# M0010877: Wecker: Secrets of art and nature, 1660: title page with portraits

#### **Publication/Creation**

November 1948

#### **Persistent URL**

https://wellcomecollection.org/works/a8q8dc6u

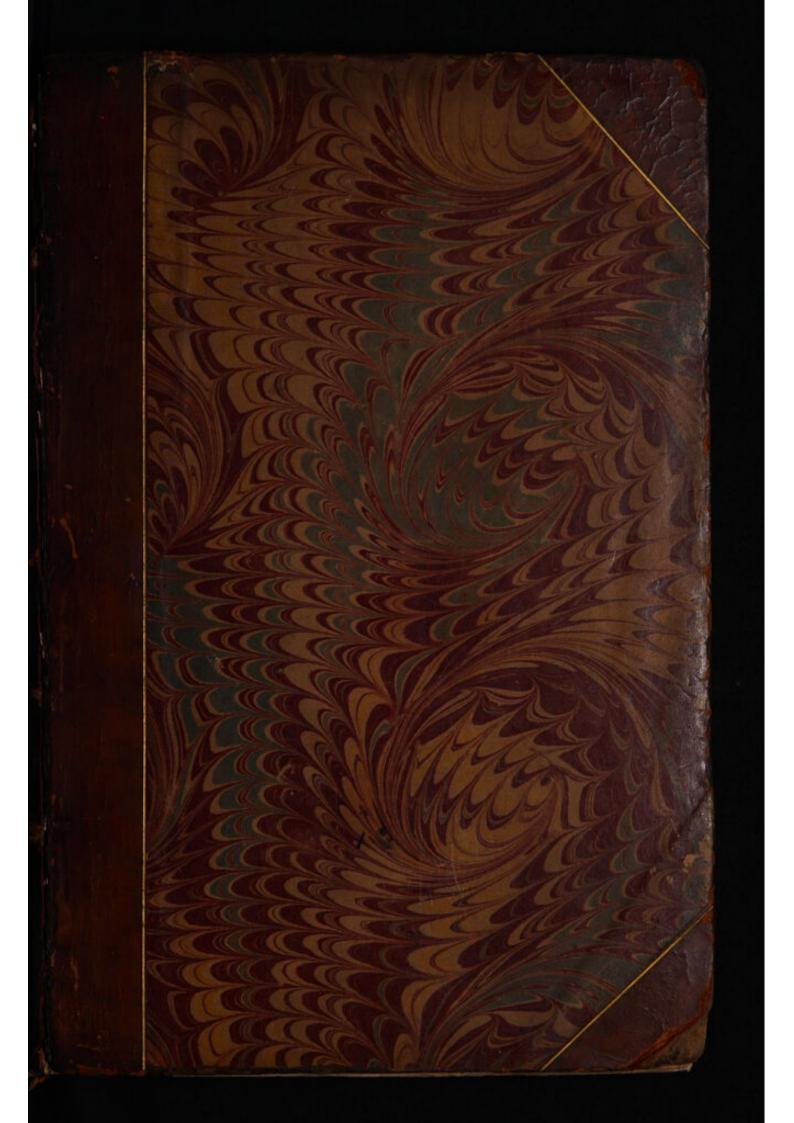
#### License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



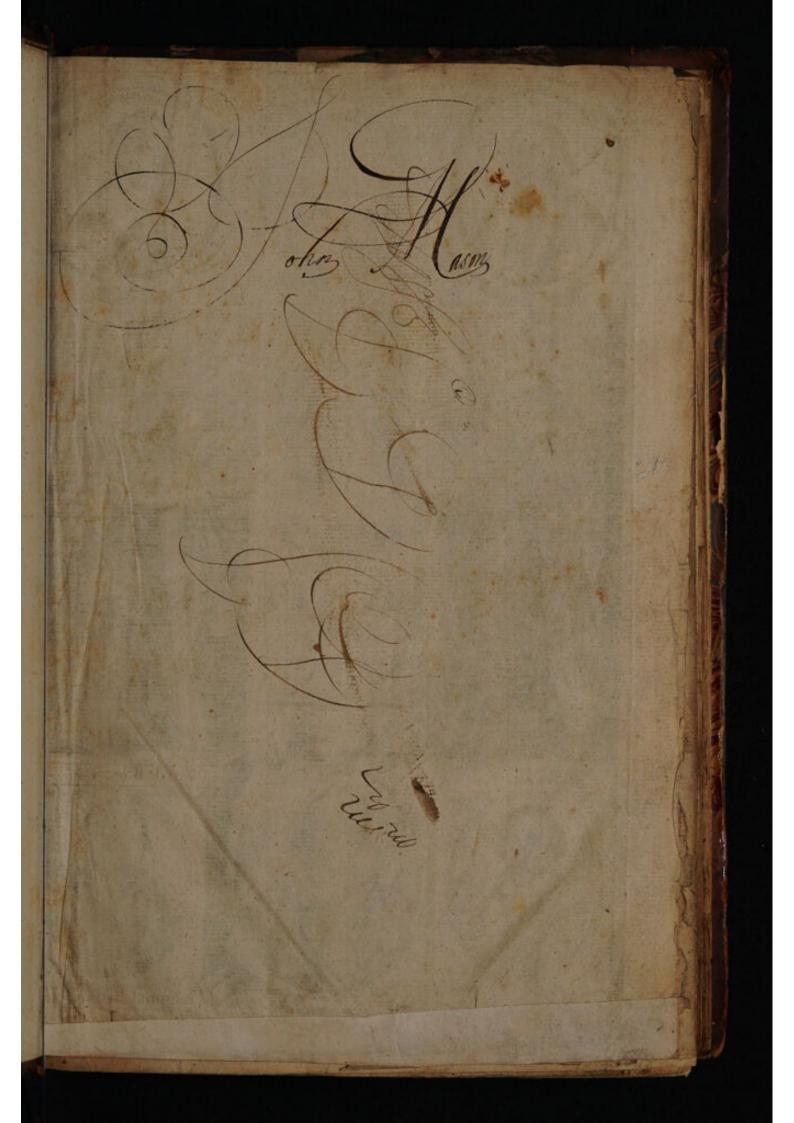




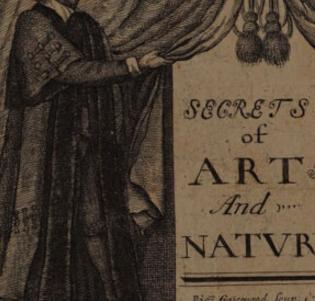




56100/c



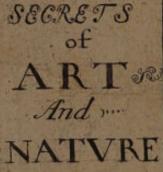




D': Harney :-



D' Reade :-



Lord Bacon:



Ramund Lullius

D. IOHN WECKIR!-

11626

Eighteen Books
Of the

# SECRETS

O'F

# Art & Nature,

BEING

The Summe and Substance of

# Naturall Philosophy,

Methodically Digested.

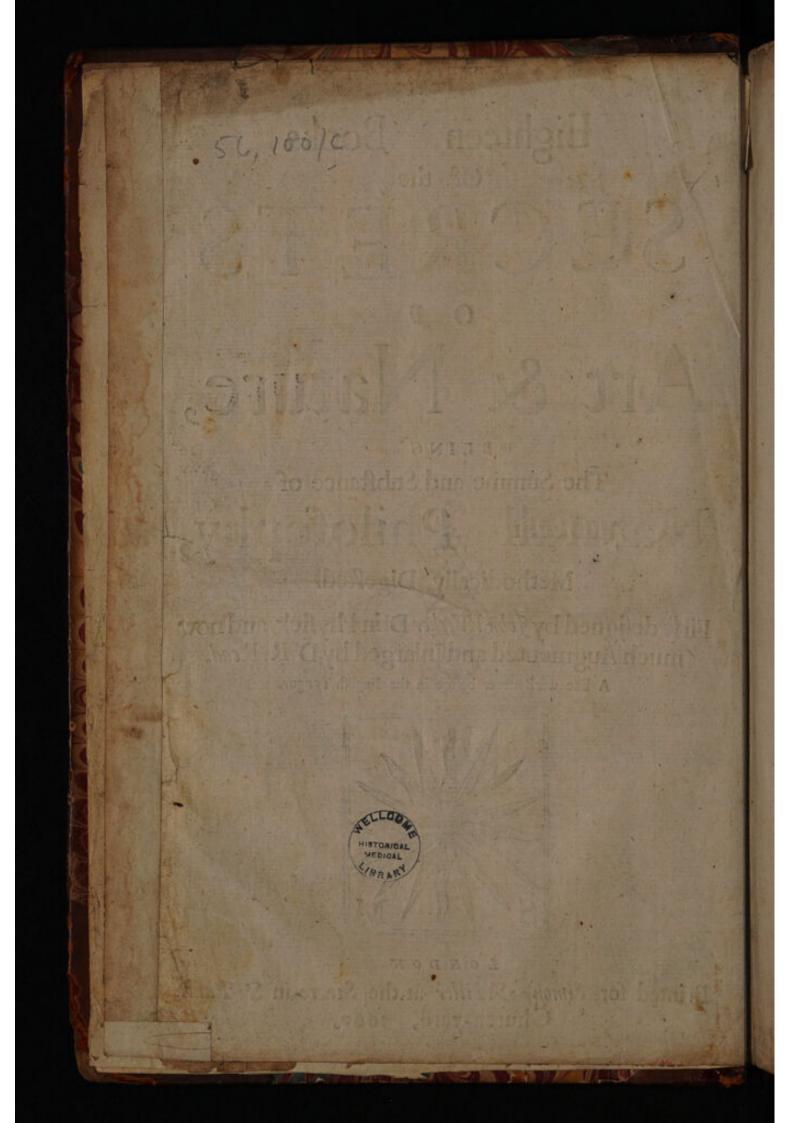
First designed by Fohn VVecker D'in Physick, and now much Augmented and Inlarged by D'R. Read.

A like work never before in the English Tongue.



LONDON

Printed for Simon Miller at the Starre in St Pauls Church-yard, 1660.





### TOTHE

# READER.

Ince that there is nothing that addeth more to the delight and satisfaction of Ingenious persons then the increase of knowledg; I have here endeavoured to Publish somewhat that may be a companion for solitude,

and yield entertainment to vacant hours, This work being an Encyclipædia of Arts and Sciences, intermoven with facetious Conceits to recreate the fancy. There are different forts of knowledg: Some there are that being prickt forward with an (imaginary) happy fruition of their ambitious defires, study Politicks; Others more moderate and less ambitius, defire only to acquaint themselves with prostine Learning, thefe regard Antiquity. Athird fort of a duller capas city neglecting both thefe, only study the encrease of their fortunes, impoverishing their foul to enrich their body. A fourth and last fort there are, whom a better Gentus will no way fuffer me to discommend, that delight themselves to compleat the vacuum of nature, (if any fuch thing there be) and their own intent in fearching and eafily producing the effects of what they formerly (tigmatized with the brand of impossibility, fince admired, and at length understood, being only bood winked with a seeming contradiction. These I say find and perceive thole

#### To the Reader.

with admiration at length under stood the bare connexion of a few exteriour parts, which now we have here discovered, not only to receive connexion but nutrition; and not nutrition only but sympathy; and then sympathy to receive a mutuall concurrency with the soul animal, which have run into such a Secret that would have stretcht their admiration beyond the bound of humane conception. This now appears plain to us, and indeed so it is with other things natural. The hand of time hath since wiped away that oblination which concealed those Characters that (as you may plainly understand) we have here discovered; so that I may here safely use Horace his words

Omne tulit punctum qui miscuit utile dulci. That is esteem'd without exception true, That yieldeth prosit both and pleasure too.

and that this is so, I shall refer my self to the ingenuous applicati-

on of my serious Reader.

One thing more I have to impart unto thee, and that is, the great pains, cost and charges that have been expended in Publishing this Book: and thus far I think my self obliged modestly to jay, that he had regard to the world and his credit, more then his peculiar profit.

Lastly, I shall humbly intreat, that if there be any thing that through the Publisher or Printers fault hath been omitted, to

paß a gentle censure, and herein you will oblige

Your reall Friend

## Manda Charles Charles

A Summary view of the whole VVork.

#### BOOK I.

S Ecrets of God, Nature, Manin Generall.

BOOK II.

Secrets of Angels, good and bad.

BOOK III.

Secrets of the Sun, Moon, and Stars, Fire, Ayr, Water, and Earth.

BOOK IV.

Secrets of the Internal parts of Man, the Passions, Reason, and Memory.

Book V.

Secrets of Life and Death; Remedies for all Difeafes in the body of Man. both Internall and Externall; old Age, Eating, Drinking, Venery, Sleep, Exercise, and beautifying the body.

BOOK VI. AMD to de 1938

Secrets of Earthly Creatures, tame; of the whole, greater, as Horses, Asses, Oxen, Bulls; leffer, as Sheep, Bucks, Goats, Hogs, Dogs; of the parts, as Bones, Horns and haire: of wild Creatures; greater, as Bucks, Bores, Hares, Foxes, Wolves; lesser, as Mice, Moles, Weefils, Ants, Scorpions, Wiglice, Fleas, Lice; creeping things, as Snails, Caterpillars and Serpents.

BOOK

#### BOOK VII.

Secrets of Fishes.

#### BOOK VIII.

Secrets of Birds; as Hens, Pigeons, Peacocks, Swallows, Bats, Pheafants, Partridg, Turtles, Quails, Blackbirds, Choughs, Geefe, Ducks; Infects, as Bees, Drones, Wafps, Flyes, Wevils, Locusts.

#### Secrets of the Un.XI NOOB tars Fire Avr. Ma-

Secrets of Plants, of Trees in generall; more particularly, of Fruits, Leaves, Flowers, Seeds, Roots, Woods, Shrubs, and Plants.

#### BOOK X.

Secrets of Metals, liquid, as Quickfilver; hard, as Gold, Silver, Brafs, Iron; foft, as Lead, Tin, Antimony; pertaining to Metals, as Brimstone, Vermillion, Orpiment; not burning, as Chrisocolla and Salt.

BOOK XI. Ishipanyi

Secrets of Glass.

### Secreta of Farthich IX NOOR me of thewhol

Secrets of Jewels, and how to counterfeit all forts whether white, black, red, green, blew; fit or unfit to Engrave.

#### Book XIII.

Secrets Artificall; as Houses, Gardens, Fountains, Cloath and Cloathing.

#### BOOK XIV.

Secrets of Meteors; as Hail, Rain, Snow, Thunder,

The Contents.

der, Lightning, Tempests, and the like.
BOOK XV.

Secrets Organicall; as Grammer, Logick, Rhetorick, Poetry, Speaking or Writing. BOOK XVI.

Secrets of Sciences; as naturall Magick, Metaphificks, lawfull and unlawfull, Mathematicks, Geometry, Arithmetick, Mufick, and Aftrology; politique as Peace and War.

BOOK XVII.

MI-

IES.

ot

all

n-

Secrets Mechanicall, performed by Millers, Smiths, Bakers, Cooks, Painters and Apothecaries.

BOOK XVIII.

Secrets of Sports, Delights and Recreations:

Authors

### Authors made use of in this Treatise.

A Lbertin Magnut.
Alexis.
Dr. Anthony.
Abstrag.

Alianus.
Andreas Cordabellis.
Andreas Albius.
Artius.
Andernacus.
Appleius.

Anatolius.
Avicena,
Ariftotle.
Archimedes,

Antonius Mizaldus. Aratus.

Arnaldus Villanovanus. Atheneus. Ambrose Parrey.

Augustinus Stenchus.

B Ayrns.
Dr. Brown.
Beritius.
Mr. Browne Chyrurg.

Blessius. Brasanolus. Mr. Bates.

Mr. Bates. Dr. Butler.

CArdanus. Caravanus Hispanus. Cato. Cleopatra.

Cossilianus.
Cornelius Agrippa.
Constantinus Casar.
Costabenluze.

Conntesse of Kent.

Dr. Clarke. Nicholas Culpepper.

D'Avid Wezelim.
Democritus.
Didymns.
Damageron.
Dyoniffim.
Diascovides.
Diophanes.
St. Kenelm Digby.
E Nonimus.
Epedocles.

Egidius Bonxellensis.

Fallepins.
Favorinus.
Felix Platerus.
Fioravantus.
Fronton.
Florentinus.

G Allenus.
Gabriel Araber.
Gefnerus.
Gargilius Martialus.
Gregorius Valla.
Gemma Frisius.

Hierocles.

Hippocrates, Hollerius, Honricus Rantzoviut.

Mr. Holliard. Hemicus Wolfins. The. Hobbs.

Jos. Hobbs.

Jo. Bapt. Porta.

Dr. Johnson.

Jacobus Carpensis.

Jarcas.

Joan Bangins.

Joan Weierus.

Joan Weierus. Mr. Jones. Joan Baubinus. Joan de Rupescissa.

joan de Rupe[cis[a. Kircherus. ▼ Emnius.

Linius Lady Howard.
Leporinus Dalmata.

Lucas Rhor.

Magister Odomarus.

Marcellus Palerius.

Manulcripts above three hundred.

Dr. Mathiau.

Mr. Moulins.

Noftradamus.

Nicolaus Taurellus.

OLAUS Magnus.

Ottavins Landus.
Oppianus.
Orphens.
Oribafius.
Orus Apollo.

Paracelfus.

Palladius. Pamphilius. Pet. Galarinus. Palagonius.

Philoftratus.
Plinius.
Pictorius.
Plutarchus.

Polibius.

Phillip Melantibon.

Profesantes de Corduba.

Prollomens.
Publins Vegetins.
Pet. Crescentins.

Sir. Hugh Platt.

R Amundus Lullins

Dr. Resilo ()
Rhafis.
Roscellus.
Rwverius.
Ld. Riwhin.

Scaliger. Seneca. Servius.

Sextus Platonicus. Simeo Sethi. Sylvius.

Sotion. Straton.

Semoneta Cardinali. Scribonius Largus. Sebastion Sheely.

THeoph stus.
Tarentinus.
Theomnestus.

Varignana.
Vicentius Luneus.
Vindanionius.
Viruvius.
Vanderbaiden.
Tho. White.

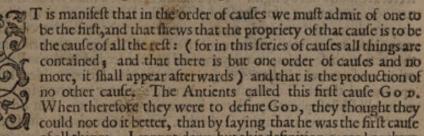
Zoroafter.

THE

# SECRETS.

#### a visual suggest to all a BOOK I. The and to be to be to

What GOD is. Chap. 1.



could not do it better, than by faying that he was the first cause of all things. I cannot deny but this definition agreed onely to God, that the definition and the thing defined may be convertible: yet I would enquire of our modern Writers, who have exactly apprehended the decrees of the Antients, whether this definition agrees onely and alwaies unto Gon? The Antients did affirm this, but the Moderns do not at all; they confess that was from eternity, when there was nothing besides himself. When therefore there was nothing in being, how can he be faid to be the first cause of all things? But the Antients are to be confuted another way: for they do not grant that Gop alone was from eternity. Logicians number the predicament of Relatives amongst accidents, and that is true; for whatfoever subsists by it self in the which it is, it hath an existency peculiar true; for whatfoever fubilits by it left in the which it is, it hath an existency peculiar to it felf and not to other things. Since therefore to be a cause is contained in the predicament of Relation, it must needs follow, that the name Cause is an accident amongst things that it is ascribed to. How then appears the acuteness of the Ancients, who defined God onely by an Accident & They might be plainly consuted in many words, but I will clear the point where the error lies. In this description of the Antients, where they say that God is the prime cause of all things, there are two considerations: for the word first shewes, that God hath his existence from himself, and not from any other. This pare of the description shewes onely what God is of himself; but the other, wherein they say he is the cause of things, shewes what he is by assident: for this is not said in respect of himself onely, but in respect to other by accident: for this is not faid in respect of himself onely, but in respect to other things. Wherefore if Gop be to be defined truly and fimply, the latter part of the description of the Antients must be taken away, that the description may contain not thing but what is essentiall to God, who hath his existence from himself, and not in respect to other things: wherefore we should define Gon to be an effence having existence from bimfelf. Divines call God Autanov, a being from bimfelf. If the word may be drawn in the abstract, we shall excellently define Gon in one word, saying that he is an trainer, self-being: for nothing that is generated bath an existence, to which this name may be given, and it is proper onely to Gop, and that alwayes; and this comprehends all and onely those things that Gon is of himself, and is said to be in respect of himfelf. Nicol. Taurellin.

Of Natures

That Nature is not the prime cause of all things. Chap.2.

Perhaps fome man may think that Nature is the first cause of all things; which not withstanding is a most absurd thing, as may be shewed by many arguments: I shall lay down one or two. The first cause that hath no cause before it whence it arose, is the cause of itself: But Nature is not from it self, but from a principle above it. For since it is finite (as appears by the motion of the Heavens) it is defined by another;

日本四日於祖前 中等日

for nothing can define it self. Again if Nature made it self (which is the property of the first cause) she made her self naturally. But what things are made naturally, are made of a preexistent matter, and so must Nature be made, if she be naturally made: which it we grant to have been when Nature was not, it will follow, that something was made naturally before there was any Nature, and that Nature made things before she had a being her self. Therefore Nature is not the first cause of things. The same.

Of Man. Chap. 3. It is evident enough by a mans actions, that he confifts of two parts, namely a foul and a body. This is no Secret, for it is known to all men by fenle: but fuch things as are fecret are found out by figns. The efficient cause of a Man is Father and Mother, Nature being the means; for the feed of both the Parents must be so disposed, that they may produce, for substance, quantity, quality, place, and other circumstances, a humane, that is an animall and naturall effect. Whereupon the first question is, Whether befides these causes, namely the soul and the seed of both the Parents, there be no other cause to which the ofspring of man may be ascribed? Here I shall examin the opinions of the old Philosophers. As men are now begotten so they were alwaies, as the old Philosophers fay; but it is contrary to our faith. But do you feek for a fecret of Reason, not of Faith? Take this, If there were alwaies the same way of mans production, then there is no other efficient cause of mans being, besides the Father and Mother; why then did the Philolophers think of the first cause of all things? For if viciffitude and propagation was the fame alwaies as now it is, we can admit no other efficient caule, but mankind and nature, because the propagation of things is either humane or naturall. Again, If mankind had alwaies the same beginning it hath now, when a Sonne is begotten by his Father, the Generation of Mankind must be extended to eternity, which is most absurd, as I shall prove by these reasons. It is cleare by Metaphyficall Axiome, Nothing that hath semething first, and semething that fellows after, and receives more and lest, can be infinite. But propagation hath first and latter, for the Fathers is before the Sonne. Moreover we all know that mankind confifts in individuals, and that kind cannot be eternall whose individuals are not eternall; fince therefore no man was from eternity, how can mankind be from eternity? and if mankind be not from eternity, then mans propagation cannot be carried up to tarre as eternity, or to that which is infinite. Now that no man was from eternity it appears by this, because they are all dead, and not one alive, that hath lived two hundred years fince. Therefore if they all dye, it follows that all had a beginning, fo that no man was from eternity. For had any man been from eternity, he mult needs have continued to eternity, for mortality cannot befall eternity. More-over that mans generation had a beginning, it appears, because it is performed in time, and whatloever is performed in time, must needs have a beginning; now no man that hath reason will say; but that the production of man is done in time, and that it was alwaies done in time is proved, because as man is now begotten, so was he alwaies begotten, as the old Philosophers confess. Adde to this, That all men are fo made, that they have no existence before they are begotten; fince therefore all men did fometimes begin, it must follow, that mankind by propagation had a beginming. Nic. Taurellus.

The world is not in making, but is made. Chap. 4.

Effects are of two lorts: For some are separated from the cause, as a house from the Builder of it: Some again remaine in their cause and cannot subsist without it, as heat from fire. To what effects then shall we referre the world? If you say that the world is from God, (and all men confess that it is an effect of his) it is in substance separated from him; and it will follow that God is in time before the world, for this is the property of such effects; now that which is after another thing cannot be from eternity. But if you judge that the world doth subsist in its cause, as heat in fire; you must know that these effects are not substances, but accidents to those things they are in. So that the world can by no meanes be reckoned amongst the Catalogue of those effects. But that this may be better understood, I shall briefly lay it more o-

pen. Tie world hath its being from God, which we express by the word fieri. Now effects gethen faid to be in fieri, when they receive their being that they have from their case; Namely, at that very time that causes are joyned with their effects. This onjunction that is in the first order of effects, lasteth so long, untill the work be conpleat: Wherefore we fay that the world (because we must needs confese, that it mut be referred to those effects) not to be in fieri, but to be made already, for it is a jersect substance, and it hath long since obtained the end it was made for, by its operations. Since therefore the world is no longer a making, it doth not receive its being from any other: wherefore if the world was from eternity, as it is now, it could never receive its being from any other thing, Let now Aristotles followers shew how God canbe the cause of the world; if the world never received its being from him: and if they confessit did receive its being from him, that could not be from eternity, for things that are from eternity, must needs continue to eternity, and things that have an end must needs have a beginning. Since therefore the world ceaseth to be made by God, it had a beginning when God undertook the making of it; and so it was made by him, not from eternity, but in time. The fame.

#### BOOK, II.

Concerning the Secrets of Angels; of the substance, difference, and power of the Devils. Chap. 1.

He witty industry of men hath found out many things by reason and experience, which because they are known to very sew, are deservedly reckoned amongst fecret and wonderfull things; these are either humane or naturall. But the unfatiable defire of men was neither content with art nor experience; But the power of the Devils must be called upon to affist him. By their aid many things are wont to be done, which amaze both wife and ignorant men. Now that we may shew this part of fecrets that are accomplished by reason, and which may well stand with our Faith and Religion; I shall first declare what the Devils are, and how they may be distinguished by their differences, and what power they have over humane

What the Devils are. Chap. 2.

The Devill hath his name from knowledg, by which name we comprehend the fimple intelligences (as the Philosophers call them) namely the incorporeall substances that are entangled with no clog of the body, and were created by God. They were the first work of all things, that they might be happy in a due contemplation of God, and of his Works. Now a due contemplation is this, which produceth no envy or defire to the thing contemplated, but only the praise of the work Master, as the thing that is contemplated requires. But that fome suppose that the Devils were made for mans cause, it is beside the truths of Philosophy, as I shall shew elle where. For though God oftrimes use the Ministery of good or bad Angels to protect or to punish men: yet this is not the principall end for which those spirits were created, fince every intellectual substance first subsists by it felf, and not for another. Mens fouls indeed when they are separated from their bodies, are free from the contagion of matter; yet they cannot properly be called Angels, because the end they were made to, was to informe the body. For this cause Divines hold rightly, that fouls separated from their bodies, are at rest untill the last day that their bodies shall be raised again, because their actions are limited by the ministration of the body. But the nature of Angels is otherwise, for they attain their end and perfection without any body to clog them with. Nor need we be moved at all with that which Cornelius Agrippa recites out of Augustine, Basill, Gregory, Apuleius, and Psellus. For though Devils appear offtimes in divers bodily shapes; yet they are but apparatitions or bodies assumed, whereby the substance of these Angels is no wife to be defined. For Angels, that they may fit themselves, to comfort or to deceive men, affume fuch forms as are most proper for our fenses, and shortly after lay them aside a-

gain, without any corruption of themselves. Moreover to understand he substance and nature of the Angels, this also must be considered, that the Angels re not infinite in substance or quantity; as elsewhere we faid that God hath an infinite ex-istence. Wherefore though Philosophers count all things infinite that have o bodies, yet Angels and all things, God excepted, are finite: which I demonstrated in its proper place, where I shewed that God is infinite both for Substance and Unity. In Unity because he only hath this way of existence. Now it is clear from hence, that the Angels are finite : for nothing is infinite in quantity that is many, nor dothinfinite agree to any thing, that hath parts one without the other. And that there are many Angels, befides experience, reason will prove it sufficiently. For the good for which the Angels were made, requires not to confift in one, but is better they should be many; and it is more convenient that multitudes of Angels, then one alone should

attain felicity to the due praise of God. Nic. Tawellus.

Of the differences of the Angels. Chap. 2. Agrippa reports that Magicians make a threefold diffinction of the Angels: for they make some to be supercelestiall; namely, mindes totally separated from bodies, which are addicted only to contemplate and adore God; wherefore they call fuch Gods, by reason of some participation they have of the divine nature; because they are alwaies full of God, and are inbriated with divine Nectar. These Angels are alwaies attending upon God, nor are they prefident over the bodies of the world; nor are they appointed to minister unto things here below, but the light they receive from God, they infuse into the inferior orders, and they distribute to them severally to all their offices. In the second place, Next to these they ranke the celestiall Intelligences, which they call Angels of this world, namely, fuch as besides the Worsphere, and Starre: wherefore they distribute them into so many orders, as there are Spheres in the Heavens, and Starres in those Spheres. Thirdly, They place those Angels that are as it were Ministeriall to dispose of things here below: which Origen calls invifible virtues, to whose charge are committed such things as are to be done upon the Earth. For ofttimes feen by no man, they direct our journey and bufinels; of times also they are prefent in Battels, and by fecret aid they affoard to their friends the fuccess they wish for: for they are said to be able to do good, or hurt at Those likewise men divide into severall orders, some to be for the their pleafure. fire, fome for the water, some for Aire, some for the Earth; which four forts of Angels are reckoned according to the four faculties, of heavenly fouls, mind, reafon, imagination; namely, the vivificating and moving faculty. This is but a meer invention concerning Angels (as Wierus faith clearly) for it cannot be proved by reafon or experience, nor by divine or true humane authority. Indeed the first order of Angels is confonant to truth. For God as he is infinite in wifdome, and goodnefs, created all most infinite intellectual substances, to contemplate love and adore him : fome whereof he united to bodies, to propagate their kind, but some he defined by no materiall substance. Of these may be made the first order of spirits, but that they will have this to be the end for which they were made, that they might infuse to each order of the Heavenly spirits the light they receive from God; this is contrary to true Philosophy, and contains in it horrible Idolatry : for by this means they obtrude upon us the Gods of the Gentiles. Also if we shall deal but Philosophycally, we cafily defery the abfurdity of this opinion. For what rationall man will fay that the more Noble Creatures were made for the use of the more I mobile? But the Heavenly intelligences are more Ignoble than this first order of Angels? wherefore then should we maintain that the supercelestiall spirits were made for the use of the celestiall intelligences? The same reason will consute the celestiall intelligences? gences. For fince they are more Noble then we, and we then the Celestiall Spheres, it cannot appear that the Celestiall Intelligences were made for our take, and much less for the Heavenly Spheres. But I elsewhere treated of the Celestiall Soiries, where I showed that the opinions of the Philosophers are most absurd, who for this cause invented Celestiall Spirits, that they might restrain the power of the first matter, by

reason whereof all corporall things are corruptible, and that they might regulate the motions of the Spheres with a most switteeners. For these operations are exceeding farrefrom the nature of a Spirit, and the work is imperied that wants externall help; like a house ready to fall wanting a good foundation. But the other end for which Magicians fay, the Heavenly Intelligences were made, namely, That they may by their influences (as they term it) fupply the Inferior Angels; and so with their divers virtues, they may govern humane affairs, is no less contrary to found reason, then what I refuted before. For it we admit Celestiali influences, they are but naturall, nor are our fouls moved by them, but only fo farre as they are obnoxious to bodies. But who will fay that the effects of incorporeal! Spirits are natural? The lowest order of Spirits comprehends gardian Spirits, such as are alotted to our birth, and fuch as are the Rulers of humane actions according to the different polition of the Stars, shall we think any thing of this. Truly if the opinion of Altrologers be true, that we are obnoxious to good or bad fortune, to vices or virtues, as we are under the dominion of this at that Starre? yet I should never grant, that this is effected by the intermediation of the mundane Spirits, fince there is no Angell at all that is made subject to the actions of the Heavenly bodies : therefore since the differences ought to be taken from the substances of the things to be divided, that they may constitute true species; we cannot search out the true differences of Angels, for that their fubstances are more subtile, then to be comprehended by our understanding. But if that be true that some Philosophers hold, that some Angels are immortall and others mortall: From hence we may well make a difference, for what is mortall, cannot be of the same nature with what is immortall. But this is but a fained opinion of fomethat were ignorant of Philosophy, though voluminous Cardanus should press it. For all Angels in themselves are incorruptible as our fouls are, nor can they perish, unless by the same way they were made by the first cause they should be annihilated. But that the prime Caule will not have that to be, is proved by that very end for which the Angels were first created. For it is that which continually grows more and more periect. But the condition of corruptible things is, that they have their end alwaies without them, which in its fet time attains its perfection, which when it hath obtained the actions cease. The world of it felt might last unto eterniternity, but God will not have it so, because it was made only for this end, that a certain number of men might be born in it. The world will attain this end not by continuing to eternity, but in a fet time, as I shewed elsewhere at large : and then shall the actions of the world cease, and another world shall be substituted in the place of this, whose end shall be farre different from this. But the end of men and Angels is so that it is defined by no time, but is perfect by it self and shall never end, but may perpetually be more perfect. Moreover though the substance of Angels be unknown to us, yet we may draw forth their differences by their divers actions. For if the actions of Angels be different, their differences also may well appear to us. This is manifest by many mens experience, and by the Authority of Sacred Scripture, that fome Angels do good, and some do harme. Wherefore from hence we shall raise the differences, that Angels are distinguished by goodness and wickedness. But that this is a difference of Accident and not of Substance is evident from hence : because the evill that is in the wicked Angels, is no effect proceeding from God, but from the evill Angels themselves. Now that the Angels did not make themselves, I shall shew elsewhere, where I have demonstrated by many reasons, that this is the sole work of God. Yet because we can find out no difference more manifest, it may be tolerated. Wierus reports, that Divines have reckoned many orders of wicked Angels, that are opposite to nine degrees of good Angels. The first are called false Godr, who taking upon them the Name of Divine Majesty, will be adored for Gods, and honoured with Sacrifices and Adoration : as the the Devill did who tempted Christ, Mat. 4. Mark t. Luke 4. The second are lying spirits, As that was which entered into the Prophets of Abab, 2 Kings 11. This sort of Devils deal in Oracles, and delude men by divinations and predictions of Apollos Prophets. The third are the vessels of iniquity, which Devils are the Inventers of all mischievous and wicked Arts; as that

Devill Plate speaks of called Themm, who taught Men Cards and Dice, &c. called vessels of sury, Esai. 13. vessels of anger, Jerem. 50. vessels of death, Psal. 7. The fourth are Revengers of Evill. The first are Juggling Devils, who imitate Miracles and do service most to all such kind delusions, to deceive the people, Ecol. 39. The fixt Order are the powers of the Ayre, that intermingle with Thunders, Lightnings, and Tempests, corrupting the Aire, and producing plagues and other mischiess, Rev. 13. The seaventh Mansion is supplyed by Furies that sow all mischiess, Wars, discords, Rev. 7. The eighth are Accusers, and such as search men out. The last Tempers, and such as lay snares for men, who are supposed to be present to every man in particular, and are therefore called their evill Genius, Rev. 9. It is no doubt but the Devill attempts to destroy Mankind all the waies he can. Wherefore that he may enlarge his Kingdome, alluring many Millions of Men to him; it is very probable, that for this purpose certain Devils are appointed to certain Offices: otherwise one Devill can performe divers waies of deceptions. But because these things cannot be demonstrated by certain reasons, we need not speake any more of it. The same.

Of the Power of Angels. Chap. 4.

Our Souls are confined to our Bodies, whence it is that by our understanding only that is free, we can furpals this huge Mals of Celestiall and Elementary Bodies; nor can we operate more then our parts will admit : but the Angels are free from all bonds of Bodies, nor are they hindred by any Body be it never to thick, but they can move which way they please : fince therefore Angels are substances no way subject to this world, when they do any thing they are not tied to naturall meanes: for they have nothing contrary to nature, that they may be naturally affected by it, nor are there any substances by Nature that are their Superiours, that naturall things may work upon them, though they fuffer nothing by them, as the power is of Heavenly things over things here below. But that the power of Angels is limited, we may collect from hence, that doubtlefs the malignity of wicked Angels is so great, that if they could they would overthrow all Men and all the World. But I shall briefly shew that they are confined, though this be exceeding difficult, because in this point Men are of fundry opinions. For by infinite Histories almost of many Authours, fo many and so great forces of Magicians are recorded, as also daily experience evinceth, that the Devils may feem to be able to do what they lift. But others think the contrary, and that fuch things are meere delutions, which are afcribed to Magicians and Witches. I will not gain(ay, but the Devils do many miraculous things by Witchcraft, yet we cannot deny but that what they do is reall oft-times, as the examples after alledged concerning Incantation will make manifest. Wherefore though the Devils by reason of their sin committed were driven out from the society of good Angels, yet their forces were not taken from them, whilft their fubstance remains. They are then most mighty Spirits as they were at first: yet are they hindred two waies, so that they cannot do what they would. First as they are finite substances, again that which they can do they cannot do if God hinder them. For though we grant that the Devils can do any thing whatfoever, this must not be understood without bounds: for God can do what pleases, because none can hinder him. Logicians define that to be a propriety that belongs to a thing only and that alwaies, and to all of that kind. When therefore I cannot laugh because I am over sad, yet I have not lost my property to laugh: who doubts but the Devill can kill a Man, or steale from him the most Secret Treasures? who also doubts but that he would do it? Yet he doth it not because his power is restrained by One that is more powerfull. Now we must enquire what the Devils can do it God permit. A finite substance must needs have a finite power: fince therefore the Devils are finite fubstances, they must needs have a finite and determinate power. But it is determinated, not as ours is by naturall things, but by things not naturall; namely, by Negation and Privation. Which is thus to be understood; for by reason of Negation they cannot make any thing of nothing, and by reason of Privation they cannot alwaies make any thing of something, fince to make any thing of any thing is proper to an Infinite power, as it is to make

any

any of nothing. For a matter that confers nothing to produce such an effect is all one as nothing. Hence it is that many well deny that Devils can turn any Men into Wolves, of which matter I shall speake very soon after this. This therefore we may aver concerning the limited power of the Devils; namely, that they cannot make substances: neither without nor with meanes; for this is proper to nature, the first to God only. That Women may conceive by the Copulation of Devils, and Men be born thereof is a most absurd thing. For God hath granted this to Men alone. Although perhaps the Devill may Secretly stead from Man his seed, when he copulates with Women, yet that will nor profit for generation, because the force of it vanishes with Women, yet that will nor profit for generation, because the force of it vanishes fuddenly, so soon as it comes to the outward Ayre. Moreover the Devils cannot corrupt any substances without naturall meanes; for this is proper only to God. For this cause it may appear that the Devils have no power in Celestiall matters, because they can naturally do nothing upon them, unless they can change the position of the Stars: yet that they cannot do that, it is evident by this general Maxime, God bath given to every substance what sufficients to attinits end. But this makes nothing to prove that Devils can change Heavenly things. Of subscelestiall matters the reason is otherwise, upon which God would have naturall operations to prevaile, to cause a vicissification things. The same.

Of the Miracles done by the Devils. Chap. 5.

