nature having now made it habitual to them, that one ordinary dose of fuch persons would be sufficient to kill half a dozen persons unaccustom'd to this medicine. I knew a young Gentlewoman, who to palliate an occult Cancer in her breast, took a large filver spoonful of liquid Laudanum every night, without

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without any visible harm, or stupor arising from it: And this dose would have been sufficient at thirty drops or grains per dose (which is too much for the strongest persons, Madness or Delirium excepted) for eight persons; for a large filver spoonful will contain a full half ounce. And I know another at this very moment, who will daily take a scruple of London Laudanum at a dose, and even as much of Crude Opium, to abate the excruciating nocturnal pains of the Venereal diftemper; and especially of nodes and gummatas, wherewith he was much afflicted. And we daily experince the fame in Tobacco and Snufftakers, which has little effect upon them, in comparison with other people. And therefore I must here advise all persons, who at any time would expect benefit from any medicinal composition, not to be too liberal in its use, but to take it moderately, as occasion requires; and then he may expect to reap the benefit of it at a time when most requir'd.

Hungary-water.

Take Proof-spirits three gallons, Rosemary and Lavender-tops, each three handfuls; macerate, and distil according to art.

Another.

Take flowers and tops of Rosemary nine handfuls, Lavender three handfuls, root of Florentine-orrice three ounces, Salt two handfuls, Proof spirits three gallons. Water q. f. distil f. a.

Virtues

Virtues of Hungary-water.

This Water was formerly made with only the Flor. Anth. but by the addition of the Lavender the medicine is much the better; and the Orr. Flor, gives a more delicious flavour to it: This spirituous medicament is seldom or never us'd inwardly, but always topically, as in Embrocations, Epithems, Lotions, &c. its chief use is in nervous and cephalick difeases, especially those proceeding from a cold cause, as Epilepsies, Apoplexies, Atrophies, Spafms, and all Paralytick Affections; it dries up superfluous humidities (falling upon or lodg'd in any part) by its heat; and is a good discussive in cold gross tumors, for it is highly impregnated with a fubtil detergent oil, which incides and attenuates the viscidities, and by its warmth rarifies the fame, fo as to become fit to be carry'd off either by transpiration, or to be abforb'd, or reaffum'd by the refluent blood, thence to be convey'd to some convenient emunctory, in order for its fecretion. We apply it to the origine of the nerves in convulfive Spaims, and twitchings of the arms, and Paralysis of those parts; and it is rubb'd along the Spondils of the neck and back for the fame end. It makes a noble cephalick Snuff, if mix'd with Spirit of Lavender; and is of fingular use against Megrims, Vertigo, Lethargy, Head-ach, Apoplexy, &c. The faid cephalick mixture may be rubb'd from the second Vertebra of the neck to the first of the Thorax, and also on the fore part of the Gula, and about the Clavicles, for loss of speech; for at the faid fecond Vertebra iffue out the nerves from the cervical marrow there, which fend forth feveral twigs to the muscles of the Larynx, Gula, Neck,

Neck, and parts adjacent; which having form'd two Plexus's, from the inferior of which immediately under the Clavicles spring the recurrent nerves, the main organ or instrument that serves for the formation and modulation of the voice, both which nerves run up along the fides of the Trachæa, to which they impart some twigs, and end in the muscles of the Larynx. I have deviated thus far, to shew you the origine, course, and infertion of those nerves, which are the chief instruments of voice and speech; which being obstructed, or otherwise preternaturally affected, a defect or loss of speech must consequently follow: And no better external medicine do I know than this composition to rub the describ'd parts with, whereby the faid nerves will be invigorated to thake off the viscidity which causes their obstructions; or if occasion'd by too much superfluous humidity, or laxity of the faid Nerves: This medicament by its warmth, fubtilty and pungency will both attenuate the Lentor, discuss and dry up the Humidities, (which it effects by its faline particles therewith impregnated) and by its pungency (arifing from its hot detergent oil) vellicate, and contract their fibres, fo as to recover their natural elasticity, whereby their vibrations being oftener repeated, the nervous fluid will thereby be fo attenuated (being also assisted by the subtil parts of the medicine immediately penetrating the fame) as to pass freely without obstruction to those parts, they are defign'd to give fense and motion to; and this in the interim may be affifted with internal cephalics, as Spirit of Lavender Comp. given in Juleps or any convenient vehicle. The Eleofacchar. Anth. and Lavendul. are specificks in this case. The use and virtue of Hungarywater may be much augmented and improv'd by an addition of Camphire to it, which by its great heat,

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heat, fubtilty and volatility, dries up fuperfluous moisture, contracts the weaken'd Fibrillæ, attenuates, incides, and discusses viscidities, and disposes the fluids to a brisk motion, from whence comes natural heat, and consequently nourishment to those parts, which before labour'd under a contrary quality.

Lemon or Orange-water.

Take Proof-spirits three gallons, Lemon of Orange-peel one pound, Water one gallon and a half; distil, and dulcify with Sugar one pound and a half, for use or sale.

Virtues of Orange-water.

The virtues of this Water are the same with that which comes under the denomination of Citron-water, which I have under that head enumerated. This Water, if drawn high proof, would be a proper Menstruum to extract stomachic Tinctures and Elixirs with; and is of itself, if fparingly or cordially taken, a good stomachic: Otherwise, all spirituous liquors, if taken to excefs, destroy the tone of the stomach, weaken the digestive faculty, and are, as I before observed, the cause and essence of innumerable diseases. Excess in any thing produces the same disorders: For we see that if our daily aliment, by which our bodies are nourish'd and preserv'd in the state of health, and is the most benign, amicable, and accustom'd to nature of any thing whatever we receive into the stomach, yet (I fay) if common food be immoderately taken, and the stomach be so surcharg'd thereby, that