Now though the Devils power be limited that they cannot do what they will; yet by many Histories and experience it is proved, that ill spirits do work many strange things, which because we cannot finde out by any reason, they may very well be reckoned amongst miracles. It is true that by ignorance some things are called miracles, which are not to indeed, but in respect of other things, because they are done naturally. Yet we cannot say that all things the Devils doe, are done naturally : for fince they are, as we faid before, incorporeal substances, they perform their actions without naturall means. Hence it is that they can fee in the dark, and are moved exceeding (wifely, whether they pleafe, and are retarded by no denfity of bodies. They need no organs to speak with, as we do: as is clear by answers given by Oracles, and by those Magicians that speak in their bellies, called ventriloqui. Truly these things exceed our capacity, because they are not performed by naturall means. But there is another kind of miracles which the Devils practife by Conjurers and Witches: Of this fort are their works and predictions. These comprehend things past, present, and to come, which are faid to be foretold to ignorant people who know them not. And though the Devils are ignorant of many things, (for Divines fay that onely God knowes our hearts) nor do the Angels know when the Sonne of man comes to put an end to this life: yet Magicians use to foretell many things, which the very business, and future event makes good, to the great astonishment of many. The operations of Magicians are various, that may be reckoned amongst miracles, though many men by a too curious prefumption, endeavour, I know not by what reason, to ascribe all the power of the Devils to the force of nature. Wherefore I shall relate some things which I rather judg to be performed by miracle, than by any natural means. First, it is evident that Magicians are carried through the Ayre most swiftly, and so are Witches, and they will walk upon the water, as the Pirate Odde, who without any Ship went over the deep feas: also they produce hurtfull tempests. Some deny this stoutly, faying that the Devill is a perfect Astronomer, and observes tempests that are coming, and at that time he perswades the poor women, that by this or that means they shall believe they can produce rain or hail: yet the Devil is called Prince of the Ayre: nor doth it feem contrary to truth, if we should think that he can cause tempelts. For fince he can do many other things that are beyond our capacity, wherefore can he not do those things that are often done naturally? He cannot indeed make fubstances, as Isaid before: which yet must not be understood but with a condition; for he can make substances if he have naturall means. For the Devill can break the clouds, or carry them to some other place by great winds: also he can raise the waters, even where they may be turned into hail. By this and other means that we know not, Witches can raile tempelts by the Devils aide: yet God fuffering this to

医野馬馬斯斯 医阿里斯氏 医阿里斯氏

日本

8

punish Nations. Further, Magicians (under which title we comprehend all that use the Devils help) by jugling talcination, incantation and witcheraft, perform very many things. By talcination to delude the spectators eye, either to seem invisible, or elfe to refemble other strange bodies: hence your Necromancers are thought to call back Soules of dead Men from death into their Bodies again, such was the Witche of Endor, that at despairing Souls request called up Samuelt .: but by Witchcraft they cause many diseases, and they cure them sometimes by meanes unknown to us, or by meanes that is above our naturall capacity, and the Methodicall Art of Phylick. Thus Witches kill Children and divers Cattell, which we find by various experience, and by relation of others that are worthy to be believed. But if you will fay they are meere delutions of the Devill, whereby he makes foolifh Women mad that are entangled by him, that they believe they do those things that neither they, nor the Devill can do: if we can fo avoid it, we may as well deny any thing elle be it never fo evident. But as for diseases brought upon us, and the cure of them, it may be justly doubted whether they proceed naturally or not : because I faid before that the Devils cannot corrupt any substances, but they must use naturall meanes for it : for this belongs only to an infinite being, to do any thing without meanes. Now God hath appointed no meanes for generation and corruption of fubstances but what are naturall. Beetins in his History of Scotland, 1, 11 relates a History of King Duffin, which Cardan hath confuted foolifhly enough. Cardan and Wierw, will have that to be a lye, which they judge to be impossible : as that by Wax melted at the fire by Witches, King Duffus should fall into a Consumption, and so be killed. Who is so sortish as to thinke that this can be imputed to Wax melted at the fire? I shall speak afterwards what may be thought of the meanes used, in Magicall Arts. But here the question is whether the Devill could kill King Duffer with a Confumption by a preternatural meanes, namely by causes and Symptomes, which are preternaturall in respect of a Comsumption? King Duffus without any sign of Choler, Flegm, or any other noxious humour, or of his temperament hurt, was tormented in the night with perpetuall watchings, sweatings, and pains. The motion of his Pulles were good, the operations of his Senses were peried, and his Appetite was frequent; by which figns we are taught that it was no naturall disease. Yet for all this I do not believe it was a lye that is here written of Duffui : for the Devill can caule many diseases of the reasons whereof we are ignorant. Also he can do this or that being subtile, he can easily pass through all parts of the body, which he can bind, pull back, or torment otherwife : also he can hinder the operations of the naturall parts that are ordained to sustaine life necessarily, as I shall presently shew concerning the incantations of Magicians. Moreover by filthy stenches and other secret Poyfons unknown to us, he can infect our Lungs and other parts of our bodies, whence diseases arise preternaturally; yet he cannot corrupt the body but by natural meanes. For when a man is killed with a Sword, this death is properly corruption; but that is only then, when the dead Body is converted into another substance, or doth rot. gain some question whether the Devils can cure diseases they never made? some de-ny this; but their reasons are very weake or none at all. To confirm this, This Argument may have some weight, because the remedies of diseases must be contrary to the causes of them : nor can they be cured naturally, which have preternaturall caules: for by this reason it may seem to be proved, that diseases that arise from naturall caules, can only be diffolved by naturall meanes. But however we argue daily experience teacheth, that there are some Physicians, who by Magicall Arts, to Mens great aftonishment, will cure such diseases, that the Devils were never the cause of. But you will reply, they use naturall meanes for it? I cannot indeed deny that : yet sometimes they cure them without meanes; and fometimes they use meanes, which by the Devils influence, rather then by any naturall virtues in them, drive away the diseases. And though difeafes that come naturally must be cured by naturall meanes, yet the manner of Application, whereby naturall difeafes are cured by Devils, may be fuch as passeth our power. As for example, We know that a Gravell stone, that is greater then the urinary passage, must be broken, or else great force must be used to drive it

out. If neither of these can be done by reason of its greatness, hardness, or weak-ness of the Patient, by ordinary Remedies, Methodicall Physicians hold the disease incurable; yet Magicians will easily cure it by the Devils help: for being that he can pass through all parts of the body without hindrance, what can hinder, but that he may break the hardest stone? Thinke so of all the rest. But as I said the Devils power is limited, and that we shall now observe: for the Devils cannot cure all difeases alike, as I shall shew in few words. The cure of diseases is either naturall by alteration, or by generation : or violent, by taking away those things, that are preternaturall in the Body; or by restoring things dislocated; or divine, which changeth fubftances a supernaturall way. The Devill indeed by using natural meanes, that we know not of, and by violent cure, heales many difeates, that are incurable to us, But there is another way of cure that is proper to God alone, and to fuch as he is pleafed to grant the gift of it, of his especiall favour : as if any part were corrupt, dead, or cut off, the Devill can by no meanes cure that. There is a Magician in Helvetia, who boalts that he can as easily cure limbs broken in pieces, as if they were but lightly bruifed; but I believe it is but in a vain brag. Moreover thole things are exceeding flrange that Magicians do by Incantations, when they hinder the actions of naturall or animall bodies. As Fantus who would fo fasten the wide mouths of Country Clowns that were roaring when they were Drunk, that they would be as Mute as Fishes. So sometimes is the Act of venery hundred, and the fire is stopt that it cannot burn, blood is staid when one bleeds much. Animals as Moles, Serpents, Birds, are compelled : and the force of things, that wound, is hindred, that they can do no hurt. After the same manner are Merchants bound, and those that play for gaine, allo Thieves, Robbers, Thunderboits, &c. for mens fecurity; and many more like thefe, which wiers holds to be partly Fictions, partly but sports, that they must rather be referred to delutions, or wicked cruelty, then to reall miracles. But I fear least that whilit we will not be credulous, we shall not escape the fault of incredulity. The fame.

#### BOOK, III.

In the precedent Books I have briefly spoken concerning God, Man, Nature, and Angels; and after such a manner that I have expounded Scerets in them all, which our under-standing may reach to by contemplation, but not by externall operation. But now since reason requires in order, that we should treat of those things also, which are performed not by knowing, but by working, namely by cunning Art, that most men being ignorant of them, they may deservedly be accounted for Scorets. Therefore in this Book I shall speake of the principall parts of the world, the Heaven and the Elements; but in the following Books we shall handle things contained in them.

Of the Sun and Moon. Chap. 1.

The Sun by the driness of his own fire draws up moist substance. But the Moon moysteneth of it self, and so doth cause a convenient mixture and temperament about Her. Sotion cals the daies Moonless from the twenty ninth day of the Moon unto the second; others call them Interlunary and silent; at which time the Moon is hid under the Sun-Beames, and Shee doth not appear to men. Protomy.

It is easie to guess at the fortune of of every year may be conseilured.

XIX.VIII.IV. and XXX. that went before, and compare them with the condition of the precedent year. For example. I would know what shall be the condition of the year 1554, beginning September 24. untill the year 1555, to the same day. First I consider the year 1542, and that year Itook a Journey for no reason, I had a Son, I was unhappy in my gain, and it was my own fault. Not that many did not seek after me: I put forth some things: wherefore now that I have no Wise all the rest will answer in proportion. Likewise I consider the year 1535, wherein I was most unhappy as ever I was

DO

in my life : forrowfull, penfive, fearfull, and my gain's fmall, and fo I will compare this year to the year 1553. as I do the year 1535. to the year 1534. in which I was happy enough. I will do the same with the year 1546. wherein I gain'd well, but I had very much grief and oppression: likewise I will referre my self to the year 1550. wherein also I had great woe : and so that the year 1524. wherein at the end of the year I had honour with contention, without profit, and with great grief. Now the cause of these things is XII. because Jupiter returns to the same place on the day of my Nativity, and the order of the twelve fignes is compleated in the progress : and Prolomy afcribes very much to this return; nor is it probable that he would have afcribed fo much to this revolution of the principall places, unless he had approved it by many experiments; wherefore this circumvolution is the most potent, and it fignifies for life, honours, and riches, and of the Magistrates. Principally XIX. is, because the Moon returns almost to the same place, and sometime also Mars, and therefore it fignifies the state of the body, journies, and fortune, and the qualities of the mind and fenies. In the eighth year Venus returns to her place, therefore it fignifies Joys, Gifts, Sons, conversation amongst Women almost like to that I faid, comparing it still to the condition of the precedent year : for nor shall a blind man fee, nor a poor man grow rich; but all things must be measured by proportion. In the fourth year places past return to their trigonall, which also fals out in the eighth year : and therefore the fourth is the weaker; and in this progress also by reason of the Suns motion, the alcendent and the culps return to the fame place; therefore fuch years have very great similitude with their correspondents in all things : yet not so exquifite as the eight, and much less as the twelf. But in the XXX. year Saturn returns to his place, wherefore it fignifies the same actions in labour, and adorning things conflant : but this similitude is very small by reason of the change of Ages. Yet these things are not alwaies true, but as all other rules are concerning naturall things, and fo much the rather, because directions disturb all those orders. But directions figurifie but only one thing, nor do they break it off, unless it be the order of two years, but not of the reft. Cardanus.

How we may fee the Stars in the day. It is clear to all men, that a small light being neare to a greater and more excellent, doth vanish. If you hold a Torch or great flame against the bright Sunne, it will go out and fade away. The Stars are hid in the day time by the Suns over great fhining brightness, though they fine equally day and night; wherefore they that would fee them do not want a means. At noon day when the Sun is eclipfed, and the earth is very dark, and the light doth not offend our eyes, the Stars may be feen all over the Heavens. Thueidides faith it fell out so in his time, and so it hath often been in our times. And our eyes are not only cleared by a great darkness, but are also hurt; as we read of Xenophons Souldiers, and of Dionyfius King of Sicily, who blinded men in dark prisons by a most clear light. For since that our eye-sight cannot stand against the Sun nor endure it, it is prefently over-aw'd : So that they who would look any way, prefently reach forth their hands to their clothes or some other defence. Here we begin. He that defires to fee the Stars, as we are taught by Galen and Philoponiu, must go down into some very deep pit, or some such place, that by reason of the darkness of it, and the great space therein, he may look upon the clear Heavens, and not clouded, without any dammage to his eyes, and without winking he may secretly see the clear thining Stars. For the great darkness in such places do congregate the visive spirits as in the night, and will not let them be disperfed with too great light: yet you shall not adventure this when the Sun is in the Meridian, for the great light will hinder you; and the lower you defcend, the clearer and fooner shall you see them, otherwise

If any man be let down into a deep den and dark, he shall see a Candle burning in the Sun, yet that will not be presently seen, because the greater light of the Sun keeps it off, though the Candle be never so bright. So I have found men of great Authority, and have heard and read of many that have been deceived. If they cannot see the Stars in the day, they go about to find them thus; They put a Looking-glass in

the water, and when the Sun is in the meridian, they think they behold the fixed Stars in the Heavens, and they shew them unto others. For the perpendicular beams of the Sun falling upon the superficies of the water, strike upon the glass obliquely, and are reverberated from each superficies to the eyes of the beholder, if he be rightly placed, and they represent the figure of the Sun: but the beams striking the water aslant, and therefore being refracted, strike upon the glass and the fight: It will appear of the same figure and smaller, by reason of the retraction of the thicker medium, and you will think you see a Star that followes the body of the Sun, which appears in dark places: wherefore many suppose that is Morenty, because it departs a little from the body of the Sun, and they alwaies see it follow him. Some make haste to see the Dog-Star in Summer, but if you give little credit to demonstration, but you believe sense and experience more; seek for the true place of it in the equinoctiall, and you shall not find alwaies the same distance, so that sometimes the Stars seem to be farther off, and sometimes nearer; but in the glass it alwaies shewes the same distance if you set it equally: yet I deny not but by such a help, the Sun rising or setting, but also at noon, may be seen more streely: I say nothing of Eclipses: For since our weak eyes cannot, being neer, see the Sun that is so bright; by this means you may see it clearly, without any offence, as in a cave, and so you may do with a black cloth or paper, with a hole in it. Porta of Naural Magick.

#### Of Fire. Chap. 11.

A Candle not to be extinguished.

You shall make a Candle not to be put out thus: Fill a Candle with powder of Brimstone and linnen clouts broken very small; then cover all over with wax, and set it on fire, it will not be put out with much wind or blowing. Moreover it you make a Candle of cotton with wax one pound, and two ounces of quick brimstone, and as much quick lime, adding thereto an ounce of oyl of Nuts, and you put this into the water so soon as the lime begins to fire, it will set on fire the other ingredients even in the midst of the water.

Anten. Mizaldus Lib, arean. Mirabil.

A Candle burning under water.

Provide a long veffell and pretty large, put a piece of wood to the mouth for the Candle to fland upon unmoved when it is lighted, and turning the bottom upwards the light may flrike to the bottom; so you may dip it totally into the water, nor will the water come into it, being it is full of ayre, and it will burn under water much according as the veffell is large.

A wonderfull Candle.

Men say that if you take one part of Salepeter, and add to it Frankincense, common Oyl and Milk of Spurge, a sist part of each, a tenth of Brimstone, of Wax half, and shall make a Candle, it will be wonderfull for heat, smell, noyse and motion. Others there be that sill half an egge shell of Marigold flowers, and they put one part of Gunpowder upon it, and close it in wax, and they put this into most cold water, for oft-times the fire kindles and the slame shines forth. Cardanus de Varietate.

Torches not to be blown out with wind.

Men boyl their wicks in Saltpeter and water, and drying them, they wet them in Brimstone and Strongwater, and with this mixture they make Candles: for it confists of Brimstone, Camphire, and Rosin of Turpentine one half, Colophonia two yasts, Wax three parts, so they make four Candles: they put them together, and in the middle they cast in live brimstone, and it will the more forcibly resist all things. If you cover a Candle over with Snow, and set it in fire, the Candle will seem to burn in the Snow. Alexius.

There are many wonderfull things, but yet when you know the cause you admire no more: As if Brimstone be equally dissolved with Wax is becomes unexcinguishable; but the Brimstone must be very pure. Likewise if a Candle be smeared over with powder of Brimstone and Charcoal, and dipt all into the water in winter, and the upper part of it be covered with Paper, and be hanged where a drop talls with Ice,

から

如

Bon vice and Constitution of the state of th

it will be compassed round with a thicker lee; if you light it it will burn, and to the great wonder of many the Ice will seem to burn. Gard. de Subrilitat.

Water is wont to inflame vehement Fires, because the most tree that exhales is made more fat, nor is it extinguished by the smoke that surrounds it, but the fire feeds on it all; whereby being made more pure, and recollected, it burns the brighter for the cold water: hence it is that some fires are kindled and enflamed by water. The matter of them is Ship and Greek Pitch, Brimstone, Lees of Wine, called Tartar, Sarcocolla, Saltpeter, Oyle of Peter. This was attributed to Marcus Gracebus. Wherefore quick Lime is added, a twofold part, and they are all mingled equally with yelks of leggs, and are buried in Horse dung.

Take Oyle of Brimstone, of Peter, of Juniper, and of Saltpeter, equall parts, black Pitch, Goose and Ducks Grease, Doves Dung, liquid Vernice, of each alike as before, of Alphaltum five parts, mingle them all with Strongwater and bury them in Horse Dung.

Take liquid Vernice, Oyle of Brimstome, of Juniper, of Lineseed, of Peter, Gumme of the Larch tree, of each equall parts, of Strongwater three parts and a half, of Saltpeter, dry Bay wood powdred as much as shall suffice, that being all mingled together, they may be as thick as Clay; put all these in a glass Vessell, and bury them three Moneths in Horse Dung, if therefore balls of these stick to Wood, they will take fire of themselves when it Rains: yet this doth not alwaies fall out so. But this is certain, that once being lighted, no water will put them out. But a powder that easily takes fire, and the stame of it doth burn most vehemently, is made of Gunpowder, and third part of Brimstone and Greek-Pitch. Card. de Subril.

That nothing may be burnt in Fire.

If you take like parts of Isinglass and Alum and mingle them together, and powre Vinegar upon them, whatever you smeere with that mixture and cast it into the fire it will not burn: and if you annoint your hands with marsh-Mallows pownded with whites of Eggs, and strew Allum upon it, you may handle fire without being hurt.

Albert. Mag.

But especially when it is in the Meridian, and in those Countries where the Sun is very hot or about the rising of the Dog-star, nor doth it proceed but by a composition of things that are easie to take fire: and you must be very carefull in making of it, and it is after this manner: provide Camphry, then Oyle of live Brimstone, of Rosin, of Turpentine, of Juniper, and yelks of Eggs, liquid Pitch, Colophonia powdred, Saltpeter, and twice as much of Strongwater as all the rest, a little Arsenick, and Tartar; pound and mingle all these together, and put them close up in a glass Vessell; and this must remain two Moneths covered close in Horsedung, alwaies renewing the Dung, and mingling them together, and water must be drawn forth of the same Vessell as I shall shew you: this must be thickned either with our Powder or with Pigeons Dung, and besmeer Wood finely sisted, that it may be like to Pap, or some other combustible matters, and use it in the heat of Summer. All these things are imputed to Mareus Gracebus. Pigeons Dung retains a mighty force to burn. Galemus reports, that in Mysis, which is a part of Asia, a House was thus set on fire. Pigeons Dung was cast forth where it touched a Window that was neare it, and touched the Wood of it that was newly annoynted with Rosin, this being corrupted, and hot, and sending forth vapours at Midsummer when the Sun was at the highest and shined much upon it, it set on fire the Rosin and the Window, and so other Doors annoynted with Rosin took fire, and began to send up the same to the House: and so some as the fire took hold of the Roos, the whole House was quickly burnt down, because it had a mighty force to set things on fire. The same.

Torches that cannot be put out with winds.

Torches are made for Journies, that cannot be put out by winds; which proceeds from

from the Brimstone, for it is hardly put out when it takes flame : Hence it is that Torches I meered with Wax and Brimstone are carried in Winds and Tempests, and will not be extinguished. But for Souldiers to March with, or to carry other things needfull they use fuch a one : They boyle their Weeks in Saltpeter and water, and drying them, they wet them in Brimstone and strong Water, then they make Candies with this mixture : It confifts of Brimstone, of Camphrie, and Turpentine, Rosin one halt, Colophonia two parts, Wax three parts: they make fourc Candles and put them together, or they put live Brimstone between them, and so it will refift the more floutly. The fame.

That one may not be burnt with fire.

Belbinnus faith, when you take the white of an Egge and Allum, and beforeere a Cloth with it, and you wash it with Salt-water, and dry it, no fire will burn it. Another saith, Take red Arsnick and Allum, and grind them, and mingle them with the juyce of Howfleek and Buls Gall, and annoint your hands with it, if you take up a red hot Iron it will not burn you. Also if you take of the Loadestone, Itching Powder, the Huckle Bone of a Ram, strong Vinegar, Marsh-Mallows, beate them well together, and annoint your hands with it, no fire will burn them. Albertus Magnus.

A wonderfull Lamp, wherein appear things terrible, in quantity, having a Rod in the hand, it will fright a Man.

Take a green Frog, and cut the head off upon a Cloath of green for Funerals, wet it with Oyle of Elder, and put in some Touch wood, light this in a green Lamp, and you shall see a black Statue in whose hands there shall be a Lamp, it is wonderfull, Albertus.

A mixture of fire that will burn under water.

First provide Gunpowder that is used for Warre, from whence as it were from a burning noise, these Guns are called Bombards; this powder is an ingredient of all these compositions, and is the Basis and ground work of them all: Adde to this a third part of Colophonia, a fourth part of common Oyle of Olives, a fixt part of Brimstone, mingle them well: when they are all dried, try them. If it burn more violently then you would have it, adde a little more Colophonia and Brimstone, but if too weakly, adde a little more Gunpowder, wrap this mixture in Straw and Linnen Cloaths, or in Coffins made of them as hard as you can, then bound about with Cords and Bands, dip all in boyling Pitch, and dry it well, then cover it again with Straw, Imeer it with Pitch to keep it from wet, that it may not break out by force of the fire : when they are well dried in the Sun, leaving a little hole through, put fire to it, and when it begins to burn ftay a little while, then cast it into the Water and it will not be put out by it : but sometimes it will go to the bottome, fometime is mounting to the top, and turns up and down in it. Nor is it amiss to put fome Oyle of Peter to them : for it is a most violent fire, and being feen afar off, it will make it leap up and down, as the Loadestone doth Iron, and it burns, and will along time hold fire in the Water; for Artists have borrowed this from nature; nor can any other reason be given for Baths that boyle continually, but because they are bituminous and burnt inwardly, and are fed with Water that caufeth them to boyl alwaies. Warlike Engines are often fild with these compositions, whence it is that they will cast fire Balls afar off and break; which they prepare thus. They wrap this powder in hards, and they smeer it over with the foresaid mixture, and fold them in, and they fill hollow Engines with the Powdet and Bullets, the compofition frewd in by turns, and putting fire to it, they cast fire Balls amongst their Enemies companies, which is instead of Oyle, and burns more seriously. Some put in Hogs Grease, Goole Grease, Brimstone that never came at the fire, which the Greeks call ames. Oyle of Brimstone, and biluminous Saltpeter oftimes purged, burning-Water, Turpentine, liquid Pitch, which all men call Kira, commonly called lipuid Vernice, Oyle of yelks of Eggs, and fornetimes to adde weight to these and to thicken all the moift ingredients, they mingle some powder of Bay Tree with them, all being shut up in a glazed Vessell, hide them all under Dung for two or

three Moneths, every other ten daies renewing the Dung, and mingling all again, taking out the composition, if it begins to burn when you put fire to it, it will never go out, till it be all consumed: no Water will extinguish it, but will make it burn the more: but it will be choaked with Clay, Earth, Dust, and with all dry things: if you cast it on a Helmet, Buckler, or Armed Men, it will make them red hot that they must be burnt if they do not forthwith put them off. I shall shew you another that is more violent: Take Turpentine, liquid Pitch, and Vernice, adde Pitch, Frankinsence and Camphrie the most parts, live Brimstone a third part and half, Saltpeter purged two parts, burning Water three parts, and as much of Oyle of Peter, but adde some powder of Willow, and a little Charcoale; mingle these together, and make round Balls, or fill earthen Pots with them. It will burn, so that it is in vain to go about to extinguish it, The fame.

Food for fire. Food that upon the smallest cause will take fire, (they commonly call it fire food,) is made thus. Let the greatest Spongs of Trees be exactly cleanled from the wooddy. part, and boyling them a long time in Lye, let them be well dryed, to every pound of them, adde Brimstone two ounces, Saltpeter half an ounce; and so boyle them in the Lye untill the Lye be consumed, then dry them in the Sun, sprinkle them with Aqua vita, (some call it burning Water) then dry them again: the oftner you do it, the better they will be, they are kept either in Frankinscence or com-mon Sandarach. Another that is far easier to make, but it will not take so soon, thought it will do much. Burn lightly Cotton, Linnen, especially black, and whilst they burn, extinguish the fire, and keep them. Cardan de varietate.

Things that attract fire.

Heraelitus faid that all things were performed by discord and concord, so Naphtha attracts fire, and it leaps forth to it wherefoever it feeles it : fo the root of the Herb Aproxis attracts fire as Naphtha doth. Cornel, Agrippa de Occult. Philosoph.

To light a fire by the Sun. Fire may be eafily kindled by a round Viol of Glassfull of water fet unmoved against the Sun. For when it is directly set against the Sun, lay behind the Viol some combustible matter in the line that passeth through the Viol, it will greatly take fire from the beames of the Sun, multiplied and condented, to the admiration of the beholders, to see fire railed by water. The same.

If you will make the Image of a Man or any other, that shall fire being put into the water, and it it be extinguished shall be less; Take quick Lime, mingle it with some Wax and Oyle of Selamum and Naphtha, that is with white Earth and Brimstone, and make an Image of it: for when you shall put water to it, the fire will kindle. Albertus.

Fire that is kindled with Spittle, that is of great use for Thieves and Pilserers.

Take Oyl of Brimstone, of the Larch-tree, of Cedar, liquid Pitch; of each sixteen Ounces: Saltpeter sixteen Ounces: Salt-Armoniac, Vitriol, Tartar calcined: of each eight Drams: Quick-Lime made of River-Pebbles: Loadstone calcined; of each five Ounces: Sheeps-Suet, Ducks-Greafe; of each fix Ounces. Cover all these with Aqua-vitæ, and for three Moneths bury them in Horse-dung. Every fourth day shake them; then boyl them at the fire, untill the Liquor begone, and the Feces remain. Break that Veilel, take it forth and powder it. If this Powder be strewed on any thing, and water be powred upon it, it takes fire and burns. Sea-

To provide a Wick shall not consume. Cut Allum de Plume, like to a Wick; put that into Oyl, and it will never be confumed. Noftradame.

A Stone that yeelds fire by rubbing it. Take Styrax Calamita, Brimstone, Quick-Lime, Pitch; of each three Drams: Camphire one Dram: Afphaltum three Drams: powder them and put them into an earthen Veffel well closed, fet them by the fire, untill they turn to a stone; which being rubbed with any Cloth, will kindle, and it will be extinguished with Spittle. Ruscellus.

A Candle which the wind cannot blow out.

Take a Wick, wrap it in Quick-Brimstone powdred in a linnen Cloth: Then with Wax make a Candle, once lighted it will never go out, fo long as any of it re-

Take liquid Pitch, Juniper-Gum, Oyl of Turpentine, Oyl of Bitumen, Oyl of Brimstone, Oyl of Saltpeter, Oyl of Yelks of Egges, Oyl of Bays, of each fix parts: Powder of dry Laurel, Camphire; of each foked in Aqua vitz fourteen parts : Saltpeter the weight of them all. Put them into a glafed Veffel with a narrow mouth, well luted, and ftop it well: Hide them in Horfe dung fix Moneths; every fourth day shake them, then diftill them in a Scraphine. Scaliger. Another.

Take the Dregs of the Larch-tree-gum, Turpentine, which remains after the Oyl is diffilled, of Oyl of the same liquid Pitch, Pitch of the Cedar, Camphire, Bitumen, Mummy, new Wax, Ducks Grease, Pidgeons dung, Oyl of live Brimstone, Oyl of Juniper, Oyl of Bays, of Lin-seed, of Hemp-seed; of each five pound: Oyl of Peter, of Bricks, of Yelks of Egges; of each three pound: Saltpeter, ten pound; Salt-Armoniac, seven Ounces. Let all these be so wet with Aqua vita, that they may be covered with it; then bury them in Horse-dung, and every third day renew the heap. After this draw out the spirit in a Seraphine, you shall thicken this with the finest Powder of Oxe-dung. The tawny Moore fings miracles of this, that it will fire even by the Sunne-beames, and yet the Vessel it is in will not burn; but onely putting Piss or Vinegar upon it, you may put it out, or choak it casting earth upon it. It will burn constantly in water and not be extinguished; for it will not yeeld at all to it. Now a dayes, they put these fires into Vessels, and cast them amongst the Enemies. The Antients called that kind of Veffel, Andr. G. Scaliger. A fire that cannot be extinguished.

Take Vernish wherewith Hides are guilded, ten pound: Quick-Brimstone, sour pound : Oyl of Rosin, two pound : Saltpeter, one pound and an half : Frankincense, one pound: Camphire, fix Onnces: of the best Aqua vita, sourteen Ounces. Mingle them all well at a gentle fire, and make a mixture, wherewith hards being wet, and put into earthen pots, and fired, will make a fire not to be put out, whitherfoever they are cast. Fiorovantus.

A fire not to be extinguished; Take of the Vernish aforefaid twelve pound: Oyl of Rosin, Oyl of Wax, of each one pound: Oyl of Turpentine, eight Ounces: Quick-Brimstone, two pound: Salt peter, four pound, Camphire, one pound: Aqua vita, two pound: Greek Pitch powdred, three pound. Mingle them all at a gentle fire, and make a mixture. Fioravantus.

To fee a fire out of a Cup full of a ater. Take a Hen Egg, take forth both the White and the Yelk, and fill it with the powder following. Take Quick-Brimstone, Quick-Lime, of each what is sufficient; powder them, and put them into the faid Egg-shell, stop the hole with Wax; when you would fee fire in it, put it into a cup full of water. Fallopius.

To See fire under Water. In home Take Quick-Lime, Quick-Brimstone, of each what may suffice: Oyl of Peter, of Wax, of each a little. Mingle them, and put them into the Water. Fullepins.

Take Matth-mallows what is sufficient, mingle it with the white of an Egg, annoynt your hands with it, when they are dry you may handle fire. Fallopius.

Put a Loadstone into an earthen Pot, or some such Vessel covered with Quick-Lime,

When the Vessel is full, lute it with fullers earth with a hole for vent, and so put it into the furnace untill it be baked: then take it out and cast it into an earthen pot, lute it again with clay and put it into the furnace, doing so by turns untill it be white as show, and put a dew upon it: when you have occasion, with Spittle or Water it will raise a flame: when that is out, hide it in a hot place for your use. The same Another way to do it.

If you adde of Quick-Brimstone and Saltpeter, purged the like weight, Camphire twice as much to Quick-Lime, and beat all in a Morter till they be very fine, that they may fly into the air, then bind them all fast in a linnen cloth, and put them into an earthen Vessel that is luted with Potters earth, and dry them in the Sunne, and put them into a surnace: when they are well baked in the Potters Vessel, wherein lies the greatest diligence to be used they will become hard as a stone, you

may take them out for your ulc. The fame. Otherwise.

Take the Calx of the foresaid Loadstone, Saltpeter often purged four times as much, Camphire the like quantity, Quick-Brimstone that never came at the fire; and Oyl of Turpentine, and the congeled dregs of Wine, which we shall alwayes hereaster call Tartar: Pound or grinde all these with a Mill or Pettle, and sift them, what remains unbroken, pound again and sift it. Moreover you must have Aquavoirs ready, and you must pour that in, that it rise higher then the rest: Put all into a glassed Vessel, and cover it that it breath not out: Put it under Horse-dung for two or three Moneths, renewing it every tenth day, untill it become as thick as honey, and you see no difference in it; then let it heat at a strong coal fire, untill all the moysture evaporate, and it be dried throughly to a stone: When you know this, break the Vessel, and take it out and powder it again; if a little water or moyssure be poured upon it, it will presently stame: And of all the rest, this is the principal way. The same.

Of one Ounce. Take of Charcoal, Saltpeter, and Gunpowder, of each an Ounce and a half, being well mingled together.

Of two Ounces, Gunpowder, tour Ounces and a half, Saltpeter, one Ounce,

of four Ounces. Guppowder, four pounds, Saltpeter, one pound, Charcoal,

four Ounces, all mixt together.

Charcoal, four Ounces; Brimstone, half an Ounce, all well mixt together.

Of five or fix Ounces. Of Gunpowder, two pound five Ounces; of Saltpeter, half a pound; of Charcoal, fix Ounces, of Brimstone and Iron scales, two Ounces, of each all well mixt.

Often or twelve Ounces. Gunpowder, one pound one Ounce; Saltpeter, four Ounces, of Brimstone, three Ounces and a half; Charcoal, one Ounce, mingle them well.

Of a pound or two. Of Gunpowder, twenty Ounces; Saltpeter or Charcoal three Ounces, of scales of Iron and Quick-Brimstone, each one Ounce, mingled all together.

You must provide a mould of well scasoned Wood, or Brasse almost seven Inches, in length equal, turned and exactly hollow; as also a Stopple or Former to roal the Paper upon, very smooth, not exceeding three quarters of an Inch, diameter: Make your Cossin, of Paper, Parchment, or strong Canvas: Roal it very hard upon your Roaler so often, till it will go very stiff into the body of the Former, and with a piece of sine Packthread tie it within half an Inch, and chalk the Cossin first, dipping it into sair Water, so that it may be throughly wet when it is chok't: Thrust it into the body of the Former, with the Roaler in it.

Take

Take one pound of Saltperer, of Gunpowder and Brimstoneeach half an ounce, which being mixe together with a quantity of Oyle of Peter, roule it into little Balls, and use it as occasion serves.

Dissolve one ounce and a half of Camphrie in a quarter of a Pint of Aquavita, dip in Bumbafte Cotton into it, role it up in small Balls and use it.

To make strange Apparitions in the Ayre.

Provide Gum Dragon and put it into an Iron Pan and roft it in the Embers, beate it into powder, and diffolve it into Aqua vita, till it becomes a Jelly, then straine it, as also dissolve Camphire in other Aqua vita, mix these together, and sprinkle it with this following Composition. Take of Brimstone half a Pound, Saltpeter one pound, Charcole half a pound; after they are well stird together, mingle them with the foresaid, make all up into little Balls and roul them in Gunpowder dust.

To make Serpents. Roule strong Paper nine or ten times about a Goofe Quill or a Roaler about four Inches long, Chalke it almost in the midst, fill it with the Composition for Rockets, the shorter end fill with whole Gunpowder.

All Gunpowder is made of these Ingredients Saltpeter is the soul of it, Sulphur the life: it is incorporated with Vinegar and Aqua vita: if you would choose the best, you shall know it, 1. if it be brought and incline to a blewish colour, 2. if when you handle it is dry and leaves little moisture behind, 3. if it being fired flash quickly and leave no dregs behind it.

A flying fire.

Take one pound of Brimstone, eleaven pounds of Coales of Willow Tree, fix pounds of Salt-Peter, these three must be most finely powdred in a stone Morter, afterwards at your pleafure put some of it in a Coffin of Paper to flye, or to make Crackers. Alb.

That fire may be bindled with a round Crystall.

It a little Globe perfectly round, or a plain Glafs be provided, as a fmall Lookingglals, and be fet a little opposite to the Sun, it will burn behind it, uniting the Beames together on the contrary fide: for you must so long remove the matter that must take fire, either nearer to it, or further off, untill you find the Cone of the Beames reflexed; then stay awhile and the fire will shine. And thence we shall wonder more if there appear a small part of a great circle. Physicians say that a Fontanell cannot be better made upon any part of the body, then by a Crystall Ball set against the Sun Beames. The Same.

To light many Candles with one Wick.

You shall light many Candles with one Wick, if you first wet in water, and imeer them over with Brimstone and Orpiment dissolved in Oyle; but they must be both purified, for nothing takes fire from a small or very little fire unless it be first wet in Water. Cardan, de varietat. rerum.

Woods that take fire by rubbing.

The woods that take fire by rubbing, are those that are most hor, as the Laurell, purging Thorn, the Holm, the Tell tree. Menefler adds the Mulberry, and this is conjectured because it presently blunts and takes off the edge of a Hatchet : of all thele they make Augres, that in penetrating they may the better hold out, and may more forcibly performe the work; but the receiver is made of fost wood, as Ivye, Canes, Briony, and fuch like being dried, and free from all moisture. But thele are the worst for fire to be produced, and are rejected, that grow in shady and secret places. And this is the best way to do it, nor do I thinke it materiall whether you rub Bay Boughs against Bay Boughs, or else with Ivye pilled, or a Cane against a Cane, and which is better to do it, with a Cord to move it, quickly and strongly, and when it begins to smooke, to cast a little Brimstone upon it to feed it, or some dry Spunge or Touch-wood, of the Blades that fpring forth, found about the roots of Coltsfoot: for they will the fooner take fire and hold it. Of things that proture fire, Oyls are rejected

## Secrets of Artificiall Fire and Fireworks. Book III.

as unfit, because the matter is too fat and moist. The same.

How to get fire from Amber.

Some fay that Amber when you rub it much, and blow on it with a paire of Bellows toward a Lamp, a great fire flames from it, and it will be burnt up with it, and yet not touched. Albert Magnus.

To take fire in your hand.

If you carry fire in your hand, that it shall not hurt you, take Quick-lime distolved in hot Bean water, and a little Madrumlis, and a little Marsh-Mallows, and mingle that with it well, then annoint your hands in the Palme with that and dry them, put fire into them, and it will not hurt you. Albert. Magnus.

When that you would have one feem to be all on fire from head to foot, and yet not be hurt; take white Marsh-Mallows, mingle them with the white of an Egge, annoint your body therewith, and let it dry on: then annoint you with the white of an Egge, powder it all over with fine powder of Brimstone: the fire will burn upon it and do no hurt, and if you do it on the Palme of yoru hand, you may hold fire lately. Albertus.

When you have smeered your self with the foresaid mixture, let it dry, and strew on fine powdred Brimftone, put a flame to it, when it begins to burn you will feem to be all on fire. If Brimstone do not please you, sprinkle you with Aqua vita that I speak of, put fire to it, and you shall be pretty safe under it. The same.

To preserve any thing from fire that it (hall not burn.

Confider of things that being extremely cold, are stupefactive and subtile, and by reason of the connexion of their substance are not conquered by fire, as are the stone Amiantus, which some call stone Allum, Lime quenched, whites of Eggs, juyce of Marsh-Mallows, Henbane, slea Seed: these are mingled with juyces until they are like an Unguent, then Imeer your hands with them, and you may hold fire and receive no hurt : yet not so that you may handle them safely without fear, or walk through the fire. Of the stone Amianta, Napkins are Weaved, when they are foule cast them into the fire, so they are made clean again. The same.

If you will have any thing cast into the fire and not be burnt, Take Isinglass one part, and as much Allum; let them be well mingled, power on this wine Vinegar, and mingle with it what you pleafe : cast it into the fire, annoint with this mixtute,

and it will not burn. Albertus Magnus.

A Candle to fright a Man.

Take Linnen Cloath, white and new, and make a Garment of it, and put into it an Adders skin, and Bay-Salt, and blefs the Oyle of Olives, and give it to whom you please, when it is lighted, he will be frighted at it, and tremble exceedingly. The fame.

That Men may not burn in the Fire.

A wonderfull experiment that will make men pals through the fire without hurt, or to carry fire or red hot Iron not hurring their hands. Take the Juyce of Marsh-Mallows, and the white of an Egge, and Flea-feed, and Quick-Lime, and powder and mingle it with the white of an Egge, and the Juyce of a Reddish; with this mixture annoint your hands or body, and let it dry, after this you may boldly handle fire and not be hurt. The Same.

That Thred may not burn in the Fire.

Why a Thred tied about an Egge will not burn in burning Coales nor yet in the flame ? because there is no fire unless the heat come to the heighth: but it is alwaies kept back by the Egge that it cannot proceeding to farte : because the Egge cannot bu burnt : but what doth not burn, doth alwaies coole in some manner, that which is exceeding hot. Card. de Subrilitate.

Fire that is extinguished by Oyle, and is kindled by Water. Here we must consider those things that more easily kindled in the water, or burn

in the

there of their own accord, as Camphire and Quick-Lime. Therefore if you make a mixture of Wax, and Oyl of Peter and Brimstone, and it take fire; when you cast in Oyl or Mud, it will quench it, for it revives and makes the fire greater if you cast in Water. Torches are made of this composition, that will not be extinguished, if you pass over Rivers, or through great Rain. Livy reports, that some old Women in their sports, passed over Tyber with lighted Torches made of these things, that it was wonderfull to the beholders of it. The same.

You must have old, strong, and black Wine, put into it Quick-Lime, Tartar, Salt, Quick-Brimstone, and draw forth water in the glased chymical Vessels, this will burn wonderfully, nor will it leave burning till all be burnt, or but a very little lest; if you put it into a dish, or some Vessel with a large mouth, and put stame to it, it will presently take fire. If you cast it against a Wall, or out of a Window by night, you shall see the Air full of innumerable sparks, and all of a light fire. It will burn held in your hand, nor will it burn much: yet observe this, that if you distill it often, it will burn the less, for that Aqua-Vita hath contrary to Vineger. If you will have it to abound less with Flegm, when you distill it, put a spunge wet in water, to the mouth of the Vessel, and this will not let the Flegm pass through. The same.

That is done well by Colophonia, Frankincense, and Amber chiefly: for if it takes fire, it rifeth high, casting the flame far from it: If you will hold a Candle between your fingers, and in the palme of your hand powder finely beaten, when you

caft it, the powder will fly through the flame of the fire. The fame.

You shall make Greek Fire thus. Take Quick-Brimstone, Tartar, Sarcocolla, Oyl of Pirch, boyled Salt, Oyl of Peter, and common Oyl, make them boyl well, if you put any thing into it, it takes fire, be it Wood or Iron, and it will not be extinguished, unless by Piss, Vineger, or Sand, Albertus.

Sleeves of Mettall to melt the hardest things with Fire.

Vestels are made four Cubits long, or at least three, nine Inches broad, three sin-

Veffels are made four Cubits long, or at least three, nine Inches broad, three fingers thick, bending at the lower part, and framed also after the fashion of a Couch, without any bottom, of black Marble spotted with white spots: In the middle of the length there is a hole, and in that a pipe exactly placed, through which the wind of Bellows may be carried in: At the lower part there is a hole, by which the melted matter may descend: The neather part of the Vessel is stopt, leaving only (as I said) that little hole, with clay and coals pounded together, and made like plaister, and more clammy. These things thus ordered, from the forme are called metallick sleeves. They are filled within with the matter we would melt, and this fire shut in by turns with coals, hath a mighty force, and all things that melt not, must needs burn. There is no small convenience of the blast that the Bellows send in through the pipe. This sirst, as it is clear, kindles the fire, and raiseth the slame, and makes the sire penetrate the more vehemently. Moreover being cold, it constrains the heat that comes from the mettal, and drive h it inwardly, and so it dissolves the matter wherein it is. Moreover if any thing be melted, it keeps it from burning, and moderates the heat. Cardan. de subtilitate.

You that came with greediness to read these things, which bountiful and almost prodigal Nature liberally bestows upon mankind for use, which lye hid and close, and by this meanes provides to make a man innocent, (which truly is not to be despited) who shall out of her dark corners ingeniously search out of things, what their vertues are: For you have many things, that in dark nights will be seen and perceived. Aristotle hath shewed us many, and experience more, whether they be small creatures, of the kind of Insects, called Glow-worms; or sponges; heads and scales of Fishes: as of the Fish called Trickin, commonly Harenagus; so the Sea-Kite, called the candle, because the eyes of it shine in the night. The Scallops fins shine in the dark, and in the mouthes of those that eat them; so do the eyes of Wolves and Cats. Also in a Forrest in Germany, called Hereyma, there is a Bird to be seen, whose fea-

thers shine like fire, and by the light thereof, Travellers pass through those innumerable deferts, and govern their uncertain Journeys by means of them. And so it is with some kinds of Oysters, and most kinds of shel-Fish, or the Moss that grows upon them. Ælian speaks of the sea, and land Pianie, it had that name from its bright shining; and so are many Sea-Fishes called in Greek, Aglasphotides. I have often sea-Water tossed with the hand, to glitter like to sparks of fire. Josephus reports, that there is a Valley, wherein is a place called Barasa, called fo from a root of the same name, that shines like fire. So is Notifigretum, which Democritus so much wondred at. So the stock of very dry Oke, and rotten with mouldiness, will in the night shine like silver, and affect our light. The Carbuncle shines in the dark, illustrating the Air about it, according to the biguess of it. And there are many more things that shine in the night, as is proved by the authority of the most found Authors. But I must in order shew how a moysture may be extracted from thence, from which the light shall be spread more wide, and at greater distance, and that may be seen in the night. The example is this following. Glow-worms that shine with a fiery colour, are the chief of all: I cut off their tails from their bodies, and taking care that nothing elfe be mingled with the clear parts, bruifing and grinding them as a Saphire stone, for fifteen dayes or more Ibury it in a Dunghill, put all into a glass, and it is best that they touch not the sides, but may hang in it: When those days are over, I put the Vellel into a furnace, or a bath of hot water; and having fitted it, I receive by degrees the clean liquour that drops from it, into a dish underneath, and I put this into a clear crystall round ball. Let this shining water be hanged thus in the middle of a chamber, and it will lighten the Air about it, that you may read great letters in the night, but the light of it is to small that you cannot see it in the day. Like to this almost is the water that is diligently distilled from the scales of the foresaid Fishes, which I have often seen done, and it will not be known from the former almost, and the same way is evident to provide the rest, and we use them for such purposes. The fame.

You shall make burning water thus. TakeDragonwort which distill through a Limbeck, and water that will burn will come torth: Also mingle it with Wine, or what liquor you please, and it will burn if you put a light Candle near it. Albertus.

But fince there feem to be two ways to kindle fire by a Glass. The first is, that all beams falling upon the Center of the Glass, may be united in one point by reflection, this is performed by a round Concave Glass. The other way is, that all the beams equi-distant may be united, which proceed from the Sun into one point, which also is parabolical. There are extant concerning this, Books of Archimeder, where he shews burning Glasses that are made with a conical Section, and I find in Conrad. Gesner, that Fransciscus Maurolycius Messansensis, hath written of it. The business is thus, When a Superficies cuts a right Cone, and the dimetient of the Superficies is equi-distant to the side of the Triangle, that is described within the Superficies, that cuts the Cone through the Axis from the top. That Superficies is called a Parabole. Let it be ABC, whose right line falling from the top B, dividing AC, the right line under it into equal parts, and the crooked lines BA, and BC, likewise, BD, shall be called the dimetient, and AC, the diameter, the basis of the Cone is K, the middle between BD. If ay that HKL, hath alwayes the same proportion, to any perpendicular that comes from the side falling upon the dimetient, as is the proportion of the perpendicular to the part of the dimetient, intercepted between the top and the perpendicular. As let FG, be the perpendicular, therefore HL, shall have the same

proportion to F.G. as G.F. hath to G.B. and H.L. shall be called then the right side, and all the equi-distant lines from B.D. or beams shall restect upon K. now H.L. is alwayes four times as long as B.K. But if you would make a Glass that shall burn at a great distance, as Galen faith Archimedes made one that burnt the Galleys of the enemies. It is evident, that Glasses, when

ther they be taken from the Parabole, or from the Circle and Sphere, they must be

verv

ec.

22

i li \$ 15

12

北北

五日日

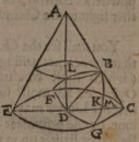
Œ

23

2

very great, that is they must be portions of the largest Spheres, or largest Cones, equal to Paraboles, yet not the largest of all. As for example, It I will burn a thouland Paces off, I must make a Circle whose Dimetient must be two Miles long, and of this I mult take fuch a portion that the roundnels may not be concealed, namely, a fixth part, to which I must adde a Dimetient for the depth at one end, and the Dimetient being fixed, I must carry about part of the Circle which shall deteribe to me part of the Sphere : and when I have polifhed this, it will being opposed against the Sun, kindle fire a great way, and that most violently for a thousand paces. But it is now not so needfull because of Warlike Ordinance and Guns : but of old it was the safest way. But the burning that proceeds from a Parabole is more forcible. And that is done thus. Let there be a place to be burnt a Mile off, I make B. K. of a thousand paces, to this I draw a right Line that is equall to it, K. D. but to B. D. I make from the Perpendicular a Line equall which is B.A. and on the other fide B.C. equall to B.A. and drawing D. A. and D. C. I make D. the Center of the Cones Base, and A. D.

the Axis, for the Angle A. D. C. is a right Angle, and I turn about A.C. that a Cone may be made, and a Circle may be described from the Line D.C. as the Semidiameter for the Cones Bafe, this I divide with two Lines, cutting themselves with the Diameter at right Angles, C. E. and F. G. in the Center D. Alfo it shall be that the point B. may discribe the circumference of a Circle about the Cone, which shall be K. B. Wherefore I draw a right Line frum the top of the Cone to Ex the end of one Diameter of the Bale, let it be C. where it cuts the circumference of the Circle, as in B. from that point I draw



ftraight Lines to the ends of the other Diameter, B. F. and B. G. wherefore the Superficies wherein is the Triangle B. F. G. where it cuts the Superficies of the Cone, it makes two oblique Lines, B. F. and B. G. which must be made of the best Steel that they may not bend, taking but a part, as B. L. and B. M. being equall, which are the fides of the Parabole. Then take a great lump of Plaister of Gyp N. greater in breadth then L. B. M. which you shall gently rub on the

top with a whetstone, untill the Parabole L.B. M. put into it, and turned about may touch in all parts, and may be turned without any impediment; which when you have accomplished, you shall fit a bright

Glafs to this lump, and shall make it Parabolicall, which being foiled with Lead on the backfide, which may reflect all Beames from the Sun equi-diffant, which are the most forcible upon the point K. that is at a Mile distance, and will presently burn. These things are plainly demonstrated by Archimedes, as also Antonius Gonzags hath brought it bus. Card. de Subtil.

That Fire may come forth of Water, Take an Egge-shell and put live Brimstone into it, and Quick-lime and thut the hole, and put it into water and it ftirs and moves, and if Camphire be put upon the water it kindles and burns in the water. Albertus Magnus.

That all things may be revealed in Sleep. A fume to fee when one fleep what good or evill shall befall. Take the congealed blood of an Afs, and the fat of a Wolf and Storax, mingle all thefe in equall weight, and make them up, and forme them into Pellets, and perfume a house with them, and then you shall see in your sleep one that shall tell you all things. The Jame.

A Candle when it is lighted, is stirred here and there. If you will make a Candle, or Wick, that being fired shall shake and go up and down Takethe kin of a Wolf and of a Dog, and make a Wick of them both, and burn them with Oyle of Olives, and it will prefently move. The fame.

A light to make one Fart. The Operation of this Lamp is wonderfull, which fo long as a man holds it, he shall not leave Farting untill he let it go: Take the blood of a Snaile and dry it in Linnen Cloath, and make a Candle with it, and light it, and give it to whom he please, and fay, be thou lighted : fo shall he not leave Farting till he let it go, which is wonderfull. Albertus.

To make a whole Company fall a Sneezing altogether.

Take Guiny Pepper a greater or lefter quantity according to the Company, wrap it in brown Paper and put it into the Fire, and it shall make all that are near fall a Sneezing. Ld. Bacon.

A Candle which being lighted where Frogs are, they shall make no noise, but all be quiet. Take the fat of a Crocodile, and make it up with Wax, white it in the Sun, and make a Candle of it, and light it in the place where Frogs are, and when they fee that they will prefently ceale crying. The fame.

A Candle that shews all manner of Colours.

A Glass Lamp very clear, and transparent, whatfoever it shines upon with its light, it will make them appear yellow, if Oyle next the Wick be sprinkled with powder of Saffron; of all other colours the same experiments holds, if there be no other light in the Chamber, Mizaldus.

A coloured Chamber.

You shall see the Chamber green thus: Let there be a green transparent Glass Lamp, that the beames paffing through may be coloured with the Mediums colour, and (which most conduceth to this purpose, let Verdigtease be mingled with the Oyle, or all moist substance it seedeth on, let them be well ground together, that the Liquor may be green; let the Wick be of Linnen or Cotten of the same colour, or elfe provident of Cotten smeered with it; Let it be burnt in that Lamp, the light that strikes upon what is against it, will shew all things green, as also the faces of the standers by. But it you defire to see all things black, mingle Inke or Sut therewithall or fome such matter: but the best is the Inke that comes forth of the Cuttle, for put to Candles if they be lighted the flame is black. So some say Anaxilaus made sport; for oft-times with Cuttles Inke he made the standers by like Blackmoors, and extream black. If you grind all yellow things, as Orpiment, Saffron, Lupins Rinds, and mingle them with Oyle, and light a Candle's Wick in it, with a yellow Lamp, all will appear yellow. If you defire to have it partly green, partly black, partly yellow, mingle all these together, as Simeon Sethi faith, if a mandip a Wick in Cuttles Inke, and Verdigreale, Men that stand about it will appear partly green, partly black, by reason of the mixture of things. But I thinke the greatest care must be to take all other lights away that they hinder not by their light, and the colour that comes from the Lamp be overcome by them, and fo the delufion should be frustrated: If it be in the day, thut the Windows, leaft any light coming in should make void the deceit. The Same.

That in a Palace all things may appear black. When you would have all things feem to be black in a Palace, Take froth of the Sea and Vitrioll, and mingle that with the Wicks, and wet the Candle with it, and

light the Lamp therewith. Albertus.

That Frogs may not Croke in the night by a Lamp. Albertus reports that if a Candle be made of the fat of a Dolphin, and Wax made white in the Sun, and then lighted and fer on the banks of Lakes, that all the Frogs will leave Croking. But Africanus speaks more naturally and certainly in his Geopomiche in Greck, that all that will be performed by a Candle: for if you light it and fet it there, all the Frogs will presently be filent. Impostors use to put a Frog in a hole boared in a Wall, and then they cover it with a Paper, and they paint a Crow upon it, lighting a Torch on the out fide, or putting fire by it. The Frog Waxing hot will Croke, that you will thinke it is a Crow, fo they shew you a Crow that cries. The fame.

That one lighting a Lamp may be afraid of it. Make Linnen Cloath of the Selvages, and in the middle let there be the cast Skin of a Snake, and let it be easily thrust into the skin, and put Salt to it, let some body be commanded to light this in Oyle: for when the Salt toucheth the fire, it will leap

away, the Snakes skin winds it felf strangely when it boyls, that it will make Children airaid; so if you light the skin of a Dog and a Wolf, or of a Woolf and a Sheep twifted together with Oyle, they will stirre, even then flying one from the other by an imbred antipathy. The Same.

That Men may feem to be without Heads.

When you would have Men in the house seem to be without Heads: Take yellow Brimstone with Oyle, and put it in a Lamp, and light it and set it in the midst amongst men and you shall see a wonder. Albertus.

That Men may feem to want Heads.

Take a Snakes skin, Orpiment and Greek Pitch, Rhapontic, and Wax of young Bees, and the blood of an Afs, grind all together, and put all into a new earthen Pot full of water, and let it boyle at a gentle fire; afterwards let it cool, and make a Wax Candle, and every one that is in the light of it will feem to want a Head. Albertus.

That standers by may seem to want Heads.

Let Orpiment finely powdred boyle in Oyle in a new earthen Pot : and it will not be amil's to put Brimitone to it, laying a cover upon it, that the yellow vapour may not flye away; light this in a new Lamp, and all that stand by will feem to want heads and hands: hold your eye close with your fingers, whilst you light the Candle, and you shall perceive by degrees how it is done. The fame.

That the standers by may feem to have Heads like to Horses or Asses.

You go about a very hard work: yet diligence in working will overcome the difficulty. Cut off a Horles or an Affes head, not when they are dead, leaft the virtue faile, and make an earthen Pot big enough to receive it, full of Oyle, and the fat of it, that it may fwim above it; thut the mouth of it, and ftop it fast with clay : put a gentle fire under, that the Oyle may boyle for three daies compleat, and the flesh fod may run to Oyle, and the bare Bones be feen. Beat it with a Peffle, and mingle dust with the Oyle, and with these annoint the heads of the standers by, likewise put in the middle of the Lamp some Wicks made of Hards, and let it stand not too neare, nor too far off, but as it is convenient for it, and you will feem to have a monstrous countenance. By these you may learn to make many more, for I have seemed to say enough, if you be diligent in them. Oyle drawn from a mans head newly cut off, will make Beafts feem with Mens faces. So with divers heads of Creature, you may make Monstrous bodies, if you make Lamps of them and light them to give light in the house; pray keep this for a Secret: for the Ancients keep these things close enough: nor can it easily be pickt out of their writings. Yet Anaxilans teacheth you otherwife, and not amify; you must take the venome that comes from Horses in copulation, and in new Lamps light the Candles made of it, and this will make Men feem Monsters with Horses heads, and the same is reported of Asses. So the matter that comes from Bores when they grunt after Sows, being preferved and put into a Lamp, when it is lighted will do the fame. So will the filth pickt out of the Ears or fecret parts of other Creatures do the like. If you shall burn that which we call Sperm, and annoint the Spectators faces with it, they will feem to have the head of those Creatures: keep this for a Secret. The fame.

That Men may feem to have Dogs Heads. Take the fat out of the Ear of a Dog, then put a little of it with new Cotton into a new Lamp of green Glass and let this Candle amongst Men, and they will all feem to

have Dogs heads. Albert. Mag.

That Men may frem to have the Heads of any other Creatures. Take Quick-Brimstone and Lithargyre, and these being powdered together, strew them into a Lamp that is full of Oyle, and a Candle must be made with Virgin-Wax which must be mingled with the fat of that Creature, whose head you would have one to appear to have; he holding this Candle lighted at the light of that Lamp; and give him tome Wine to drink with a good farewell, and they that drinke of it will feem to have the head of that Creature. Albertus.

That Men may feem to have three Heads.

Take the haires of a dead Als, and make a little Cord and dry it, take the Marrow of the principall bone of the right shoulder and mingle it with Virgin Wax, and an-noint the cord, and put it upon the Threshold of the house: they that come into the house shall have three heads, and they that are in the house will appear to be Asses to them that come in. Albert.

That a Mans Head may appear like an Asses Head. Take a piece of an Asses sat and annoint a Mans Head with it. Albertus.

A Candle that will make Men feem to have Horfes Heads or any other Creatures Heads. I have a long time thought much upon it, whether luch Secrets as these were unknown to the Ancients : or where those things are true which are spoken of them, and are promiled by Impostors; and I did not a little rejoyce when I found amongst the Ancients those that took great care of these things; especially Anaxilam, giving credit to Pliny affirming them: and I have not laboured a lit.le to find out thele matters to fill up our Hiftory; and it is not in vain to remember them, and to bring them to light, and to make experiment of them; let him that tries them first be well experienced in these, and so by degrees pass on to other things : and first let men be taught how all things may be feen. The fame.

You shall easily do it thus: Powre into a large Cup of Glass, Greek wine, cast Salt into it, a great handfull, fet it on burning coales that do not flame, left the Glass break, it will prefently begin to boile, put a Candle to it and it will take fire; then put out all other lights, and all that stand there will have such Faces that they will be afraid one of another. The fame thing falls out in places under ground where Bells are cast, and things made of Mettall, then all things that are in secret will look with a hideous complexion, that you will wonder at the wannels of mens Lips, they that looked red will appear black and blew. Also kindle Brimstone in the middle of those that are flanders by, and it will work the more powerfully. So I find that Anaxilass the Philosopher was wont to make sport. For he that shall carry about Brimftone put into a new Cup, with the fire put under it, will make all that are at a Feaft look strangely by the repercussion of the Brimstone that burns. The same thing hath oft-times befell me by accident, when in the night I walked at Naples in the fields about the Hills called Lucogei: for the Brimstone that burns of it selfthere gives such apparitions. The Same.

That Men may feem to be Elephants. Take winter Cherries and bruise them, mingle them with a little Dolphins fat, and make Balls of them as big as the Kernels of Pome-Citrons, then make a Imoke of them over a fire of Cowdung, which Cow must be Milked, and stop all holes in the house that the smoke cannot get forth, except only at the doors, and let the Larchtree be under ground within side. For all that are in the house will appear to be great Men in the fashion of Horses and Elephants, and this is wonderfull strange. Albertus.

That Men may feem to be in a various form. Take the eyes of an Owle, and of a Fish called Libinitie, and the Gall of a Woolf, pound them together and mingle them with your hands, and put them into a glafed Vessell, when therefore you would work with it, take the fat of any Beast, that this may become of the same forme; melt the fat and mingle it with that Medicament, and annoint with Oyle what Candle wick you pleafe, then let it in the middle of the house, and all the people in the house will seem to be like that Beast whose fat you took. Albertus.

That Men may look like Angels. Take the eyes of a Fifth, and the eyes of an Ofprey, and bruife them and work them with your hands, and put them into a glafed Vessell seaven daies, then powre some Oyle to them, and make a light of it in a green Lamp, and set it before men that are in the houle, for they shall appear in the forme of Angels by reason of the light that is lighted. Albert.

That

That Men may aypear black.

Take a black Lamp, and powre upon it Oyle of Elder of Quick-filver, powre into that Oyle of Quick-filver blood that is referved after blood letting, and put into that blood Oyle of Elder or Quick-filver. Albert.

Another Lamp that will make Men appeare in a filthy fashion.

Men will be afraid one of another, and they will look like Devils. Take the haires of the taile of a black Dog, amongst which there must be no white haire, and take some of his fat, melt the fat, then take a Funerall Cloth and make a wick of it, then annoint it with that, and light it in a green Lamp with Oyle of Elder, and let it burn in the house, and let there be no other light there, and thou shalt see wonders.

Albertus

A Lamp that a Man holding in his hand, shall see no body that is there present.

But he shall only see him that stands behind him. Take a Fish called a Dolphin: then take Linnen Cloath or Funerall Cloth, and sprinkle upon it something besides Azimat, powre upon it some of that melted tat: then take it in your hand and wrap it up into a wick, light it in a Lamp, and you shall be green, and it shall come to pass as I said. Alberton.

If you defire it you shall don't thus. Cut off the tailes of black Lizards, what drops cleare from it keep for use: and you must take what you can get from many of them and put it together, you must wet a wick of Paper or of Broome, and if you can mingle some Oyle with it; and so you shall see all things look of a Silver colour, you shall do the like in all other things. Now to proceed in the order intended, I shall set down the other Experiments, sollowing the same method, that I may not withhold those any longer that are very desirous to read them.

That all things may seem white and Silver coloured.

Take a Lizard and cut off his tail, and receive what drops from it, because it is like to Ouickfilver: then take a wick, wet it with Oyle, and put it into a new Lamp, and light it in a house, and it will appear bright, white and like Silver. Albert.

That the whole house may appear green and full of Serpents, and fearfull sights.

Take the skin of a Snake and the blood of another Snake that is a Hec, and the fat of another Snake, put all these three together, and put them into a Funerall Cloth, light them in a new Lamp. Albert.

light them in a new Lamp. Albert.

That the whole bouse may seem full of Serpents.

Take the sat of a Snake, and put a little Salt to it, and take a Hearse Cloath, and cut it into sour pieces: then take the sat aud put it into any Cloath, light this and set it in sour corners of the house with Oyle of Elders in a new Lamp, and you shall find what I said to be true. Albert.

of faire light that the bouse may seem all full of Serpents, so long as the

Take the fat of a black Snake, and the skin of a black Snake and a Hearfe Cloath, and make a Candle of that Cloath: then annoint the wick with that fat, and put the Snakes skin into the hollow part within it, and light it with Oyle of Elders in a green or black Lamp. Albert.

To see a bouse full of Grapes; and all Menshall be deceived with the delusion

When the Grape begins to bud, fet a Veffell full of pure Oyle underneath, into this dip the bough with the leaves: make it faft that the wind drive it not here and there, nor let the Sun shine upon it, covering it with Plaister and Leather, yet leaving a hole whereby the stalke may be put in, and so let it remain: when the Grape comes to its sull ripeness, let it be crushed forth through a Linnen Cloath, and keep the juyce pressed torth, in Oyle, a sew daies in the Sun, at least lighting Candles made with this you shall see all places sull of Grapes, and to be compassed about with leaves and trees, when perhaps other trees want leaves: do the same with other stuits, for I think it will hold in othersalso. The same.

G

To fee green things look flying.

Take a new Hearfe Cloth, and put the brain of a Bird into it, and the feathers of his taile, and wrap them up, and make a wick of them, and put it into a new green Lamp; light this in a house with Oyl of Olives, and all things in the house shall become very green, and they shall appear flying, green and black. Albertus.

A light wherein the Stars will feem to wander. Some burn a Snaile or Centaury, and by the Imoke of that flame they fee the Stars wandering fo, and they will feem to move from their places all the Heavens over and this comes not to pals from this only, but from the smoake of any thing. For he that stands in the place where a thing diaphanous is thickest, the forme of any thing movable will feem to him to wrnder from the place where it is : for his fight is deluded and he will think it moves. Now if you defire to do this to greater wonder, hide the fire that the beholder may not perceive there is any, and the beames passing through may be refracted : thus an ingenuous man may do many rare things to delude the fight, which he may learn out of Books concerning Opticks. The fame.

A Lump that when it is lighted, the standers by shall seem one

Take Zimat and pound it well, and take a Hearle Cloath and wet it in Fish fat, or with pure Oyle of Sefama, put it into a green Lamp, and put a little of this Medicament upon any thing, and you shall see a wonderfull thing. When this Candle is lighted they will all laugh and dance, and be mad for joy, and especially women. And take the blood of a Hare and the blood of a certain Bird called Solon, and it is like a Turtle, and take half as much of the blood of a male Turtle. Powre this into a Lamp and light it in the middle of the house wherein Maids and Women are singing; and it is wonderfull and proved. Albertus.

A light that will burn, if you press it hard with your hand; but if easily,

you will put it out. Draw water from Camphire in glafs Chymicall Vessels, and make the vent holes right with Clay, that the spirits may not flye out forcibly, with this annoint your hands within and upon the flame if you hold it fast it will much burn your fift, but if you open your hand you weaken the force of it. The fame.

Another Candle, which when it is lighted, and water is powered upon it, it grow-

oth stronger, but if you poure on Oyle, you put it out.

Take Quick-lime that was never quenched in water, and mingle it with an equall weight of Wax, and half so much of Balfam, of yellow Naptha, with as much Brimfrone, make a light of this, and sprinkle water upon it, and it will burn the more; but Oyle sprinkled on it will put it out. Albertus.

Ifee there are many experiments of Lamps, which though they are not fo pleafant and wonderfull as the matter requires, yet that I may not feem to omit any thing, I thought fit to fet them down, it will not be needless or useless to fet them in the first rank following.

To make Women rejoyce mightily.

Make Candles of the fat of Hares and light them, and let them fland awhile in the middle where Women are: they will not be so merry as to dance; yet sometimes that falls out allo. The same.

To make a Carbunkle or any thing to shine in the night.

Take Glow-worms that thine in the night a great number, and framp them and put them into a Glass Viol and stop it; bury it in hot Horse dung, and let it stay there fifteen daies, then distill water from them with a Limbeck : lay this up in a Crystall or Glass Vessel, for it will give so great light, that in a dark place any man may read or write: fome make this water of Glow-worms, the gall of a Snaile, the gall of a Weafil, the gall of a Wolf, and of a water Dog, they bury them in dung, and distill water out of them. Albertus.

Take Wax, Brimstone, Vinegar, of each a part, boyle them together untill the Vinegar be confumed, afterwards make Candles of them, which being lighted cannot be put out. Roscellius.

2007

not

To make Fire wish Raine.

Take Oyle of Peter, Quick-Brimstone, yellow Brimstone, fresh Quick-lime, Greek Pitch, Ship Pitch: mingie these, and this mixture will take fire in any moisture. Fallopius.

Of the Earth. Chap. 3. A veffell that (hall fend forth Wind.

This may be done, if you make a wind ball of Brass, or some other mettall, it must be round and hollow, and in the Belly of it must have a very narrow hole to poure water into it, and it it be difficult outwardly, use the former experiment: when it waxeth hot by the fire, having but a small vent it will blow strongly, but it will be a moist vapour and of an ill sent if it be thick. The same.

Without any danger many things of a very ill fent will correct it, as Castoreum, Galbanum, Sagapenum, Brimstone, the smell of Horns and Leather burnt, and Gunpowder; which is a most present remedy to drive away the Plague, was put in practice (saith Lemnius) in sormer ages, when at Tornay in France, a violent Pestilence was amongst them; for the guardian Souldiers that kept watch in the Tower sil'd their great Guns with Powder, without Bullets, and shot them off toward the City, and this they did in the morning light, and at twilight late in the evening: hence it came to pass, that by the huge noise and the filthy smoake of the powder, the contagion of the Ayre was discussed and drove it to some other place. Mizaldw.

Of Water. Chap. 5. To make Sea-water sit for use.

Take Salt-water a good quantity out of the deep Sea where no fresh water comes, parch a pound and half of Salt, and mingle it with a stick together, untill such time as a Hen Egge boyld will swim upon it, then leave stirring it, and poure to it two galdons of old Wine, or white Wine, and mingle all well together: after this mingle them in a Vessell Pitched within, and smeer it all over. If you desire to prepare more Saltwater, observe the quantity by the same proportion, and you may do it. Caro de rempies.

If you put a Linnen Rag into Wine mingled with water, and let it hang without the Vessell, the water will all come forth of the Vessell by the rag, and will leave all the wine behind in the Vessell. By this experiment you may discover what is mixt from what is pure wine, nor could this be done if the wine did mingle with the water. Card, de Subtilitat.

If a Candle be smeered over with powder of Brimstone and Charcole put into water in Winter time, being covered on the upper part with Paper, and be hanged where Ice drops, it will be compassed round with a thick Ice, then if you light the Candle it will burn, and it will be a great wonder to those that are present to see the Ice burne. Card, de Subtilitat.

Rivers are best past over with a thick Leathern Gut, and when need is, blow it up as well as you can, and tying both ends, bind it under your Arme pits: Thus both Horsemen and Footmen may safely go into Rivers in great necessity, and sometimes by this help only they may venture to pass. Also it is more safe to be done with Drums of Leather put under their feet, and with a staffe with a Leather Drum at the end of it, for so they may not only wade over, but also walk upon the water, and it will feem almost miraculous. Card. de Substititat.

You shall do it thus: prepare a Vessell with a very long neck, the longer it is, so much the greater wonder: It must be glass and transparent that you may see the water ascend; fill this with boyling water, whereby it may be very hot all over, or else set the

the bottom of it to the fire, and presently that it grow not cold, turn the mouth down that it may touch the water, and may only suck it in: so those that search into natures Secrets, saying, that water is drawn up and suck away by the Sun-beams, from the hollow places of the earth in Mountains, whence Fountains have their originals: nor are they small experiments that arise from hence in Mechanicall Engines; as thereon saith, but being not proper to this place I shall place them where they are more convenient to be handled. Vitruvias hath the like relation concerning the original of carriages for burdens, but now they are usual with most men. The same.

Take Allum, and Vitriol, or Saltpeter, or all three calcined, of each one part, powder them, mingle them, and put them into a groud Veffell, well luted, then into the Veffell that receives them, put two ounces of water for every pound of the powder: which being done, place it so without any cover, but let the mouth of the Retort be joyned with the receiver with flower and white of Eggs, that no respiration of it may be possible. Let the Vessell receiving be set, in cold water, and continually wet it over with wet Linnen Cloaths. For so it will come to pass that the spirits will unite better with the water of them, and they shall not slick to the receiver. When you have done this kindle the fire, first very gently, and under the report only until the matters be dissolved; then annoint it, and put also above the Retort Charcole well fired, and augment the fire for sive or six hours, then let it cool: afterwards take out the water, and keep it for use in some vessell well stopt. But the fire must be so made, that the receiver may not be any way broken by it, but it you desire to make any stronger Aqua Fortis, adde of Saltpeter two parts unto it. Alexims.

How to make Saltwater Potable.

If you make a Vessell of Wax hollow and empty, and dip it into the Sea, the water, that gets in by the pores of the Wax will be potable: so an earthen pot not baked if the mouth be close stopt, will purific the water, for that which strains through it, is made fresh, which was salt before. It is done otherwise more plentifully and speedily, put fresh water Sand into salt water, and stay awhile, putting a Linnen Cloath before the mouth of the Vessell under that must receive it, it will be strained through, and will be fresh, having lost all its saltness. The same.

Chuereb is a City of the Scytbians of Cataonia, in which there is a Lake that drives away Locusts: of old for that very cause the King of Cyprus sent for Water from thence, a vessel sull whereof being hanged upon a Tower made of Pewter, it came to pass that at that time the Island was not troubled with Locusts. Scaliger.

If a brass vessel that is large and round, and hath but one hole open in it, be filled with Quick-lime and Brimstone, of each a like quantity equally and perfectly mingled, and the hole be diligently stopped that there be no vent, and it be presently let down into a well or pit that runs not forth, it will keep that water hot many dayes, and will make this good, as many men have tried it. Mizaldus.

Of the Earth. Chap.5.
Burning Earth.

There is between Lazige Metanaste, black earth that partakes of bitumen and petroleum, nor unlike to wax for the calmness and use thereof: For it will burn like to a Candle, I saw of it with the Arch-Bishop, who was Embassadour for the King of Pannonia. But hereaster I shall say that these things are wonderfull, and so may others now say who never saw what I shall write concerning Earth in Scotland: But when we see the stone burn like a Candle we cease admiring. Cardan. de varietate rerum.

Take the best Potters earth, wherewith Earthen Vessels are made, be it white or ash colour, four parts, common Ashes half a part, Horse or Asses dung dried one part, and

II.

Wa.

Di-

35

418 y ze

COL nen.

Dir. atic.

TO SE

TAT

OR:

1272 atters.

the

ngn

tion .

172100

V dire

plens: trail.

HE CE

and if you will have it more perfect, adde Bricks powdred, or some small quantity of the Finnes of Iron, make very fine powder of them, fift, and mingle them: then put them into the Earch, forinking upon them by degrees some shearings of Wollen Clouth, which is called Flocks, one part, common water what is sufficient, then mingle them. Then put them orderly into the Earth, sprinkling by little and little upon them, first the Flocks that they may be strewed equally over it; then the w ter, then mingle all well together; first with some Staff, afterwards with a Shovell, and make a Mass. This when it is well mingled, must be laid upon a Planke or a Wall, and there trod, and with a shovell well beaten, untill it seem to be enough: for the longer it is beaten and mingled, the better it will be. This lute is good to lute Glafles, to make grofler kinds of forms or molds, to make Furnaces, and many other things. But it you will not fpend fo much labour to make Lute, Take only Potters Earth, Flocks, Ashesa little, and dung. Some make it without dung, others without Flocks, each following his own design. But to lute the mouths of Glass Vessels, that they may not breath through, the forefaid lute is good; especially if you adde Quicklime two parts, and whites of Eggs, what shall seem sufficient : for soit is later, and grows hard like to Glass; whence it is, that the Glass cannot easily breath through it. Moreover such luce must be kept in some moist place, yet so, that it become nei-ther too moist nor too dry; for if it once grow hard, it is of no use. For it you would folten it with water, it will be wet a little on the out fide, but within it will keep its hardness. Wherefore when it it is too hard, let it dry exceedingly, then powder it, and do with it as you did before. Alex.

Why Bricks burnt are more beauty.

But that is a wonder, that some say Bricks burnt are more heavy then they were before they were put into the Furnace. The reason may be because when they are made, they are dried in the Sun, and they receive a great quantity of Ayre, which lying within makes the stone much lighter, then it is when it is baked in the fire; wherefore when the Brick is burnt, it grows more heavy though the moysture be fpent. Also Bricks burnt more then enough look like Iron colour : whence the same thing may be the cause both of their weight and colour : It is small in refpect of the matter, but that fmallness is made by force, and by melting the earth that hath fome what of mettall in it, wherefore almost continually, when Bricks are bake more then they should be, they are bent and wrested crooked. But that is a great Question, why if the fire be stopt in the Furnace, but never so little, the Bricks should break? yet that is not alwaies, but when immoderate heat is contracted by the fire ceasing, then it will break the Bricks. Also the same, when it is kindled again will break them: for the things that are now dry, when they wax hot with new heat, they breake: as we see in Glass. The reason is, because before that which is hard, melt and can be softned, the wind distending it, it breaks. Wherefore by reason of that inequality Potters suffer great loss. Cardan. de Subof the Impel, and you need not fear what the car do

If you would dislote the chains of Lowe, so may a wood, and finds venere the

up the need and binde up the bole as well as you can a for what the feeter you, the well the first an herb, which the layer up to dae band, and a break up alongly, and then the been all down to the profiled a congraint of terminal by under the reaction

Option in his Book of Scones, but the Man to carry with him a Harrelier, locks

od a homiv/ dries shareh has proposed and proposed and BOOK. IV.

Sometiment dries the shareh has been a Summer dries and be not of the of the shareh with wonder of the dries and allo at room, and shareh will wonder the dries and profit the brum and the manner.

The shareh with wonder the brum and the manner dries and wonder the dries are the shareh with the share

### BOOK, IV.

I bave dispatched those parts of the work called Integrals, in the former Book: but now since I must treat of those things that are contained in those parts; first of all I shall speak of Man, namely because he is the most noble workmanship of all Gods works, and for whose sake not onely the world, but all things contained in it were created. But since the Secrets are many that are referred to Man, and they are comprehended under divers beads, they must not be comprehended in one, but in two Books. The first whereof shall contain Remedies for the Minde, and the next for the Body. To the Minde we refer the Affections, which men call Passions of the Soul, namely Love, Hatred, and the like. Also the Internall faculties of the Soul, as Memory, Phantasie, Reasoning, that produce no work without themselves, are the governesses of outward actions.

#### Of the Minde.

How to firengiben the Memory.

It is a wonder that fome report, how that the Tooth of a Badger, or his left Foot bound to a Mans right Arm, will firengthen the Memory. But perchance that is more likely which Simeon Sethi faith, namely that the gall of a Pattridge Imeered upon the temples arteries once in a moneth that it may penetrate, doth profit much to confirm the Memory. Also Balme confirms it and sharpneth the wit; for eaten it will make a man industrious, which also Cresses may do. Also the brains of a Hen do help the wit and memory, so that it hath recovered some who began to dote. But Balme besides this doth make the minde quiet, and merry, exceedingly driving away cares; so eaten after supper it makes pleasant sleep, as Cabbage makes sad sleep, and French Beans troubled sleep, and Onions or Garlick make fearfull sleep. Hence from these grew the opinion of Hags, who seeding upon Smallage, Chesnuts, Beans, Onyons, Cabbage and French Beans, seem in their sleep to sly into divers Countries, and to be diversly affected, as their temperaments are severall. Cardan de Subtil.

You must know that the power of natural things is so great, that not onely they affect all things that come near to them with their vertue, but besides this they insufe the like power into them whereby they by the same vertue affect other things; as we see in the Loadstone, which stone not onely draweth iron Rings, but insufeth its force into the Rings, that they can do the same, as August. and Albertus report they saw it. Likewise Rings for a certain time are put into a Sparows nest, or Swallows nest, which we use atterwards to procure Love or good will. Cornel. Agrip.

If any woman hath bound thee by Witcheraft to love her, and thou wouldest fain diffolve it, take her smock and piss through the neck of it, and through the right sleeve of the smock, and you need not fear what she can do. Albertus.

Another to dissolve Witcheraft.

If you would dissolve the chains of Love, go into a wood, and finde where the Woodpecker builds her nest with her young ones; and when you come there climbe up the tree, and binde up the hole as well as you can; for when she sees you, she will slie for an herb, which she layes upon the band, and it breaks presently, and then the herb falls down to the ground upon a cloth that you must lay under the tree to catch it; be sure you watch and take it.

Albertus.

The whitest Frankincense beaten into fine powder, and drank with Wine if it be cold, or water of decoction of Raysins; but in Summer drank in the increase of the Moon, when the Sun riseth, and also at noon, and Sun setting, will wonderfully increase the memory, and profit the brain and stomach. Rhasis.

Orphem in his Book of Stones, bids the Man to carry with him a Harts horn, for so

he

un

of

to

he promiseth that the Man shall alwaies have peace with his Wise. Mizal. Memor. The heart of a male Quale carried by the Man, and the heart of a semale Quale by the Woman, will cause that no quarrels can ever arise between them. Mizal. Memor.

How to provoke Love. It was my purpose at first to do all things onely by naturall meanes, and especially those things that are done by the wicked Magicians arts, utterly to confure their Science, for they enthare the minds of men with thele gives and fetters of errors; for many men follow this, and I fee that many men are much tormented by thefe deceitfull pleafant Baits, and that they admire exceedingly, and that thole wits that are the most sublime, fall to ruine : such indeed as are most desirous to learn. I shall not be troubled to rehearfe those things out of them that procure love, not at all deviating from nature, who recovers what was alienated from her : Let the Readers take all in good part. Wherefore to begin; it is worth knowing, That I have no other intention, than kindle the sparks of love in the minds of Men or Women, to make them more mild, and obedient to our will; and fince this comes to pals by fuch things, whose power of working lyeth secretly in them: I shall make use of those, whereof some I have had experience of from our foresathers, and many more are found out by the industry of men of later times. And in the first place Hippomanes was by the Antients commended to the Skies, however there were some that have added many old Wives Fables, that Women are delighted with, who perhaps are addicted to demonstrations, and give no credit to miracles, that are wonderfull in nature, or to their hidden causes: But evident experience is against them; that appoint poy fon of two forts, one diffilling from the obscane parts of Mares, when they are overstrongly stimultated with sury of lust, is thus spoken of by

Then Hippomanes (for Shepheards call it so)
Distils as Venome from their parts below.
Hippomanes, that wicked Stepdames pluck
Mingling with Herbs had words, that bring had luck.

Hence Tibullus fings;

Hippomanes drops from Mares that would be Horsed.

This is not unfit for the purpole, for I have shewed how to use it in another place, and shall shew the forces when it shall be convenient: The other is as great as a Fig, and is round and broad, almost black, and it grows to the forehead of a new soaled Colt, and the Mare so soon as she hath soaled, devoureth her after burden, and forgetting labour, by licking and wipeing it, she pulls up that which is called Hippomanes; now if any man take this away before, the Mare will not let her Colt suck; She hates it, and beats it away, as it it were none of her own, and will never love it. Which Virgil in his Enerads well describes.

From the roung Colts forehead that pluckt off, Takes from the Dame her love.

Wherefore it was no abfurd opinion to thinke flesh did procure love, and to be a great inticement to it, and that something to help lovers was bred in it: And Paulanias delivers this, Elian doth not omit it, that Phormis Areas knew that there was so great virtue in it, that with this being mingled with Brals, and powred forth, he made a Mare, cutting of the Taile, wherein he had included Hippomanes, that by that Mare of Brass, Horses might be so much deceived, that only at the sight of it, they should grow surious: for it did so allure them, and made them so mad, that breaking their Halters, they would run with more sury upon this, then upon a living Mare. For though their Hoofs slipt from this statue of Brass, they would not sorbear it, but thereby they would be more hot, and Neigh more exceedingly over it. Nor would they be beaten off, but with Whips, and the great violence used by their Grooms that guided them. Hence was this name given to it Hippomas

nes, that after the similitude of the defire of Horses, it will make Men mad with Love, and run violently after it : and Men of great authority fay, they know this to be true e and if a Snakes skin be call from them, when they are bent upon the course of nature, it will so twift it self when it is cast into the fire, that it will asright Children: If you twift a Wolf and Dogs skin together, or a Wolf and a Lambskin, and light them with Oyle, they will move here and there, shewing how they shun one the other by an imbred hatred. Albertus faith the same.

Take the heart of an Ape, and tye it about your neck, letting it hang just over

your heart, and it will increase Audacity. Lord Bacon.

To prosure love. All men will love thee, if thou carry with thee a Swallows heart : and a Woman will love him exceedingly, from whom the thall receive the powder of a Pigeons heart in meat or drinke. Moreover if any one put but some Hares gall under his head, he shall sleep perpetually, but you shall raise him well enough, it you give him Vinegar to drink. Out of the tabulous Tales of Albertus. Mizaldus Memor.

Of Inchantment, and bow one may be ensnared by it.

Now I shall speak of Charms, and I shall not neglect to fet down some that were Charmers. For if you pleafe to fee the Monuments of the Ancients, you shall fee that many things of this kind are delivered by them to posterity, and the new inventions of this latter Age, do agree with the Ancient form that was not absolutely in vain. Nor do I think I need detract from the credit of Histories, it cannot fit true causes to things, by strong reasons. Moreover many things are not to be searched out : But what I think of other operations, I thought fit to publish : you shall find

very much in Theocritus and Virgil;
I know not who with eyes hath charm'd my tender Lambs. Is gonus and Memphrodorus lay, That in Africa there are some Families that have power to Charme Men with their voices and tongues, and if perhaps they praise very much, or admire more then it is fit, faire Trees, rank Corn Fields, fine Children, brave Horfes, or fat and well fed Cattle, they will prefently wax lean, and dye fuddenly: and there is no other reason to be given for it; which also Solims writes. The same Isigonus saith, That the Triballi and people of Selavonia, are many of this kind, who have two Pupills in their eye, and be witch desperately those they behold; so that they will kill those they look long upon, especially if they be angry, so dangerous is their light; young Striplings feel the most hure by them. Apollonides Philarchus faith, That in Seythia there are such Women called bithia, and another sort called Tibil, and many more of this kind in one of whose eyes you may see two Apples; and in the other eye the likeness of a Horse: Didymus makes mention also of them. Damon speaks of some such Charme in Athiopia, whose sweat it but touched, would make a body fall into a Consumption, and it is evident that all Women will Charme, that have two Apples in their eye. Tully also writes of them: So Plut arch and Philarehus speaks of Nations living about Pantus, that can enchant others, not only young people who are of a weak temper, but strong, well grown people, and by their venemous looks, they will make them languish, and fall into confumptions, and to dye thereof : and not only such as alwaies keep company with them, but fuch as are strangers to them, and very far from holding any commerce with them, are inchanted by them : and though the witchcraft be performed often by touching, and mingling of meats and drinks, yet is it frequently performed by fight, such force is in their eyes as it were a destroying spirit, passeth from their eyes to the heart of him that is bewitched, that totally infects him. So it falls out that a young Man that hath clear lubtile, hot tresh blood yields such spirits, because they arise from the heat of his heart, and more pure blood, because the lightest spirits ascend to the upper part of the body, and are cast forth by the eyes, which are full of parts and veins, and the brightest of all the parts: and with the spirit it felf at once, there is cast forth with the rayes a fiery force; that those that look upon red and blear eyes,

m.

ms

16

200

山山

use to fall into the same disease; and such a mischance had I: for this infects the Ayre, and that being infected, infects another : to the Ayre next the eyes carrying with it the vapour of the blood, corrupted with whole contagion the beholders catch the same redness in their eyes. So a Wolf takes a Mans voice away, and a Basilisk, kils 2 man, which by fight raileth poylon, and with the very railes darts forth deadly wounds. But as it is with a Looking-glass, by reflection the beams are cast back, again upon the Authour of them. So Women that are not clean, as Aristotle faith, are afraid to behold a clear Looking-glass, and the Glass will be dull by such a one looking upon it: and this comes to pals, because a bloody vapour, by reason. of the brightness of the Glass, unites into one, and makes a kind of foulness upon it, which is clearly feen; and you shall very hardly wash this spot from a new Glass, which doth not fall out alike in a Cloath, or a stone, because in that it goes on and comes down to the depth of it, but upon a ftone it is diffipated, because of the unevennels of the parts; But the Glass being hard, stands against ir, and being smooth keeps it unbroken, and being cold by congealing the Ayre it makes drops; after the same manner, it you breath upon a clear Glass, the superficies of it will be moist with your moysture of your mouth, and the thinner part will run down : So from the eyes the beams are lent forth, which carry the spirits, and these coming to the eyes of the beholder, strike through them, and affect the inward parts of him that is thus stricken, and runs to the heart of him, as the proper place from whence the spirits first grow : fo are they congealed into blood about the lapse of the heart, and this inchanted blood, differing from the naturall blood of him that receives it, corrupts all the rest of his blood, and so he falls sick, the contagion remaining as long as the force of that venemous blood is in his body, and fince it is an affection of blood, he ever fees with an un intermitting Feaver, and if it proceed from Choler or Flegm, perhaps it might remit formetimes. But to make all more clear, we must first know, that in Authors we shall read of two kinds of Fascination: one of love, another of hate and envy : and if it proceed from love or defire, of one that is beautifull, though the beams be cast at a great distance; yet the venome is taken in by the eyes, and the Image of the faire Object, fits close to the lovers heart and kindleth; whence he is wont to be alwaies tormented; and because the blood of the beloved is To deare to him, it wanders in him, often reprefents the party, and thines in his blood, and is never quiet, and it is to drawn by him, that the blood of him that wounds, falls upon him that makes the wound. Lucretius doth describe it after his fashion;

> Love doth the body touch that wounds the mind, For commonly all wounded are; we find The Blood will there appear, where is the blow, If it be neare, the face blood-red will showe.