the concoctive faculty can't break, disfolve, and transmute the same into perfect and laudable Chyle, it passes the Pylorus crude and half digested; and for want of a due ferment enters the Lacteals in that state, where it is either obstructed in the glands of the Mesentery, whence ensues a Caliaca; or if it passes the same, and ascends the Thoracick duct to the Subclavians, and there be mix'd with the blood, yet for want of a due comminution and exaltation of its spirituous parts, some of those gross particles will obstruct in the capillaries, whereby perspiration will be hinder'd, and the excrementitious particles will be retain'd and remix'd with the blood; which being now heterogeneous to nature, the expulsion of them will by all possible endeavours be attempted: Whence will follow a colluctation, or intestine struggle in the fanguineous mass; and this will be augmented by the Lentor induc'd upon the blood by the crude Chyle, which invifcating the more spirituous parts thereof, by nature volatile, and endeavouring to expand, or free themselves from this oppression, and the avenues of perspiration being stopp'd, the innate heat will be concentrated, whereby the extreme parts will feel cold, and by forming obstructions in the capillaries, or evanescent arteries, especially in the head, pain and tension will be perceiv'd there. And this is the first stage of an approaching Synoche or putrid Fever, induc'd primarily by gorging, furfeiting, and over-loading the stomach. Another misfortune attends Gluttony, Drunkenness, &c. viz. when the stomach has by these disorders been repleted and stretch'd beyond its natural and healthful dimensions, and being so retain'd for some time, it will, like a blown bladder, (as being alfo membranous,) grow thinner than is requifite, and thereby confequently colder, the concoctive heat eva-

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evaporating; which heat is fo necessary to digeftion, that without it the same can't be perform'd; and the fibres of it being stretch'd beyond their natural bounds in length, lose their elastick force or virtue: fo that when the stomach should close its two orifices, and contract itself more closely to embrace the meat in order for concoction, to which position it always accommodates itself in a healthful state, it can't by reason of the said distension or over reaching, fuit itself to the ingested aliments or contents, but retains its fwollen figure; whence come vapours, crudities, belchings, rumblings in the guts, &c. and the circular fibres of the Pylorus likewise suffering with the longitudinal and transverse fibres of the ventricle, that port will remain open, whereby the meat or aliment will be immediately voided undigefted, and also unalter'd, producing a Lientery, and thence an Atrophy or Confumption of the whole body will necessarily enfue. These, and various other diseases arising from furfeiting, and over-repletion, or diffention of the ventricle (and this only by that which is most familiar to it, viz. our daily food) what an army of difeafes may we not expect from an immoderate use of burning hot spirituous liquors, so hostile and repugnant to our nature, when improperly us'd? Which train of maladies thence enfuing, made a wife Man call them a Stygian liquor; for he observ'd how unperceiv'd and secretly they made their attacks upon the main guards of life, when immoderately and unfeafonably used: But if, as aforefaid, they be moderately and physically, or cordially taken, they are highly ferviceable against the foremention'd diseases, and partake of all the enumerated virtues

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Mint-

Mint-water.

Take Mint two handfuls, proof-spirits two gallons and a half, Water one gallon; distil, and dulcify with Sugar one pound and a half for use.

Virtues of Mint-water.

This Water wholly partakes of the nature of Mint, and is used against vomiting, hiccough, wind in the stomach or bowels, griping of the guts, megrim, head-ach, &c. against all which disorders it has been found to be very available, which it effects by the tenuity and fubtilty of its parts, inciding, attenuating, and discussing all viscid humours, and vapours lodg'd in the stomach and guts, from whence proceed the forefaid difeases; for they all spring from one common cause, viz. either phlegm, wind or vapours, or both, lodg'd in the first passages; which being agitated, cause pricking and griping pains in those parts, with emission of vapours thence to the head; a part which always fympathifes with the ftomach in its disorders, by the communication of nerves, wherewith the ventricle, especially its upper orifice, is greatly replenish'd.

Ratafia.

Take three gallons of Molossus-Brandy, Nuts two ounces and a half, bitter Almonds one pound and a half; bruise them, and insuse them in the Brandy, adding Ambergrease three grains mix'd with fine Lisbon Sugar three pounds; insuse all for seven or eight days space, and then strain off for use.

Virtues

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Virtues of Ratafia.

This water is feldom or never prescrib'd in physic; it is of a carminative and deterfive quality, which it receives from the Nuts and Almonds; and by the faid opening and cleanfing quality, may prove a good diuretick; for the bitter Almonds abound with an abstersive Oyl; which as it suffers or undergoes no torture by fire, retains its unctuous and softening quality too. And in this view we have a most noble diuretick of it, answering all the intentions that can be required of a medicament, coming under that appellation: For by its oleaginous quality, the fibres that compose the urinary glandules and canals are lubricated, foften'd, and relaxed; and by their penetrating and deterfive virtue, which certainly they receive from some faline particles wrapped up in, or as it were lying diffolved in the Oyl, they fcour off fuch vifcous humours or calculous concretions, as may obstruct the faid glandules and hinder the free emission of the urine, till opened and cleanfed by medicaments of this nature. The Nuts in this composition look as if defignedly added for this use; for by their attenuating quality they rarify and dilute gross viscid humours, and thereby render them thinner and consequently easier for the opening and deterging particles of the Almonds to incide, dislodge, and so make them pass off by urine. By the same qualities this water may be useful to open obstructions in feveral other vifcera, as the liver, fpleen, mesentery, womb, &c. and may answer the same intentions there, as well as in the former: And in the Pulmonick cases too, it may have the same effects, and we may suppose much stronger too, for it immediately arrives at that viscus after its commixtion with the blood, and having as yet fuffered little

or no depuration, or fecretion, of its faline deterfive particles, must therefore in a special manner exert its virtue there, in forcing open all obstructions that may impede the blood's course or motion, thereby cleansing the lungs of those infarctions, which might occasion coughs, wheezings, difficult breathing, &c.

Surfeit-water.

Take Centaury, Marigold-flowers, Mint, Rofemary, Mugwort, Scordium, Rue, Carduus, Balm, Dragons, St. John's wort, each two handfuls; roots of Angelica, Butter-bur, Piony, Scorzonera, each feven ounces; Calamus Aromaticus, Galingal, Angelica-feeds, Caraways each ten drachms, Ginger fix drachms, red Poppy-flowers three handfuls; proof-spirits three gallons; water one gallon and an half; macerate, distil and dulcify with fine Sugar, one pound and a half for use.