But if envy or ill will bewitch any one, that is very dangerous, and commonly this venome proceeds most from old Women. Nor can any man deny, but if the mind be wounded, the body must needs be ill; and the mind affected, fortifies the body, and makes it more vigorous; and it not only changeth a mans own body, but it will change another mans; and so much the more, as the desire of revenge is greater in the heart: will not covetousness, forrow, love, change a mans colour and complexion? doth not envy make one exceeding pale and lean? will not a Teeming Woman make a marke upon the Child in the Womb when She longs, like the thing shee desires? So when envy bends her cruell sight with desire of revenge, and the mischievous beams shine more forcibly from her eyes, and the heat slies from her, she doth much harm to the tairest bodies of those that are neare her; and like a dart it strikes into their eyes, and burns their hearts, and makes them lean, especially if they be Cholerick or Sanguine: for by the opening of the pores, and subtilty of the humours, the disease easily seeds upon them. And not only is the body made so by passion, but Avicenus proves, that venome may be easily found in a mans body: Many are venemous by nature, and therefore it is no wonder if some be made such as a subtile subtile such and therefore it is no wonder if some be made.

de

fuch by Art. The Queen of the Indies lent to Alexander a very beautifull Virgin, that was fed with the Poylon of Adders, as Aristotle writes : and Avicenna upon the authority of Rufus reports it; and Galen faith there was another that would eat Henbane fafely, and a third that would devoure Wolfs-bane, that no Hen would come near to ir, and by the frequent use thereof as I find in the old Writers, Mithridates King of Pontus made venome so naturall to him, that when he would have poyloned himself, that he might not yield himself to the Romans, he could find no hurt by taking poyson. If you give Hens that are fatted with Adders and Lizards flesh, or them boyl'd with wheate in Broth, to Hawks to feed on, they will fooner cast their Feathers, and many more things will be done, which are too long to record here: So there are many men that naturally have power by touching to cure difeafes. Many men by eating Spiders and Oleander, fear no biting of Serpents, nor do they regard any venome if it be agreeing to their nature : but their very fight or breath that proceeds from them, will not only confume men, but Plants and other things, that they will wither away, and ofttimes where fuch venemous Creatures lurk, the Corn will decay and participate of their venome, only by their eyes and the venemous breath proceeds from them. Do not Women that have their tearms on them, infect Cucumbers, and Pompions, by touching and looking upon them that they will confume by it? Are not Children handled more fafely by Men, than by Women? and you shall find more Women that are Witches than you shall Men, by reason of their Complexion: for they are surther from a wholesome temperament, and they will feed on things more hurtfull, fo that every Moneth they are filled with more fuperfluities, and melancholy blood boyls forth whence vapours arife up to their fight, and they fend forth venemous fumes to those that stand by them, and fill the body therewith. But if you be in Love with a young Maid, and would Charme her to love you, (or if a Woman would do the like to a Man,) how it may be done : See the fame.

The manner how to make one in Love with you. They must be of complexion fanguin, and some also are partly cholerick; they must have large eyes, shining and fiery, and it is much to the purpose that they live chaftly, left by frequent copulation the juyce of the humours be exhaufted; then by frequent looking on, and by very long imagination, at a convenient diffance, let them fet their eyes right against the eyes of another, beams against beams, and sight against fight, fo by looking on of both parties love is kindled, and taken in. But why the party looked upon should be taken with your enchantment, and not with any other, may be understood by this and the former reason: It proceeds from the intention of the party that enchants, for the spirits or vapours are sent away to the party to be allured, and the party being thereby affected is made like to the person affecting : for that passion or imagination being very much fixed, and being a continuing habit, about the thing defired, hath a command of the spirits and blood: then the thing being wished for, the other person may be taken with the goodness of it, and so be in-flamed with the love of it. Although the minde (as Avicennasayes) by onely desiring, and by the power it hath, may produce fuch affections. Mulaw faith, that the eye layes the foundation of love, and are the chiefest allurements, and Diogenianus writes, that affection comes by fight, for a thing unknown cannot be said to be beloved; and Juvenal makes it monftrous

For the clear cast of the eyes makes one mad after her he sees, and the ground-work of love is laid by it. The other parts do not truly give the cause; but they move so far, that when a man sees one he likes, he will stay to behold her beauty, and staying he is taken by the sight of the eyes, and there men report that Cupid lies and shoots his darts, which being sent from the eyes, hit the others eyes, and so wound her heart.

Apuleius. For those eyes of thine coming through my eyes into my breast, kindle a most fierce fire in my marrow. I have shewed to you that seek for it, no small ground, unless you want reason to understand, and you may be confirmed with many more arguments. If perhaps any shall wonder, considering disenses that come

ha

かは

III

ad

by contagion, as itch, scabs, blear eyes, plague; if a man may be infected by touching, seeing, speaking, and catch these diseases; why the contagion of love, which is the greatest plague of all diseases, should not presently take hold of a man and totally consume him? Nor doth it take in others only, but it falls back into themselves, and they themselves draw the Inchantment to themselves that thus enchant others. Also in old Authors we read of Eutelida, who by reflexion from waters or looking glasses that represented the Image of himself, he became in love with it to his own destruction: He seemed so fair in his own eyes, that he was destroyed by the same enchant ment he had destroyed others with: so he lost his former shape of his body, and was punished for a peculiar desire. So children do hurt themselves by their own enchantments; and their parents ascribe the cause to Witches. The same.

To continue Love once obtained.

Procure such a quantity of Hair of the party beloved as will make a Ring or a Bracelet, and wear it either on your finger or wrist, and it shall by secret exciting the Imagination produce its certain effect. Lady Danbeghs manuscript.

For those that are enchanted and bewitched by Women.

Put of the excrements of the womans belly in the morning, some part into the right fock of him that is bewitched, and so soon as he smels the stink of it, the witchcraft is ended.

Alexius.

Another.

Put Quickfilver into a quill or an empty small-nut shell, and stop it in with wax, and lay it under the pillow of one that is bewitched; or lay it under the threshold of the door that he goes into the house by, or in his chamber, and it is a certain cure. The same.

Another.

Let him that is bewitched annoint his body over with Oyl of Crows, and Oyl of Sefamine.

Another.

The smoak of a dead mans tooth is a remedy that will perfectly do it. If a man carry with him the heart of a male Rook, and the woman the heart of a semale Rook, they shall alway agree. Alexius.

These are Charms of themselves; the brain of Murilegus, and of a she Lizard; the menstrual blood of a whore, a Lizard called Stinem; so is Hippomanes. All these things rather change the minde, than compell one to love them from whom they take them. But they are commonly made of excrements, or of creatures bred of putrefaction, or of the seed of Man; as is that made of it, and the matrix of a Bitch that is salt; if a Dog be kept long by her and not admitted to her, then he runs almost mad for sust. There are other Love-Charms which are not to be eaten, that are taken from dead mens cloaths, Candles, Measures, needles, and generally such things as are provided for Funerals. Card. de Subtilitat.

The cure of Love from Enchantment.

There are many things which our wife Ancestors ordered for this purpose. If you would remove a Love-Charm, you shall do it thus: Turn away your sight, that the party may not look upon your eyes, nor set his eye-sight against yours; for whence love useth to proceed, from thence remove the cause: avoid the company continually, fly from idleness, employ your mind about weighty matters; let blood, sweat and void all excrements abundantly, that also ill air may be cast forth; also there are other things contrary to the first. If it be an Enchantment of envious people, you shall know it thus; the person shall lose his colour, shall hardly lift up his eyes, alwates shoops downwards, sighs often, is pent up, and yet there is no sign to be seen of any hurt he hath; he weeps abundantly salt and bitter tears. To cure him from his Enchantment, you must make sweet persumes, because the air is contagious and polluted, to correct the air, and also by sprinkling of Water, Cinnamon, Cloves, Galinga, Lignum Aloes, Musk, Ambergreese. Wherefore it was an old custome continuing even to our age, and women use it is they see that their Christisen are bewitched; to purge them

from it, they perfume them with Frankincense, and wrap them about : they must be kept in clear air, and pretions Stones must be hanged about their necks, as the Carbuncle, Jacinth, Saphyre. Dioscorides thinks that Alyfon hung up in the house, purging Thorn, and Valerian are a sufficient Amulet. Let them smell of Hipopus, and Lillies, let them weare a ring of the Hoof of a wild or tame Als, Satyrium, called alfo Dogstone is good. Aristotle commends Rue. All these things do abate the forces of Enchantments. But I have set down in this Book such things as are proved by experionce, and most likely to be true of different kinds. The fame.

To make Men mad, that they may be easily out of their senses.

It is done easily with Wine. Thus, Take the roots of Mandragora, and put them into Wine that is hot, and yet working up with Bubbles, put a cover on, and set it in a convenient place for three Moneths, when you want it, give it one to drink, he that drinks it, when he fals into a deep fleep, grows mad, that he will rave much for a whole day, but when he fleeps again, his madness is gone; nor will it do him much milchiet, and it is pleafant for to make triall of. The fame is reported of the froth of a Camell dranke, by one that is drunk, yet as I shall shew, they will be more cruelly mad: and some take Womens terms, but the most dangerous are the terms of Cholerick and barren Women, but they are more powerfull, mingled with the brains of a wild Cat, so they must remain a night and a day, then distill water from them in Glass Stils, and mingle this with their drink, and the party will be mad so long as this pernicious venome remains, untill he can overcome it, which will be in a Moneths time : and if some please, they can receive this rage when it abates. Or thus, Take the brains of a Moule, of a Car, of a Beare, and the froth of a Dogs mouth, and of a flitter Moule, very well mingled with Myrrh, and put them into a vestell, and fet them into Horse dung, let them stand there eight daies, then distill Water from them, who drinks of this loofeth his memory by the venemous quality of it, and is deprived of his understanding, The fame.

### BOOK V.

This Book is properly for Physick, for it contains the Symptomes of Mans Body, as it is subject to Diseases, and the most Secret Remedies thereof. In this Book therefore I Treat of Diseases; the division whereof I shall presently after give you in a Table. This is a most large Subject, because there are so many sorts of Diseases; And also because for one and the same Disease many Men propound many Remedies, out of which I have cho-sen only the chief. But because Death and Life belong to Mans body, to health and the reason of Diseases, before I Treat of Diseases, I thought fit to say something of Life, Health and Death.

> Of the Body. Of Life. Chap. 1. How to prolong Life.

Any affirme that Ambresia will prolong ones life to the longest date; also Iraly produceth this Herb, though it be rare: but if it be fow'd it will not grow. It is eafily known, because the seed alone, as it produceth plenty of Wine, simels very fweet, it hath leaves like to Rue, with a very long and flender stalk, and it never slowers; wherefore the use of this Fierb is supposed to prolong life, nor is it without reason, which it performs by its property. Card. de variet.

Of Death. Chap. 2. Aristotle faith, That Death is not so troublesome that comes by old Age, only for this it is the worfe: becaule a very old Man endures many miferles before it comes. Like that which befals one from the biting of a certaine Viper, which Plutareh speaks of; Next to that is Death, coming by drinking of Poppy : for they dye fleeping : The fourth is by drinking Hemlock, of which ellewhere, as Theophrasim writes: But this often terments one, as also Poppy doth; and as for bitting with Vipers that is

四日山山

MIN

bille

0010

0

OFE,

244

nd the

lis-

nox

not so common to every man. The fifth manner of death comes by new plaistered Wals of Chambers, and Charcoale burning when one fleeps. I have asked forme taken thus almost dead, and they faid they felt no pain : the last befals them that are drowned, for what death comes by drawing blood, is painfull about the end, as Tacisus faith. Card. de variet.

That one may dye Laughing. .......

Frogs, Toads, Scrpents, and all venemous creeping things delight in a Plant called, Apinm rifus, Phylicians lay, if any one eat of this, he dieth laughing. Cornel.

That one may dye without paine a so

Pliny reckoneth the juyce of raw Leeks amongst deadly things. For the report is, That Melaa Roman Knight, being guilty and called to an account by Tiberim, being in desperation, drank the juyce of Leeks about three penny weight of Roman silver, and he presently died without pain. Mizald. Secret. Sort.

An Oyle that kill Men with the ill fent of it.

Take Turpentine two Pound, yellow Brimstone one Pound, Assetida eight Ounces, Serapinum fix Ounces, Mans dung eighteen Ounces, Mans blood ten Ounces; mingle them and put them into a Retort, very well fropt, and Diffill them at a very vehement fire, untill all the spirits be come forth. Fioravantus.

To make a Wound with a Small touch.

Take a Toade that lives amongst hedges, and hath a sharp back, as it were with little bunches upon it : some call him Buto. This is the more hurtfull and so much the more deadly, the more shadowic and cold places he lives in, in Woods and rushy grounds: for he tucks up much poyfon there. Men put this Toad into a long bag, and as much Salt as the bigness of an Indian Nut, then taking the bag into their hands, they shake it violently a long time untill he die : then they keep the Salt which retains the deadly poylon of the Toade. Or elle they bury the Toade in Salt, and for fifteen daies they bury it in Horfe dung, they keep this Salt and distolve it with meats; he that eats it, it will run through his inward parts and hurt him, and infect his bloods and he will foon dyesor effectivey put it in moist places to dissolve, and a Napkin wet with fuch water, or any of it but touching a mans bare flesh, will make a most cruell wound, but this comes from the venome,

An Antidote.

Take the fairest seaves of S Johns wort before it flower, as much as you can take in both hands, and fet them in old Oyle in the Sun a Week, then let them fray in a Bath of hot water one day, and press forth the juyce with a Press, and keep what is prefied forth in the fame Veffell, and take continuall pains, and when the flowers and feed come forth and are ready, mingle these together; and when it grows hot at the fire, cast in a hundred Scorpions, a Viper, and a Toade, cutting away their heads and legs; Take this from the fire in the heat of the Dog-daies, and covering the veffel, and making it fast with a skin, set it fifteen daies in the Sun : then adde to it the roots of Gentian, white Dittany, both Birth-worts, Turmentill, and Rheubarb, of each equall parts: put in likewise of Bolearmenick, prepared and Emrald in pouder a little, cover the Vessell three Moneths in Horse dung, putting in a double proportion of the best Theriac; then straine it, and keep it in a Vessell well glased with Tine with this annoint the region of the heart, and under the short Ribs, all the Pulles and the Back, and it prefently cures all venemous bites; wherefore for this and what I shall write afterwards, you can have no better remedy. The fame.

## Of Health. Chap. 3.

To increase the strength of the body. All Creatures that are long lived, are good to lengthen Mans life, and all that are restorative, serve to renew our lives, and restore youth : which Physicians have often proved, as it is manifest concerning Vipers and Serpents. And it is known that Stags renew their age by eating Serpents; fo the Phænix is reflored by the neft of Spices thee makes to burn in : the Pellican hath the fame virtue, whose right foot,

if it be put under hot dung, after three Moneths a Pellican will be bred from it, Wherefore some Physicians with some confections made of a Viper and Hellebore, and of tome of the fielh of thole Creatures, do promite to reftore youth, and fometimesthey do it as Medea did to old Pelias. Allo it is believed, that a Bears blood fuckt with ones mouth from a fresh wound made, will make a man very strong, becaule that Creature is fo mighty firong. Corn. Agrip.

Chap. 4. Chap. 4. Chap. 4. Chap. 4. Either of the whole Body, Internall. the libbagaint with or Universall. (Externall. to addition when a sound at Sof the Head. Some are of of the Trunk of the Cheft. the Body or Particular, and either Of the Limbs To lay hold of any thing. this prove it as about great a had been for to walke. The state has I a said it

Of infectious Diseases in generall.

There are some discales known to be infectious, and others are not; the infectious are those contained in the spirits, and not in the humours; and therefore by Sympathy pass from body to body, of which kind are Pestilences, Laptitudes, and the like.

2. Such as taint the breath, which evidently passeth from man to man; such are Consumptions of the Lungs, &c. 3. Such as come out of the skin, that taint the Ayre and bodies next it, which consists in Scabs or Leaprousie. 4. Others meetly in the humours, that do not intest neither by the spirits, breath, or exhalations, but by touch, as nome of the French-Pox, the biting of a Mad-Dog, or the like. Lord Bacon.

Of Universall Internall Diseases. Take Opium one dram, live Brimstone one dram, Myrrh, Agarick, Rue, Coffia fifiala, of each one dram; with juyce of Wormwood make Pils, as great as Peafe, The dole is one dram before the fit. Rofcell.

For a Quartan Feaver. Take Treacle-water, water of Gentian, of each one Ounce, Liquor of Tartar one Ounce, Oyle of Pepper three drops, mingle them; give it three houres before the fit, the body being first purged. Anonymus.

Pils approved for a Quartan. Take Rue, Myrth, Opium, of each five drams, Saffron two drams, Caffia fiftula, live Brimstone, of each two drams, Henbane five drams, make Pils, the dole is one dram with water, Rofeell.

Take two heads of Garlick, peel them clean, and a handfull of Nephoes, Neymaydens, pownd it with the Garlick, and put therein a pretty handfull of Bay-falt, this being altogether mingled, bind it to both the hand-wrifts before the fit cometh, and keep it on 24 hours. My Lady Veare.

For a Quartan Ague. Take of red Sage new, Shepheards Purse, of each alike, of Glass, Salt, Frankin-cense of each alike, let the Glass be beaten very small in a Morter, there adding the rest, beat them well together, and put them in a faire linnen Cloath, and bind it on both the hand-wrifts half an houre before the coming of the Ague, and in two or three declings it will drive it away. Dr. Matthias.

Ague in Womens Breafts. Take Hemlock leaves and fry them in Iweet-Butter, as hot as the Patient may endure, lay it to the Breaft, and lay white Cotton warmed upon the fame. Dr. Ma

Take of the best Theriac three Ounces, Oyle of Juniper source Ounces, old Oyle two Ounces, of Cloves one Ounce, otherwife foure Ounces, of Spicknard one dram, the best Wine one Ounce. Let them boyle untill the Wine be confumed, then adde a little Wax if you pleafe, and make Annoint ment, wherewith annoint the Back bone, for one or two houres, before the fit compals. One of a Manuferipe. Another.

Take black Pepper foure grains, with the juyce of Gentian make one Pill, and guild it over, give it with Wine or Treacle-water three hours before the fir. Ans-

For Tertians and Quartans. Pliny reports, That if you pare the Nails of the Hands and Toes of the fick Party, and mingle the paring with Wax, and it will be a remedy for a Tertian, Quartan, or Quotidian Ague; and if you make this fast to any other Mans doore before the Sunarile, it will cure thele Difeales. Likewife all parings of Nails if they be caft into Ant hils, the first Ant that begins to draw them away, must be bound about the parties neck, and that will cure the Difeafe. Some fay that wood thunder strucken, if you hold your hands behind you, will drive away the Difeate: and for Quartan Agues, fome bind about the fick Parties neck a piece of a maile that belongs to the Crofs, wrapt up in Wooll, or a piece of the Crofs, and when the Difease is cured, they hide this in a cave, that the Sun never thines into. Corn. Agrip.

For a Quartan. Hermes writes, that if both the eyes of a Bear be bound up in a linnen cloth above the left shoulder, it will cure a quartan. Albertus, and and ago I bank he

Another. It is reported that one little piece of Ox dung drank with half a scruple of Masterwort is a remedy for all Quartans. Mizald. Another. programmarity and saling swar soul

I have cured many of Quartan Agues, but amongst the rest the Sonne of Bartholmew Greffey a Citizen of Pistorium, when he had been afflicted with it feven moneths, and that with a double Quartan, returning still with incredible swiftness; as also his Wife and his Mother, both fick of Quartan Agues, and of a cowring to many moneths, for they both kept their beds. I cuted them with vomits, and abstaining from meat on their fit dayes, purging them with Confestio Hamech, annoynting their back bones in their cold fit, with Oyl of Scorpions, Goofe greafe and juyce of Gentian: and others I cured with the juyce of the roots of Mulleus given in drink. Cardan,

Another. Some report that the bone of a dead Man who never had an Ague, hung over the fick party will free him from it. Cornel. Agrip.

Another. Cantharides covered up in cobwebs, and hanged over one that hath a Quartan, will perfectly cure it. Mizald.

Long as her Calle, and less pourse redion If you take the heart of a living creature newly drawn forth, whileft it is yet hot and living, and hang it over the fick, it helps him. Cornel, Agrip.

Anosher. Worms found in the middle covering of a fullers Teafel, are faid to be excellent against Quartans, if you tyethem wrapt in parchment about your arm or about your neck. Mizald.

Another. I wall gold thed flire at said Seven Wiglice of the bed wrapt in a great Grape husk, or of a Prune, and swallowed down alive before the fit, will not only cure Quartans, but also those that are bit, by Vipers. Dioscorid. wish, And Comercian a litayer well during the est as where a water a common of the contract of

Another.

Another.

Juyce of knot-grals with seven grains of Pepper drank before the Quartan comes, drives it away: but some say, the Plant must be gathered, and the juyce pressed forth on a Thursday, the Moon decreasing. Mizald.

There are some secret medicinal qualities of the Marigold, which many have long desired to know, and now I will discover them to you. I writ this property of the Marigold, when one that began to addict himself to the practise of Physick came to visit me as he used to do: who after that he had read this History of the Marigold, assured me, that he knew a Monk that cured Quartan Agues, giving before the fit in White-wine seven Marigold seeds in pouder to drink, doing this for some daies together: this I was willing to let you know. Mizald.

The juyce of Plantane given with Honey and water two hours before the fit, helps it, and by taking it ofter cures it, as I have understood it hath being used by many. The fame, it proved a many was at fit and the fame.

When a dead Mans bone is hanged about a Man it cures a Quartan; and if it be used to for the griping of the belly, it cures that also. Albertus.

And some say, that if you take the dog-tooth of a Crocodile from the left side of his upper jaw, and hang it over one that hath an Ague, it cures him, and it will never come again.

Albertus.

Likewise the eyes of a Frog bound about the fick patient before the Sun rise, if you let the blinde Frogs leap into the water, it will cure Tertians; upon the promise of him that hath tried it. Cornel, Agrip.

Now to shew what vertues there are in Nature in numbers, appears in the herb Five leave grass; for by this number of five, it resists poylons, drives away Devils, is good against witchcrast; and one leaf of it taken twice in a day in Wine cures one dayes Ague: three leaves cure a Tertian: four a Quartan: Likewise sour grains Tarnsel seed drank cures Quartans, and three grains cures Tertians; so Verven drank with Wine cures Agues, it in Tertians you cut it up at the third knot of the stalk, and in Quartans at the fourth. Corn. Agrip.

Serent Samunicus reports in his Precepts of Physick that if you write this word Abrasadahra, diminishing one letter after another, by order of running backward, from the first letter to the last, as I shew you here, it any patient be sick of a Semitertian or any other Ague, this Paper bound about him, and hanged about his neck, will recover his health, and the Disease will by degrees depart from him. Cornelius Agrappa.

If you lay upon a Child that sucks and is troubled with an Ague, a Cucumber as long as the Child, and let it lye upon him so long as he sleeps, he shall be presently cured: for all the Feaverish heat goes into the Cucumber. Mizald.

It is a memorable ftory that I have read in the Greek Georgicks of the Quintily; and it hath been procured with good fuccess by many, as I have heard; What is that you will say? if you say on a sucking Child or one that is weaned, a Cucumber as long as the Child when it sleeps, that they may sye together; this cures the Ague, all the Feaverish heat being drawn forth and extinguished and represed. Mizaldus.

A Feaver is raised if you boyl in Oyle horned Beetles, and amoint the Pulses therewith. And sometimes a Feaver will do much good, as where there is a Convulsion

Ot

TICE

E 25

BOO

or Gour, a Feaver caused helps them, that proceed of a cold cause, and sometimes also when they are troubled with a Palicy. Card. de variet.

For Tertian Agues.

Bugloss growing with three stalks, beaten with the feed and root, and dranke against the cold fit of a Tertian is very profitable; but that which grows with soute stalks boyled in Wine and drank, is good against Quartan Agues. Dioscorid.

I would not have it omitted, that he who fills an earthen pot with Peach flowers, and ftopping the pot lets it fland fome dayes to ferment under ground, or to putrific in horse-dung, may press forth Oyle, with which if he annoint his pulses, temples and back bone, before the putrid Feavers come, he shall certainly cute them. I confess ingenuously I had this of a German Physician. Mizald.

A precious Madicine for the Green-ficknes.

Take of Centaury, Rew, broad Time, Maydeh-haire, of each one handfull; of Origan hair an handfull; make all this into pouder, then put this pouder into a quart of Ale, and let it boyl to a pint; then put into it a quantity of Honey, and let the patient drink it. Dr. Antbony.

Against the Plague,

I will add out of Anton, Ludwisma Physician of Lisbon, who had excellent skill, that Lampreys eaten frequently in the plague time, by an imbred vertue, are very effectual against so cruell a disease. Mizald.

Take white Arfenick two ounces, red Arfenic one ounce, make a round Cake as thick as your finger with the white of an figge, or mucilage of Gum dragant, few this up in a linnen rag, and lay it to your heart: you need not put your thirt between: (for though Arfenick taken inwardly be mortall, it is not by any fecret venome, but onely by corroding, to that you cannot call it poylon) for it you apply it outwardly, it is certain that it refifts poylon. Treebus Carpenfis.

Take a pint of ould Sack, a pint of Sallet-oyl, and a quarter of a pound of english Madder, mingle them together, and drink a good draught thereof morning and evening; and if you be not infected; it will keep you from infection; and if you be infected it shall bring our the sore. Probatum oft. Dr. Marbeas.

Another for the same.

Take morning-milk, and boyl therein a handfull of Cotula fatida, otherwise called Margerum, then strain it out, and drink the milk so sodden every morning, and it preserveth from infection; likewise Sheep pend in the Hall and lower rooms where the houshold lieth preserveth from the plague those that are not injected, and cleanseth the infected house, so that they be not let abroad in the morning until they both piss and dung; for by the sent thereof the plague is either preserved, or the house cleansed from it. Dr. Matheau.

Take black Pitch, white Frankincense, of each fix ounces, of Mirrhe four ounces, of the wood Aloes half a dram, of Beinamin and Storax of each one dram, of Juniper berries and the leaves of Rosemary of each two drams; make a gross of pouder of these, and cast it in a chasing dish of coals and persume the house. Dr. Marbeas.

Take of Aloes one ounce, of Myrrha and Saffron of each three drams, of Bole armenick, Terra figillata, Zedoary, white Dictamnus, the roots of Tormentill of each one dram, make Pills of these being all well poudred and mixed with the juyce of Marigolds or red Coleworts, of which every day take one, and once every moneth take a dram. The same.

Put four or five leaves of pure beaten Gold into juyce of Lemmons, let it lye therein for 24 hours space, then take the same juyce and put to it a little pouder of Angelica, and then mingle them with White wine; and let the patient if he be never so
fick.

30

fick, drink a good draught thereof, it is a most pretious drink, and it is greatly to be wondred, what help and remedy some have enjoyed thereby which have used this drink, although it hath been supposed by many Learned Physitians, that the sick persons were past all hope of remedy, yet by Godshelp they have recovered again. Dr. Jones.

A little bag against the Plague.

Take of Saphyre, Emerald, Jacinth, Ruby, red and white Corall, of each one dram; Saffron one scruple, Pearls half a dram, white Arlenick two drams, Amber greece fix grains, Annis root fweet and dry half an ounce, Harts horn burnt one dram, Orgiment half an ounce, pound them all and make a little bag with purple filk, and lay it to the region of the heart. Some use their own Urine for an Antidote. Others use to smell to the root of Elecompane steeps in Vineger, or of Angelica, Juniper or Bay berries. Many will not go into publick company untill they have eaten formething: yet if any one be infected with the plague, drive it forth fo foon as you can, from the stomach and ordinary passages with a sweating powder, yet not before you know that nature is enclined to I weat, and let the Patient take a Clyfter: Then give him Theriac, Mithridate, and fuch remedies that are good against pestilent diseases: not that these remedies are to be taken only once as some do use them, or else continually, but three or four times the same day, alwayes allowing six hours between. If a Bubo or Carbuncle appear, set on Leeches not far from it, if it be in an ignoble part : but first it were best to apply large Cupping glasses, and with great flame, or a Cocle, or a Whelp, or the Lungs of fome Creatures. But at the beginning of a peftilent disease, before he take an Antidote let not the Patient sleep, lest the venome of the difease with the blood, lay hold upon the principall parts and presently kill him : apply to the heart and other parts corroboratives, and as much as he may, let him refresh himself with meats that agree with his stomach most, and let him commit his life and all other things to God with earnest prayers, and take advice for the rest of a Learned Phylician, that God by his mercy and favour, and the Phylitian by his art and industry may helphim. Rantzovine.

An Electuary to preserve a man against the Plague and other Diseases. Take choice Cinnamon half adram, Zedoary one dram, Bole armenic prepared three drams, Camphire feaven graines, Citron feed unhusk'd, Sorrell feed, Citron pills, of each one dram and half, roots of Dictami, Tormentill, Pimpinell, half a dram, shavings of Ivory, bone of a Stags heart, of each one dram; gold and silver prepared of each one scruple: fragments of Saphyre, Ruby, Emerald, Granate, of each one fcruple: mingle them, beat them into pouder, to which add conferve of Roles, of Sorrell, Buglols, of each two drams, white Sugar one pound disfolved in water of Buglols and Endive, make an Electuary. The way to use this preservative against the Plague is thus: Take upon a knife as much as two Beans and eat it; but when the Plague is begun, take half an ounce of it every day in Wine and Sorrel water. Take against a Pleuresie half a ounce with some convenient broth, or mingled with some juyce or water in a fufficient quantity. I use to add sometimes to this Electuary Elks claw, and Unicorns horn and Amber, of each one dram. Prifeian de Corduba, Medic.

Leonis decimi Pentif. Another remedy against dangerous and pestilent Diseases of Children.

Our Matrons use to give to Children when they grow ill, a little of the bone of the heart of a Stag, and of Unicorns horn, red Corall, white Amber, Pearls, pouder of Gold, Elks claw, of each alike: All these beaten in a mortar they mingle together for hot Difeafes, with Rofe water; but in cold Difeafes with Lavender water, and they give about a foonfull. Rantzo.

Sweet balls against the Plague. Take red Roles two ounces, root of Annis, Cyperus, of each half an ounce; root of Angelica fix drams, Bay leaves, Rofemary leaves of each fix drams, Bay berries three drams, Cloves, Lignum Aloes, Nutmegs, of each half an ounce; Pearls one ounce, Styrax calamita, Ladanum, of each one ounce, Misk diffolved in Rofewater twelve grains, Amber greece two scruples, with Gum dragant diffolved in Rose water make

a mals. Out of a Manuscript.

K V

100 be

iz fick

agin.

OTHER:

200

Jan .

more

BEZZ.

OC YOU main:

WCCD, mode

e, or a apedi-corine

n: m

prints

TO LOS

it of a

pills,

train, 000

les et

me of

minf

mth

Take Total .

y Eks

de drof

to to

day

Take conferve of Rofes, Violets Buglofs, white water Lillies, of each half an ounce, confectio Alkermes, two ounces and half, roots of Angelica two drams, Zedoary two feruples, Electuary de Oppone dram and half, Venice Treacle four feruples, fyrup of Lemmons what is sufficient; make an Opiat: use this once or twice a day. a Manuscript.

A Remedy for the Plague.

Take a great white Onyon, make it hollow within, and fill the hole with the best Treacle and Aqua vite, cover it well with its cover, and roaft it in the embers, then prefs out the juyce and give it the fick to drink; what is left pound and lay it upon the plague fore. Kofcellius.

Why Sicknesses and Infectious raign more in Summer than in Winter.

It is because Difeases are chiefly bred by heat, and the Sun exhaling the heat outward, the spirits and inwards are more faint and weak, and the pores being opened are most subject to Intection. Lord Bacon.

In the morning before you go far from your habitation, wash your mouth with water and vineger mingled together; then drink a quarter of a spoonfull of the fore-said liquur, and so pressyour nose, that your brain being freed from all externall agree intected, may with less difficulty by the vapour and steem held in your mouth, be more than a local country and steem held in your mouth, be moistned: also it will be a great help to wash by turns the principal emunctories of your body, as your temples, arm-pits, and groins, the parts more rare and loofe above the reft; that by this means they may be defended from the dangers of the agre infected; and that they may be more lafe from all peftilentiall ayre, it will be good to use a filver ball full of holes, in the hollow part whereof a piece of a sponge is kept moistned in the former liquour. For by this means the ayre being altered, I have often preferved my feit from the plague ( to God be praile ) unto this prefent day. Egidins Bruxel. D.

To keep one from the Plague."

Take Sugar infused in Treacle water, and disfolved perfectly, three ounces, tincture of Brimstone one dram; make tables according to Act; by this used I have known many men preferved from the plague.

An approved Remedy against the Plague.

Take the sharpest vineger, juyce of Garlick of each two drams, Theriac of Alexans deta one dram; mingle them, and give it to the patient presently, and having taken it, let him tweat well upon it. A Manufeript.

The so much samed Countes of Kents Ponder, good against all pestilential Diseases, French Pox, Small Pos, malignam Fewvers, melancholly. The dose for a Man is twenty or thirty Grains, according to bis constitution; half the

quantity for a Child diff-leed in a little Sack marmed.

Take of Magestracy of Pearls, Crabs eyes prepared, white Amber prepared, Harts-horn, Magestracy of white Corall, of Lapis contra yarvum, of each a like quantity; to thele add a proportionable quantity of the black tips of the great claws of Crabs; beat all thele to a fine pouder, and lift them through a very fine five; to every ounce of this pouder adde a drachme of oriental Bezoar: Make all up in a ball with the jelly of Harts-horn; colour it with Saffron, adding thereto a little Musk and Ambergreece; draw them out into small Troches in the elect ayre. Countes of Kents Manufcript.

An Antidote against Poison.

One faith, that in the closets of the great King Michridates conquered, Cnew Pompey found in a Manuscript written with his own hand, a composition of an Antidote of two dried Nurs, as many Figgs, and twenty leaves of Rue beaten together with one grain of Salt; he that takes this fasting, needs fear no poison that day: the same Antidote is admirable against the Plague raging, if it be taken upon an empty stomach. Plagues are many both known, and unknown with this Antidote I have preferred many against desperate pestilences, by my advice, and giving it my felt. Mizald.

Against

四年 四日 四日日

on clo

fin Th

Against Poysons. That there is an effectual Stone against Poysons, there are many witnesses of great authority, and Phylicians very antient and many. Julius Scaliger and Amatus Lustianus boalf, that they have feen fuch a Stone; and they fay that they have feen it given in a little Wine to many that were infected: for by the vertue of it, it will provoke fo much fweat, that you would think all the body to be melted by it: by this only the peftilent venome is driven forth: The Arabian Physicians call this Stone Bezoard, and from this medicaments to drive forth venome, are called Bezoardica. Mizald.

That no Man may be infected with vename. To this add the opinion of Didymus, that if any man cat millet bread first, he shall

never be hurt by venome. Mizald. mem.

An Experiment of an autient Phylician of the King of England; and it is a wanderfull Ponder aga, nft venome, and against all poyfon.

Take Pimpernel, root of Tormentil, Cinamon, of each half an ounce; Lignum, Aloes, Juniper berries, Ginger, of each one dram; sometimes there is added Carduus Benedictus, root of Angelica, of each half a dram: make a fine pouder of all thefe, and keep it close in a box for ule. Rantag.

An Antidote of King Nicomedes against Poyson.

Take Juniper berries two drams, carth of Lemnos two drams and fix carrats; pouder all thele, and mingle them with Oyl or Honey, and lay them up for ule; and when need is, with two cups of Honey and water, give the quantity of a Walnut, The Same.

To procure Appetite. Take a preferved or roafted Quince, Pear or Warden with Sugar, or a preferved or roafted Pippin, and to cat it; also damask Prunes well stewed with white Wine and odoriferous Rosewater, adding thereto a little Sugar, and three or four Cloves, and three or four tops of Rolemary, are very good to eat, and the Syrup thereof fouced is good to nourish, loofe, cool and comfort. Mr Hunniades.

That no man may fall into a Hellick Feaver,
They give water of these Ingredients; they make Lead into fine pouder, or calcine it, and they mingle sharp Vineger and Salt together, they distill water from it by the fire, and of this they give one small cup once in a moneth, and they continue it fix times when a dangerous Hectick talls upon any person. But if they undertake a deadly Disease to cure in a long time, they do thus: they take Ceruse, Verdigreece, Litharge and Red lead, of each equall quantities; the juyce of Squills what may suffice to mingle them together, they put them into a glass, and let them forty dayes in Horsedung; then they take it forth, and after that they mingle mans sweat with it, and they give of it to cat to one that is dying, thus with continuall languishing for a large time they preserve life. But for such a Disease this is the Remedy.

An Antidote. So foon as the Difease is found out; if in the decoction of Liquorish a little of the pouder of Scammony betaken, it presently recovers the patient. If any venome were first taken, do thus; distill water in Chymical vessels of glass, from Pigeons dung, and egge shels, with a fourth part of Pepper, and a little Frankincense, and twice as much of a lee made of the ashes of Vine branches mingled with them; and for the first moneth, for seaven dayes give one small cup; for the second moneth, eleven; and fourteen for the third; untill fix moneths be expired, and this will extinguish the force of the poylon: but the Confumption you must cure it thus; Drink water from the herb Perlonaria, with the mixture of Pine kernels, every day before dinner untill you be recovered. The fance.

For a Confiemption. But I have cured multitudes of a simple Consumption; and amongst the rest two fors of a Carpenter that dwelt at Barbed gate; I uled (belides a moderate diet) of bread baked with Pompion feeds bruifed and strained, or a ptilan of Oysters, Crabs and Snails, and drinking white Wine, this remedy alone: Hogs blood, and Snails purged, and Frogs with the buds of Brambles I distilled in Balneo; and I gave a quantity

Paingb

inby inker total

lot:

位

of this water according to the patients age, untill he grew fat: so I cured the son of Jacob and Mary Ajtolphus, a Carrier of great note and fidelity, and my very good friend. Card. de curat. admirand.

Whether the fick be in danger.

A Discale that begins when the Moon is in that Sign, that had some malignancy when the party was born, either in the quartil, or opposition of it, is like to be most dangerous; but if it respects the malignancy, it is dangerous: but if the Moon be in a place that was beneficiall when the party was born, there will be no danger. Ptolomy, Galen from the Egyptians, and especially Mercurius Trismegistus.

Men say that a green Nettle steeped twenty sour hours in the urine of the sick patient, will soreshew his recovery if it remain green; but otherwise death or very great danger. Mizald.

Whether the fick shall recover.

If you will try whether the fick party shall live or not, sprinkle the patient with the infusion of white Chamelion root for three dayes, three times a day; he that can endure this, they say he will not die. Theophrast.

By the face: 1. The Nostrils are extenuated very sharp: 2. The Eyeshollow: 5. The skin of the Eyebrows hard, dry and loose, as though it were tand: 3. The Ears cold, shrunk and almost doubled: 5. The Face black, swarthy and illiavoured.

By the Eyes and Lips: 1. If they be deprived of fight, or overflowing with moiffure: 2. If they stare or start out of the head: 2. When one Eye seems less than the other, or drawn unto one side: 4. When they are moveable, gastly, staring, stiring quick up and down; when the patient sleeps with his Eyes open; when the Lips are thin, cold, pale and hanging down, and the Nose very sharp, it is a certain sign of death approaching.

By the Patients lying in bed: When the Neck, Hands, and Feet are stiff and not to be moved; sodain starting; sleeping with their mouthes open; tossing, tumbling from one end of the bed to the other: gnashing of the Teeth, by frequent plucking the bed-cloathes, peeling straws, or e.

By the Breath: If in a hot distemper a long cold breath, if his sweatings be cold, it is infallible that death is near at hand. Nicholas Culpepper.

Presage of Death.

I find in the books of Soothsaying, Servine being the Author, that if a Fir-tree be stricken with thunder, it presageth the death of the man or his wise that oweth the Tree.

Whether the fick manshall live.

That is not against reason, that the fick that make a representation of your image in the pupil of their eyes may be cured: yet many of those die that may be recovered, because the force of death is not yet come so far: yet hardly one doth recover that might be cured: for so long as vitall heatremains, the apple of the eye shews the representation of him that looks upon it. Gardan.

Of univerfal outward Diseases

Some lay, that Leprous persons washed in a Bath wherein a dead carcass is washed, are cured by it. But we know not concerning what Leprosic they speak: for one is a kind of Scab, another is called Elephantias: Likewise it is not observed, whether that happen alwayes, or perhaps sometimes by chance: yet it is not without reason in the thing it iels: for the matter which was wont to be driven outwardly to the skin, by antipathy to the carcass, is no more sent forth by nature: For this reason of contrariety is naturally even in Insects, and much more in persect Creatures, especially so Doggs and Horses, that they hate the sent of dead creatures of their own kind: how much more Mans nature which is so accurate in apprehending. Therefore Nature in her secret way dares not any more send out the peccant humour, and much more if this be done when the Patient is sensible of it. Cardan de varietat.

To know a true Leprofie.

You shall differen by urin such as are Leprous, for it is full of lead coloured ashes that are sprinkled in it: if they sink there is no contagion in it, but if they flote and flick to the superficies of the urine, it is a most certain fign that it is contagious.

For an Elephantinfis.

Some that have had the Leprofie have been cured by frequent eating of Frogs in Lakes; namely the hear of their blood being abated, and the burnt melancholy being corrected. This you must understand of Frogsthat leap, and not of those that creep or go flowly, for they are venemous, Mizald.

A fafe Remedy for an Elephantiafis.

Hens fed with Vipers, and fod are wholelome food for Leprous perfons, as fome have proved. Mizald.