Virtues of white Surfeit-water.

This water is compounded of cephalic, neurotic, hysteric, alexipharmic, carminative and stomachic ingredients, whose virtues being conjoined and defigned to strengthen the most principal organs and viscera, must needs be very effectual against crapula's, indigestions, crudities and rawness at Stomach, vomiting, and other fymptoms thence, arising. It is used successfully against cholicks, gripings in the stomach and bowels, flatulencies and vapours, all which it discusses by its carminative virtue; it attenuates the humours, and helps perspiration, and is therefore good in all epidemical and contagious distempers. It resists putrefaction and expels the malignity from the center to the circumference, which it discharges by a gentle dew upon the furface of the cuticle; and this it effects.

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effects by the efficacy of the alexipharmic ingredients, wherewith this compound water is well stored. I have put into the Prescription Flo. Papav. Erratic. in lieu of the red poppy-feed, which is both cheaper and easier to procure; (especially at the feafon of the year, which this water should be made in) and in my opinion without any detriment to the composition; the virtues whereof I shall give you, as soon as I have inserted the following Recipe of Surfeit-water made by infusion.

Take best Brandy a gallon, red Poppies two pecks, let them stand in the fun, in a wide-mouth'd jar, close covered for two or three days, till the tincture of the flowers be wholly extracted: Then strain out the liquor from the flowers, by a strong expression; adding to the tincture Caraway and Coriander-feeds, Liquorice fliced, of each an ounce; Cardamums, Cubebs, of each three drachms; Raifins stoned half a pound; Cinnamon half an ounce; Nutmegs, Mace, each two drachms, Cloves ten, Ginger two races, Juniper-berries two drachms, two Lemons fliced; infuse three or four days, adding eight Figs fliced, white Sugar one pound and a half, Rose-water a quart; let them stand for a day or two longer in infusion, often shaken in the mean while, and then strain and let it stand to subfide for use.

Virtues of Surfeit-water.

This water is no whit inferior to the former, but rather superior; for it retains the whole carminative and alexipharmic virtues of the otherand is no less powerful to drive out and expel the intestine enemy, than that which is loaded with alexipharmics. And lest any should doubt of this matter, I will endeavour to fnew after what manner it is perform'd. And omitting the carmi-

natives .

natives, which I could bring in as useful in this case, I will begin with the Poppies, which are known to partake of a narcotick and anodyne quality, and as fuch induce rest and sleep, at which time we know perspiration to be most free. Sanctorius, an oracle in these matters, has in his statick experiments told us, that toffing and moving the body in bed hinders perspiration, and that we are to put a restraint upon curselves while there. and though we can't prefently fleep, yet are we to lie still and quiet tho' never fo contrary to our inclination, for thereby concoction of the perspirable matter, and perspiration itself will be sooner and fuller perfected. Now as the Poppy-flowers, by their anodyne quality allay pain, and induce pleasant and quiet sleep, the rehearsed natural and beneficial evacuation will thereby be promoted more fully and effectually (if taken at or about bed-time, or when in bed) than by the strongest alexipharmick in nature, wherein no opiate enters the composition: for they by their great heat which they communicate to the blood and spirits, do thereby much augment the blood's velocity, and raise a febrile heat therein, which if the fubtilty of their particles be not capable and fufficient of themselves to open the obstructed cutaneous glands, as we fee very often fails, when given in incipient fevers (both intermittent and continual) and thereby put off the recrements of the blood and febrile fomes together, they may be faid to be the efficient cause of that distemper, for which they were defigned a cure. But this water made with the Poppy-flowers is guarded against this perilous inconveniency and danger, by the anodyne quality of the faid flowers, which rather repress than excite any tumultuous motion in the fanguineous mass; whereby that fluid moving in a regular, se-

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date course or motion, will have the more leifure to put off its excrementitious parts by the glands of the fkin, than when in a preternatural hurry or rapid course. And this falutary evacuation, we may suppose to be promoted and affished by the acid particles of the Lemon, which vellicating the fibres, causes them to contract and squeeze out of the Capillaries whatever lodg'd there, and hinder'd perspiration; thereby opening the pores or passages of their glandules, and making free egress for what is defigned to pass off that way. And this is the Reason why acids are usually prescribed, and rank'd amongst the tribe of alexipharmicks. This water is also accounted good to stop fluxes of all forts; which it effects by its warming, carminative, and discussive quality, imparted thereto by the spices and feeds; whereby fuperfluous humidities are absorb'd and discuss'd, which were the primary cause of weakness and continual bearing down of those parts, but being remov'd, the parts recover their natural tone, to which the Cinnamon by its roughness and affringency contributes not a little : and by the faid virtues of the warm spices, takes away gripings and tortions in those parts, the lenient and foftening quality of the Raisins and Liquorice much conducing thereto. Though I have here attributed the efficacy of this water, in curing fluxes of the bowels, &c, to the warming discussive qualities of the spices, &c. yet do I believe the Poppies to be the chief instrument, and that by their anodyne quality, whereby a Diaphoresis is promoted, and the load of Serum cast off that way, which afore went off probably by other discharges. And the truth of this is confirm'd by daily experience, which teaches us the falutary use of Diaphoreticks, in Diarrhoea's, &c. This water strengthens the stomach, and helps the concoctive faculty thereof.

thereof, thereby preventing crudities and indigeflions, the origine of crapula's or furfeits, from whence the faid water took its denomination.

Dr. Stephens's water.

Take Thyme, Mother of Thyme, Sage, Penny-royal, Pellitory of the wall, Rosemary, red Roses, Camomile-slowers, Origanum, Lavender, Mint, each a handful and a half: Ginger, Galangal, Cinnamon, Nuts, Aniseeds, Caraways, each fix drachms; proof-spirits three gallons; water q. s. Macerate, distil, and dulcify with white Sugar one pound three quarters, for use; adding of leaf-gold six leaves, mix 'em well in the goods s. a.