An Ungnent for a Leprofie. Take Turpentine washed, oyl of Bayes, of each four Ounces, Vineger eight Ounces, White lead, Lytharg, Alocs hepatica, of each eight Ounces, whites of Eggs two mingle them, make an Unquent, Rofeellus,

Cure of the Leprofie.

Also the bath of the first born Son, wherein there remains some of his blood will core Leprous persons, as I have seen the experience. I believe that the cause is sympathy. For the more corrupt blood entring by the veins and arteries draws to it that which is corrupted. Now the blood that is poured forth at ones birth, and is in potentia like to our blood, and more corrupt, and yet more hot by the bringing forth of a Son: this will vehemently urge, purge and extinguish, as the Sun beams put out the same of fire, and cause it to vanish. But what Leprosie this is, and how it differs from an Elephantialis, Scabs and Itch, I have spoken elsewhere. Cardan to subtilitat.

To cure Piles or Hemoroides. Take Frankincense small beaten, Sheeps dung, of each a pretty quantity, throw it upon a chafing dish of coales, and let the discaled take the hime thereof into the fundament by a close stoot. De Johnson.

To cure Hemoroides or Piles.

Take a handfull of Elder leaves, boyl them in water till they be very tender, then take a piece of Scarlet as much as a mans hand, or broader, and wet it well in the decoction, and lay it to the place as warm as well may be fuffered, and when it is cold, revive it again, being wet in the fame decoction as before. Mi Rogers.

To make a man Leprons. Either the blood of the Leprous person is taken, in which Wheat stands long sokeing, and this be given to Hens or Pigeons to fat them, and so the Leprosie is taken, which is observed in all other contagious diteases. Or otherwise, some take Cantharides, the stone Amiantos and a fift part of Orpiment, these are made up with the juyce of the roots of Thapfia or Squills to make a liniment: and with this they annoint hole or thirts, and they will cause an inflation, ulceration and an inevitable Leprofic, wherefore take great heed of them: and if they will have it worfe, and to work more frongly, they add mans (weat, especially of a red and cholerick man, the juyce of Wolfsbane, Toads poylon, or fome such like things, and in a short time they will make a mortall wound. If a Dart be wet in this juyce it will wound and it cannot be cured. But this is the best

Antidose

Against a Leprosie: Let Bread hot from the oven be steeped in the juyce of Endive, Hops and Wormwood, of Vineger and Brimstone insused in it as much, and then let it be dried; cast into this a fixt part and half of the juyce of Maudlin galanga, that is of Goats Rue, and flesh of Vipers equall parts, round Brithwort a twelfth part, a fixt part of Citron pills, and half as much of the feed of it, and of Theriale an equall weight, a little Hellebore and Scammony; mingle them all, and fer them to the fire untill the moisture evaporate, lay it up for use, take of it every third day; If any thing yet remain upon the skin use this Limment; Take Vipers fat, Goats fuct

and

ON

柳

OI

WE

ke-

the

20

it

and

half as much, Bears greafe a fourth part, as much oyl of Capers, of live Brimftone a fixt part, Liverwort four times as much, then pour in Vinegar, and boyl it untill it be fomething dry, then with wax make a liniment and annount with it every other day, untill the icales fall off. The fame:

Against Tetters of the face, and other parts of the body, (the French call them Dertas) take the root of four Dock, and cut it in small pieces, then steep it a whole day in sharp Whitewine Vinegar: then take it out, and three or four times a day rub the place where the Tetter is, very well with it, and put it as often again into the Vineger: or which is better, put in new roots: This is often proved. Some promise that the same will be performed by Borrage roots, that are first chewed by a

labouring man that is fasting, and often rubbed on the place. This is case to try.

An approved cure for Scabs or Itch of the body.

Take Ung nentum Album Campboratum, of Populeum, of Dispempholiges, of each half an Ounce; of Quickfilver quencht in falting spittle, strong Vinegar, or the juyce of Lemmons three Drams, make all these into an Oyntment according to Art: let the grieved party three times together, at night anoint the palms of his hands, wrists, and all the joynts of his body, and the soals of his seet, chase it well that it may soak in: if he be not well in the three dayes, after eight dayes use it again, other three dayes as before. Probatum by Dr. Mathias.

Take Pomatum two ounces, liquid Styrax half an ounce, Lytharg of filver half an ounce, common Salt two drams, juyce of Lemmons what is sufficient; make an tinguent. Roseellus.

An excellent Oyntment for all kind of Scabs, wherewith I have seen Scabs like Leprosie cured.

In May take basil Mints the hearb with the root, purge them clean from filth and wash them, then bruise them, press forth the juyce, and keep it in a narrow glass well stopped for a year. And when you would prepare an Unguent, take as much in quantity of Wax and Oyl of each as of the juyce to make your Oyntment; when you have done this, set them together upon the coles and boyl them, and temper them to an Unguent. Hieron. Tragm.

For a Cancer.

Take Rosewater, Allum, Verdigreece, of each what is sufficient, mingle and wash them every day thrice with cloth woven from thread. One of a Manuscript.

An Amidote against the Cramp.

Take a dew Snail when he is creeping on the ground, and you shall see on the fore part of his body near the head, the proportion of a Scollop shell, and at that place with a slender knife you must cut it clean away, and put it into a little bag and let it dry therein, and then hang it about the parties neck, and it will cure him both of Cramp and Convulsions. Mr. Harvey.

Take half a pound of Butter unfalted, and put into a new earthen pot, let it over a fost fire, let it boyl till it be as clear as water, Ikiming it as occasion serves, shred a good handfull of Danewort or ground Elder, and put therein, so let it remain a good while, then strain it out and wring it hard, that you may have the juyce of the herbs, then anoint the grieved place by the fire. Mr. Jackson.

For the Cramp.

It is a Disease which cometh by the contraction of Sinews, as is evidently seen by chasing near to the place grieved: to prevent it Rings made of Sea-horse teeth are very effectuall, as likewise bands of green Periwinkles tied about the calf of the leg. Lord Bacon.

Take Unguent Aragon, Agrippa, Marciolum, Dialthæas, of each one ounce, Frankincense, Mastick, of each two ounces: Oyl of Bays, of Willows, of Lillies, of each two ounces

ounces: Litharge, Quickfilver, of each half an ounce: Theriac half an ounce, Saxifrage two drams. Unguent of Sanders half an ounce, old Hogs greafe without falt fourteen ounces, Vine ashes one ounce; mingle them and make an unguent. Rofeellins.

A Bath for Consumptions and Palfies. Take fix new Calfs heads, together with their melenteries and feet, as many Sheeps

heads, all well cleanfed, as you would do to eat them: boyl them in water in a great vellel or two, and make a bath. Let the fick use this every other day, in the morning for an hour or two, and as many in the evening. This bath must be repeated nine times, and must alwaies be prepared fresh. Out of a Manuscript.

Of Particular Difeafes.

Of Difeases of the Head. A Charm for the Headach.

To cure the pain of the Headach, Isaw a handwriting hang over one, as you see it written on the side, after that the Patient who Miland vab vitalet could finde no help by Phytick had thrice faid over the Lord Prayer. Cardan.

For destillation and Rheume.

Take Nigella, and Cummin, let them be pared, and put into a linnen cloth, and tie it close and smell to it. Also take Nutmeg and Mace, and chew it in your mouth, or make into pouder, fauff it up into your nofe, and it will cure you. M. Brown.

For the Megrum.

Diffolve Euphorbium in Vinegar, dip a cloth therein and lay it to the contrary fide of the head of him that hath the Megrom. It cureth Gouts also being diffolved in Vinegar: lay it to the forehead and temples, it cureth the Megrum prefently.

For founding in the Ears.

Take of Euphorbium half a dram, Anifeed, Siler mountain, let them be brought into fine pouder and ferced, and with juyce of Rew, Wormwood and Fennell let. them be mingled a day and a night; then strain it into a glass, and at night going to bed let feuen drops be warmed, and put into both the ears. The fame.

For pain of the Head.

It is wonderfull of an Olive tree, that some have found help by it, and been freed from Headach, when no other thing would do them good: they did write this name (Athena ) upon the leaf of it, and bound the leaf about their heads, as Zorozitres writes in his Commentaries concerning Husbandry: which one thing because it smells of Superstition, I leave it to your own discretion. Mizald

For Headach.

The Loadstone laid upon the Head takes away all pain, Hollermi faith he had this Receipt out of the Commentaries of the Ancients.

Headach, a remedy by Vomit.

Take twelve grains of Stibium, made into very fine pouder, put it into four ounces of Claret wine and so let it stand thirty hours, shake it every fix or seven hours: at the thirty hours end, pour the wine from the pouder so long a it runneth cleer; let the grieved drink it with a little Sugar, or Sirup of Violets: it mightily purgeth superfluous humours from the head. Dr Maibeas.

Take Aloes hepatick four drams, Briony, Mattick afarabacca, of each one dram, mix these made into pouder with the juyce of Fennell and a little clarified Honey to preferve them, take eleven drams thereof and make it into five Pils, which you must take early in the morning, and fast three or four hours after; this must be given nine dayes together; to the weak give a less quantity: pouder of Nutmegs fnuft up is good. The fame.

Swelling of the Tongue. Take White wine vineger, and make therewith Mustard as strong as you can, let the grieved put the same into his mouth with a spoon, and gargle it up and down,

V.

Vio

10

1gt

ame.

: 1

自然

this you must do often, for there is no other way to save life: when the mouth is much bliftered and raw with the Mustard, you must take three parts of Plantane water if you can get it, for want thereof Rolewater will ferve, and a part of Vinegar, and with this often gargled in your mouth it will cool the heat quickly, and heal the tongue of blifters; beware of letting blood, for it is prefent death, and if he have gargling, let him keep a piece of Nutmeg upon the tongue. De Mathiat.

For pains of the Head. Take the tops of Willows what is sufficient, a little Rosemary: boyl them in Vinegar untill a third part be wasted, with this wash your Head. Roscellus.

Against forgetfullness and crudities of the stomach, for old men.

Take the three Peppers, Galanga, Caffia lignea, Calamus aromaticus, Saffron, Spicnard of India, Cardomom, Carpobalfamum, Afarum, Ginger, Seeds of dry Myrtils, of each two drams: pound them and lift them, make them up with the best Honey purified, and make an Electuary: The dole is one dram when you go to fleep. A Manuscript.

To stop bleeding at Nofe.

Take a Spider the biggest you can get, put him in a fine linnen cloth, bruise him a little, and hold the fame up to the nose of him that bleedeth, but touch not his nose therewith, but let him smell to it and it will work the effect. Mr. King.

Pills excellent for a weak brain, especially for old men, and such as are

cold of constitution.

Take the best Ambergreece and Amber, of each one dram, Lignum Aloes half a scruple, Cubebs two scruples, with the best Wine make 25 Pills, take two before Supper- Guil. Gratar.

Pills excellent for Memory.

Take Cubebs, (weet Cane, Nutmegs, Cloves, of each one dram and half, best Frankincenfe, choice Myrrh, oriental Ambergreece, of each one dram and half; Musk five grains, with Marjoram water make Pills, take one when you go to fleep, two when the Sun rifeth, or about five hours before meat. The fame.

For Memory. Simeon Sethi laith, that a Partridg gall announted on the temples, once a moneth

that it may penetrate, is very good to help the memory.

The brain of a Hen helps both wit and memory, so that it hath recovered some who began to dore. Guil. grat.

An Antidote that wonderfully belys the Memory, against Lethargy and Forgetfullness: comforts the tomach, and adds force to all parts

egain't flegm and cold. Take Ginger, Galanga, Mastick, Cummin, Origanum, of each fix drams; Nutmegs, Iweet Calamus, Afarum, Cubebs, Lignum Aloes, Mace, Smallage feed, Ammi, of each two drams: white Frankincense, Cloves, Cardammus, Zedoary, Pellitory of the wall, Castoreum, long and black Pepper, Costus, Cyperus, of each three drams; dry Mints five ounces: Pouder them fine, and with Sugar penid and a quantity of clarified Honey make a Lohoch. Guil, Gratarol.

For Momory. If you have a Lapwings heart, or eye, or brain about your neck, it is good for the Memory, and quickens the understanding. Cornel. Agrip.

To increase Memory. If any man swallow a Lapwings heart, or a Swallows, or Wesils, or Moles, whilst it yet pants and lives, this will make one have a good memory, and to remember things past, to have a good understanding, and to divine well. · Cornel. Agrip.

For the Falling fickness. Some fay that he who drinks in a pitched cup, shall be cured of the Falling sickness. Mizald.

Another for the Falling Sickness. If the Herb Crowfoot be bound about the neck of one that is Lunatick or hath the Falling fickness, with a red thread, the Lune decreasing in the first part of Taurus or

20

Scorpie, the patient shall finde great help by it: Some steep the root of it in Wine, and give it those that have the Plague to drink, to make them sweat : which I believe is very dangerous if they have a feaver; otherwise convenient if their forces will endure it. The lame.

For the Falling fickness.

The distilled water of the flowers of Tile tree, is wonderfull to cure Children of the Falling fickness, what way foever you give it them: Some joyn with it Misseltoe of the Oke, with very good fuccels. The fame.

Another for the Falling fickness.

Dividing before the full Moon young Swallows of the first breed, two stones are found in their maws, whereof one is of one colour, the other of divers colours; these before they touch the earth, if they be wrapt in a Calf, or Stags skin, and bound about the neck and arm, they will both case and cure the patient. An Italian told me this, and laid he had tried it. Mizald.

Another.

So foon as Children are born, if before they tast any thing, you give them half a feruple of Corall finely poud red in the Nurles milk, they shall never have the Falling ficknels. Arnoldus de Villa nova.

Another.

Burning either or both horns of a Stag, the fcent of them will drive away Serpents, and discover the Falling fickness. The Jet stone doth the like, when it burns, by the fume of it. Yet that the tume may not be dispersed, the party must be covered with blankets, for then if he be subject to the Falling sickness he will tall. Dieseor. Galen, Apuleius and others.

For the Epilepfie. Little balls of Misseltoe of the Oak stringed through with a thread, do the same thing to drive away the Falling fickness, and to prevent it, that the root of the male Piony doth; and the Emerald hanging about ones neck. Mizald.

The professor of natural Magick say, that Verven gathered when the Sun is in Aries, and joyned with the seeds of male Piony bruiled, and drank in White wine strained from them, doth wonderfully cure the Epilepsie: many have tried this by my advice, which I learned out of a book written by Hermes anciently concerning the feven Planets. Mizald.

Another. Conradus Gefner adds, that he gave that bone that describes the coronal suture, to fome that had the Falling fickness, and they were cured by it. Mizald.

Another. The gall of a Tortois smeered upon the nostrils of one that is in the fit of the Falling fickness, will presently raise him up. Some to drive away this cruel discase, fasten three nails made on S. John Baptists eve, in the place where the Patient fell, and they knock them in so deep that they cannot be seen, and whilst they do this they name the sick mans name. This was told me for certain. The same,

Another.

An Elks claw hath great force against the Falling sickness; for a piece of it set into a Ring, and worn on the finger next the little finger, fo that the claw may be turned next the palm of the hand, will much refresh those that are fallen in the very fit, and presently raiseth them up. The same will a piece of it unset, put into the hand and held there perform; for this strait drives away the discase and makes the sick stand up. Lemnius faith he tried it once or twice. I put a piece of it into ones left ear, and I did rub and scratch the ear with it a good while, and I found it a certain cure for one that had the true Falling fickness, and it feemed miraculous. Joh. Agric. Ammonim faith, the same is to me if one hang or carry about him a small piece of the same hoof, so it do but touch ais skin. And I am certain this Amulet will perform it to prevent the disease. I hear also that in Poland they drink the pouder of it for the same malady, But you must choose the claw of the hinder right foot, and take heed of Impostors who fell Ox hoofs for Elks claws. Mizald.

Book V.

KY.

Gard

ME

DOC OF

3 200

HOU

COB.

in

Set.

3.77

ijer.

nen

C MINC

BOY

mag.

art, b

H

100

stary.

nico

対対

加山

西山

# Secrets in Phylick and Surgery.

An excellent Pouder for the Falling fickness.

Take Gentian, Piony, Antimony prepared with urine, of each three ounces; Mans skull Musk, of each three grains: make a Pouder: take one dram every day. Rofeether. For the Falling lickness.

Some fay also, that if a Piony root with Castoreum and some of a menstruous cloth be given to the Patient, it will cure him. Cornel. Agrip.

Another.

Likewife a stone taken out of a Swallowes nest, is said to refresh such as fall immediately: and bound about them will always preferve them: especially if it be wrant up in Swallows blood, or the Swallows heart. The fame.

Another.

The distilled water of Cherries newly gathered and drawn by a gentle fire, if it be put into the mouth of the Patient fo foon as the fit comes, the force of the difease will abate, be it never to violent. A pretious thing and often tried by Joh. Monardus an excellent Phylician of Ferrara, Mizald.

A Remedy for the Falling fickness.

After the fame way we hang the root of male Piony new gathered, and Pimpernel with a red flower about those that have the fit of the Epileplie.

The King of Denmarks Receipt against the Falling sickness.

Take the skull of a Man, especially of a thref that is hangd, and that died of no difeafe, (for they afcribe more vertue to this than to any other) dry this skull upon a gridiron, and ponder it: Then take three Piony feeds, and one dram of the pouder in a spoonfull of Lavender water in the morning, do so for three days together. This pouder must be taken fasting, and the patient must stay at home three days, drinking but little, and eating meats of light digeftion, as Eggs, o'e. It will not be amis also, that the Patient every day take a spoonfull of Lavender water: Also Unicorns horn is good against this disease. Rantzovius.

For a fit of the Epilepfie. Orphens and Archelans fay out of Pliny, that those that are fallen into a fit of this difeafe will be presently freed from it, if you rub their lips at that time with mans blood,

or do pull and prick luftily their great toes. Mizald.

For the Falling sickness. For the Falling ficknels Alexander hath written, (and to none are we more endebted for Physicall Remedies) that the fat of a Chameleon boyld in Oyl, annointed upon the belly and back bone of the fick, will do fo much good, that he will prefently rife up, and will be cured in feven times annointing him. Nicolaus faith, that one must whilper into the fick mans right car. Let us pray admonished by wholesome precepts: adding the Lords Prayer, and before the prayers be ended the patient will frand up: may be it may sometimes fall out so, or else the whispering into his ear may do him good; or being it is done by blowing, as many Physicians think, the disease may in the mean time leave him. Rinaldus Ipeaks more to the purpole: When the Moon and Jupiter are in conjunction, give unto the Patient for three days, of Mace, feed of Piony and of the root, half a dram, leave of Avens and Primrole (which is the Dafie ) one dram: pouder it and divide it. Cardan. de varietate.

Against the Falling sickness.

Some report if a Ring be made of the white hoof of an Ass, the Patient that wears it shall not have the Falling sickness. Albertus.

If you make a Ring (as some say, and I have seen one so made) of silver, having this written within it, + Dubi, + Habi, + Haber, + Hebr. +, that the Patient shall not fall if he wear it upon his finger. Cardan.

A Remedy for a Convulsion from wind. They fay that the knots of Misseltoe wood that grows upon the Oak, will cure that kind of Convulsion that proceeds from Wind, our Countrymen call it Gramphin. It minft be laft the part where the grief is to drive it presently away : that wood is full of far thin juyce, or elle it is from the lecret property it hath. Cardan and law and it

If any complain of heaviness in the head, and you fear it is the small Pox, give the sick a little English Saffron, in warm Milk; keep the sick warm, and it will bring them out, and being come forth, take raw Cream and Saffron, beat it together and annoint the fores with a seather, and it will heal them without sign or spots. Dr Mathias.

Far Melancholy.

It is no small Remedy to cure Melancholy, to rub your body all over with Nettles.

Cardan.

Mgainst Fear and strange Apparitions.

He that holds in his hand a Nettle and five leaved grass, shall be safe from all fear and frightfull apparitions. Mizald.

Against the bitings of mad Dogs.

Those that are bit by mad Dogs and desire water, and yet are afraid of it, it they be suddenly cast into the water when they think not of it, one sear drives out another, and they are cured by it. Lemnim.

Another for the biting of a mad Dog.

Take the Liver of the fame mad Dog, boyl it well, and let the Patient eat thereof, not knowing what it is, and it helpeth. De Mathias.

Against the fear of Water.

Ætim reports, that if those that are afraid of water, eat but once the Runnet of a young beast with vinegar, they will presently desire to drink water: this remedy is highly commended. Mizald.

For Drunkenness, Wormwood and the stalks of Almonds are good to chew beforehand, to keep us sober. Cardan.

There is a certain Fish or great Serpent called Myrus, whose eye if you take it forth and binde it to the patients forehead, they say it will cure an Ophthalmy, and that the Fishes eye will grow again: but he will be blind of one eye that doth not let the Fish go whilst he is alive. Corn. Agrip.

Take a handfull of Carduus Benedictus, stamp it small and temper it well, with half the white of the Egge, and therewith make a plaister, laying it on flaxen hards, and binde it hard upon the eye, and there let it remain untill it be somewhat dry, and then apply another, and so use it every day till your Patient be whole. Mr Harvy.

Eye and Sana to unite.

Take twelve streyns of new laid eggs of white Hens, labour them in a morter together with a pestle untill they be united in manner of an oyntment, and so reserve it in a glass, and twice a day and once a night put a little of it into the eye, and it will knit the tincle together again if it be hurt. Mr Huighes.

Take Maydew taken from green Barley, a little Bay falt, and a small quantity of Honey, of each alike; put all into an egge shell, boyl it therein and kim it with a seather, and when it is boyled strain it with a fine cloth, keep it in a glass, and therewith annoint the eye; but withall take of Hemlock and Bay salt a pretty quantity, pound it together and apply it to the hand wrists. De Johnson.

Take of red Rosewater four spoonfuls, of Smyrene three spoonfuls, the runnings of two Eggs, the quantity of a small Bean of Honey, put all these in an egge shell, set it upon some embers in a chasing dish untill it boyl, skim it with a seather and reserve it for use, dropping three or four drops into the Eye morning, noon, and night. Probatum. Dr. Clorke.

Take of Dasie leavs and roots, red Fennell and ground Ivie, of each alike, stamp them well together, and mingle therewithall Womans milk; for a Woman you must

Litter.

they

critic,

E OLI

DE L

let the

WILL

, and

196

to to

THE

WI

170

diw

must take the milk that a man child sucketh, and for a man the milk that a woman child sucketh, this being mingled together with the Herbs strain it out, and put it in a glass for your use, and morning and evening put a drop or two in the parties eye, Dr. Mayerne.

For diseases of the Eyes, as the Haw, Clowds, white spots and the rest, One told me that this following remedy is the best in the world. Burn the head of a Cat all black in a new earthen pot, till it become to Ashes; make it as fine as any flower, and with a hollow clean Quill, blow some of this powder daily into the eye that is fore. But if any heat, especially in the night offend the eye, put two or three Oken leaves wet in water upon the eye, and then turn them again fundry times. He that invented this Secret, said that the sight may be recovered by this remedy after one year, that the party hath been blind only: and you may try it if you please. Mizald.

Take Fennell, Wormwood, Smallage, Rue, Stonewort with the roots, eye bright, Sage, Bettony, Orpiment, Pimpernell, Cardum Beneditim of each equall parts. Bruse all these in a Mortar, and mingle them, and powre in Boys urine, then take Corns of Pepper beaten sourteen, Honey two Spoonfuls, Camphir one dram. Beat all these together in a Mortar, and press them through a Linnen Cloath, and keep the juyce strain'd forth in a Glass, and every day morning and evening drop one drop into the Patients eye. Take notice that this water must be set nine daies in the Sun, and distilled before it be used. Hen, Rantzovim.

Take a Pottle of Fountain Water, of Cinamon half an Ounce, of Rice husked half apound, boyl thele together till it come to pulle, and when it is cold, warme fo much upon a Chafing Dish of coales, as you will eate: green Medlers from the Tree, work the same effect. Dr. Mathias.

Take crud liguum Aloes, Roses, Cloves, of each two Ounces, Spicknard, sweet Calamus, Myrrh, Calamint, of each one dram; make them up with good old Aromaticall Wine, adding Musk six grains, make Pils as great as Pease, and dislove one at a time with oyle of Spike, and drop it into the Nostrils, or put it in with a Tent, first washing the part with pleasant sented Wine. Alex.

Take juyce of Beets, of Marioram, of each one Ounce, Oyle of bitter Almonds one dram; Mingle them and draw them up into your Nostrils. Fioravantus.

Bloud running immoderately out of any part of the body, will be prefently ftopt, if Hogs dung yet hot, be wrapt up in fine thin Cotten linnen and put into the Nostrils, Womens privities, or any other place that runs with bloud. I write this for Countrey people rather then for Courtiers, being a remedy fit for their turne, Mizaldus.

It bloud run out of the Nose it will be often stopped by pressing the Nostrill that bleeds, close with your singer; Some write upon the Patients sorchead with his own bloud, Consummatum oft. Card.

A Charme to stop Blond.

It happened once to me, that my lip being cut off, the bloud could be stopt by no art, especially because I did eat. I laid Salt on it, and I bound it up, but all in vain. Wherefore I used that charm, is taken from our Lords Passion; and the bloud stopt presently, that I wondred at it; and let me eat or speak no bloud more appeared, though I telt great pain of it, and the wound was open. You will admire, and I cannot tell whether it were my faith or the words that cured me. Sanguis mane in te, sicut feeit Christis in se. Sanguis mane in that vena, sicut Christis in su pana. Sanguis mane six us, sicut Christis quando suit Crucisismus. Repeat this thrice. Card.

8

Take Cats greafe, juyce of Wormwood, old Oyle, of each what may suffice equall parts. Mingle them, and drop thereof into the ear. Sextus Empiricus.

Take Sage, Marjoram, Rosemary flowers, Hylop, Mugwort, Horsemint, Calamint, Camomile, Yarrow, St. Johns Wort, Southern wood, Savory, of each one handfull. Boyle them in water in a Glased earthen pot, and hold your ears over it, that the smoak may enter, chewing something, as Beans, continually, that the holes may open the better, and do this so long untill the decotion grow cold: when this is done, take oyle of Coloquintida, and drop in one or two drops; then wet Cotten in the same Oyle, and stop your ears. Lastly, Lay some of the same Herbs upon it, when you go to sleep, use this every day, and it perfectly cureth. Rose scallars.

The benumming of the Teeth, called in Greek alaudia, is cured by chewing of Purcelane, in your mouth, as Aphrodifant faith. Also rubbing the Teeth with Salt will do it, or chewing some cheese made of Sheeps milk. And you shall find no remedy better for your Teeth assonished, than a small Plaister made of Pitch, or melted Rosin, with powder of Allum, and Galls, so you lay it upon the temporal arrery a little above the tooth that is paind, and let it lye so all night, or for some daies together. But that is best to scarifie the grinding teeth of the uppermost Jaw. Believe

(as the Proverb is) Robin that hath proved it. Miz.

Of late I had a great pain upon my upper Teeth, the two last of the lest Jaw; and by consent with them, all the other Teeth were afficited on the upper Jaw of the same side, and the whole Jaw indeed, that I thought the bone would be torn in pieces: it also tormented my eye, ear, and part of my nose, and nothing would do me good, but it still came again, with my right hand I pulled my Teeth but sound no ease. At last by chance I perceived that when I gently moved the pained Tooth with my lest hand, and laid hold of it with my thumb on the out side of it, and my soresinger on the inside, presently not only the pain of that tooth but of the whole Jaw lest me. But that seemed more strange to me that the more gently I touched it, the better it was for me, and the pain lest me the sooner, and it was presently well and still as the pain returned I tried this often above twenty times, untill it quite lest me, and so I was cured. Cardan.

When Teeth are aftonished by eating sower things sharp or cold, Purcelane chewed is wont to be the remedy, and it cures all hot fiery tiching, and heat of lust and vene-reous dreams, &c. Mizaldus in Horto medico.

Take a Moles tooth out, and let the Mole go, this will cure the Toothache, faith Cornelins Agrippa.

Another for the Toothache.

It offtimes cures the Toothach, if you touch the Teeth with the hip boanes of a Toad, for there is Antipathy between them. Card.

Take wood of Guaicum one handful, Aqua vita, what may be sufficient: mingle them and hold them in your mouth. Out of a Manuscript.

Take Aloes Succatrince, of Myrrh, of each alike, fine Wax, as much as shall suffice, make here of a ball, and steep it in Aqua vita four or five hours, then with a cloath wash the Teeth that ake. Note that the Glass must be stopt when the Ball is put in. Mr. Clarke.

Take long Pepper, Mastick, Origanum, Savory, Wood of Balsamum, Pellitory of Spain, of each half an Ounce, bruise them, and insule them in one Ounce of Aqua

題

G.

00

世の日

Vi,

300

MI

TIC-

Tya

Ugt-

200

2000

: 200

die die

oun

dat

Wind.

011

tot

Aqua vita, drop a little of this water into your Tooth. Rofcellus.

For the Squinfey.

Mans bloud is so soveraign a remedy, that those that have the Leprosic have been cured with that only in a Bath; and Orphens and Archelans write that the Squinsey will be cured by it.

Take the dung of a Hog newly made, and as hot as you can get it, apply it to the place, and it cureth. Dr. Matthias.

Another.

Take of young Swallowes and their nests, of Strawberry strings one handfull, one handfull of Costmary, the Herbs being small shred and sryed in a Pan, then press out the Oyle, and keep it in a glass, annoint the fore throate of him that hath the Squinfey, and wrap a warm red cloath about it. Note, the Swallowes and their Nests, and the Herbs small shred, must be pounded together, before you frye them. Dr. Mathia.

A Cataplasme made of the powder of burnt Swallows and of their Nests, is singular to dissolve swelling of the Throat, and to cure the Squinsey. Miz.

Another.

A hedg Toad boy led and laid on for a Plaister to them that have the Squinsey, is so good a remedy, that I cured one with it that was dying, and the Candles were lighted for his Funerall, as the custome is. I believe that a thred can do the like, which a Toad hangs by until he dieth. Car.

For Scrophulous Tumours.

All the feet of a great hedg Toad cut off whilft he is alive, whilft the Moon is in her void course, and hasteneth to her conjunction, hanged about the neck of one that hath the Kings Evill, will be so effectuall, that they often times cure the Patient, Cardan.

If the uvula grow lose by a distillation from the head, the juyce of raw Coleworts laid upon the crown of the Head, will draw up the uvula again into its proper place:

This is a Secret in Nature. Mizald. in Horso medico.

Roughness of the Tongue,
To mollifie or coole the roughness of the Toung, and to temper and moysten the heat and dryness of the Tongue or Throate, take as often as you shall need, a spoonfull of Syrup of Violets, Mr. Toung.

The dry excrement of a Boy mingled with honcy of Athens, is an excellent remedy for the inflamation of the uvula, that is dangerous to choake a man. But that Boy must be sed two dates with Lupins, with the finest Bread well leavened and salted and he must drink old wine moderately, that he may digest it well. The third day the excrement must be taken and dried, and used as I said before. The sless of Hens and Pattridges boyled in broth is good to eat for him, but that his excrement will stink the more. This was Galens Secret, as he saith, which he obtained from a Friend, with much intreaty, as he writes himself.

For extream heat in Children, proceeding from inflammation of their brains.

Nettles beat in a Mortar with a little Populeon added to them, and applyed to the Arteries of their Temples and Wrists, is an admirable remedy to extinguish the heat of young Children, in two daies at least, if it be renewed every four houres.

Langing.

Atim faith, That a Child will not fneez in that house where there are Storks feathers.

Those that fall into a swound are raised again if you pull the joynt of the Ring, or of their middle finger; or rubbing of it with gold, and a little Saffron: for from this a reviving

四四月四四

a reviving spirit runs to the heart, the fountain of life. Lemning, and a state of the

Stitch of Wind or Collick.

Take Fenugreck, Linfeed, Cumminfeed, Annifeed, Bay-berries, Fennellfeed, Corianderfeed, of each a prosty quantity; feeth all thefe very well in water, and put both the water, and the feeds very not into the bladder, knit it fast, and apply it to the place, as hot as you can fuffer it, and when it is cold, warme it again in the skillet, and apply it full untill you be well, which will be in a short time. Mr. King.

Collick

Take of Cardnus Beneditius feeds, stamp them, and drinke them with white wine: it doth help the Collick and pain in the lower bowels; the feed of the great Lote uted For the Cough. a change in apple of Out lo, workern the like effect. Dr. Runrig.

Take three or four foonfuls of clear running water, or more il you pleafe, if it be in the Summer; if it be in the Winter take the like of Aqua vira, put thereto a spoonfull or more of Sugar, or Sugar-candy beat into fine powder, let the Patient drink thereof morning and evening for three daies together. Dr. Johnson.

Another.

Take Elicampane root, mixed with the powder of Licorifh, and white Sugarcandy, whereof you must take a spoonfull at one time. The same.

Another.

Take foure peny worth of Ginger, eight peny weight of Elecampane roots, half an Ounce of Licorish, all made into powder, one Ounce of powder of Anyleeds, one Ounce and half of Sugar-candy; mix thefe together and eate often every day. Dr. Jones. Of Discases of the Breft.

and to days and the hand For Childrens Congbs.

Tabariensis saith that it you hang a stone of a sponge about the Childs neck who Coughs exceedingly, his Cough will leave him; and when this is put into an Asses head, or the hinder part of a Beetle, he is in a fwound, and will not turn himfelfuntill it be taken forth from him. Albert.

For difficulty of Breathing.

Jacobus Clattenzamus a young youth, who for seaven years was troubled with thortness of Breath, with frequent, long, and cruell fits, and was lest by other Phyficians, was cured by me in two Monethstime, and grew fat : but I used another way, for I applied the depilatory of Panius to his coronall future, which he used for pains of the hips, adding some honey of Anacardus to it, for in one day I drew forth two pound of water: I did the same the day following, but there came not forth so much water: and thus he was cured. I think Spanish flies will do the same, that honey of Anacardi will, and also Euphorbium; Also I mingled one grain of Elaterium with three Ounces of Milk, and I bad him Inift it up into his Nose : and this did much good; but before all this, I purged his body with Pils, and dried it with thin diet, but yet moift, and of little nourifhment, then I gave him the decoction of Guaiacum to drink. Cardide curationibus admirandis.

Take the weight of a French Crown of Aloes Succotrina in the pape of an Apple, and it will purge the Stomach. Dr. Marbias.

Liver to purge.

Take a dram and half Ruburbe fliced, put into it three or foure spoonfuls of endive or fuccory water, and let it inluse all night on warme Embers, and in the morning let it warm alittle, then drink it. Dr. Mubia.

Blood Parge. Take Guiacum fliced, and fleeped all night in water, and fodden to the half, make broth with that liquor, with a little Mutton and fruite and cat, it, it purgeth the bloud, and drinketh up its humours. Dr. Clarke.

Another.

A. N.

alla.

E high

Pics.

120

Pine:

Title

01

there.

Mil.

e who

100

WILL

Av-

MAN T

Mile

nh fo

1111

ditte

E SEE

据位

14

Aire

此

Another.

He you make purging diet drink, and boyle therein Scurvy Grafs, it purgeth and clenicth the blond exceedingly. Dr. Read.

Take five or fix sticks of Licorish clean scraped and bruised, a good stick of Cinamon bruised, a race of Ginger sliced, maiden haire a handfull, two Croppes of Hysop, of Coltstoot two or three leaves, of spring Water a quart, insufe all these in a Jugge close stopt, set it by the fire upon some Embers, for the space of six houres, then take six spoonfull of the liquor, and a spoonfull of Sugar Candy, and mix them well together, and so drink it in Summer cold, and in Winter warme. Dr. Mathies.

The powder or shavings of a Bores tooth half an Ounce made very fine, and mingled with Barly Water, or of red Ciches, or some pectorall decoction, and drank by one that hath the Plurisie, is an approved remedy to stee the Patient from danger.

Mizald.

Another.

Take a ball of stoned Horse dung, throughly dryed, beat it into powder, and let the sick drink thereof, and it will cure him. Dr. Clarke.

The best and most easie remedy for a Pluresie, wherewith to speak nothing of others, I cured a

Take a fweet yellow Apple, cleanfed from the kernells within it, fill this with Frankinfence; then cover it with a cover of its own, and roft it under hot embers, untill it be well rofted, and not burnt; cut this Apple into four parts, and give it the fick to eate; when this is done as it must be done, the Impostume will prefently open, and the matter of it will come forth, and the fick Patient will be cured. So was this Smith cured when his Teeth were thut together, that we were fain to open them with an Instrument: but when he had taken down the Apple and lain still half an houre, he presently cast up a great quantity of matter, then he fell asseep, when he awaked he called for meat, and was recovered by Gods assistance. Alex. Pedament.

The filing or pouder of the greatest Teeth of a Bore must be given in a spoon with Lineseed Oyle. Offavius Landas.

Take Oyle of Roses six Ounces; Turpentine one Ounce, Brimstone finely powdered one Ounce, Hogsice pounded one Ounce. Boyle all together for one houre, then straine forth the Oyle and annoint the part affected with it. Roseellus.

Take of March Sand a small handfull, put the same into grounds of Ale, put thereto a pretty piece of Butter unsalted, and break it into pieces as big as Beanes, with the yelks of two new laid legges, stirre it well together, then thicken it with with the yelks of two new laid legges, stirre it well together, then thicken it with shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is shower, put as much of this in a frying Pan as will cover the Brest, and when it is

For an Impostume within the Chest.

If any one have a Pluresie or Impostume in the Brest, let him take a scruple of Nettle seeds in powder with Symp of Violets, or some other pectorall Syrup, and Iwallow it down by licking it up by degrees; he shall cast up the clammy matter without pain. This was a Secret of one who was no ordinary Physician at Paris.

Take Colesfoot, Snailes cleanfed, Hysop, Maidenhaire, greater Comfrey, of each what is sufficient; put them into a leaden still, and distill them in balneo, let the Patient drink thereof every morning one cup full, upon an empty stomach. Refeellus.

Another.

日西日

T

Pol

1511

de with

Another.

Take flowers of Brimstone ground fine upon a Porphyrstone with Rose water, what is sufficient, conserve of Roses what will serve to make an Electuary. The dofe is half an Ounce, when he is fasting that is your Patient. Anonymus.

Take Lung wort, Rofemary, Betony, Maydenhaire, of each two drams, clarified Honey one pound, leffer Comfrey eight Ounces, Coltsfoot one Ounce, Violets one

dram; minglethem and make an Electuary according to art. Rofcellus.

An approved and casie remedy for a Consumption. Take Coltsfoot, Hogs Lard well beaten of each what is sufficient, one fresh egge, Mingle them and make a Cake on the fire, when the lick hath uled this nine mornings, he shall find an admirable help by it. This will also fat lean People. Alexions and va

Another.

Law, her name was Dataria, after I had left her past recovery in likelihood, of a dangerous Consumption. Shee had a vehement Feaver, short breath, a great Cough, and face thit up much corrupt matter: wherefore when other remedies were to no purpole, I commanded that the should have no meat besides a Ptisan, and water mingled with Sugar : but that every morning the should drink four Ounces of the Decoction of the Tailes and Claws of Crabs, in Barly water with two drams of Sugar, and the recovered perfectly and was cured. With this very remedy I have cured very many who are well; and one of them I gave remedies to, was a Maid that was daughter to a Man, that died of a true Confumption. Card.

and vitabling Ferian Impostume in the Chest, and a Consumption. I cured Adrian Belga of a dangerous Impostume, a young Man that was forfaken of very able Phylitians, a very mannerly Youth : for I never found any more gratefull than himself. He was a Clark belonging to Don Alphonsus Peson, the Kings Treafurer. I tried diverfe waies to cure him, for he had a feaver, and a continuall Cough, he spit up filthy matter, and was of short breath, four years since this began; and I was forced to let him blood, because I seared more danger, as I did the disease he had; at last by the use of Snails, and a Syrup made of them, and by a slender exact diet : Wherein other Physicians had failed, not observing it, alowing him egges and flesh, at last I cured him that he married a Wise, and he is yet well and mindfull of me. But I used also distilled waters that I spake of before and also the Decoction of Guaiacum, with moistening and expectorating meanes: Namely, the Honey of Marsh Mallows, and Comfrey roots, Scabious, and Licorish, with the Leaves also of long Birth-Wort. Card.

To stop Vomiting.

Take a Tofte of houshould Bread made of Wheat; tofte it at the fire till it be brown, then moysten it well with stong Vinegar that is made of Wine, and lay it on the Stomach as hot as the fick can well endure. Dr. Mauby.

Another.

Take a handfull of Garden Mints, boyle them in Ale, and skim them as often as need is, give the fick a draught thereof warm. The fame.

The Juyce of Basil drank half an Ounce with half a scruple of Saffron, doth wonderfully help those that are short winded. The fame.

For inward wounds.

If any one be wounded inwardly, let him drink the Decoction of Avens roots, and that will cure him. And if wounds outwardly be washt with the same Decoction, it will do much good; it avails, also for spains of the breft and fides, and to dispell internall crudities.

Take a Pint of pure Sallet Oyle, bruile a good quantity of Camomile and put there in, fet it in a Glass in the Sun five daies, straine it through a fine linnen Cloath,

ook 7

Carrie

Dicts our

THE PARTY

te Circi

004,001

Coupi,

et to no

世界が us of the

wof Su.

With City

THEFT

akanai

会はな

B.Tita Cott

1 201

helada

t diet : diffet,

loine. Ganz-

mate.

TOT AT

g001-

Cloath, and let it stand in the Sun as before five daies more, thenstrain it again, and fer it in the fame the third time, and so let it stand till it be clean purified from any dregs, and then put it into a clean Glass, and keep it close stopt till you have occasion to use it, annoint the bruiled place two or three times aday, chafing it before the fire, and it will help: this Oyntment will last twelve years. Mr. Clarke.

Another. Take Brooklime, Smallage and browelworr, fry them together in Sheepfuit, then take stand straine it through a fine linnen cloath, and it will be ample, then take a pretty quantity of Sperma Ceri, and mix it well with the fame Oyl, and then often annoint the grieved place therewith, and it will help. The fame.

Tellow Jaundice. Take Alloes Hepatick, the Gall of a Bull, of each alike, mingle it with Syrup of Violets, and take thereof very third day, use this Medicine so long as you see need, Probatum oft. Mr. Moulins.

Another. Take an old piece of rusty Iron, be it Horse-shoe, or any thing else, lay it in the fire till it be red hot, then take it out of the fire, and let the Patient make water upon it, and take in the fume thereof at his Nose and Mouth, using this three daies together morning and evening, and it shall perfectly cure him. Dr. Clarke.

## Of Diseases of the Belly.

For pains of the Stomach, and to procure an Appetite. Alpoonfull of the powder of Amber must be taken in white Wine, or in broth, I had this from the most Reverend Legat Pronotary Biglia of Millan.

For pains of the Collick, and inward Impostumes. Scrape the skull bone of the Patient, or file away some part of it in that place where the future is in the forepart of the head, in the upper part like a Cross; of that powder, with broth or water, or wine if there be no Feaver, give the Patient one dram, or half a dram at one time to drink; it will make him vomit and purge exceedingly; wherefore you must give it before the Patients forces are spent. The same.

To strengthen and bind up the mouth of the stomach. Take powder of Coriander prepared one Ounce, of Annifeed half an Ounce; of red Corall, Cinamon of each half a dram, powder of conserve of red Roses dried five Ounces; Let the Patient take a spoonfull after meat. Out of a Manne Script.

Bloody Flux to Stop. Take a quarte of red Wine, and fet to the fire untill it boyle, roaft two or three Egges hard, and take out their yelks, and with some of the Wine put into a Vessell untill it be cold, bruife the yelks of the Egges, straine it and put it into the Wine over the fire in manner of a Caudle, adde there unto two or three penyworth of Cinnamon finely beaten and fearced, and put the fame into the Wine over the fire, let the diseased drink of this morning and evening very warm. Dr. Martin.

Another. Take fine flower, the yelk of an Egge, and so much Pepper reasonably beaten, as you can well endure, knead all these together and make it into paste, then make it up into Cakes a little broader then a Shilling, bake them upon the backfide of a frying pan, turn them that they burn not, and fo eat them. Dr Mathias,

Belly lose to belp. Scrape a handfull of Polypody clean, boyle it over the fire, then put the root and the water into a cloose stoole, let the sick sit thereon, use this two or three times in a day, and this used three daies will cure the fame. De Mathias.

Liver to open, and Stomach to comfort. Fill a runlet of four Gallons, and a quarte of ordinary Beere when they tunne, and when it bath almost done working, put therein three ounces and a half of Worm-wood, an ounce and three quarters of Reddish-roots, stir them both with a stick to the bottome of the Runler, and when it hath done working stop it, and after it is a fortnight or three weeks old, drink a good draught of it every morning falling for four of five daies to ether, and then for ever after take it as you fee caule. the Liver, and comforteth the Stomach above all things. Gather the Wormwood in May before it is feeded, and lay it in a clean Roome upon a Shelf, turning it every fecond day till it be through dry; gather the Reddiffi-roots between Michalmas and Alballowide, and lay them on a clean Board to dry; wash the Wormwood that the water may run from it when make your drink; scrape your roots clean and pick them, and flice them into slices before you put them in. D. Maibias.

An approved drink for the Tifick.

Take a postle of clean water, put it in a skillet to the fire, put therein of Barly husked four handfuls, let them boyle a while, then prepare two Pennell roots, two Parfely roots, two or three branches of Hylop, and the roots aforelaid must be clean scraped and slits of Fennellseeds, and Annileeds of each two dams, Licotish clean scraped, a little brushed half an ounce, Figs in number twelve sliced in slakes, two Dates purged from the white Rind next to the stone, put all these together, and let it boy! till the confumption of half the water be confumed, drink of this morning and evening

three daies together. De Johnson.

For a Stomach cold and moist.

Take five leaves of Sage, three crops of Rolemary, seaven crops of Camomile, ftamp all well together, adde thereto a reasonable draught of drink, use it three or four mornings.

To corroborate the stomach.

Take species diarrhodon Abbatis three drams, powder of the three sanders two drams, Aromaticum rosatum one dram and half. Of the four great coldseeds, each half an ounce, Syrup of Apples one ounce, whitest Sugar what is sufficient. Make little Tables of two drams weight a piece, let the Patient take one every day two houres, before dinner, adding conferve of Rosemary flowers half an ounce, Myrobolans Chebuls two ounces. Vincent Laur.

A Medicament against hear of the Stomach, which the Germans call Den God. Take old Sugar of Roles and Crabs stones, which being powdred sprinkle into your Sugar of Roles, adde a little Bolearmoniack : Mingle all these together; yet observe that the Crabs stones must be half as much in quantity as the Sugar of Roses. Rantzovius.

Another.

Take one ounce and half of chalk, three Nutmegs, one ounce and half of the finoff Sugar that is brought from the Canarie Islands, make a powder, Rant-

To diffolve Fleghm in the Stomach.

Take the pulp of fat figs, pulped through a five fix ounces, the inward part of wild Saffron feeds one ounce and half, the best Rheubarb three drams and half, Cloves, Cinnamon, Nutmegs, of each one dram. Mingle all together, and with Syrup of Citron Pils, make an Electuary pretty folid: let the Patient take half an ounce twice in a week three houres before dinner. D. Lepor. Dal.

For Inofeneß in the Belly.

Take of Crocus metallorum, or Stibium ten or twelve grains, made into very fine powder, put it into four or five spoonfull of Muskadine, and let it stand two daies, shaking it thrice aday, the third day power it out cleare from the dregs as you can, and to exhibite it. The fame,

For vomiting at Sea. Bruile Wormwood and Peneroyall with Oyle and Venegar, and rub the Patients Noftrils with infide often: Smallage feed drank doth as much: for it hinders loathing of the stomach, that it will not move, and if it do move it will stop it, and so will Wormwood. Alex. Pedemont.

For the Collick. The root of white Henbane hanged over one that hath the Collick, it helps him.

Another

R V.

NOO!

THE

to and

OSE

Digital .

hak.

Pith H

LTD. olas.

D25

II boy

vmng

dia

de Ta-3 10.

T; jtt

will be

Joves, mp d

I DEAC

des.

wan,

wath. OFIL

x him

ester.

Another.

Alexander faith that if you take some of a Childs navell string, that comes forth when it is cut, and put this under a stone of a ring of Silver or Gold, he that knows not of it shall never be troubled with the Collick. Albert.

Another.

The Hoofs of living Creatures burnt are a fingular remedy against the Collick. Rhalis.

Another. Moist and new Spermaceri helps pains of the Collick, and all inward pains, given with other things that disperse wind. Yet let men take heed they use it not when it is old, or deal too much with it, for it is exceeding dangerous. Out of a Germane Phy-Another.

I know one who drank dry Ox dung ignorantly in broth, and it prefently cured him of the Collick. I have heard also by sufficient men, that many countrey people have been cured by drinking it. Some do not drink the dung but the juyce preffed from it, which is far better. Gefner.

Another. The heart of a Larke bound to the thigh is excellent against the Collick, and some have eaten it raw, with very good fuccels. A certain Spaniard reports it. Another.

If the tender horns of young Bucks be cut into fmall cakes, whilft they are yet covered with a hary thin skin, and put into a new earthen pot, well covered, and fo fet into the Oven to torrefie, powder made of them, with Pepper and Myrrh added thereto, drank with the best Wine, will help pains of the Gur Colon. Scribon Largus. Another.

Any Bone of a Man hanged fo that it may touch the flesh, is thought to cure pains of the Belly that come at certain times. Miz-Another.

This is certain that Wolfs dung, guts or skin eaten, will cure the Collick; or if you do but carry them about you, for they strengthen the Colon. Card.

An ther. The Navell string of a Child cut off when it is born, carried in a filver Ring that it may touch the fleth, hath cured many of the Collick, as I have feen it : that by this means they lived healthfull many years: It may be they had a good faith to believe, for I cannot think this will help all. The fame.

For torments of the Belly. They report, that when the Belly is pained, if you apply a living Duck to your Belly, the difeate will pass into the Duck, and she will dye, but you shall be cured. Cornel. Agrippis.

For Collick and Nephritick pains. Take of the most biting Raddish one ounce, stones of Medlars two drams, break them gently, and steep them eight houres in four ounces of the best white Wine, then strain it, and it being moderately hot, give it the Patient to drink when he goeth to bed, and when he is in bed, renew the fame dole and give him, if need be, a greater quantity, or a lefs, as age and constitution will admit. Some there are that will give me great thanks for fo wholesome a remedy. Miz.

An Electuary against Wormes. Take leed of Hartichoke one Ounce, white Dittany two Ounces and a half, Saffron half a dram, Honey clarified two pound, or what is sufficient, make an Electuary. The dole is half an Ounce. Rofcellus.

Venemous Wormes Biting Take an Adle Egge, which is found in a Hensnell, which is hatched, take the Egge and break into a dish, and beate the same well with a wooden spatter, then wet Tow therein, and lay it to the Wormes biting. Dr. Mathias. Fer

There is nothing better to drive out Belly Worms, and the rest, than Worms dried on a Tile at the fire red hot, and to give the powder of them to Children troubled with the Wormes, for this prefently drives them all out of the Body. Lemnius.

Another.

Take a handfull of Water-creffes, fry them in a Pan, till they be somewhat hard, but not burned, put them between two linnen cloathes and apply it very warm unto the Navill, Dr. Mathias.

Another.

Take Unquentum de Arthenira, half an Ounce of Alloesepatick a dram, a dram and a half of the Leaves of Centry and Wormwood brought into powder, as much of the Oyle of Savin as shall suffice to make it into a Plaister and apply it to the Belly. Dr. Clarke.

Another.

Thave proved by experience that Rayfins eaten will drive forth Wormes from Children, if you give them to eate alone fasting; for as bitter things do it, solweet things taken plentifully do the same, and are an enemy to Worms, for they will stretch and break with plenty of sweet things Lemnius.

For a Dysentery.

Take Hares runnet, Hares blood what is lufficient, of each a like quantity; Mingle them and give them the Patient. This cures all Belly Fluxes. Alexius. Mi-

Many have cured bloody Fluxes that were infectious, with the decoction of the tops Althau in Wine, if there were no Feaver: or of Plantaine or Barly if there were a Feaver. I was affured it was a Secret of a Spanish Physician.

Mens bones made into fine powder and drank in sharp red Wine, cure all raging Fluxes of the Belly, Miz.

For an bepatick Flux.

Rhafis faith, That Ducks livers have a property to stay all Fluxes that proceed from the weakness of the Liver.

For the Jaundies. Broth made of Strawberry Leaves and Roots, eatenfor some daies together of one that hath the Jaundaies, cureth him perfectly. This was a Secret of a certain Monk,

whereby be gained a valt summe of Money.

For the water of people that have the Dropfie. The powder of the Loadstone three half peny weight drank in juyce of Fennell, draws away the water. Mizald.

Another. It is a wonder that some say, how that a River Snake if he be tide by the taile with a cord, and a Vessell set under him full of water, that which he casts out of his mouth in a few hours or daies will be a stone, that falling into the Bason, will drink up all the water. Bind this stone to the Belly of any man that hath the Dropsy, and it draws out all the water. Hollering.

Another.

Clysters of the Decoction of Carduus Benedictus in urine, being often given cure all

Droplies. A Manuscript.

Take Indian Spicknard, Woolfs-Liver, of each half a dram, pouder them, and mingle them with Syrup of Wormwood, make eighteen Pils, let the Patient take three every day upon empty fromach. Anonymus.

Another. Take liquor of Tartar, water of Gentian, of each one Ounce, spirit of Vitriol three drops, oyle of Brimstone sour drops, Treacle water what may be sufficient. Mingle them, let him that hath the Dropsy drink this before he goeth into a stove to sweate. Ananymus.

Another.

and

WOOD Rill

hitt

Take of Polipodium two handfuls, with the roots clean pickt, four or five Parfely roots, with a little Marsh mallows, boyle them in a Pottle of faire running water, till half be consumed, adde thereto an Ounce of Sene, two or three Liequorish sticks, take in a morning a quarter of a pint, with as much Diaphanicon as a Hazell Nut, also as poonfull of Syrup of Roses, the same at night. Dr. Mathias.

Take of Sallet Oyle half a Pint, if the Humour be hot Oyle of Roses, when the Humour is so hot that it scaldeth, a quantity of red Leade, and a like quantity of Wax, all which boyle together till they look black, then dip your cloathes into it, and being throughly foaked, take them out, let them lye while they are cold, then role them up, it will remain good four or five years. Dr. Mathias.

For the Stone, of the Emperour Maximilian the second. Take the best Rheubard two drams, Galanga, grains of Paradise, Anniseed, Fennelfeed, Agarick, Mastick, Cinnamon, of each one dram, Licorish half an Ounce, Jews stone three drams, Mithridate five drams, Mace four drams, Cloves half a dram, Aqua vite one part, Malligoe two parts. Put all these into a Glass excellent well stopt for sourcest daies; then distill them, let the Patient take a spoonfull twice aweek upon an empty Stomach. Out of a Manufeript.

A ponder for the Stone. Take Cherrytree Gumme, Grommel feed, of each two drams, Parfely feed, Melons feed, Mallows feed, Licorish scraped, of each three drams, Sugar candy ten drams,

make a very fine pouder. Out of a Manufeript.

For the Stone, and foulness of the Bladder. Take Fennell root, rest harrow, Germander, Betony, Pellitory of the Wall, Wall-Flowers, Rosemary Flowers, Sage, Bay berries, Juniper berries of each half a dram, Broom seed one scruple, of Violets and Marsh Mallows, Annifeed, of each one scruple, four great Cole feeds, Cinnamon, Nutmegs, of each one dram, Licorish scra-ped two drams, make a fine pouder. The dose is one scruple with the Decoction of red ciches. D. Blefins.

Take Melon feeds one dram and half, Cherry tree gum, half an ounce, Grommell feeds two drams, Licorish scraped one dram and half, Sugar candy two ounces and a half-Mingle all and make a pouder. The dole is half an ounce, with broth of red ciches. Ifabella Cortefa.

A Syrup for the Stone. Take Saxifrage, Grommel feed, Kernels of Cherries, Kernels of Winter Cherries, Gentian, red ciches, of each what is fufficient. Boyl them all in water of Quinces, untill a third part be confumed; then strain it, and take of the strained liquor a pint, the best Honey one pound, Vinegar one ounce, skim it, and make a Syrup; let the Parient take of it every morning one spoonfull fasting. A Manuscript.

An excellent Bath for the Stone. Take Hylop, Mallows, Parfely, Pellitory of the Wall, of each one handfull, Linfeed half an ounce, Saxifrage one handfull; Put them all into a small Bag, and boyle them in a sufficient quantity of water, and make a Bath. A Manuscrips.

Take Goats blood prepared half an ounce, Jews stone, Crabs stones, Peach Kernels, of each one dram, Parfely feed two drams, Smallage feed two drams; Make a very fine pouder. A Manuscrips.

Another. Take Rheubarb three drams, Juniper berries five drams, bark of Cassa half an ounce, Annifeed one dram, Fennellseed one dram, Jews stone half an ounce, Agarick, Ginger, Cinamon, Galanga, of each one dram, Mace two scruples, Mithridate two drams, Licorish scraped six drams, best Wine two parts, Aqua vita one part. Put all into a Glass, let the Patient take one spoonfull twice in a Moneth. Manuscript.

Another.

Take Anifeed four ounces, Roman Cumminfeed steeped in Vinegar one day, and dried again four ounces, seeds of Smallage, Parsely, whitest Sugar, of each four ounces. Make a most fine pouder, let the Patient every morning sasting, take half a spoonfull with bread tosted, or red ciches broth, for one Moneth together. A Manuscript.

Take roots of Elecampane, roots of Pimpernell, Anifeed, Fennell, Parfely feed, Juniper berries, white Saxifrage feed, of each half an ounce. Make a very fine pouder, let the Patient use of this every last day of the full Moon, that is one day before the new Moon, in the morning fasting, and take it in Wine. A Manuforist.

Another.

Brofwolm ascribes an incredible virtue to the pouder of Medlars, to drive the stone forth of the kidnies, and to provoke urine.

Some say that the berries of white thorn taken in Wine, are very effectuall to drive out the stone. The same.

Another.

If the picture of a Lion be engraven upon a most pure plate of gold when the Sun is in Leo; and the Moon not respecting the fixt House, nor the Lord of the ascendent Saturn or Mars, and the Moon departing from them; this Seal bound about the Reins will cure the most cruell pains of the Kidnies. And if Troches be made of the pouder of the most choice Frankinsence, with Goates bloud; and take a print from the foresaid plate of Gold, and when they are dry, if they be disolved in white Wine, and drank by the Patient, they have wonderfull force against stones in the kidnies, and of the bladder. Andrews Cordubensis, ad summum Pontificem Gregorium, & Albertus Magnus.

All kind of stones that are found in fishes heads, poudred and drank in Wine, cureth the Collick, and stone of the Kidnies, breaking it into pieces. Galenus, and Arienna.

Against the stone, many magnific from their own experience the pouder of the Pikes kin drank in water, of Pelitary of the Wall and white Wine. Others promise the same success from the skin of a Fish called a Mullet, with the distilled water of wild Tansey. Mizald.

Pouder of Glass is made by Abenzoar thus. A piece of clear Venice Glass that is thick and transparent, is smeared over with Turpentine, and put into burning coales untill it be red hot. Then he quencheth it in water, and smeers it over again, put it into the fire, and quencheth it; when you have done this seaven times, you must grind it into most fine pouder, the weight of one dram of this, or sour scruples drank with white wine, forcibly drives out the stone. Galen and Avicenna.

A Sparrow called Troglodytes, which is the least of all Birds except the Wren, and it is a Sparrow that lives about hedges and Walls, and slies but a very little way, this Bird hath a wonderfull naturall force. For being pickled in Salt, and eaten raw for meat, he drives forth hard stone by urine, and hinders them from breeding again, and cures the disease. The best way to pickle him is to pull away his Feathers, and to cover him all over with abundance of Salt, and to eat him when he is dried. If you have many of them, you may rost them as Men do other small Birds; Also you may burn them Feathers and all in an open earthen pot, and give the Asses of one that is burnt with a little Pepper and Cinamon. Some do pickle them alive in Salt, first pulling off their Feathers, which is the better way. Some cat them whole being roasted, so that they cast away nothing but their Feathers. Another.

Cherry tree gum dissolved in white wine, did help the stone, as was proved by Mizald.

Another.

Take the best Aqua vite, Oyl of weet Almonds, of each two Ounces; drink this upon an empty stomach, From a sure Friend.

Rest harrow is said to be excellent against the stone, for it soon frees the Patient from pain, and quickly expels the stone; the pouder of the bark of the roots being drank with white wine. Mizald.

Another.

In this place very luckily came into my mind a Secret of a very learned Physician, which is easie and familiar to drive stones of the kidnies forth. It is only Syrup of Hysop, with twice or thrice as much water of Pellitery of the Wall. Which remedy being used for ten or twelve daies by a young Man in Winter, and others have used also fasting, he told me that he had driven forth many stones out of his body.

Mixald.

Take four or five cap Dates, peel them, and stamp them in a Mortar, and put them to a yelk of an Egge, with a quarter of a pint of Muskadine, let the patient drink thereof morning and evening. Dr. Rawlins.

Another.

Take Amber, Nutmegs, and Corrall, of each of them alike, beat them into very fine pouder, put thereto a little grated Cinamon, and mingle them all well together, and straine the same pouder upon a fine toast of Manchet, being first sprinkled over with very good Muskadine, being toasted brown on both sides: let the Patient eat the same tasting, and use it five or six daies together, and doubtless by Gods help this will cure him. The same.

A Charme for fuch as have the Stone and the Gout.

It is without superstition: The root of Male Piony gathered in May, the Moon increasing, and hanged about one for an Amulet, helps the gout and the stone.

Cardan.

Young Pigeons by a fecret property help the stone of the Kidnies, and cure corrupt blood: but you must kill them by cutting off their heads. Their sless hatha power to cure the Tenasmus, and gourds frequently eaten are wont to breed it.

Rhasis.

For the stone in the Bladder.

A water may be thus made, which being injected with a Catheter, will break the stone of the Bladder. For two things being necessary that it break the stone and may not furt the Bladder; the first is performed by the manner and matter; for we must preserve the last vapours of Scorpious Ashes, Parsely of Macedonia, Tecolithas or Crabs stone; for a water will be made so that will dissolve a Porphyr stone.

Cardan.

If feed found in the leffer Bur dock be made into fine pouder, and drank with a little of the best white wine; it will purge the Kidnies effectually from stones, but something sooner if it be drank with Aqua vite. Mizaldus from an experienced Man.

A Hedg Toad cut in twaine and applyed to the Reins will vehemently provoke. Urine, that fometime people that have the Dropfie Afcites have been cuted by it, Cardan.

The stalke of Hartichoke boyled in Wine and dranke, will drive forth plenty of stinking thrine; and so will help a Virulent and Venerious Go-

ly lock, try fine

AT.

h and

:120

Alle

Mar

ix flux

the Son

cendent countrie de of the

Water,

Wir,

er ef the semptosear of

that is goods an, per consult

y drank

eWen, kway, centar dings-

salient Salient Affinat

はない

til.

norrhæa. Dioscorid. Oribasius, Paulus, and Langius.

For difficulty of making water. Worms called hundred feet that are found in Wine Cellars, will mightily provoke Urine stopt, if they be bruised and drank with white Wine, or dried into pouder, and so drank with wine. It is a Secret a friend freely imparted to me, and so do I as frely give it to you. Mizald.

For the strangury. Stones taken forth of the heads of Snails and greatest house Snails, will make those that are troubled with the strangary make water, making the passages slippery, if they be beaten to pouder and drank with wine. They help also women in labour by relaxing and dilating the parts. Mizald.

Another. A Goole tongue is admirable against the strangury. Cardan.

For Diseases of the Bladder. Some things do by fimilitude affoard great eafe, as three Ox Bladders boyled in water, the water must be drank, and the Bladders dried, and drank with water, some fay this will cure all diseases of the bladder, but especially voiding too much Urine, when they cannot hold their water. Cardan.

For Scabs of the Bladder. The Decoction of the hearb called Horsetail, will cure the Scab of the Bladder, an intolerable disease, as many have proved it. Mizald.

The root of Hartichoke boyld in wine and drank, is a present remedy for a veneriall

Gonorrhæa: as was proved by Joan. Langius.

A remedy for beat of the Urine.

Take roots of Mallows, Marsh Mallows, Parsely, of each one handfull, boyle them in River water, untill a third part be wasted, strain it; then put in sresh Butter the quantity of a Nut, and drink it off two houres before Dinner upon an empty stomach. A Knight of Ferrara.

For piß a Beds. Take the juyce of Cyprus leaves, Oyl of Sefama, of each two Ounces, mingle them, and drink them in the morning, and when you go to bed, for three daies, and in the mean time eat no Sallets nor Pot hearbs. This is best for Women. Bayrus, as I remember.

For the running out of the Urine. The bladder of a Sheep or Goat burnt, and drank with water and Vinegar, or a Hares testicles boyled in sweet wine and drank, helps such as make their water against their will. Miz.

To coole the hotness of the Urine. Take Purselaine seeds, Lettice seeds, Endive seeds, white Poppy seeds, of each two Ounces, Henbane seed half a dram, Sebestine two Ounces, Saffron one dram, Licotish sive drams, Pine Apple Kernels ten drams, Fountain or Spring water six pounds; mix them all together, and let them be fodden till the third part be boyled away, then let the water be strained, whereof take one Ounce in the morning mixed with Julep of Violets, and the fourth day you shall have certain ease. Dr. Webster.

Urine Stopt. Take a pint of good white wine, two roots of Pellitory of Spain, two roots of Parfely clean scraped, shred small, and boyled in the wine a pretty while, then take a handfull of Bees, pound them, and put them into the liquor aforesaid, then strain them into another Vessell, sweeten it with Sugar, Probatum est, Mr. Williams.

Urine like blood to cure. Take of good Muskadine half a pinte, into which put the yelks of two or three eggs new laid, being first well beaten, and mingled together, drink the same in a morning fasting, and the like at night when you go to bed; this must be used two or three daies together. Dr. whiftler.

the

one

Inc.

4, 21

mil

Of I

# 2+

TEO

100

ties

THE

For pains of the Piles.

Take leaves of Mallows, Violets, Marsh Mallows, of each one handfull and half, Melilote, Fenigreek, flowers of Camomile, Linseed, of each one handfull, Mullets two handfuls; make a decoction in an equal quantity of water and red Wine. A Manuscript.

Another.

Take crums of Bread of Barly if you can get it, and wet it in Womans or Goats milk, adding the yelk of an egg and Saffron. A Manuforipe.

Take red Corall, Myrrh, bark of Frankinscence, juyce of Roses, Cyprus Nuts, leaves of wild Pomegranates, Mastick, Frankinscence, Amber, Spicknard, Galla Moschata, Coriander prepared, of each one scruple, Oyl of Roses, Mastick, Spicke, Rue, of each half an Ounce, with a little Wax, make an Unguent. Roseellus.

The greater Burr leaf, applied to the crown of the head draws the Matrix upwards, but applied to the foles of the feet draws it downward. This remedy is held to be the best against sufficient, pricipitations and dislocations of the Matrix. Cato writes of a Colewort leaf, that laid on the crown of the head, it will draw the Matrix that is fallen downward, or ill affected otherwise, up again. Mizaldus,

It is proved most certainly, that the smell of Bitumen, be it raw or burnt, will presently recover women that are strangled with the Mother; wherefore some that are subject to this disease, use to wrap some of it in Wool, and hang it about their necks; for by often smelling to it, it will drive away fits of the Mother. Langitu.

If Childrens teeth when they fall, be hanged up before they come to touch the ground, and be fet in a plate of filver, and hanged over women, this will hinder them to conceive, and to bring forth. Albertus.

Another for the same.

If Sorrel seed be bound up in a cloth and hanged over her left brest, she will never conceive so long as it hangs over it. Albertus.

When a Woman drink Rams pils, or Hares blood; or if Hares dung be hanged over a Woman, she will never conceive. Albertus.

If any one take out the heil bone of a female Weefil, the remaining still alive, and hang this over a woman, the will not conceive so long as it hangs over her; but when you remove it she will be with childe. Or if you take the two testicles of a Weefil and bind them, and ty them cross over the woman, and if she earrieth them with her, she will not conceive. Albertus.

That a Man may alwaies be an Eunuch, take of that worm that shines in Summer, and give it him to drink. Albertus.

Take a little Castle-sope, temper it in the hand, untill it be soft, then make it into little Pills, whereof the party may swallow down five, being a little rowled in sugar, then let there be in a readiness a good draught of possetdrink, wherein some Succory hath been boyled, let the party drink it as hot as she can suffer it and it will work the effect. N.Culpspper.

Take Polypodium and stamp it very well, and make a plaister thereof and apply it to the feet of the woman that travaileth with child, and this will cause a speedy delivery of the child whether it be alive or dead. Probatum off. Dr Chamberlain.

Take of new Cow-dung, Cinamon two drams, of Mirrh, and Cassia Lignea, of each a scruple, of white Amber one dram and half; beat them together into fine pouder, whereof

四四四四四四四 一

15年16日 15日日

whereof in odoriferous Wine the weight of one dram. Dr. Chamb.

To draw back Rheume.

Take a Figge and flice it in the middle, and dip it in English Honey, and lay it to the nape of the neck, and it will draw the Rheume back. Mr. Loftis.

Against barrenness in women.

The feed of fowr Dock or of Monks Rhenbarb bound to the left arm, cures barrennels in women. Africanus.

If a woman cannot conceive, take Harts horn and pouder it, and mingle it with Cows gall; let the woman hold this over her, let her use copulation and she shall conceive presently. Or give to the woman that knows not of it Mares milk, let her copulate that hour, and the shall conceive presently. Albertus.

Things that help conception.

Nature is helpt by things of like nature. Mares milk drank after the terms, a Hares matrix, a Goats stones, help conception. And some things for their property, as Valerian, pouder of Cyprus wood, bark of Mulberry tree, and Mugwort. Cardan.

Things that hinder Abortion.

Some think the woman will not milcarry, if a Worm that is found living in the grals, before it touch the bare ground be hanged about her neck. Cardan.

Take of Fennell Red, Caraway feed, Parily feed, Annifeed, Gromell feed, Galingale feed, of each two ounces, of Senu leaves two cods, one ounce of Spikenard, a quarter of an ounce of Time; make all these into pouder, and searce them thorow a fine searce, and put them into a box; let the diseased drink of this pouder in White wine the weight of fix pence, and eat of the same with Meat instead of Salt as he findeth himself grieved. Dr. Murford.

Mother to cure.

Take of Annifeeds, Fennell feeds, Coriander feeds, of each one spoonfull, dry them well by the fire, beat them into a very fine pouder, put all into half a pint of very strong Ale without any hops in it, put thereto a spoonfull of Sallad ovl; let the patient drink it blood warm in a morning fasting, and at night: In the day time, drink this arink hereafter mentioned; take five branches of Motherwort, three leaves of Setwell, one Parsley root, one Vervain root, one Dill root, pound all these together and infuse it in half a pint of milk of a Cow of one hare; take both those drinks for four days together, and afterward for a week together, drink every morning a draught of Claret wine. Dr. Anthony. The fame.

Codds Swollen.

Take new horse-dung, mix the same with vineger and fresh butter, fry it in a pan, and as hot as the patient may endure, lay it to the grieved place. Mr. Clores.

Take of the blades of green Wheat, and of Parfley, of each a handfull, boyl it in fresh butter with a little milk, and a little oatmeal, and lay it to the grief, as hor as the party may fuffer it. Mr. lark Ch.

Whether a woman be with child.

If you would try whether a woman be with child, let her piss in a brass bason, and for one night let a clean fine steel needle be laid in it: if she be with child, it will be full of red spots; if not, it will be black, or rusty, or cancred. Mizaldus faith it was proved.

To know how many Sonnes the woman shall have.

It hath no reason for it which they say the knots of the navell string will shew how many sonnes will be born of one mother: for either they speak simply, and that according to the superstitious predictions of Astrologers; for it may be the woman may die, or live chaftly, which may have otherwise many sonnes; or if they do not speak simply, it may be that they may have many knots that are married to one man, and sewer that are married to another: and this cannot be, that the same thing can be known by divers numbers of knots, or elfe the woman must have the greatest num-

l to

ber of knots to what man foever the is married. Since therefore it feldome falls out that this possibility should not faile : for either the Woman will not be married to that man that shall produce this, or if she be never so happily married, she may be hindered by difeales or some other accidents : how then can that be known which almost never happens? Wherefore we must conclude, that fruitfull Women commonly have more knots upon the Navel string in bearing, and barren women but few, and not exactly diftinguished, that so the event may be loretold, and thus is the truth of this problem found out. Cardan.

To make a Woman retain ber Child, an excellent meanes.

Take Oyle of Myrtills, Mastick, Turpentine, of each one dram, red and yellow Sanders, Hypocistis, Acacia, of each five drams, burnt Ivory, red Roses, of each five drams, Bolearmoniack, Terra sigillata, shavings of Ivory, of each two scruples, Maflick, Myrrh, Vernice, Dragons blood, Storax liquid, Greek pitch, Mummy, of each one dram, Ship pitch, Greek pitch, of each what is sufficient; make a Plaister which lay part upon the Reins, part upon the Matrix, or upon the Region of the Bladder. Roscellius.

That a Woman may be quickly delivered, and without pain, an approved way. Take Clary a sufficient quantity, pound it well, and press forth the juyce: take half a cup full, mingle it with wine, and give it the woman to drink, when she is in labour, then bind the herb that is pressed hot to her Navell. Alex.

To hasten the hirth. The skin cast from a Snake when it is bound upon the hip of a woman it hasteneth her delivery, but so soon as she is delivered take it away. Albert.

For delivery. The seaventh Daughter is reported to hasten the birth exceedingly. Corn.

To make casie delivery If a woman in hard labour hold a little piece of Basil in her hand with a Swallows Feather, the shall presently be delivered without pain : which Mizaldus learned of a friend that had tryed it.

Another. The weapon of a Fish called a Ray bound to the Navill, is said to make easie delivery, if the forke be taken from the Fish being alive, and the Fish be cast again into the

And Democritus faith, That if the tongue of a Chamelion be taken from it whilft it is alive, that it is effectuall to foreshew future things, and it is good for labouring women to keep it about their houses; but they must be carefull that they bring it not within, for it is a most dangerous thing.

To bring forth the afterbirth, Some say that the water of Marigolds is good for all fore eyes: and that it cures all pains of the head: and that a fume made of the flowers of it, received by a tunnell into the privities of a woman, or any way taken in, will eafily bring forth the after burden that staies behind, and will bring back those things that are gone astray. I got this Secret from an old Midwife with much craft, when the stood in need of my help, when a great Matron was in Travail. Mizald.

Take Oyl of Rofes, Violets, fweet Almonds, Ruc, Elder, Spurge, gall of a Wether, gall of a Bull, and of a Hog one Ounce, Wax what is sufficient; mingle them and make an Unguent, annoint the stomach and Navell with it. Refeellus.

## Of Diseases of the Hands.

Mugwort steeped in Rosewater, cures trembling hands, if you wash them with it. Mizald.

Take Southernwood a fufficient quantity, bruile it, and mingle it with Vinegar, and apply it. Out of a Manuscript. Bod of With comes in non

A remedy for the Gout, which was used by the King of Dacia.

Take Turbeth, Hermodactils, of each two drams, Ginger, Sal gemmæ, Cinamon, of each five drams, Diagridium, Annifeeds, Fennell feeds, of each one dram, Sugarcandy one Ounce: Make a pouder, take one dram of it and a half, to two drams, if the first quantity be too little; and in Summer you must take it with Endive water; in Winter, with the Broth of a Pullet, some five or fix hours before dinner, sleeping one houre after it, or refting your felf, and you may take it twice in a moneth, or onely once, and that on the last day but one of the Moon; yet for three daies before you take it, take every morning fix Ounces of Honey, and water like to a Syrup, for this makes way for the pouder : but in the mean time every evening when you go to fleep, take two or three Pils of ground Pine, which are made of ground Pine pouder and Turpentine what may fuffice. But the Patient must live as lober as he can, that he may find the benefit of such a remedy. Out of a written Book.

For the Gout. Take Ship pitch two pound, Colophonia, Wax, of each five pound, Creffes feed, Bay berries, live Briantone, Cummin, Saffron, Wormwood, Annifeed, Penniroyalf Maftick, of each two Ounces, Cinnamon one dram, Ginger two drams, Cloves five

Book V.

10

drams; make a Plaister according to Art. Out of a Manuferipi.

Take Aloes, choice Myrrh, of each one dram, choice Rhubarb, Agarick in Troches, of each five drams, make a Mals with Syrup of Role Solutive; of one dram make five Pils, let the Patient take of them two houres before meat, every fifteen daies. Out of a written Book.

Pains of the Gout beginning. Take Oyle of Poppies two pound, of Spicknard two Ounces, mingle them, and fet them eight daies together in the Sun, then prefs them forth, and keep them for your use. When you need them, add a little water distilled from Opium. The Oyle of Henoane will do the fame, Henr. Wolffins.

Pils for the Gout.

Take the juyces of black Hellebore, Fumitary, Coloquintida, Gentian, Butter-bur, Rheubarb, of Agarick, Rheubarb in pouder, Mastick, of each one dram; min-gle them all well together, make a Mass, and make Pils of it; The dose is one dram, of which make Pils. Henr. Wolffim.

Take Oyle of Cinnamon, Oyle of Wax, Oyle of Salt, of each one part, mingle them. Andernaem.

Another. Take Frankinlence the weight of an Egge, the juyce of Singreen, a little ftrong Vinegar, mix all these together, and warme it, and annoint the place. Dr Manley.

Another. Take of Goats milk for want of Cows milk five Ounces, the yelks of two Eggs, of Oyle of Rofes one Ounce, Saffron half a dram, crums of Bread, as much as will fuffice, to bring it to the forme of a Cataplasme, being stamped till they be well mixed together, and then apply thereof to the member or part grieved. The same. Another.

Take a new earthen pan with a flat bottome, with upright brims like a Cheelefat, but somewhat deeper well glazed, or some stone vessell after that fashion, which hath never been occupied, then take a Goat of four years old, for a Man a Male Goat, for a Woman a Female Goat; let this Goat be beheaded in the new of the Moon, you must not save the first nor the last bloud, but let the middle bloud run into your pan, and let it stand in the same pan untill it be thick and cold, then cut it out into gobbets like Trochikles, and in a faire Sunny!day, lay them abroad upon a net the better to turn them to dry on both fides, let them be very well dried before you lay

them up; When you would use it, take a spoonfull of the pouder of the same blood, with Vinegar and Wine, or with the distilled water of Parsely, at such time as the Patient doth find himfelf least grieved, and you shall see a wonderfull effect, Probatum.

Take the Goats bladder, and cast out the water that is in it, whilst it is warme, and put therein prefently the bloud as before preferved in your pan, then hang this bladder with the bloud in it in the Chimney, where it may have the aire of the fire that it may be thorow dry, then use it as before prescribed. Add unto this the laudable remedies. Drefs a hedg Sparrow in falt, and take him raw in meat, this doth heal the diseased presently, for it expelleth the stone, which is already ingendered by the Urine, and hindereth the same from further ingendering any more. The Same

For the Gout when it first falls down.

Take Barly meal three Ounces, meal of Lentils two Ounces, Terra figillata, Dragons bloud, of each two drams; let the meals be boyled at a gentle fire with Water and Vinegar, then put in the pouders, to which add Oyl of Roses two Ounces, new Wax one Ounce, make a Plaister, and when the defluxion is stopt, add pouder of Cammomile flowers half an Ounce, Saffron one dram, yelks of Eggs two in number. Out of a Manufeript.

Another.

An experiment of a Kings Chirurgion, against the Gout of hands and seet : Take a handfull of Mugwort, let it boyle in sweet Oyle of Olives, untill a third part only remain, annoint the pained part with it, you shall foon find the pain abated. Miz.

Another. Burn the head of a Kite, the Feathers being pluckt off, and take as much of that as you can hold in three fingers, it helps the Gout. Miz.

Another.

If you take the right foot of a Tortois, and hang that over the right foot of him that hath the Gout in his feet, it will help him, and so it will, if you hang the left claw over the left foot; fo the forefoot helps the hand, and the toe helps the toes. Albert,

It must not seem strange that the skin of the right heel of a Vulture laid on the right foot, and the left on the left foot, will cure the pains of the Gout. Card.

For the bip Gont. The decoction of the rind of the white Poplar will extreamly eafe the Sciatica, and the juyce of Broom boughs steeped in Vinegar will do the like. Mizald.

For diseases of the joynts.

The Oyl wherein Frogs are boyled untill the flesh part from their bones, is excellent against all pains of the joynts and nerves, and benummed limbs if they be annointed with it. Miz.

For the joynt Gont. I first cured Joan. Antonius Scazosus, Joan. Baptista Mareschalus, one of the Secretaries of the Senate, and the Daughter of Joan. Angelus Linatus, and innumerable more of pains in their joynts. But I shall relate the cure of those three as most notable, Joan. Amonius Scazosu was sick of the joynt Gout two years, and no Physicians could help him, but I cured him with the decoction of Guaiacum with Betony, and Pils of Hermodactils. But Joan, Baptista Mareschalus was sick of it sour Moneths, and I took him to cure in December; moreover he had two Feavers, one intermitting, another continuall, and what was worst of all, he loathed meat, and being hardly able to move, his Physician had good reason to leave him for incurable: or else he said he must wait for the spring time to cure him: and for that cause we disagreed; for I thought that was no good counfell, because the parts affected grew daily weaker, for in mans body nothing ftands still; and if they mend not, they must ne-cessarily grow worse. Wherefore I boyled Coloquintida in clarified Honey, and I gave him the Honey mingled with Aromaticks to swallow down in bolus : and he drank the decoction of the wood in water, and so I cured him perfectly before WinBut the Daughter of Angelia Linaum had made triall, not only of all the Physicians for two years, but all Mountebanks, she had taken Wine, Water, Unitions, Fumes, of Artificiall Cinnaber, and she could not be cured. Her legs paind her, and she was so vexed with trembling, that sometimes she could not sleep all night, and was now hopeless as she had reason, having tried so many mighty Remedies. Wherefore giving he Wine with the best bark, I undertook the cure of that part, and betininking my self of a remedy that was contrary to the cause of the disease, and the disease it self, and would strengthen the part, I commanded to take great quantity of the gum of the wood, which I mingled with Frankincense, Lignum Aloes, Seed of Ballam, sweet Storax, and Citron pills, (also I used great quantity of Jet stone with it) and I cured her pertectly, that she was well. Also I healed Pet. Ant. Bezurius, near to the Church of Brera, not far from the gate Beatrix, who had the Joynt-gowt, almost with the same remedies that I cured Seazossu, when he was leit by his Physitian, all things growing worse continually.

If one would not have his hands or feet hurt by cold, let him annoint them with

Fox greafe. Mizaldus.

When the limbs are straightned, the spirits cannot pass, whence they are so benummed, that a man cannot safely stand upon them, and they seem to be assept and besides that, one seeds a kind of bring as if there were Ants; that comes because the parts are unequally affected; for the parts assonish tare joynd to the sound parts; therefore this infirmity both for weakness and pain is sometimes troublesome to a man: there is no more resent remedy than to stretch forth the part and to rub it, or with the hand of the other side to lay hold of the great toe, and to ray se the foot of the leg that is benummed. Cardan.

## Of particular Diseases external.

Take Aqua vita two pound and a half, Mastick in pouder, Myrrh in pouder, and Aloe poudred of each one ounce. Let them boyl one boyling at the fire, then strain forth the water, when the wounds are washt, strew in the following pouder. Take Frankinsence, Myrrh, Aloes, of each one ounce, mingle them, make a pouder very fine.

\*Reference Another for the same.

Take Frankinsence, Myrrh, Aloes, Rohn, of each one ounce, make a pouder, strew it

on the wound, but first wash it with Aqua vita.

Take of Almonds and the kernels of Peaches, and let them be clean pilled in hot water, then stamp them and press oyl out of them, put the oyl with wet in the same into the ears that are grieved, which Tents must be made of fine linnen cloth, do this with new Tents every day once for the space of nine or ten days. Mr. Clarke.

Mingle Turpentine with Oyl and Honey, and drop it into the ears, it cureth the watering of the ears. Mr. Baley.

Take pure Turpentine one pound, common Oyl one ounce, Frankinsence, Myrrh, Sarcocolla, Mastick, Saffron, of each one ounce, Sow bread, Forstail, madder, of each one ounce, Earth worms three ounces: Put them all in a Retort; and distill them according to Art. Fallopius.

Take Turpentine one pound, Frankinsence, Mastick, Myrrh, Sarcocolla, of each one ounce, Aqua vitæ eight ounces: mingle them and distill them in a Retort, after that separate the Oyl from the water and keep them. Fallopius.

Take pure Turpentine one pound and half, yellow Wax one pound, Nurmegs, Cloves,

SH

TOW

がははは

WIT

ibe.

ttp:

tts:

I, SE

the

200

T W

Cloves, of each one ounce, wood after fix ounces, beaten bricks what may be fufficient, mingle them and distill them in a Retort. Fallopius.