Virtues of Dr. Stephens's water.

This water is much of the same nature and use with aq. mirab. wholly confliting of carminative and cephalic ingredients. It is a good cordial, and may be used as such simply, or go in composition, in carminative, anticholic, cephalic, and hysteric Juleps, &c. For it discusses wind and vapours, lodg'd either in the first passages, or included between their tunics, or in the interflices of the muscles; and that either primarily and simply by its discussive and carminative virtue, which it has an immediate effect upon in the prime vie, by attenuating viscidities, and rarifying and discusfing those vapours therein included: Or secondarily by impregnating and communicating the faid qualities to the fanguineous fluids, which thereby being conveyed and carried along with the blood, and distributed by the arterial capillaries amongst those muscular or membranous parts, muse Book II. of DISTILLING.

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must necessarily rarify and discuss those vapours pent up therein, and throw them off by the fecretory ducts. The nerves also may contribute to this work; for by the grateful Effluvia arifing from those aromatics they are immediately affected therewith, and an elasticity or springiness is added to their fibres; and this may be partly affifted by the pungency of the Salts which arife with the Oil in distillation, from several of the ingredients which thereby may vellicate the nervous fibrillæ, and fo cause their vibrations to be more frequent and strong; and partly by a fresh influx of animal spirits, which those sensitive organs receive from their most volatil and subtil parts. The nervous fystem is thereby invigorated and enabled more forcibly to agitate and throw off the contained wind, and fo help forward its utter expulsion. By the same reasons may we account for and know the method which nature takes in removing obstructions of the nerves, and also those of the cutaneous glands; which here it wou'd be needless to lay down, as requiring more time than I am willing to spend upon this subject, as designing shortly to treat more amply of nervous difeases, their cause and cure, in a work of another nature, to which I refer the reader.

Royal Usquebaugh.

Take Mace, Cloves, Cubebs, of each three drachms and an half; Nuts ten drachms; Cinnamon, Coriander-feeds, Ginger, of each fix drachms; proof-fpirits three gallons: Infuse all night, and distil; hanging at the end of your worm English Saffron (diffever'd and ty'd in a rag,) ten drachms, (for the goods to run through, thereby to extract all its tincture:) Then make ready the following

following ingredients, viz. Raifins stoned one pound two ounces, dates sliced twelve ounces, siquorice nine ounces, spring water six pints; let them macerate in a warm oven or upon hot ashes, till the whole virtue be extracted from them; then strain em, and add fine Lishon Sugar two pound and a half, which, when dissolved therein, and perfectly cold, put to your distilled goods, and set them by in an open-headed vessel, with a cock in it, to become fine and sit for sale or use.

Usquebaugh.

Take Nutmegs, Cloves, Cinnamon, of each half an ounce; Aniseeds, Caraways, Coriander, of each an ounce; Liquorice sliced two ounces, proof-spirits three gallons, water, q.f. Macerate and distil, hanging at the end of the worm Saffron teez'd half an ounce; which frequently express or squeeze out, 'till all its tincture be emitted into the distill'd goods, which make up and dulcify with fine Sugar two pound for use.

Royal Usquebaugh by digestion.

Take Raisins stoned two pound, Figs sliced half a pound, Cinnamon two ounces and a half, Nuts one ounce, Cloves half an ounce, Mace half an ounce, Liquorice three ounces, Sassron half an ounce, bruise the spices, slice the Liquorice, &c. and pull the Sassron in pieces, and insuse them all in a gallon of the best Brandy for seven or eight days, 'till the whole virtue be extracted from them; then silter them, putting thereto a quart of Canary-wine, and half a drachm of essence of Ambergrease,

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bergrease, and twelve leaves of gold broken in pieces, which reserve for use.

Virtues of Usquebaugh.

These waters bear an Irish denomination, and are excellent stomachic cordial liquors, and upon the account of the balfamic and healing quality communicated to the menstruum, by the Raisins, Dates, Figs, Liquorice, &c. become a good pectoral and restorative cordial: Yet as they are of a very mucilaginous and adhesive substance, if not attenuated and kept fluid by the volatil parts of the warm spices, might perhaps be subject to impress too great a lentor upon the chyle, and adhere in some part of the galaxia, and so dam up and obstruct the small passages or glandulous pores of the mesentery; or if admitted into the blood in that clammy fubstance, might occasion the same damage there, in some of the arterial capillaries, or their glandules. But this inconvenience is well guarded against, as I above noted; for they undergoing a twofold digestion together, as first in the composition of the cordial liquor, and then afterwards, when received into the ventricle, and there fo comminuted and mixed as to become one homogeneous substance, neither too gross and languid, nor too aereal and volatil, the one ferving as a fpur, the other as a bridle to each other. And in this state they pass along the milky path, till brought into the fanguineous mass, where upon their arrival at the heart, they fuffer another comminution or fubdivision of their particles; for there, and perhaps also partly in the lungs, by the admixtion of the fulphureous particles of the air, they may be faid to undergo their last concoction for the service of the whole fabrick.

fabrick. For in the heart and arterial canals, the blood is fubtiliz'd, and here the spirituous parts begin to separate and take leave of the groffer and more ponderous, as defigning to make their exit as foon as they arrive at their proper port. But this being done by a fort of violence or colluctation, can't be perform'd all at once; for the groffer bodies endeavouring to restrain or hinder the evolation of the more volatil particles (their old affociates) reprefs their immediate flight, till after repeated vibrations of the arteries, they become more and more divided by the rapid Motion of the blood, and confequently more attenuated by the intense heat thereof, are at last forc'd to disjoin, (tho' gradually, as afore noted:) And now the groffer particles reaffuming their former adhefive and tenacious nature, do readily come into contact, unite and flick in any interflice or cavity made by the attrition and abrasion of the circulating fluid; and thus do they repair the wastes and decays of nature, and may profitably be given in all colliquations or wastings of the folid parts (where a fever, as hectic, &c. is absent) especially if proceeding from a defect or decay of natural heat; and is of great fervice to old people, where no fever is to be feared, and the lamp of life or ingenitus ignis, call'd by some of the antients the Vestal Flame (as is elegantly describ'd by Dr. Charlton in his Oeconomia animalis) has almost consum'd its pabulum, and begins to wax faint and low: There nature requires more generous cordials, which may more fafely be used than in younger persons, whose blood is more fubject to be inflam'd upon very flight occasions. This water upon the account of the Saffron, wherewith it is pretty highly impregnated, as containing near five grains in three ounces of the liquid menstruum, must needs be a pretty good alexipharmic BOOK II. of DISTILLING.