Another for the Same.

Take oyl of Firr, whites of Eggs boyled, of each one pound, Rofin fix ounces, Ivy gum two ounces: mingle them and difful them in a Retort according to Art.

A Balfam for Wounds : of the Same Mans. Take pure Turpentine one pound and half, oyl of Bays, Galbanum, gum Arabick, gum Ivy, of each one ounce; Frankinsence, lignum Aloes, Galanga, Cloves, Nutmegs, middle Comfrey, Cinamon, Zedoary, Ginger, white Dittany, of each fix dram, Storax liquid two ounces, Muck, Amber, of each one dram: pouder what must be poudred and mingle them: add to them Aqua vitæ seven pound, put them into a glazed veffel well stopt for eight days, then distill them first with a gentle fire, untill the Oyl begins to drop, then increase it untill you have distilled it all; then part the Oyl from the water and keep it,

Ol for Wounds.

Take Turpentine two pound, Linfeed oyl one pound, Rofin of the Pinetree fix ounces, Frankinfence, Maftick, Myrrh, Sarcocolla, Mace, Saffron, lignum, Aloes, of each two ounces : put them into a Retort, and diffill them, first with a gentle fire, afterward with a stronger. Fallopins.

Oyl to cure Wounds in 24 hours, and for a Rupture.

Take common Oyl fix pound, Oyl of Firr tree one pound, choice Myrrh fix ounees, washt Aloes, Frankincente, of each fix ounces, Mummy two ounces, common Glew fix ounces, Cochineal four ounces, Ship pitch fix ounces, Gum of the Sycomore tree two ounces, Lees of Oyl two pound, of Marsh mallowes seven ounces; put all thele into a strong glass Retort, and boyl them twelve hours in Balneo: then Brayn them, and add to the strained liquour Dragons sour handfulls, flowers of wild Pomegranates, four handfulls; great Comfrey, with the flowers, hearb and root four handfulls, Berany, Tobacco, of each four handfulls : Balfam herb and fruit, four handfulls, Cyprus leaves four handfulls; Elm bladders forty, Yarrow, Seacole, of each four handfulls; rine. Dates twenty five: St Johns wort, Thorow wax, small Century, Shepherds purse, of each four handfulls: boyl them again in Balneo eighteen hours, then fet them in the Suna whole Summer in a glass very well stope. After this take all out, ffrain it oreffing it very hard, and to the Oyl add at last beaten Saffron three ounces, and boyl all together for three hours, and keep this Oyl for your use. If you would use this Oyl for a Rupture, you must first shave off the hayre, then for fifteen days you must annoint the Rupture twice every day: then bind it over with a Hogs bladder and firm ligature: and you must be carefull that the Patient keep his bed for fifteen days. Refellus.

For Wounds. For all Wounds the Remedy that follows is the best, and the most easie to provide: You must take Greek pitch, Brimstone and white Frankinsence, of each equal parts, then pouder them, and mingle them with whites of Eggs, and the lips of the wound being rightly ordered and drawn together, and the blood being wiped away, this is put upon a linnen cloth, and must be laid to the wound, and bound on with a band,

ann must so continue some days. A wonderfull and an approved thing. Mizaldus.

Sores and Cuts old or new to heal.

Put fair and cleer water into an earthen vessel that hath not been used, and when the water is reasonably hot, pour it into quick unstenched lime, the lime being before in another new earthen veffell: let it remain and rest so long therein untill it be setled, which will be in fix hours, then skim off the froth with a feather. keep the fame water in a glafs, or some other veffel close stopt for your use; it is good for all tilcers, new wounds or Cuts, biting of a mad dogg or others; you must bathe the Sore with this water warmed, and when you have fo done, take of this water clean, and when it is blood warm, wet a fine cloth in the water and lay it eight or ten times double upon the fore, do this untill it be whole: Note that to every quart of water, you must use a quarter of a pound of good new stone lime, the pan that goes to the fire,

must always go to the fire, and the other pan always go for the Lime! Dr. Sadler.

Blood to stop in a green wound. Take a Puff which groweth in the field like a bell, flit him afunder, and lay a flice as thick as your two fingers upon the Cuts, then bind up the wound, but not very hard, and at three days end bind up the same; and if the Puff do cling so that you cannot get it off, take Oyl of Roles warmed, or instead thereof a little warm Milk and bathe the place therewith, untill the Puff fall away of himselt; you may keep those puffs two or three years. M. Moulins.

For malignant Ulcers.

A wonderfull water foon made, which no gold can value, is made thus. Clear apring water is put into a veiled never used before; when it boyls it must be poured into another vessell that was never used, that hath new quick Lime in it, and there it must remain so long untill all the froth be taken off, and the water is clear, the Lime sinking to the bottom of the water, like to Pap. Then the water that swims above it is to be poured off nearly by inclining the vessell and not stirring the Lime. to be poured off neatly by inclining the veffell, and not ftirring the Lime; this water must be kept in a clean viol or some other pure vessell, for use. It can hardly be believed what power and force it hath for all wounds, especially such as proceed from the French Pox; for by bathing the part with a rag fuddenly wer in it, and afterward laid on instead of a Plaister, and being sometimes removed, it cleanseth away the fifth, eafeth the pain, fills the ulcer with good flesh, and in short time extinguisheth all Inflammations; and this is a strange miracle: for quick lime will inflame by its heat. Enjoy this Secret, which I have refuled to discover to many for a great reward. Mizald.

A precious Oyl or Balsam that may be dropt into Wounds that are upon any part of the body except the Head.

Take Oyl of Roses nine ounces, Rheubarb cut small six ounces; let all these dose stopt for three days, stand in a great viol or slagon of Tin: then let the slagon with the Ingredients aforefaid be fet in Balneo, and let it boyl well half an hour : then cast into the flagon, Mastick finely poudred, six drams; also of Frankinsence, Bdellium, Opoponax, Camphir, of each half an ounce, or parts equall; after that ftrain that Oyl through a clean woollen cloth, that all the vertue of the Ingredients may be preffed forth, and you have an Oyl ready for your ule that is excellent, Rantzovim.

A notable vulnerary Cataplasme against any Wound or Stroke, which was need by the King of Denmarke, Christian the second.

Take Wax three ounces and half, Colophonia or Greek Pitch, Smalt, Mummy, of each one ounce and half; Myrrh one ounce, Redlead half an ounce, white Corall three drams, Loadstone one ounce. First dissolve the Wax with the Colophonia; then add the Mummy, after that the Smalt; place these over a gentle fire, and stirre them well; then putting in the forefaid Ingredients that are left, let all stand by an easie fire, for a little time, and stirre them well and often; also try often whether it be fufficiently boyld, and fetleth toward the bottom. Drop a few drops from above from the hot spatula into cold water: and if you find it begins to be thick, and to stick to the spatula, take it from the fire, and stirre it long, untill it grow cold of it self, and become a solid mass, lest the three following Gums be burnt in it. Add then Fran-kinsence and Mastick of each one Ounce, Camphire one ounce and half, and stirre it so long in the earthen pot untill it become cold and hard, and may be handled and made up with the foresaid fatty substance: Thus have you a Plaister rightly made. If then the wound be new, spread it on a linnen cloth, and lay it on the part hurt. This Plaister is good for all wounds, be they cut with the edg, or thrust with the point.

A Vulnerary Potion of the Same Man.

Take wild Wintergreen, and Betony, of each one dram, Sanicle, Lionsfoot, of each half a dram, with two measures of Wine close stopt in a glased earthen pot, which must be close stopt with wheat dough; yet leave a hole in the middle of the cover, that the vapour may come forth: Boyl this Potion two hours, give of this Potion to the

Secrets in Physick and Surgery.

Book V.

yan

100

山田田山

wounded Patient one Spoonfull every morning and evening to drink, and lay upon the wound a Cabbage leaf, or the former Plaister.

Take two quarts of old Ale, cast into it one handfull of Doricknium, and the stalks of red Mugwort, and a little of the hearb called in high-Dutch Rodiched, or for want of that, take the hearb Perwinkle, boyl it to half in an earthen vessell, covering it well with a cover: then strain it forth into an earthen pot or stone bottle, so that the mouth of it may be well stopt, that the ayre come not in, and keep it for your use. You shall give of this potion to a man fasting in a morning, that is wounded, and at noon after dinner, and at night when he goes to bed, every time three spoonfulls; and you must command the Patient to fast three hours after it; and as oft as he drinks of it, let him put a little of it into a Sawcer and wash his wounds: also let him lay a red Colewort leaf, or one that is dark coloured, dipt into this liquor, upon the wound, so that the rougher side of the leaf be next the wound; and it must be firmly wrapt about with limmen, and if the wound can be drawn together, it must be fircht with a needle, that the search be not great, yet this potion will heal the wounds however.

For a sodain Swelling.

Take one part of Wine vineger, and two parts of fair water, put to this as much fine Flower as will make it thick, and lay it warm to the grief, it will heal any fodain fwelling that looks red. Mr. Econ.

Another.

Take a good quantity of water, put thereto a good quantity of Salt, and steep is well together; then wet a cloth five or six times double therein, and lay it thereto, and it helps any lodain swelling. The same.

White Scurf to cure.

Take Elecampane roots, scrape them very clean, pound them in a morter, put thereunto a quantity of Sallad Oyl, and double as much Vinegar as Oyl; work these together till they be very thick, then cut off the hair close and annoint the forchead with this Oyntment, and when the force is fallen off, wash the head with Cow pils warmed. The sense.

There is a white Loadstone, not unlike to the Loadstone with which Isaw such an experiment done. Laureatini Gnascus Cherascinis, a Physitian and Emperick of the Province of Piemont, brought this stone lately hither, and he promised to do strange things with it, that if it did but touch a bookin or needle, it would enter into the stelly without pain; and when I thought, as I had reason, that it was a soolish thing, he made experience of it, by one of my Chambersellows. It o make triall of such an incredible thing, rubbed the point of a needle upon the same my self, and thrush it into my arm, and I first selt a very small pain: but afterwards when it ran almost directly through the whole muscle, I selt the needle indeed enter as it went deeper and deeper, but I felt no pain, and then I told my samiliar friends what I had sound by it. Cordan.

A most excellent Plaister, which the Chirurgion of John Frederick formerly
Election of Saxony, when he lived in the County of Tyrol with Charls
the fift, at Ocnoporitum, taught the most Illustrious Duke of
Holfatia, against any blow and wound of gunshot, and

Take Galbanum, Ammoniacum, Opoponax, Bdellium, Wax, common Oyl, of each two pound; prepared Lytharge of Silver one pound, Oyl of Bays half an ounce, Myrrh, Frankinsence, Mastick, Arstolochia, Cadmia, or Lapis Calaminaris prepared, Gelamy one ounce, Camphire half an ounce, Turpentine one dram; reduce it into pouder and make it red hot in the fire, and whatever must be dissolved dislove, and make a Plaister thus: Steep the four Gums a whole night in the sharpest wine Vinegar, in a vessell made of Alchimy, or an earthen pot that is leaded, so that the Vinegar may swim above the gums in greater quantity, then boyl the Gums untill they melt, and all sticks, filth, and the like may be separated from them; then press them

out

out through a linnen cloth into a pot or pipkin, and boyl the Gums again untill all the Vinegar be confumed, and till the Gums will part from the pipkin; melt the Oyl and Wax in a balon of Alchimy, put in the Lytharge, and ffir it with a flick that the Lyth arge may fettle to the bottom, and when it begins to be of a brownish colour, make triall with a broad knife, or spatula, and if it do not cleave fast to the knife but runs of, it is a sign that it is well boyled: wherefore remove it presently from the fire, and let it cool a little, yet not too foon. After this of the four Gums fleeped in Vinegar, at each time cast in the quantity of a Bean or small Nut, by degrees into the Plaister, untill the Gums be entred well: for should you throw them all in at once, the Plaister would boyl over, and perhaps all run forth. But to be more provided, have always a bason of water ready, that if it boyl too much it may be held over the water to keep it cool: and again put that into the Plaister that is poured forth into the water. And as foon as the Gums are entred into the Plaister, boyl it again a little while, then add Myrrh, Mastick, Frankincense, Lapis Calaminaris, Aristolochia; bring thele again into very fine pouder by degrees over the fire, yet not with too much heat, lest thereby the pouders burn and consume away. Last of all cast in the Turpentine and Oyl of Bays, and when it is totally removed from the fire, and waxeth cold, cast in the Camphire: After this cast it into hot water, untill such time as it be made fit to be handled and worked by your hands. After this macerate it with Oyl of Mugwort that it may be bright and pure, then wrap it in a Does skin well prepared; thus you may keep it for use forty or fifty years. This Plaister is good against all wounds made with gunshot, all blows, and inflammations of wounds. Henr. Rantzovins.

Take of white Wax half a pound, of Verdegreece three ounces, Mercury fublimate one ounce, mingle them well together. Dr. Matthias.

A way to provide a Ponder good for any Nerve cut asunder, which the

Take Crabs eys beaten into very fine pouder in a little linnen cloth, strew this pouder upon the Nerves, and bind up the place with dry bands of linnen, that no moyfure may come at the Nerves. Let this Ligature ly on for 24 hours unremoved: After this is past let the Chirurgeon look upon the wound, and try how it is glewed together, and then let him bind it up again with hot bands, as he would do any green wound, and after one day or two let him unlose the bands. The same.

A cert iin way how to stop Blood running forth of any Wound.

At the entring of the Spring when Frogs lay their Spawn, then take three ells of thick woollen cloth, or four, more or lefs, as you need; wash this cloth well with this Spawn, and then dry it in the Sunne; then do it again the second and third time, washing and drying it in the Sunne; and then lay it up carefully for your use: when you will use this, cut off a piece twice as big as the wound, and lay it over the wound for a Plaister, and this will presently stop the bleeding, as is certainly proved in many. The same.

Take of new dung and fresh Butter and fry it in a frying pan, then spread it upon a cloth like a Poultis, and lay it on as hot as the Patient can suffer it. Probatum off. Dr. I buston.

An Escharotick is easily made without pain, that shall penetrate the skin in twenty sour hours: If the skin be whole, it is laid upon it, onely compassed about with leather, but if there be corruption under the skin, as in Impostumes, it must be washt with the sharpest Vinegar. The Medicament is made of quick Lime and thin Sope mingled together finely, that it may be like to an Unquent. Cardan.

Astrange cure of a malignant Ulcer.

The youngest Brother of the King of France had a most filthy pleer, and extreme foul: he was cured by the continual breathing on it, of a Boy of twelve years old. And there is reason for it; for the breath that proceeds from the Heart of a Youth that

15

V.

I

In

TOP?

雅

rin

ıni

N A TO

100

W. IS

dia

sof

is healthfull, is fincere, and may correct corrupt humours. Cardan.

I know some who gathered the Dew before Sun riling in Mar, with linnen clothes spread upon the grass, this they would press out, boyl and skim, and then they would wet clothes in the decoction and lay upon eating tileers to very good purpose, for they would thus cure the tileers by the acrimony of the dew, adding onely alittle Alum and Frankinsence to the decoction. Mizald.

For Burning and Scalding.

Take four ounces of the juyce of Onions, common Salt half an ounce, mingle them well together annoint the foar. Lord Bacon.

Take of Sheeps fuet half a pound, of Sheeps dung, and Violet leaves, of each two handfulls; stamp them well together, then heat it is a frying pan or some other thing, and strain out the juyce; and when you dress the fick Patient, warm it and annoint the fore places with a feather untill it be whole. Dr. Johnson.

A Caustick that will fuddenly cat through the skin.

Sometimes we are desirous to eat through the skin suddenly, not trusting to section: I have elsewhere described a most easie Medicament, but now a most effectuall: for it is made of Sope-water, or of a strong lee of ashes. It is made thus; pour on twelve pounds of strong lee upon quick Lime and Oke ashes, and let them drain through, then poure it again upon new Lime and Ashes, and do this so often, untill that the water will beare an Egg. Then adde to every pound, of Lee one ounce or half, an ounce of Vitrioll, and by degrees boyl it thick in a brass Polnet, untill you can take it forth and make little Cakes of it: for it is taken forth by degrees with a spoon, if this be well made, it will penetrate the skin in half a quarter of an houre, Cardan,

For pricking of a Sinew.

Take oyl of Camomile, and Earth wormes, of each half an ounce, of oyle of Saffron one ounce and a half, of oyl of whites of Eggs two drams, of Aqua vita as much as shall suffice, mingle them together, and so apply it to the prick. Mr Jones.

Take oyl of Turpentine, oyl of Roles, oyl of Earth-wormes, oyle of whites of Eggs, of each three drams, mingle them all together, apply either of these actually hot, both will mitigate paine; and for more security and speedy help, to ease the pains apply there with all this remedy following.

Take of crums of Bread, of Cow milk, mingled with oyle of Rofes, and Camomile, with white of Eggs, and Saffron, of each as much as shall suffice, boyle these together to the thickness of a Plaister, and apply it warm.

If you would know whether any part be sphacelated.

If you would know whether any part be to be cut off, and is quite dead, take the green of Leeks, and bruise them, and lay them one night over the part; if the day sollowing the part be not so wan or black, it signifies that there is some life in it, otherwise that it is dead and to be cut off, that all the sound parts perish not by it. A certain Spaniard faith to me, that this was often proved, who was a diligent searcher of nature, and I am willing to communicate it to posterity. Mizald.

You shall draw the heads of Arrows or any Iron out of a wound, if you were tent in the juyce of Valerian, and put it into the wound, and lay the bruiled Herb upon it. For so not only will the Iron be driven forth, but the wound will be cured: unless an Italian do ly notably, who protested he had tried it; the leaves of Garden Clary will do as much; for bruiled and laid on, it draweth forth Schints. Miz.

Take of the best Weathers stat two cups, boyl them to half, then add oyl of Roses one cup, and boyl them again untill half be consumed, and annoint the parts that have the Palley with it. Rosellas.

M

Another,

Another for the Same.

Take Rolemary, Marjoram, Mints, Savin, Horf-mints, Sage, what is sufficient, bruile them very well, and with marrow of Ox seet make an Unguent. Roscellins.

Take Mans blood what is sufficient, distill it seven times according to art, untill all the water be come forth, annoint the Nervs that have the Palsey with it, Fallopine.

Take Rosemary leaves and flowers, Myrtill leaves, of each half an ounce, Rosin, Plaister of Betony, of each two ounces, clear Turpentine what may suffice, make a Plaister. Out of a Manuscript.

For a prick with a Dagger, Thorne, or any other thing, that cannot be tainted.

Take clean boulted Wheat flower, temper it with Wine or Vinegar, and a little Bolearmoniack, beatethem at the fire untill they be as thick as Pappe, and make a Plaister, and lay it upon the fore, and before your Plaister be laid on, annoint it with oyle of Roles, and bowlster it on both sides, and Rowle it up. Mr. Goddard Chir.

Take Hogs greafe, Quickfilver, Sage, of each a sufficient quantity; mingle them all well together, and make an Unguent, annoint the parts that are lowly with it. Fallopius.

Another.

Take Venice Sope, what is sufficient, add to it Quicksilver killed; mingle them and stir them well, that they may be like an oyntment, and annoint the parts that are Lowsy with it, and the Lice will dye presently. Casparim Schnenl fildim.

Liee to kill, a Shipboard, bed or body.

Take May Butter, or unfealed Cream one ounce, three peny worth of Quickfilver, warme them in a luted Pot of Loame, and so fir them till they be incorporated together, then take a small linen cloath of three Inches, and steep it therein, then take a piece of silke, and sow into it, and hang it about your neck: often sound certaine by Dr. Thomson.

Another for Lice of the Head.

Take flowers of flower gentle boyled in Lye, if you wash your head with it, it kils the Lice, and it cures the bran and scurfallo. Hieron Tragus.

That any part may swell much without pain.

If any one wash the part with the distilled, or decoction of Wasps and Hornets, it will swell like to a great Dropsye, or a part that is possoned, but without pain. The remedy is Theriac drank, or smeered on the part. By this cheat some Women use to counterfeit a great belly, and deceive some that are very cautious, they do it so cunningly; and they make the people think they are in great milery, and so beg from street to street. This was a Secret of Regains, the chief Physician of Paris, who was School-Master of the poor people that belong to the Church, an excellent man, and this Art I had from one of his contemporaries, a familiar Friend of his. Mix.

A Restorative.

Take a pound of Cup dates, pick them very clean, and take forth all the stones, then seeth them in a pint of Muscadine, that is pure and not mingled, and be it seeth till a good part be consumed, then put it into a glass, and as you have occasion to use it, put three or sour spoonfuls thereof at a time, into your pottage or broth, and if you think good, you may use it as aforesaid, every male in broth, and it will be better, and do you exceeding much good. Dr. Mathias.

Take a pint of Mu kadine, divide it into equall parts, put into one half part a quarter of a pound of Rafins of the funne stewed and bruised in it, and unto the other half part, two yelks of new laid Eggs beaten and bruised in it, then put the Wine altogether with the yelks and Rasins, strain them, and drink a good draught of the Wine so put up morning and evening as long as it lasteth. The same.

Take a pound of Dates and wash them clean in Ale or Beer, then cut them, take

16

101

out the stones and the white skins, then bray them very small and fine in a marble morter, till they be as tough as wax; then take a quart of clarified Honey, and put the Dates before poured into it, let them remain untill the be diffolved; take also of long Pepper half an ounce, and as much of Mace, Cloves and Nutmegs beaten into fine pouderathen feeth the Dates and Honey over a foit fire, and caft in the pouder by little and little, flirring it very fast, let it feeth untill it grow thick, then let it to cool, and put it up into a close box or gally pot, and thereof eat first and last, and it shall restore a man be he never to weak or low brought: ufe this fometimes upon a full fromack and you shall not surfit therewith. Dr Samwayes.

For the biting of a mad Dog.

Colewort leaves and also the feed bruised with Vinegar and maserwort, do perfeetly cure the biting of any dog, be he mad or not: It will not be amis to add here what was shewed by an Oracle, That the root of Eglantine Rose, or Sweet-brian, is the principall and onely remedy against the biting of a mad dog, unless you will for-The Same. Iwear Plany and Galen.

For the biting of a mad Dog, and stinging of Scorpions.

For a Man stung by Scorpions, the remedy is the ashes of Scorpions drank in Wine: and they say that the biting of a mad Dog is to be cured, if much hair of the fame creature be burnt to ashes and drank in Wine. Plin. Lemnius,

Another for the biting of a mad Dog.

For the biting of a mad Dog. Crabs are burnt upon a fireshovell that they may be poudred. A spoonfull of this pouder must be given with the pouder of the root of Gentian and a little Frankincenfe. But this Antidote must be given oft times, and be taken continually for fix weeks, whereby the madness and fear of water may be cured. Mizaldan.

Against the madness of Dogs.

An Herb called Alystum is excellent against the madness of Dogs, and therefore as Galen and Aerim lay it is called Alyflum, from madnels. Mizaldin.

Another against the biting of a mad Dog.

River Crabs are excellent for those that are bit by mad Dogs, but they must be burnt in a poinet after the riling of the Dog-Star, when the Moon is XIV days old, and the Sun is entred into Leo. A spoonfull thereof is to be drank in a small cup of water, whilst the biting is yet fresh, and if it come to grow old the quantity must be Galen faith, the force is to great, that none die to whom it is given in augmented. time.

Canker to kill-

Take Doves-foot, Archangell, Ivye with the berries young, Red bryer tops and leaves, White rofe leaves and buds, Red fage, Celandine, and Woodbine, of each a like quantity, chop it and put it in white Wine and clarified Honey; then break into it Allome, and put into it a little pouder of Alloes hepatick, and diffill thefe together foftly in a Limbeck of pure Tinne: keep this water close, it will not onely kill the Canker, if it be daily washed therewith, but also two drops put inth the eyes will sharpen the fight, break Pearl and spot, especially if it be dropped in with a little Fennel water, and clole the eye after. M. Moulins.

For a Canker or swelling of the Mouth and Yard.

Take of white Wine and fountain Water of each half a pound, of Smiths water one pound; mingle rhefe together, put therein Bramble leaves, and Woodbine leaves, red Sage, and Plantaine, (if you have not the water diffilled) of each a handfull. The inner Rind of an Oake thred small a handfull, boyl it all together, then strain it, and put therein as much Sugar-candy as will take away the sharpness of it, the quantity of a Beane, of white Copperas, wash the Mouth, likewise spout it into the yard with a syringe, it hath been very often experimented. Dr. Mathia.

Set a pinte of White wine to the fire till it be blood warm, then put thereto of Annileed, Cortander feed, and of Sene Alexandina of each a spoonfull, a Licorith stick the length of a finger, leraped and bruiled; half a spoonfull of Vinegar or better circ in small flakes: steep these all night in warm embers, the pot being close stopt, the next day let it see the a little over the fire, then strain it out, and put thereunto three or sour spoonfulls of Syrup of Roses solutive, so drink it. Mr. Calton.

A Potion to purge.

Take of Syrup of Roles folutive two spoonfulls, Whey five or fix spoonfulls; mingle them together, and drink it fasting, it purgeth Choller and Schirhous humours, M. Horsman.

Trifoly is wonderfull, that is like to the herb Hyacinth, when it flowers in the Spring, and it hath feed like to the wild Hyacinth. For this fod is a principall remedy against the biting of the Spider Phalangium, or the Viper, if it be fomented with water, and it easeth the pains. But with the same immentation upon a part that is not bir, you shall raise a pain like to those that are bitten, or upon any other man that is well. For it cures the bitings, and affices the part not bitten as those bitings do. Jacobus Sylvius Medic.

The feed of wild Saffron bruiled in your hand, or hanged about the neck, is very powerfull against the bitings of Scorpions; some say the roots of Laurel and Iris are good for the same purpose. Mizaldm.

Sometimes poylons are so great puillant to poylon, that Wolfsbane given in warm Wine is approved to be a most wholesome medicament for those that are stung by a Viper or a Scorpion, as some most experienced Physicians affirm. The same.

Another for the same.

This is wonderfull amongst the rest, that he who eateth Radishes before, if he be stung of a Scorpion, the Scorpion loseth his sting; and if you strew Radishes upon Scorpions you will kill them. The same.

Take Wax, Rosin, Turpentine, Barrows slick clarified, of each a little quantity, but least of the Turpentine; first melt your Wax over a soft fire of embers, then put in your Rosin, and last your Turpentine and Barrows slick, let all these boyl, stirring them well together; then take it off the fire, and when it is thorow cold, take it out of the skillet, and scrape clean the bottom that there may no skum hang there, and keep it to your use: it will draw and heal, and if you spread a little Diacalsathos thin when you lay it on, it will skinn the fore place without any other thing. Mr. Brown Chyrurg.

Against venereous Bubos.

Some maintain that water distilled from Mans dung will burn, for it is very fat and thin enough, yet not so much as Aquavite: It is approved that it is contrary to swellings, especially of the throat. Cardan.

Live Oysters remove pestilentiall bubos, and draw all the venome to themselves; but they must be fastned to the arm, where the vein axillaris runs, for a bubo that is under the arm-pits; but if it be in the groin, they must be laid to thigh where the vein of the leg runs. Hollerim.

Henbane applied to pestilentiall bubos, will, as it is reported, dispers them; and if one have this hearb by him before they come forth, he shall never have any such bubos. Mizaldm.

For Carbuneles.

Coriander feed in pouder mingled with Honey, and laid upon a Carbunele, destroys it. Arnoldus de villa nova-

Take of black Sope, Salt and Sothernwood, of each a pretty quantity; pound all these together, and apply it often times. Mr. King.

in

0

For pestilentiall Carbuncles.

Galbanum foltned and spread upon linnen, and laid upon a Carbunde, if it be curable, it will flick to fast to it that it cannot be plickt off, but it will pull it forth by the roots, but if it be incurable, it will not flick at all. The fame.

To provoke five t.

Take bricks very hot, wrap them in cleathes and Ly them to the feet and fides, or ftone bottles put into boyling wa er and fild therewith, being well ftope with corcks, and fast bound at the head; use them as the bricks. M. Rouland.

For venemous frings.

If any man be bit or flung of any venemous creature, let him prefently drop in two or three drops of the milk of a Fig-tree into the wound, and he shall find wonderfull help: He may also lay upon it some mustard feed brayed with Vinegar, Mizald,

For scropbulous Tumours.

If you cut off the feet of a great hedg-Toad whilest he is alive, when the Moon is neer her conjunction with the Sun, and bind them about the Patients neck they are fo profitable that they ofttimes cure him. Cardan,

Proud or dead flesh to remove.

Take of Mercury Sublimate one drain, boyl it in a pottle of water till half be confumed, wash the fore therewith and it will keep down proud flesh, take away dead flesh, and preserve the fore clean; after you have washed the fore therewith, lay on it a cloth well wet in the fame water eight or ten days, Probatum. Dr. Read.

For ferophulous Tumours.

It is a wonderfull experiment of a feventh Sonne, that every feventh Sonne, where there is no Daughters born between them, will cure the Kings evill, onely touching it, or speaking the word. Corn. Agrip.

To cure the knots of the Joynt-Comt.

If rotten wormeaten Cheese be moulded with broth wherein a gammon of Bacon hath been long boyld, it will take away the knots of the Joynt-gowt withou any Instrument, if it be laid on for a Plaister, as Galensaith; and Coccus Gnidius will won-derfully do the same beaten with Myrrh and Vinegar.

For all Impo immes.

Keep an old Gander fasting three days; then give him pieces of an Eeel new killed, and preferve his dung; you have a prefent remedy for all Impoltumes. Out of a most experienced Chyru gion.

Fellon to kill.

Take new rufty Bacon, Snails with Shells, and Leaven, of each alike; pound thefe together, apply it to the place, and it will draw and break it. Lady Camden.

For Warts.

If you would cure Corns or Warts, cut off the head of a live Eel, and whileft the blood runs, rub them with it: then bury the head of the Eel deep in the ground; and as that decays they will all fall away. The same.

Another for Warts.

It is a tradition, that Warts rubd with Fig leaves will all decay, if they be buried under the earth: Some alcribe the same to a Pigeons heart. Mizaldus

A good experiment against Warts.

Put Hens teet under hot coles untill they be scaled of the skin, and tub the Warts with the skin that is parted from the bones, three or four times whilest it is hot, and they will be gone. Alexius.

Against Corns. Hermodactils, and the feed poudred and mingled with Oxymel of Squils, or juyce of Marigolds, will drive away Warts and hard knots, though it be in the legret parts, and gotten by foul copulation. The fame.

Chilblanes to cure. Take Lime water and warm it over the fire blood warm, then take a fine cloth and bathe the chilblanes therewith when you go to bed, and wet a cloth in the fame fix or leven double, lay it upon them, and in two or three nights they will be cured, Probatum. Mr Delawne.

For Warts.

Physick is in nothing more superstitious than in driving away Warts: Serapio faith, that if you touch them severally with severall chiche peason in the Calends of the Moneth, and cast these chiches behind you, that will cure them.

Another for Warts.

Take a red Onyon, bruile it well, and mingle it with Salt, annoint the Warts with it. Refeellus.

Take Saltpeter, Vitriol, Verdigreece, of each two ounces, Allom zuccharinum one ounce, quick Lime half an ounce: Distill them in a retort, the first water is nothing worth, but the second is good against Corns and Warts. Fallopius.

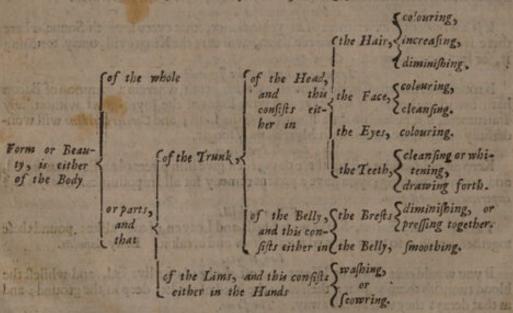
Beat a head of Garlick and bind it on, and renew it every day: But you must every other day wash the seet that have Corns with Lee; and when they are dried, bind on the Garlick, untill they fall. The holes must be cured afterwards with some abstergent and healing Unguent.

Against Scars.

It is known that Scars are hid and concealed by that which was the cause of them.

Cardan.

Of the Form of the Body. Chap.5.



Of the Form or Beauty of the whole Body. Chap. 6.

To make men fat.

If you mingle with the fat of a Lizard Salt Peter, and Cummin, wheat meal, Hens fatted with this meat, will be so fat, that men that eat of them, will eat until they burst. Cardan.

Of the Form or Beauty of the Parts of the Body, and first of Colouring the Hair.

You shall make your Hair and Beard of the Colour of gold thus: Take the pieces of Rheubarb, which the Apothecaries pare off, and cast away as good for nothing; and steep them in a Lee made of Milletow of any Tree, the leaves and boughes of it, untill they grow soft; then pressing them forth after you have boyled them a while gently, wet a spunge in the Lee, and wet your hair with it, or your Beard if you please: Then dry them both with hot linen cloathes, which is safer then to dry

Secrets in beautifying the Head and Face. Book V.

them at the Sun or fire. When you have done this often, then you shall have your de-

fire without any hurt. From an Italian.

930

BVD

more

Ding

M (in

in-

To make your Hair as white as filver.

Take River water twenty five pound, roots and leaves of Centory three ounces, boyl them together untill a third part be confumed; then when they have flood fifteendayes in the Sun, adde Gum Arabick, Dragant, Alum, of each two ounces; Venice Sope, Tarrar of White wine, of each one pound: mingle them, and boyl them so long, untill they be a water, which the Italians commonly call Blonds; that is, yellow Venerian: And when you will use it, in the morning wet your hair well with it, and wrap them in a linen cloath; then in the evening wash your hair in Lee wherein the Herb called Virriola is boyled, and dry them at the sunne or the fire; which when you have done twice or thrice a week, your hair will be white, clear, and filver coloured. Alex.

To make your Hair yellow.

To make your hair yellow as gold, take red Allum, fix ounces, Vitriol four ounces, Salt Petertwo ounces; diffill a water from them, and wet your hair or beard with a spunge dipt in it, and pressed forth again: And do this several times, it will be performed. Mizald.

Tomake your Hairred.

Take one handfull of Nut-tree leaves, diffill them in a glass Retort, and with that only wet your hoary hairs fifteen daies, and they will be red: This colour will laft one moneth. But wet not your face with that water, for it will grow black. Alex.

To dye your Hair yellow. You shall make them very yellow with o'l of Honey, and yelk of Egges. Also with a Lee made of Vine-tree, Barly straw, scraping of liquorish, and leaves of box, Safforn and Cummin: If you wash your hair often, they will be very yellow, and like to gold, The Same.

Tomakeyour Hair Seem green.

The diffilled water of Capers will make your hair green. Cardan.

To make your Hair black.

To make your Hair black.

Take common Lee what you heard black thus: Take common Lee what you You shall make your hair or beard black thus: Take common Lee what you please, insuse therein the leaves of Beets, Sage, and Bayes, Myrth, and the shells of Walnuts; then boyl them all, and wash your beard or head therewith, or wet them with a spunge dipt therein, and a little pressed forth. You will wonder at the e-

To dye Hair black. Hair will grow exceeding black by a Lee made of the rind of fig-tree, galls, dates, bramble, cyprus, and the like. But this way you shall dye a hoary beard, or hairs black very well: Lythargy of filver, and burnt brafs, mingled to four times fo much strong Lee, and when it riseth up in bubles over a gentle fire, wash your hair with it, and dry them, and wash them again with hot water.

To dye the Eye-brows black. The Eye-brows are thus coloured black: Break galls in oy I, then bruile them with a little falt Armoniach, then mingle them with Vinegar, wherein the rind of brambles and mulberries have been boyled, annoint your Eye-brows therewith, and let

them remain so all night, then wash them with water. The same.

To make baire black.

Take lee five parts, Lytharge fix ounces, Sage, leaves of a black fig tree, of each one handfull; mingle them, and boyl them untill a fourth part be confumed, and make a lee. With this wash the head twice a week, and then dried, must be annointed with this oyntment. Take the juyce of Sage what is sufficient, black Tarrar one ounce, Lytharge half an ounce. Mingle them and make an oyntment, wet a leaden combe often in this, and kemb your haire, and they will foon grow black. Alex.

Take the juyce of the pils of green Walnuts three ounces, red Wine a quart; boyl them together untill a third part be confumed, then adde common oyl five pound,

の 日本 日本 日本

mingle them well and annoint your hair, Marinellus,

Another. Take Myrobolans Indi, Gals, of each one ounce, Lytharg one dram, falt peter, roch Allum, burnt brass, of each eight ounces, sal gemma, tragamb, of each one ounce, pouder them all, and mingle them withwater, wherein the kernels of dates are boyld, annoint your hair with it.

Take red Poppy juyce, and juyce of green Walnut shels, oyl of Myrtils, oyl of Coftus, of each what is fufficient. Boyl them awhile together, and keep them infome veffell for your ufe.

Another. Take Cyprus nuts, and boyl them in Wine and red Wine Vinegar, make a lee, wash your head with it. Marinellus.

Another.

Take Galsboyld in common oyl two ounces, roch allum two drams, fal gemme one dram, oyl of Costus what is sufficient, mingle them, make an oyntment to annoint the hair. The fame.

Another. Take Litharge of filver, Vinegar, of juyce of Citrons what is sufficient, boyl them halfan houre, make a lee to wash the hair. The same.

Take leaves of Capers what is needfull, boyl them in milk untill a third part be confumed, and annoint your hair therewith. The fame.

Auother. Take flowers of Wallnut tree, beat them well, mingle them with common oyl, make an oyntment for your hair.

Another that a Matron of Venice used. Take oyl of Tartar being hot, what may luffice, annoint a Spunge or Comb, to kemb the hair in the Sun, your head being first washt. Having done this thrice every day, it cannot be but in feven daies, your hair will be black : but if you would have them sweet sented, last of all, annoint your hair with oyl of Ben, because it will make your hair not only fweet but black, which is rare. Alex.

To prevent hoary hairs. Annoint your head and hair with Bitches milk, it is Probatum, Noftrad.

To Augment your hair. That hair may grow again quickly.

The afthes of burnt Bees, with Mice dung, if you annount this with oyl of Rofes, it will make hair grow in the palme of your hand; to thele you may adde the ashes of fmall Nuts, Cheftnuts, Dates, and the rest of that fort, for of all these the force of growing again is destroyed, or they will come forth much foster. The fame.

To make baire and beard grow, that shall not fall away again. Take Bees burnt to ashes so many as you please, Linseed burnt and poudred as much, oyl of green Lizards, (and it is made thus, the green Lizards being alive, must be put into a glass Viol, full of common oyl, and fee by the fire untill they be diffol-ved, then they must be set in the Sun for filten or twenty daies,) what is sufficient, mingle them, and make an unguent, and with this annoint the parts bald of hair, morning and evening, and thus they will suddenly grow again and not fall off. But the head must be first washt in the following lee. Take lee made of ashes, what you need, Maidenhaire, Agrimony, tree Ivye, of each five handfuls. Mingle them, and boyl them : then ftrain it, and keep it covered for your ule : when you have washt your head twice or thrice aweck with this, and then dried it, and after that, gently announted it with this unquent, it cannot be but your hair will grow thick and long, and will flukfalt. Alex

Another. Let Bees be dried in a Basket at the fire, untill they may be poudred : mingle this powder with oyl, and annnoint the place where you would have hair to grow, and you hall fee wonders. Notradamus.

RIA.

010.

han

ogl,

00

od

OF-

To diminish the hair-

## shired asome owe befored To make any part bald. I have to some wood to

That hairs may fall from any part, and may grow no more:a Catsdung dried and powdered, and mingled with strong Vinegar, to a pap will do it: with this you must rub the hairy place often in a day, and in a short time it will grow bald and without hair. An experiment of a Country Man.

The pils of Mice or Rats will make a hairy part bald, but it is reflored and cured with the blood of Moles, or the skin of them rubbed upon it. Mizald.

If you annount it with the common decoction of Quick-lime, and a third part of Orpiment, and ftrong Lee, and try with a feather when it is ready. But Columel-la bids to boyl a black frog in water, untill the water be boyl'd away one third part, and to annount the body with this where you would have it bald. There are other certain things, as the Gum of Ivy and Vines, that will make a part bald. But the former is more commodious. But if you would have them grow again, you shall make the place bald by this way, and pull the hairs out by the roots: Annoint it with Ants egges, juyce of henbane, hemlock, fleawort feed, Batts, and Swallows blood. The same.

That Boys and Girls may never have hair grow on their fecrets or beards, annoing the privities with the blood of a Fish called a Tunie: for it is cold and thick, and it will do the fame it you annoing it on any part. Also the meal of beanes will do the like, if you daily wash the part with water, for they scowre, and hinder the hair until the skin is stopt with a glutinous humour, but such remedies as almost all the rest of this nature are not for continuance.

Take fresh Quicklime two ounces, Orpiment poudred one ounce, the strongest lee two quarts. Mingle them, and boyl them in a pot untill they grow thick, or a Ducks seather put into it, will burn, stirring it continually, then keep it in a Glass, or some glazed vessel. When you will use this, first annount the parts with oyl of sweet Almonds (that you may not seel the heat so much,) and afterwards annoint them gently with this oyntment. But if any may have so thin skin that he cannot long endure the heat, let him annoint the part with the following water, and the heat will presently cease. Take Rosewater two ounces, Plantane water one ounce, whitest Sugar half an ounce, mingle them, you may use this water and unguent but only every other day: but if you will not use this, then take this that is next. Take salt Armoniack, Goats gall what shall suffice, mingle them well, and make an oyntment to annoint hairy parts. Alex. Piedmont.

Take juyce of roots of Celandine, Orpiment, Ivy, of each what is sufficient, Ants eggs, of Vinegar, of each one part. Mingle them very well, and make an oyntment, and if hairy parts be often annointed with this, the hairs will fall without doubt; But if you feel any pain asterwards, wash the part with the foresaid water.

That bairs may fall, and none may grow again.

Take Cats dung and pouder it fine, and lift it, and mingle it with Vinegar to an owntment, annoint the hair with it. Out of a Manuscript.

#### To colour the face.

Distill water from grains of Paradice, Cubebs, Cloves, shaving of Brasil, and strong-water, often distilled, (and after it hath stood awhile at a soft fire, or corrupt Horse dung,) with this wet your face often when it begins to work. The same.

The root of Solomons scal, by only rubbing, makes Maids pale Cheeks look red.

Mizaldus.

To deface the great redness of the countenance.

Take four ounces of Peach Kernels, and gourdfeed blanched two ounces, bruife them and press them strongly to draw forth an oily liquor; with this morning and evening touch the Carbuncles and rednels of your face, and they will depart, or be much better. The Same.