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pharmic too; and may, if cautiously and wifely used, affift and promote the expulsions of the Small-Pox, Meafles, and other cutaneous eruptions, where a fpur to nature is required: And in malign and peftilential Fevers too, its use is of good fervice in expelling and driving out the morbifick matter by the cutaneous pores, for it effectually promotes a diaphorefis: And the' the Saffron may be looked upon proportionably to add to, and augment the heat of this cordial medicine; yet it is not to be feared upon that head, but may rather be used in larger quantity: for as it powerfully opens the pores (whereby we may judge of a deterfive quality lodg'd in it) and thereby removes obstructions, and causes a plentiful perspiration of both kinds, (viz. fensible and infenfible) it leaves free egress for the hot spirituous particles of the menstruum to exhale, and thereby rather cools and extinguishes, than excites or induces any preternatural or febrile heat upon the body, as having by the forefaid critical discharge spent the fomes or pabulum thereof. And this is no fictitious hypothefis, but grounded upon true reason, confirmed by daily experience; for don't we fee that Camphire (which tho' taken, by some persons, to be cold in quality, yet the inflammability and volatility of its substance or constituent particles demonstrates to be hot, and that in a high degree) effectually abates and takes off all inflammations, and that only by the fubtilty of its parts, which opens the pores, and having by the faid quality attenuated the humours that obstructed the passages, makes them thereby fit to go off by perspiration. And by the said quality and causes, we find spirit of wine to be the most effectual remedy against ambustion. And if the faid qualities be allow'd, we may suppose it also available to cleanse any of the viscera wherever

wherever obstructed, and by cleansing and opening the biliary pores and canal, may be useful in the Jaundice, Cachexy's, &c. and in some uterine cases too it mayn't perhaps be unsuccessfully made use of

Wormwood-water.

Take dry'd Wormwood one pound, Caraway-feeds bruifed four ounces, proof-spirits three gallons, infuse, distil and dulcify with Sugar one pound and a half, for use.

Virtues of Wormwood-water.

Wormwood-water is deservedly in great use, and esteem; for it is a noble stomachic, and the best of all distill'd waters (Gentian excepted) of that class: It is frequently prescribed in stomachic and chalybeat tinctures and insusions. An excellent stomachic and anticholic tincture might be drawn from Spirit. Absinth, Rad. Zedoar. Cort. Aurantior. Gent. Centaurt Sem. Cardamom. &c. and is much more proper for drawing those tinctures and elixirs with, than spirit of Wine, provided it were no lower drawn than that spirit. Dr. Bates has, in his Pharmacopæia, given us the Recipe of a compound Wormwood-water, which for the excellency thereof, I have here transcribed from him.

Aq. Absinth. comp. Bateana.

R Cort. extern. Limon recent. Ibiß aurant. Ibiß fumat. abs. siccat. Cort. winteran. ana Ibß Flo. Cham. Ziv Sem. Cardamom. Cariophyl. Cubeb. Junc. odorat. ana Zi Cinnam. N. M. Sem. Carui ana Zii Sp. rectif. Ibxij aq. absinth. simpl. Cong. 4ß diger. per. trium dierum spatium, postea distil. s. a. The

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The composition of this Water shews its virtues and use to which it was defign'd; for the basis of it wholly consists of stomachic, carminative, and anti-cholic ingredients: And in my opinion, nothing can be more fuitably adapted to this purpose; only I think the quantity of Wormwood (as this Water takes its appellation from it) is too little, and the Orange-peel might have been substituted instead of the Lemon, if its quantity had been increas'd without any detriment to the medicine; and if Zedoary and Ginger had been added, it would have been yet more powerful to all the defign'd intentions, which is particularly to warm the stomach, incide, attenuate, and discuss crude viscid phlegm, and vapours the product of it. It brings over in distillation a great quantity of its falt, which with its oyl lies invelop'd in the spirit; its pungency upon the tongue does plainly discover it, which acting upon the membranous coats of the stomach. by vellicating the fibres thereof, gives a fuitable tenfity thereto; and if any viscidity be therein lodg'd, or adherent thereto, it abrades and fcours off the same, which, if wholly excrementitious, is extracted into the intestinal duct, there to be fecreted with the fæces. The cavity of the ventricle being thus purg'd or cleans'd, and its fibres being invigorated and strengthen'd by the grateful fensation of the warm stomachic spices, and partly also by that flight vellication or pleafing pungency which the fibres thereof might receive from the faid falts, thereby giving them a fultable tenfity, whereby its concave or inner part becoming more corrugated, renders this membranous bowel more able to retain and accommodate itielt to the ingested aliment, in order for laudable digestion. And this it effects, by purfing up itself, and more streightly closing

its two orifices, whereby it becomes thicker and ftronger, and confequently more able to break, digest, and transmute the aliment into good and perfect chyle, fit for its entrance into the lacteal vessels rank'd along the sides of the first or fmall intestines: Thus by inciding and removing phlegm (the parent of wind and vapours) out of the first passages, and by cleansing the stomach, and giving a due elasticity or springiness to its fibres, are aromatic bitters accounted true ftomachies, and are a fuccedaneum to natural bile or choler; which, like thefe, deterges and fcours off crude phlegm, and always causes a sense of hunger whenever this useful humour is contain'd, and has the predominance, in the ventricle. All bitters refift putrefaction, the Nidus or common Matrix of Worms, Gripes, putrid Fevers, Cachochymias, &c. with innumerable other Maladies too tedious here to recite.

Juniper-water.

Take best Juniper berries twelve ounces, proof spirits three gallons, Water q. s. Distil, and dulcify with Sugar one pound, for sale or use.

Virtues of Juniper-water.

This Water is more in efteem (as has been observed in the former part of this work) especially amongst the populace, than all the whole tribe of distill'd Waters put together. It is a good carminative Water, and preferable to Aniseeds upon the account of its taste, as being much gratefuller and pleasanter to the palate; (especially if it be not reduc'd below proof, for then

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then it becomes foul, phlegmatic, and ill-tafted, as indeed most distill'd goods lower'd below proof frequently are) and in virtues it equals, if not exceeds it; for it partakes of all the carminative quality of the other, and is as effectual to discuss wind and vapours, either in the stomach of bowels. It is the common Anticholic Water amongst country people, and is very effectual for that purpole, as is frequently experienc'd; for the Berries abound with a very detergent falt, which rifes in distillation with the oil and spirit, which powerfully incides and scours off phlegm, &c. adhering to the inner tunic of the intestines; and by its warming carminative virtue attenuates the fame, and discusses any collection of vapours therein, or elsewhere inclos'd: And by the faid qualities this Water becomes an excellent diuretic, deterging and cleanfing the reins and urinary passages, whereby it powerfully provokes urine, and causes a free discharge of that excrementitious fluid. The Dutch have this Water in great efteem for the faid diuretic quality, which they frequently experience as often as they drink their impure, feculent, and grooty Malt liquor (no more comparable to our clean English Ale, or Beer, than Water is to Wine) they prefently fall into an Ifchuria, or total suppression of urine, which I conceive may be occasion'd by the groffness of that liquor. And as those people are commonly great drinkers, and great drinkers commonly are (or at least should be) great pissers; and it is frequently observ'd, that a great portion of our drink goes immediately off by urine, we may not improperly conjecture, that the feculencies, or groffer parts of that liquor is convey'd along with the blood to the kidneys, where falling in with the Serum into the fecretory glands of that K 2

part, does so obstruct and fill up the same, that no more Serum can there be put off from the blood; and confequently then no urine descend thro' the ureters into the bladder: And this I take to be the occasion of their suppression; which as foon as those people labour under, and are sensible of, they fly (tanquam ad asylum) to the use of this distilli'd Water; which they have fo often experimented to give them eafe and benefit: for being taken in a pretty moderate dose it foon removes the obstruction by its detergent quality, opening and cleanfing the urinary pores and glandules, whereby they receive that common benefit of nature (viz. a free discharge and open passage for the urinary sluid) which their gross Malt liquor had stopp'd up.

And by the faid quality, Geneva may be of fervice in the Jaundice, by opening the obstructions in the biliary pores and canals; and with it a very good Icteric Tincture might be made with proper Anti-icteric ingredients, as Croci-Curcum. Rubi Tinctor. &c. Dr. Bate commends the Spirit of Juniper, to be a very powerful medicine in curing and removing barrenness; which I conceive must be, by discussing and drying up the superfluous humidities of the matrix: And further he tells us, it provokes the Catamenia or Menses, which is effected by the efficacy of its detergent falts; which striking against, and forcing open the mouths or extremities of the uterine vessels, it absterges or wears away the obstructing viscidities, whereby a free passage is granted for those periodick evacuations.

Cardamum.

Cardamum.

Take Pimento, Caraway and Coriander feeds. Lemon-peel, each four ounces; proof-spirits three gallons, Water q. f. Diftil, and dulcify with Sugar one pound and a half, for fale or use.

Virtues of Cardamum.

This Water is never prescrib'd in medicine that I know of; tho' tis a good stomachic, carminative, and anticholic liquor: And were it drawn as high proof as the Cordial waters of the shops, it would not be much inferior in flavour and virtue to Aqua-mirabilis. It is a cheap, tho' good composition, and may very well be substituted in lieu of Aniseed-water, whose abominable Empyreuma and disagreeable Gust renders it unfit either for dram or medicine. This Water may be us'd in all cases where any other carminative or stomachic Cordial water may be of fervice, especially in cold and humid diftemperatures; for by its warming, attenuating, and discussing faculty, it dries up superfluous moisture, discusses wind and vapours, and makes way for their transpiration; it comforts the heart by the grateful fensation which its fibres receive from the aromatick spices of this Cordial, whereby they being invigorated, the contractions of that vifcus will be more frequently, and forcibly repeated, and confequently a greater Impetus given to the blood's circulatory motion. And thus, tho' fpirituous liquors are faid to induce a Coagulum upon the blood, and that from the authority of a great Man (Dr. Pitcairn I K 3

mean) who in his experiments made with the Juices of several Vegetables, &c. upon blood, found that Spirit of Wine produc'd a confiderable Coagulum therein; and that it ran into Grumes, with a large separation of Serum; yet this was after it was drawn out of the body, and expos'd to the air, and therefore might have a different effect, from what it would have produc'd in the body of a living animal. And this I am induc'd to believe for the forefaid reasons; for daily experience tells us, that a moderate dose of any spirituous liquor does much increase the blood's velocity (as the more frequent vibrations or smart strokes of the artery and augmented heat of our bodies does plainly evidence;) which, if granted, the cohefion or groß texture of the blood must necessarily be divided and attenuated, and kept more fluxile in this flate of rapidity, as being more broken, divided, and attenuated by the frequent Systoles of the heart, and its productions (the Aorta and its fubdivided canals, I mean.) And this is farther prov'd by the intense heat we perceive and feel in our bodies when afflicted with a febrile Paroxyim: The cold fit (its first infult) being past, and the Lentor partly divided by the faid frequent contractions of the heart, and the arteries following its motion, a rapid circulatory motion presently fucceeds, with a violent burning heat accompanying and arifing from it; and in this state the blood must certainly be allow'd to be more fluxile than in a quiescent or tranquil state, otherwife that great heat cou'd not fo immediately be difpers'd and diffus'd over the whole body, but only to some certain parts of it where the larger veffels terminated, for in the Capillaries it would obstruct, and cause pain and tension, as is feen in Rheumatisms; and the extreme parts would,

would, as being defrauded of their nourishment. feel cold; but in continual Fevers, or any increas'd motion of the blood, no fuch fymptom happens. Therefore we are induc'd to think that they don't cause so great a Coagulum in the blood, as they are generally thought to do, especially if moderately and cordially taken; but if otherwise, 'tis indisputable they do. The spirituous parts passing off, and the grumous becoming adust by the force or violence of preternatural heat, occasion'd by the immoderate use of hot spirituous liquors, will necessarily run into grumes or clots, with a large feparation of its Serum; which I take to be the primary cause of a Dropfy in great drinkers of spirituous liquors, by which repletion the Lar familiaris, or Eupolos wie of Hippocrates, becomes fuffocated and extinguish'd; and the superfluous ferous parts of the blood not passing timely off probably causes a rupture of the Lymphatics, which daily augmenting lays the foundation of that disease. Thus may we account for that cold and chill habit of body, and hydropical fwellings that fuch persons are subject to. But as this bufiness ought to be treated of in another manner, I shall lay it aside 'till another opportunity, as defigning only here to flew the dangerons use of hot burning liquors in young and choleric persons, whose blood is subject to be inflam'd; but in cold and humid conftitutions, especially if inclining to old age, a more liberal use may then be fafely allow'd.

Nutmeg-water.

Take Nutmegs bruis'd twelve ounces, prooffpirits three gallons, Water one gallon and a K 4 half;

half; infuse, distil, and dulcify with fine Sugar two pounds for use.

Another.

Take Nuts bruis'd half a pound, Caraway-feeds or Orange-peel an ounce, proof-spirits three gallons, Water q. f. Distil, and sweeten with Loaf-Sugar two pounds.

Virtues of Nutmeg-water.

This Water is feldom made, yet for its virtues deferves to stand in the first class of all stomachic and cephalic Cordial waters, both upon the account of its agreeable flavour, and its medicinal virtues; for in the whole materia medica there is not one compound water found, that is more agreeable to the palate, more comfortable to the stomach, and more grateful to the nerves than this Cordial is; and may profitably be us'd in all cephalic and nervous cases, especially those proceeding from a cold cause, for as it abounds with a very warming and fubtil oil, it powerfully discusses wind and vapours from the stomach, bowels and head, thereby curing pains and tortions in those parts. It dries up and discusses the Superfluous humidities of the brain, and is therefore serviceable in Catarrhs, and other serous defluxions; it helps and strengthens the memory and eye-fight by the faid qualities, (especially if affected with too much moisture): It strengthens the stomach, and other membranous parts, by repairing the relax'd tone of their fibres, giving a fuitable tenfity thereto; and therefore may be found ferviceable in most of their disorders; which here for brevity's fake I shall omit 'till a farther opportunity.

Rosa Solis.

Take Rosa Solis pick'd clean one pound and a quarter; Cinnamon, Cloves, Nutmegseach an ounce; Marigold-flowers a quarter of a pound, Caraway-seeds three ounces, Proof-spirits three gallons, Water two gallons; draw off your proof-spirits from the Still, and insuse in a quart of liquor, Liquorice slic'd four ounces, Raisins ston'd one pound, red Sanders sour ounces; insuse upon hot ashes to a due extraction of their virtue; strain, and dissolve therein white Sugar one pound and a half, which when cold mix with the proof goods for use.

Rosa Solis by digestion.

Take Rosa Solis clean pick'd four handfuls, Nutmegs, Caraway and Coriander seeds, Mace, Cloves, Cinnamon, each half an ounce; Ginger, Cardamum, Zedoary, Calamus Aromaticus, each a drachm and a half; Cubebs, yellow Sanders, each half a drachm; red Sanders an ounce, Liquorice two ounces, red Rose-leaves dry'd a handful, best Brandy a gallon; infuse for some days, and then strain off the clear liquor; in which dissolve white Sugar twelve ounces.

Another.

Take Rosa Solis cleans'd four handfuls; Cinnamon, Nutmegs, Caraway and Coriander seed, each one ounce; Cloves, Mace, Ginger, each three drachms; Cardamum, Cubebs, Zedoary, Calamus Aromaticus, each a drachm, red Roses dry'd an ounce, Liquorice two ounces, Raisins ston'd

fton'd half a pound, Cochineal, Saffron, each one drachm, best Brandy one gallon; infuse for eight days, and strain, to which add Loaf-Sugar twelve ounces.

Virtues of Rosa Solis.

These Waters made by infusion of the herb are hotter in quality than that which comes off by distillation, where most of it is hot, fiery, and almost caustic fixed Salt does not ascend in distillation, but remains with the Magma in the Still; yet are they both without danger. Dr. Bates in his Difpensatory, and the College in theirs, both give us a Recipe thereof made by infufion, not much different from each other, or from those I have here inserted. The virtues rehearsed by the faid Author are thefe; it is good against Phthificks, or confumption of the Lungs, a Tabes, or pining, &c. It comforts the heart, liver, and ventricle, eases the pain of the head, and is a preservative from the Plague. Thus Dr. Bates. All which virtues may be afcrib'd to its heating and drying quality, which attenuates and discusses the crude Pituita heap'd up in the lungs, and dries up, or absorbs the remaining particles thereof: Its detergent quality absterges, or scours off the purulent matter, and cleanses the little abfceffes, thereby disposing them for the reception of the nutritious balfamic particles, to fall in with, adhere to, and fill up those eroded cavities, and also dries up the Catarrh, the origine of this distemper; it eases the pain of the head, by attenuating and discussing vapours there, opening by its penetrating and deterfive quality the glandular pores of the capillary arteries whereby they may exhale or perspire; or by a more immeBOOK II. of DISTILLING.

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immediate way, viz. thro' the Pores or Perspiracula of the Cranium, which Dr. Havers has observ'd in the upper part of the Os frontis, and about the Fontanella or junctures of the coronal and fagittal futures, thro' which the offenfive vapours which arise and gather within the Cranium do perspire; and not only the tenuious vapours, but also the more gross and morbific particles may be evacuated out of the cavity of the scull that way; and farther, by its immediate effect upon the nervous membrane of the stomach, by invigorating and corrugating its fibres, as afore shewn, the concoctive faculty thereof is affisted and promoted, whereby crudities are removed, and the cause of indigestions, vapours, &c. which may ascend to, and trouble the Head, or other parts, is taken away; and by its faid effect upon the fibres of the Heart and other Viscera, all languor or faintness is remov'd by the grateful fentation which this Cordial imparts to them; and by a new supply of the nervous fluid they are invigorated and strengthen'd to shake off whatever is heterogeneous or offensive to them. And thus may this Cordial be faid to comfort the principal viscera; And I have here endeavour'd to explain the method or manner how it is perform'd.

London Plague-water, another fort.

Take green Walnuts, one pound and a half, Angelica-root half a pound, Angelica-leaves, Rue, Sage, Scordium, each three handfuls, Nuts, long Pepper, Ginger, Camphire, Gentian, each an ounce and a half, Snake-root, Contrayerva, Elecampane, Zedoary, Vipers-flesh, each four ounces; Venice Treacle and Mithridate, each four ounces, white

white-wine Vinegar two pounds, proof-spirits two gallons; macerate, and distil $\int_{\cdot}^{\cdot} a$.

Virtues of London Plague-water.

I could not here omit giving you the prescription of this most excellent composition; for certainly nothing can be more regularly and judiciously composed, or more effectually levelled against the pestilential Miasmata, than this great Alexipharmic is. The virtues I have not time now to enumerate; but it partakes of the same qualities (tho' far superior in strength and goodness) with the afore-recited Plague-waters.

Spirit of Alkermes.

Take Orange-peel, Cinnamon, each four ounces, Lemon-peel, Nuts, Rosemary-flowers, bitter Almonds, each two ounces, Proof-spirits one gallon and a half, Water one gallon; macerate, and distil, to which add Juice of Kermes one pound, double-resin'd Sugar one pound, Ambergrease (rubb'd and mix'd in the said Sugar) a scruple a Digest for some days, and silter, adding Leas-Gold half an ounce.

Another by infusion.

Take Cinnamon and Citron water, each one pound, Juice of Kermes three ounces, double-refin'd Loaf-Sugar a quarter of a pound: Digeft and filter, adding Leaf Gold N°. eight, Essence of Ambergrease half a drachm; mix.

Or.

Take red Surfeit-water one pound, Cinnamon and Citron water, each half a pound, Confection of Alkermes three ounces: Digeft, and filter, adding Leaf-Gold N°. eight, mifce.

Virtues

Virtues of Spirit of Alkermes.

As this Water is a great Cordial, so it bears a great price, which is much augmented by the Gold and Ambergrease which enters the composition; it is good in nervous cases; and by its grateful effluvia takes off fainting, swooning, palpitation and tremor of the heart, weakness and numbness of the extreme parts, Spasms, Paralyses, and other nervous disorders.

Antiscorbutic Water.

Take Garden Scurvey-grass twelve handfuls, Water-Cresses, Brook-lime, each two handfuls, Lemons slic'd six, Horse-radish root two pounds, fresh Briony-root four pounds, Aron-root two pounds, Mustard seed six ounces, Nutmegs one ounce: Digest in two gallons of proof-spirits, adding Water q. f. and draw off gently the proof-spirit f. a.

Virtues of Antiscorbutic Water.

This Water is much the same with that excellent Antiscorbutic Water of the shops call'd Aqua Raphani comp. save only that here we have Sem. Sinapi in lieu of the Cortex Winterane, with some other small variations not material. It is compos'd of exceeding subtil and volatile ingredients, whose particles when actuated by the heat and impulse of the arterial sluid, are render'd capable of inciding all viscidities, which may infarciate or obstruct their capillaries, whereby perspi-

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perspiration being impeded, the perspirable matter becomes fharp and acrimonious, eroding the capillaries and their glandules, from whence proceed those cutaneous eruptions and erratic pains which form those anxious symptoms we call Scorbutic. The Sem. Sinapi in the composition makes it ferviceable in paralytic and hydropic cases too, by opening and cleanfing the mouths and passages of the obstructed Canals and Viscera, and also by giving a greater fluidity to their contents; the Stimulus, which their component fibres fuffer, by the pungency or vellication of the volatil falts wherewith this medicinal composition is highly loaded or impregnated, not a little contributing thereto. Thus it becomes ferviceable in a Dropfy, by opening the urinary pores and passages, for the stagnating humour that way to pass off; and farther, by opening the mouths of the Lymphatics, and giving a greater fluidity to the Lympha, it may pass on freely without stagnating or bursting its minute canals, which Etmuller would have to be the origine of this diftemper; or by opening the ferous glands and reducing veffels, a free discharge may thereby be given, which being before obstructed, and the humour stagnating in the faid vessels, can neither be exhal'd nor reforb'd, but breaking the fame, fays Boerhaave, pours out that humour between the membranes, and this produces a Dropfy. The nerves receive the like benefit by this Water, when they require attenuators, to incide, discuss and rarify viscosities, and a Stimulus to their fibres, to shake off the adhering Lentor.

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W ormwood vv ater	THE RESERVE THE PARTY OF THE PA

FINIS.

Recipe for making common gin Take of the or dinary matt spurits five Gallons, oil of tompentine, one owner. bay salt, one Handfull and half, Draw off by a gentlefore title the founts begin to rise, and make up your goods to the strength required with clean water. Malt sports must be fermented without Hop for distilling, - some people both ferments and distills with the growing ment with the Spanets, n. 13. Malt spouts obtained by distilling malt digowor without Mop