Boyle Elecampane roote in white wine, till the wine be almost confumed, then bray him in a Morter with Quickfilver, Brimstone, and Barows greafe, quench the Quickfilver first with fasting spittle, and then annoint the place. Dr. Davison.

Another of the Same Author. The Onyon heads of Lillies fod in water, take away the rednels of the face, if you annoint with them morning and evening. This I had from a Matron that was ex-

cellent for painting faces,

A water to colour the face, that it shall shine with smoothness.

Let the whites of Eggs be boyled untill they be hard, diffill water from them, it will be fit for ule, to is Rolemary water, bean flower, water and juyce of Lemmons. But this is the best water invented with great cunning. Bring Talcum into the finest pouder, and put it into an earthen pot, and put into it a great quantity of live Snails, and cover them that they creep not forth. When they want meat, they will devoure the Talcum, and concoet; it when you know they have eaten it all, bruile them with their Shels, and put them into a glass still, distill water from them, and keep it for your ufe. The Same.

Water that makes the skin shine.

Take fountain water, diftilled as much as you pleafe, put into every Viol of water, Myrrh one ounce, egge shels not boyled source ounces, Juniper Gum half a spoonfull, crums of Bread soltned in Goats milk one handfull. Mingle them, and distill them untill all the water be drawn forth : this being done, Take Lard, which fome call Pomatum, if you can get that; if not, Goats or Hens fat, or Lambs fat or Calfs, yet they must be once or twice strain'd with pure water: then they must be set in an earthen pot at a gentle fire to melt, adding by degrees as much of the former distilled water, that it may be like cold oyl or oyntment : but the fat cannot be mingled with the water, but that the fat will rather fwim on the top like to oyl, you must adde some Tartat burnt, but not much, or Pot-ashes, or Borax dissolved in the water, that they may mingle pertectly. When this is done, keep the oyntment in glass Vessels. To make it (weet fented, add some Camphir, white Ben, Musk or Amber, which are diffolved in Role water, and strain'd, or oyl of Gefamin, which will do the same. Alexiste.

Oyl that makes the skin fair and shining. Take white Tartar two pound, Talcum, Salt, of each half a pound. Mingle them and fer them into a Potters Furnace, or Lime kill, untill it be burnt, when this is done, grind the matter upon a Marble, then put it for fifteen or twenty daies into some bag with a sharp end, and set it in some moist place, free from the Ayr, setting some Velsell under to receive the oyl that runs from it, and keep this as a precious thing. When you will use it, you must first wash the skin with lee, and dry it : then you must annoint it with the forefaid oyl upon some linen cloath, and rub it foftly; this defaceeth all kind of foots, and makes the skin foft and fupple. The fame.

To make the face red.

To make a pale face red, and one that hath an ill colour beautifull; take red Sanders, and the sharpest Vinegar twice distilled what you please, mingle them, and boyl them at a nentle fire, and add to it a little Allum, to you have a most perfect red to colour the face, and if you would have it sweet sented, put in a little Musk, or some other lent as you pleafe. Mizaldus from an Italian.

To adorne the face. Allum bruifed and shaked with whites of Eggs that are new, being heated and moved continually, will grow thick to an oyntment; If you annoint your face with this two or three daies morning and evening, it will not only take forth spots and wrinkles, but it will grow very clear and faire. The same.

CK 7

Hym

BE.

WID

piting

CÉ WIL

A

57

Take juyce of Lemmons two ounces, Rose water two ounces, Mercury sublimate two drams, white lead two drams. Mingle them like to an oyntment, annoint the part in the evening, and in the morning do it with butter. Cardan.

Womens paintings that make the face cleare and finooth: are crums of Bread steeped in Goats milk or whey, distill water from it, and with this adorne your face. It is excellent to make the face white, and to make the skin clear. Affes milk is as good, for it makes the skin smooth, fine and soft; wherefore Pompeia Sabina Neros wife did not keep 50c. Asses for nothing, for she bathed her whole body over with Asses milk. The same.

Take live Brimstone one ounce, Frankinscence two ounces, Myrrh two ounces, Ambergreece six drams; pouder them severall, then mingle them, adding one pint of Rosewater, distill them in a double Vessell, or Balneum Maria, as they call it. The water distilled from it, must be kept in a vessell exactly stopped. When you will use it, dip a fine white rag in it, and wash your face before you go to sleep, and in the morning wash it off with Barly or fountain water. The face will be to clear and beautifull, that all will wonder and desire to kiss it. Out of a certain Book of Womens adarning

Take distilled Vinegar one pound, Litharg of silver one ounce, mingle them, and set them in a glass Viol upon a Brick by the fire for one hour, and then in the Sun for eight daies, and preserve it. Then take water of gourds one pint, salt Gemma one ounce, mingle them, and set them in another glass by the fire also, for one houre, and keep them as before. But when you will use this water, take it with the salt of the foresaid Vinegar, with the silver Litharg, of each one part, mingle them, and make water like to milk, and if you wash your face with this with a wet sponge very finely, it will grow white soft and fair. Alex.

That a painted face may wax pale.

Chew Saffron in your mouth, and when you talk with the party, come near to her and breath upon her face, and it will make it wantbut if the be not painted, it can do her no dilgrace. The fame.

From the green shels of Walnuts, the Chymists in France draw a pure water; if you wash your hands and face with this, you will be black as a Gypsie by degrees. But if you would make them white as they were, distill Vinegar, juyce of Lemmons, and Colophonia, wash with this, and it will deface the black of the other. The same.

If Women be painted with red, it will be discovered if you chew some Cummin seed, or a Clove of Garlick: for it it be naturall it will abide, but if painted with white lead, Quickfilver or Oyntment Citrium, it will presently vanish. Langing.

To make the Sace clean and to take out the spots.

Take Myrth powdred what you need, whites of Eggs five, Aquavita a little; mingle them and beat them very well, then distill them untill all the water be dropt for the then add to it as much of lac Virginis, as the foresaid water weigheth, and keep it in a Glass: Lac Virginis is made when Lytharg is boyld in Vinegar and strained, then add some oyl of Tartar to it, and it will be like to milk when you will use it, wash yout face first with a linnen rag dipt in water, wherein Bran hath been soked awhile, or with a red cloath rub it well, which is better, then with a fine clean rag of linnen dry it, and annoint your face with the foresaid unguent morning and evening, and let it dry of it self. It is admirable to see it. Alex.

Another

If Gold made red hot be often quenched in the best wine, and a little Tartar be put to it, it drives away all spots be they never so soule, upon any part of the body; also it helps a leprous red nose, and that hath many watts. Lemniu.

Take Salt peter, whole Tartar, of each one pound, bruile them all severally; then mingle them and tife them, make a very fine powder. When you have done this, put the pouder in some dish, and make a Mass like to a Sugar loas; then put a light Charcole upon the top of it, and so let it burn. For because Salt peter is of thin and moist parts, and Tartar of thick parts they must needs run to a lump. When this is done, put that lump into some dish, powring upon it hot water, and break it with your singers, until it be very well dissolved, then when it is fistred and set in a new earthen pot by the fire, that it may be hardly hot untill it be dry, you must keep the powder that settleth in the bottome, wherein all the virtue lyeth. This being done, take a glass Bottle, in which you must have of distilled Vinegar sour ounces, Aqua vita thrice distilled one ounce, then poure in the foresaid pouder, mingle it, and set them three daies in the Sun, very well stopt, and so keep it. And when you will use it, wash the Tetters with it morning and evening, and all such kind of spots, and in a few daies they will be perfectly cured, and the skin will be very sair. Alex.

Take the dregs of white wine, and dry them, and when they are dried, make them into powder in an iron Vessell. This being done, let them remain in a bag, in a moist place, twenty or thirty daies: setting some glass vessell under, untill all the pouder be turned into oyl, keep this in a Glass. With this annoint any spots or Tetters, and they will be soon gone, and the skin will be soft. If you would have this sweet sented, add thirty Cloves. The same.

For all flots, Glothes, Morphem, Tetter, and Leprofies beginning.

Take Vitriol four ounces, Salt peter three ounces, filings of Steel one ounce, Camphir half an ounce, diffill them. Cardan.

You shall thus deface all spots of the face, insuse sisten new laid eggs shels, and all in the sharpest Vinegar: then bruise them in the Vinegar, with one ounce of Mustard seed, and distill them in a glass Vessell; wet some Cotton in the water, and lay it on when you go to bed. This takes away all Pimples. The same.

The blood of a white Hen smeered over a Pimpeld face, and so lest to dry, and then rub off, blots out all the spots. From an Italian.

To scowre off all Scales from the face.

Cows or Goats milk mingled with poudred glass, and wet your face with it, this scowrs off all fours, and makes the face clear. Also the juyce of Dragons cures all spots, especially those that deforme the countenance. The same.

Conradus Gesner, saith he saw a woman that was freed from small swellings in her face, only by washing them with water of Strawberries distilled: but they were first set in a glass Vessell under Horse dung to serment.

Take Venice Turpentine two pound, new whites of Eggs twelve; mingle them, and distill them in a glass Retort, take the water, and add to it Camphir poudred ten Scruples, let it be well melted and keep it. When you will use it, take of this water one ounce, water of Snails one ounce, mingle them, and wash your face often therewith. Alex. Piedmont.

You may thus take off black and blew spots from the Checks, especially from Women when they have their terms. Annoynt the place with white Lead, and Bean meal, mingled with Vinegar, or with yelks of Eggs mingled with honey. The same.

1204

西山

Tuch Tick

STORE,

Ages

以位

出世

dina

inc

Ta-

this

For Pushes of the face arising from heat of the Liver.

Take Hogs greafe refined, Quickbrimstone, of each one part, water of the Peach tree and Fern distilled, of each what may suffice. Mingle them at a gentle fire, and make an unguent, annoint the Pushes therewith and it will cure them. But youmust abstaine from wine and other hot things. The same.

A Sweet Sented mixture.

Take Musk three drams, Ambergreece two drams, Zibet one dram: grind them upon a Porphyr stone with oyl of sweet Almonds, and make a sweet oyntment, very pretious. Isabella Cortesa.

### To colour the eyes.

To change the colour of the eyes.

If you would change the colour of Childrens eyes, you shall do it thus; with the ashes of the small nut shels, with oyl you must annount the fore part of their head: it will make the whites of Childrens eyes black; do it often. There are many experiments to make white and grey eyes black, and of divers colours; but I let them pass because those that have need of their eyes, will not so easily try them, nor do they all performe what they promise. The same.

To cleanse and whiten the Teeth.

A ponder to whiten the Teeth.

Take red Corall, flowers of wild Pomegranates. Pumex stone, burnt Allum, Gals, Acacia, Galla Moschata, of each three drams, Cyperus, Froth of the Sea, Cardamomus, salt Armoniack, Mineral salt, sal Gemmæ, of each two drams, Spicknard, wood of Olives, Cyprus nuts, Costus, Spodium or Myrtill seed, Mastick, of each one dram, Cloves half an ounce, make a pouder. Out of a Manuscript.

Take the shels of three eggs, red Corall three drams, threds of white Silk burnt in a new pot to ashes, two drams, Cinnamon two drams, Cloves one dram, Pellitory of Spain two drams: beat all these into very fine pouder, and sub your Teeth with it e-

very morning and evening. Rantz.

Another.

Take Harts horn burnt in a new pot to ashes one ounce and half, Mastick of Chies half an ounce, salt Armoniac six drams, mingle them.

Another pauder to rub the teeth.

Take Corall white and red of each one ounce, Pellitory of Spain, Mace, Maffick, of each one ounce, Pumex stone, Bolearmoniae, of each one ounce, make a fine pouder. Henr. Ranzavins.

Another.

The best pouder was anciently provided to rub the teeth of the shels of Fish, whereof Purple was made, and other shels burnt to ashes: but now you may quickly use and
safely crusts of Bread burnt, pouder of Pumex stone, red Corals, cuttle sish shels, Harts
horn, and the like, each of these will cleanse and polish, so will Cochineal, if you will
rub them with red. But the oyl of Brimstone is best, for it polisheth, smootheth, and
takes off all spots, also you may do it with Alum and Salt distilled. The same.

#### To draw out teeth.

To draw out teeth without pain.

Some fay that roots of Sparagus dried, and fluck into the teeth, will pull them forth without pain. Mizal.

Boyl wild Cucumber, first bruised and insused in Vinegar, untill it be as thick as Vinegar, then scarifie the Gums about the teeth, and wet the tooth round with this Medicament, then bid the Patient shut his mouth awhile, then take the tooth in your fingers, and it will come forth without pain. Alexim.

A water that draweth out teeth without pain.

Take falt Armoniac, and diffill it in a Limbeck, touch the tooth with that water, and it will fall out and no pain be felt. The fame.

A powder for the fame.

Powder of red Corall put into the hollow tooth makes it fall out. Diffolve falt Armoniac with juyce of Henbane, touch the tooth and it will fall. The fame,

That the teeth fould feem to beare.

It is a great wonder, yet every man may try it; put a flick to a harp, that one end may touch the mouth of the party, if any other take the head of the flick or Javelin in his mouth, he shall hear the found of the Harp, voices and words spoken as if he heard with his teeth afar off. Whereas otherwise he could hear no noise at all. Cardanus.

## To make the Brests lest.

That the Brests may not grow.

Balme beaten to a Cataphlasme, and laid on womens breste, hinders the growing ofthem. Falloping.

To binder the Brests from increasing.

Bruife Hemlock, and lay a mixture of it with Vinegar upon Maids Brefts, and it will not fuffer them to grow; this is chiefly for maids, yet it will keep milk back at the time it should breed. But fost and lose brests you shall keep down thus, White earth, whites of eggs, fowre Gals, Mastick, Frankinscence, all beaten, must be mingled with Vinegar hor, and annointed upon the brefts, and fo it must remain all night; if this do it not, renew it again. Also stones of Medlars are good for this purpose, useripe Services, wild Plums, Acacia, Pomegranate Pile, wild Pomegranate flowers, unripe Nuts, pine kernels, wild Pears, Plantane, if they all boyl in Vinegar and be applied to the brefts. The same.

That Womens Brests may be made like to Virgins Breasts.

Rondeletins after Plin faith, that it is proved by experience, that a feale Fish laid to Womens brests, will so bind them together, that they will look like Virgins brests. The fame may be done to the Secrets. Let those that are given to pleasure and ornament prick up their ears.

To take away the wrinkles of the belly after Child birth.

Let unripe services be long boyled in water, mingle the white of an Egge, and gum Arabick dissolved in water, wet a linnen cloth in this water, and lay it over the belly; or Harts horn burnt, Lapis amiantus, salt Armoniac, Myrrh, Frankincense, Mastick, all in powder, mingle them with Honey, this takes away all wrinkles. But if you teek to close again natures passage, for it useth to be relaxed in child birth, if your Husband be not pleased with it, you shall fasten it thus. Beat sowre Gals very fine, mingle a little of the rouder of Cloves therewith, boyl them in Wine, wet a cloath in it and lay it on. Or thus you shall straighten a Whores common open dore; with Gals, Gum, Alum, bole Armoniae, dragons blood, Acacia, Plantain, Hippocystis, Balaustia, Mastick tree great and less, Comfrey, Cyprus nuts, Grape stones, Acorn cups, out of which the Acorn first shews it self, Mastick, and serra lem-nia. Boyl all these in red wine or Vinegar, wet the passage often therewith, this will close it exceedingly. Or elle pouder them all, and cast them in with a quill, or make a sume of them. But if you would make a woman deflowred a Maid again, make little peliets thus: burnt Allum, Mastick made into fine pouder, adding a little Orpiment to them, that they will almost not be selt, make these with water into pils and press them hard, and let them dry very thin, and pur one into the place of the Hymen, where it was first broken, changing it every fix houres, alwaies wetting it with Rain or Cystern water, and that for four and twenty houres this will cause blisters, which touched will bleed, that it can hardly be discovered. Some set a Leech to the place, and fo they make hard crusts, which being rubbed will bleed, when they have made the passage straight, before with what I mentioned. The

To

# Book V. Secrets in ordering and making Artificiall Wines 91

To make white bands.

To white the hands.

Take juyce of Lemmons what is sufficient, common Salt a little, mingle them, wash your hands therewith, let them dry of themselves; then wash them with common water. Out of a Manuscript.

To black the hands.

Pouder of gals put into water, if you wash your hands therewith will make them exceeding black, it is so far from making them white : the remedy is an Orange pill.

Against the ill smell of the arm-pits.

The root of Hartichoke boyld and laid on for a Plaifter, cures the ill fent of the armpits, and of all other parts of the body. It doth the same boyld, and drank with wine, For it makes a man make such abundance of ill sented Urine, that it will cure the virulent gonorrhæa. Dioscord. Oribasim, Paulus, Langins.

Of Meat. Chap. 6.

To keep meal a long time

Wheat meal ground in August, is wont to last long in Italy. Card.

To keepripe Grapes.

When the Grape is ripe, and when it is gathered, take care to provide for your Family, and be fure it be ripe and dry before you gather it, least the wine be not the best : pick forth continually all green Grapes, and skins cast them away on heaps upon hurdles, fift them, and put them into pitched Wine veffels, or places featoned with Pitch to keep them in; cover them close, and smeer the outside well, give this to your Oxen in Winter, you may if you will wash them through a little for your Family to drink, Cato, That flesh may seem full of wormes.

Harp strings out small and cast upon fiesh newly boyled, will seem like to Worms?

The Same.

4

That field may frem bloody.

The congealed blood of a Hare baked and poudred, and strewd upon field, it will make it look bloody, that you will vomit up what you have eaten by loathing it, and many things more which I leave to gluttons. The fame.

To endure bunger eafily. Avicenna reports, That one who was to travell drank a pound of oyl of Violets mingled with fat, and he was never hungry afterwards in ten daies, and he faith that oyl of Almonds and Cows fat will do the like by the unctuousnesse thereof. A-

Against Hunger. Travels and Wars ofttimes make a man fall into want of all things, that he must

endure grievous famine. It will be good to fet down some remedies against it. When famine is great, the Liver of any Creature rofted, will fill more instead of bread. Also Bread baked of sweet Almonds and Sugar, doth nourish much. Also Bifquet or Sea bread must be carried with us, because it doth not by its driness cause thirst, and will keep long uncorrupted. We read also of one who was overwhelmed by the fall of an house, when he had no hopes of life, he kept himself; alive seaven daies and nights by drinking his own water. Rantzo.

Avicenna made little balls against hunger, which must be kept that the Sun melt them not. Take sweet Almonds blancht one pound, Cows fat melted one pound, oyl of Violets two ounces, Mucilage of Marsh mallow roots one ounce: brusse them all together in a Mortar, and make bals, like bals of Italian nuts.

Of Drink. Chap. 7.

To cure corrupted Wine. · Some use to poure forth corrupted Wine into a clean Vessell, and to add by degrees.

## 92 Secrets in ordering and making Artificiall Wines. Book V.

to it a tenth part of milk, and then after eight daies they broach the veffell, and fell it out by retaile, and it will feem clear and good, but if it stand long in the cup, it will corrupt again. Also that which is poured forth, leaves a fat, like butter upon the brims of the cup, whereby the fraud is discovered, yet it is a gainfull way; But if you would prevent this corruption before the wine be troubled, a tenth part of Aqua vita mingled with it, will do it : Brimstone is farre better, but the sent betraies it

To amend corrupt Wine.

But here comes into my mnid a Secret that Vintners have cause to buy at dear rates, yet I will impart it freely. If you cut a Raddish in pieces and put it into a Wine Vessel, it will draw to it felf all the ill fent (if there be any in it ) and all the fowrness. But that it may not corrupt there and do hurt, it must be presently taken forth again, and if need be, a fresh one must be put in. Mizald. de Secret. bort.

That Wine may not corrupt.

That Wine may not corrupt, the bark of the Vine will do it by Sympathy, and because it drieth: also Allum whilst it is new, and before it works, mingled with it will doit. Cardan.

To correct corrupted Wine.

I must not conceale it, that as by a Colewort leaf in a Wine Vessel, the Wine will eafily corrupt, so by the sent of Beet leaves insused in it, it will be easily recovered. Mizald. in borto medico.

How Wine that is Copped may be mide fresh.

It is performed thus, Take Virgins Wax one pound, or what is sufficient, cut it fmall, and put it into the Wine, and it will in thort fpace recover it lelt. Out of a Ma-

To correct Wine, and renew its force.

You shall repaire Wine corrupted if you rack it off into another Vessell that is first scraped and made very sweet, with the hot decoction of Bay leaves, Myrtils, garden Clary, Walnut tree leaves, or Orris root, Juniper berries, and so washt well when you will use it, it will tast very pleasantly, Mizald.

Corrupt stinking Wine is cured, if according to the bigness of the Vessel, you hang a bag in it of clean wheat, and then take it forth again. For this will draw all the corruption to it, and to the Wine will be made clear and fweet. Pictorim.

Anesher. You shall thus help naughty troubled Wine: Take some whites of Eggs, which when you have along time beaten them well, and taken away the froth, cast them into the wine veffel, and ftir the wine. The same is done it you string twelve Walnut kernels that are old, and rost them under the Embers, and whilst they are yet hot, you let them hangdown into the wine, untill the wines colour pleafeth you. Then you must pull them forth. This was a Secret of a Vintner.

You shall do it perfectly thus, Take a good quantity of Ciche Peason, and annoint them with oyl, rost them, bruise them, that they may grow thick like paste or pudding, cast half a pound of this into the wine that begins to grow four, and that tast will be amended within a naturall day. Mizald.

For the fourness of Wine.

Wine that is foure will be made fweet with a good quantity of fweet water, as Tarentinus faith, so it be close covered, and let them down into a Hogshead of wine, for after three daies if the water stink, the wine will grow sweet and good.

To cure foure Wine.

If wine be very foure, let wheat be boyld fo long in water untill it crack, then when it is cold, put it into the wine, and faut the Veffel, the way is to take the hundred part of wheat, Card.

A charme that Winemay not corrupt. If you write these words in the Vellel; Guffate, & videte, quam bonus of Dominu, Book V. Secrets in ordering and making Artificiall Wines. 93

the wine put into the Vessel shall never grow bad that year, Aphricanus.

41

1 220

中山

OD De

Thou

A title

TOT.

253

KWI

五部

Me

nyou

310

Til

13

蓝

That Wine may not grow four.

Leek feed cast into wine, will make that it shall never grow sourc, and it will make Vinegar return to be wine, that is, to leave off all its fournels. Petrus Crefcentius.

To make (harp Wine mild.

If you will make tharp wine mild and fweet, do thus : Take meal of Vetches four pound, and Wine four cups, sprinkle it over with newsweet wine boyld : then make little cakes, let them drink it in twenty four houres, then mingle them with that wine in the Vestel, and stop it up forty daies, and the wine will be pleasant and sweet, and well coloured and fented. Cato.

Against ill sented Wine.

Cooks are wont to cure Vinegar with Smallage, amongst their meats, and so do those that belong to wine Cellars cure ill sented wine, putting the Smallage in bags, Pliny.

How the ill fent of Wine may be corrected.

Thick and pure tyleshards must be heated at the fire and dried, then hung to a With must be tied in the Vessel, and shutting the Vessel, you must try after two daies whether the wine be amended : it not, do it again fo long as need is. It is no wonder if it do amend by the fmell, and by a double heat. Cato.

To try whether wine will keep long, Take half a Sawcer full of Barly-meal Cake, and poure into a new cup a pint of that wine you would make tryal of, fet it on the coales, let it boy I twice or thrice, then strain it, and add the barly meal to it, fer the wincin the open aire; the next day talt of it in the morning, if it talt as that doth in the Hoghead it will last; if it be fourish, it will not last. Caro.

Hang fat Pork from the cover of the Veffel; by its fatnels, and falt it will hinder it from separation and attenuation, for those are the causes that make Vinegar.

For corrupt Wine.

Corrupt clammy wine is reftored with Cows milk moderately falted. Some attempt to do it with Brimstone, quick Lime and Allum; and that these may not hurt him that drinks it, you must put in Orris roots, and Juniper berries by my advice. Lemnins.

To make Wine last all the year.

If you will have new wine all the year, put your new wine into a wine Veffel, and pitch over all the outlide: Let it down into a Fish pond, take it out after thirty daies, and you shall have new wine all the year. Cato.

That white wine may be made red.

You shall presently convert white wine into red without any hurt, if you cast into it the pouder of Honey baked and dried, and mingle them by pouring from Veffel to Vessel. The root of all the docks will do it with more ease, if the root be put in green or dry. Miz.

How you shall make Wine have divers sents and tasts.

Herbs, Seeds, or Spices, are to be infused in Aquavita four and twenty houres, so is their force to be drawn forth. Then mingle a little of this water with the wine you will drink. Anonymus.

That Wine may please your palate, both for tast and sent.

Let an Orange, or Lemmon fluck with Cloves hang in the wine Veffel, that it touch not the wine, it will never tast flat not musty. Alexins.

To make new troubled Wine foone become clear.

Small, broad, thin, light, thavings of the Beech tree that are chopt off with the Ax, or with the plainer to make the wood fmooth, must be put into the Vessel, and the wine will be clear in two daies. The fame.

That neither thunder nor lightning may hart Wine.

A plate of Iron with falt, or flints laid upon the covering of the Vessel, will keep off hurt of thunder and lightning. The fame.

Thas

## 94 Secrets in ordering and making Artificiall Wines. Book V.

That new Wine shall not boyl over.

Make a circle of Penniroyall or Origanum, and put it about the neck of the Veffell: or annoint the inward lips of the Veffel with Cows milk, this will keep in the new wine that boyls. The fame.

To make new Wine old.

Take Melilot one ounce, Licorish, Celticknard, of each three ounces, Aloes Hepatica two ounces, bruile them, and mingle them with wine. Euonymus.

That Winemay have no flower.

Strew into wine Ocnanth dried, or meal of Vetches, mingled with the wine; and when the flower and meal are funk to the bottome, pour off the wine into another Veffel. Alexins.

How to part water from Wine.

Make a Veffel of Ivy, pour in wine, and if there be any water in it, it will foon drop through. The Same.

How to part wine from water.

Put liquid Alum into a wine Veffel, then ftop the mouth of the Veffel with a Spunge anointed with oyl, and inclining the Veffel let it run forth, and only the water will come forth. The fame.

Otherwise.

Take the Selvage of the Loom, or a Cotton rag, and dip it into a wine Veffel, that it may hang out of the Veffel : that will seperate the water.

Whether Wine have any mater mingled with it.

Put wild Apples or Pears into the Vessel, if they swim a top, it is a sign the wine is pure, if they fink, that it is mingled with water: or a Greek cane, or ftraw, or some fuch thing annointed with oyl, if it be put down into the wine, and taken forth again, if any drops stick to it, there is water in it, Democritus Florentinus, and Socio.

Whether Wine be sophisticated with water.

If you would try whether there be water mingled with new wine; put in an Egg; if it presently finks down there is water, if not, it is pure wine. Moreover if you would break the force of wine boyling in the Veffel, caft a little piece of Cheefe into it, and you shall fee a wonder : But how this comes to pass, Georgine Valle Placemine will fhew you.

That water mingled with wine may swim upon the top of it.

The blood of a Dunghill Cock dried and poudted, and mingled with wine mixed with water, will make the water I wim above. From the relation of a certain Monk.

Topart Wine and water.

A bullrush dried and put into wine mingled with water, will draw all the water to it, and leave the wine: this is very handsome and profitable to try wines mingled with water. Mizald.

Tomake Wine exceeding pleasant.

Wine will please the palate, and have both a good sent and colour, if an Orange or Pomecitron be fluckfull with Cloves and hanged in the Cask, that it may not touch the wine, for lo it will never tast flat nor musty.

That Wine may have no ill taft.

Oyl poured upon wine or any liquor, will keep it from an ill favour, and that it shall not corrupt, for all aire that makes putrefaction and ill vapours are kept out by this covering that I wims above it. Pling.

Another.

If you want the convenience of the Sun in Summer time, you shall not let your wines in Caves under ground, that it grow not unfavoury, unless you put into it some fat falt Hogs flesh wrapt in linen, or something that is larger, as your Vestell is great or small. But still as you draw forth the wine, let the Hogs sless be put down lower to it, untill the Vessel be quite drawn out, so will the wine never lose its virtue, nor have any ill taft, Lemnisu.

To quench the beat of the Wine quickly. Theophrastus writes, that if you put a Pumex stone into a Vessel of boyling

# Book V. Secrets in ordering and making Artificiall Wines 95

wine, the heat of it will be prefently alaid.

宣言:

del.

CIEN

Mint.

and

Dig

dia

Whi.

で要と

L die

THE R

The state

ates.

E FOL

MUL,

mixed

ter to

AND

FEE

OU.

NO.

no i

CHO

TITLE

To coole Wine.

That wine in Summer may not grow foon unfavoury in the Cask, but may be well relished and keep cold; place your wine Vessels in an other Vessel that is full of cold water, then strew in some Salepeter to the water; for this will keep the wine so cold, that it will hardly be endured by your teeth. Lemnins, and Langins.

To make Greek wine.

Where the feild is far from the Sea, you shall make Greek wine thus: Poure nine score gallons of new wine into a brass Caldron, and put fire under, when the wine boyleth, take away the fire, and when that wine is cold, pour it into a Vessel large enough, and a part put into another Vessel big enough, one handfull of Salt into fair water, and make brine of it. When the brine is made, beat sweet Calamus in a mortar and pour it into it, one pint of it will make it sweet sented. After thirty daies make fast the Vessel. When the spring comes, pour it forth into lesser Vessels that hold nine Gallons apiece: let it stand two years in the Sun, then bring it into the house. This wine will be as good as Greek wine. M. Cato.

Amother.

If you will make Greek wine, take Sea water out of the deep Sea, when the wind is still, and the Sea calm, where no fresh water comes, seaventy daies before the vinrage, pour this Sea water into a Veffel, but do not fill it, let it be forty five gallons less then full : put on a cover, yet leave a vent hole : when thirty daies are past, poure it off gently and cleanly into another Vessel: leave the grounds to settle in the bot-tome; after twenty daies, poure it off again into another Vessel; and let it stand so untill the Vintage. When you would make Greek wine, leave the Grapes upon the Vine, let them be full ripe, and when it rains and they grow dry again, gather them, and lay them in the Sun two daies, or three in the open Aire, if it rain not. If it do raine, lay them upon Hurdles safely within dores, and if there be any rotten Grapes, take them away. Then take Sea water what may suffice, and into a Quinquagenary Vessel, pour Sea water, Q. X. then take away the husks from the Grapes that are mingled, and sweep them into the same Vessel, untill the Vessel be full, pressing them in with your hand, that they may drink in the Sea water, when the Vessel is full, cover it with a cover, and leave a vent hole; when three daies are over, take them out of the Vessel and press them with a wine Press, and keep that wine in good, dry, clean Cask. To make it well fented do thus, Take a Vessel well pitched, put a small fire into it, and persume it with a Posie of slowers, sweet Calamus and oyl of Dates, that the perfumers use, put them into the Vessel and cover it, that the smell be not gone before the wine be put in. Do this the day before you put in your wine, then quickly put the wine out of the press into Vessels, let it remain fifteen daies open before you ftop it up, that it may take ayr, then ftop it. After forty daies pour it into nine gallon Veffels, and put into every Veffel pint of new wine boyled thick. Do not fill the Vellels with wine above the lowest handles of the Vellel; let the Velfels in the Sun where there is no grafs, and cover them, that no rain come to them, and let them not stand above four daies in the Sun, after four daies, put it into a leather bag and stop it close in.

The flower and feed of garden Clary, out into a Veffel of wine whilst it works, will make it tast so pleasant as Greek or Malmsey wine. Prick up your ears Vintners, but I beleech you defraud no man with your wicked Sophistications and cheating mixtures. Mizild. de horto medico.

Boragewine good firms lancholy people, and pains of the heart, making men

Take Borrage flowers as many as you please, put them into new wine untill it be fully surified, when it is settled, pour it off into another Vessel gently, and keep it for your use. Amoldus villanevan.

# 96 Secrets in ordering and making Artificiall Wines. Book V.

Wine of winter-Cherries doth manifestly drive forth the stone of the kidnies, and the bladder, and opens the Vrine that is stops.

Take winter-Cherries bruifed as many as may ferve turn; firain wine hot or cold upon them fornetimes, untill it have gaind the taft and virtue of them, feafon it with Sugar or Honey. Arnoldus and Diofeorides.

Wine of Quinces, good for the stomach, sluxes of the Belly, and Liver, for diseases of the Kidnies, and difficulty of making water,

Is binds, &cc.

Take Quinces made clean and cut twelve pounds, put them into a pipe of new wine for thirty daies, then fet it up for use. Alexim.

Take inward rind of Cinnamon fix drams, Ginger half an ounce, Nutmegs two drams, Cloves, Grains of Paradice, of each one dram, Cardamus one fcruple, Pepper, fweet Calamus, Coriander prepared, of each one fcruple, the best wine eight pound, white Sugar what may serve turn. Pouder what must be poudred, then mingle them, and strain them according to art. This wine may be clarified with Almond milk, Euonymus.

Another for weakness of the stomach.

Take choice Cinnamon half an ounce, white Ginger two drams, Cloves, long Pepper, Nutmegs, of each two scruples, white Sugar half a pound. Bruise all these well, and mingle them with three measures of the best white wine, and strain them.

The same.

Another.

Take choice Cinnamon one ounce and half, Ginger half an ounce, Cloves two drams, Galanga one dram, Grains of Paradile one dram, red wine two measures; emingle and strain them according to art, with Almond milk. Alexim.

To make Hippocras an easie way.

Take choice Cinnamon two ounces, Ginger one ounce, Cubebs half an ounce, white Sugar one pound and half. Beat all these, and put them into a frail, Grapes are pressed with, and with that put in two measures of the best wine, leave them some time, and the wine will receive the virtues of them. The same.

Hippocras wine that is purgative against a quartan Ague, a Quotidian and a Bastard Tertian, it concests and prepares the Humours,

Take choice Cinnamon, Raylins of each half an ounce, Ginger, Zedoary, Cloves, Mastick of each one ounce, Polypod four drams, Epithymum fix drams, Efula one pound, Sugar what is sufficient: mingle them, and make it according to Art a drink to be kept for use. Euonymus.

Hippocrawine with Aqua vita.

Take choice Cinnamon two ounces, Ginger half an ounce, Grains of Paradile, long Pepper of each one dram and half, Cloves one dram, Nutmeg half a dram.

Bruifethem all, and put them into a full Veffel of Aqua vita, three or four times diffilled, kept close for four daies, and stir them twice or thrice every day, then strain it, and keep it. Put a little spoonfull of this into a measure of the best red wine, and add thereto one pound of Sugar: but if the wine be sweet, there needs no Sugar.

Take the best Galanga, Cloves, Ginger, Mace, of each one dram, leave all these well bruised grossely, in a woodden Vessell well stopt, insused in Aquazita twenty four hours; Then hang them in a linnen bag by a thred, into a Vessel that will hold a somme as they call it, or half a somme of clear wine for three daies, and you shall have wine so good and so strong as naturall Malmsey. The same.

Take Musk, Lignum Aloes, Cinnamon, Cardamus, Cloves, two drams of each, Sugar candy, half an ounce, bruile them a little, and hang them in a bag into the wine. The same.

Roman

## Book V. Secrets in ordering and making Artificiall Wines. 97

Take choice Cinnamon, Juyce of Licorish two drams, Annifeed one dram, Mace half a dram, Sugar three drams, bruise all these grossery, and hang them in the wine

in a bag.

With

Vibe

150

utl

OF

Ha.

Take Ginger, Galanga, of each half a pound, grains of Paradife, Cloves, of each three ounces, make them into gross pouder, then hang them in a bag in a middle fize Vessel of Wine. Euonymus.

Museadel.

Take Licorish, Polypod, Annileeds, of each two drams, Nutmegs three drams, Calamus one dram, bruile them lightly, and hang them in a bag in wine. The same.

Take Cinnamon, Ginger, Cloves, of each half a dram, beat them a little and mingle them, then put them up into a linnen bag, and hang them in a glass Veffell of Aquavira, very well ftopt for twelve houres, when you would use this, crush the bag into some great glass, that you will poure wine into, so that the sides of the cup be sprinkled with that Aromaticall liquor made with Aquavira, that the liquor presed out into the bottome, may wet the sides of the glass only, then pour in your wine, and it will tast like Rhenish wine.

Take Cinnamon three ounces, Cloves, Nutmegs, grains of Paradife, Cardamus, of each half an ounce, Zedoary fix drams, Cubebs, long Pepper, of each two ounces: bruife them groffely, and hang them in a bag in a measure of wine called commonly Oma. The Jame.

Take Cinnamon two ounces, Galanga, Ginger, of each one ounce, grains of Paradile, long Pepper, of each one dram, Cloves two drams, Honey one pound and half, Sugar two pound, white wine four measures; pouder what must be poudered, mingle them, and often strain them, clarifie it with whites of Eggs. The fame.

Take Cinnamon one ounce, Ginger, grains of Paradice, of each one dram and half, Cloves two drams, Coriander prepared three drams, white Sugar four ounces; bruife and strain them all, and keep them in a Vessel of Pewter. The same.

Take Cinnamon half an ounce, Cloves one dram, Ginger two ounces, white Sugar half a pound, Honey one ounce, white wine three measures: mingle them, and make Claret according to Art. The fame.

Take choice Cinnamon one ounce, Ginger half an ounce, Galanga, Cloves, grains of Paradice of each two drams, Saffron one dram, best Honey clarified two pound, the best wine two measures. Bruise them all, and strain them through a bag, whose upper part must be linnen, and the under part wollen; If a woman must drink this wine or some dainty person, put in Sugar for Honey. The same.

Take Cinnamon one ounce, Galanga fix drams, Efula, Turbith, pils of Hermodactils, of each half a dram, make pouder of them, and make Claret according to Are with Honey, Sugar and Wine. The same.

Sugard Wine is good for old, cold, weak perfons, and for those whose naturall beat and mossiure is decayed: for it nourishes and breeds good blood, and fils

Take Mallagowe Wine, whitest Sugar, of each four pound, boyl them at a gentle fire to a Syrup, then keep it for use; you must use it with two parts of water. The same.

Wine to keep the Belly loofe.

If you would make wine to keep your belly in good order, at the time of dreffing the Vines, when earth is taken from their roots, as much as you think you shall need of

98 Secrets in ordering and making Artificiall Wines. Book V.

of that Wine, so many Vines you must rid away earth from their roots, and mark them, cut their roots about, and cleanse them; Beat black Hellebour roots in a Mortar, lay those roots about the Vines and old dung and old ashes, and two parts of earth must be cast about that, and the roots of the Vines must be cast upon the earth. Make this wine by it self; I you would keep it untill it be old, keep it to move your belly, and do not mingle it with other wine. If you drink a cup of it mixed with water before Supper, it will purge without danger. M. Cato.

Another.

To make purging wine, when you dress the roots of your Vines, mark them with red marking stone, that you may not mix it with other wine. Lay three handfuls of black relebour about the roots, and cast earth upon them. When in the Vintage time you gather those Grapes, keep them by themselves, put a cup of it into a potion, it will move the belly, and purge the next day without danger. The same.

Cast a handfull of black Hellebour into nine gallons of new Wine, when it hath workt enough, take the Hellebour out of the wine, keep this to purge by stool.

If you cannot make water well, beat Juniper berries in a mortar, put one pound into two gallons of old wine; let it work in a brass or leaded Vessel, when it is cold, put it up into an earthen Vessel. Take a cup of it sasting in a morning and it will help. The same.

Wine against gripings, with a looseness of the belly.

If your belly gripe and be loose, and worms trouble you, take thirty sour Pomegranates and bruise them, put them into an earthen pot, with three gallons of sharp black wine, stop the Vessel, after thirty daies tap it and drink of it, drink tasting an Hemina of it, M. Cato.

A Pomegranate gathered when it is ripe, is good for bad concoction and stranguery; put three pound weight into nine gallons of old wine, and a clean Fennell root bruised one pound, stop the Vessel, and after thirty daies broch it, and drink of it. Cate.

Floure gentle steeped in water, will drink like wine, a pleasant deceit for those that have a Feaver. Mizaldus in horto medico.

Take three ounces of Oras Roots flice it into small flices, and put it into a gallon of white Wine, and let it stand close covered twenty four hours, when you serve it at the table, colour it with a little Red wine, and it shall not be known from reall respansive.

My Lord of Pembrokes Manuscript.

Take of well Coulord and new Honey, which hath a good tast soon mixt, and sharpe, which never came to the fire, being thick in substance; also Fountain water clear eight parts as much as the Honey: mingle well together over night, until it be strong enough to bear an Egge, as you try brine; the next day, boyl it till it bear a secure, then skim it, and to make it purge the better, put in the whites of three or four Eggs beaten with Rose water, then skim so long as any seum ariseth, then put in those Spices, Lignum Aloes two ounces, Nutmegs, Cinnamon, Cloves and Mase, of each half an ounce, let it boyl with those a cretty space, (some use to hang it in a Vessel when it it Tund,) then take it of, and let it stand till it be cold, the next day take a Canvas sheet, fold it double, and strain it into a Cowle, it will be a day before it all run out, when it is all run out, tun it, and let it stand a day to purge, then bury it, leaving a little vent hole. Be carefull in the boyling, for being slack boyld, it nourisheth but little, and doth much move and stir the belly, and breedeth wind, but being well boyld, it disperseth wind, nourisheth more, and will keep the longer.

# Book V. Secrets in ordering and making Artificiall Wines. 99

To make Metheglin. Take nine gallons of fair running water, pur it over the fire in a clean Veffel provide thefe Herbs following, of wild Carrets with his flower and root fix handfuls, of Bettony tour handfuls, Harts tongue, Penyroyall, Rotemary, Cinkfoyle, Scabi-ous, Polipodium of the Oake, leaves and root; Century of each one handfull; Fennell feed, Annifeed, of each four ounces; Cinnamon, Ginger, Nutmegs, Cloves, Mace, of each two ounces; Elecampane roots one ounce, Rayfins of the Sun; flond four pounds, Mugwort one pound, Licorish halt a pound; bruise the Herbs, and beat the Spices to pouder, put all into the nine gallons of water, and boy lit till it come to fix gallons, then draw out your Herbs and strain them into the fix gallons of water, put four gallons of Honey, and boyl it again to eight or nine gallons, then take it of, and let it thand till it be luke warme; with a little Barm of new Ale fet it a working, and fo let it continue for three daies space, and when it is well settled, take off the skim with a Skimmer. Tun it in a sweet Vessel sutable to the proportion of your Liquor, and let it stand close stopt seaven years, and the last year of the seaven it shall be the most wholefome.

That one that hath drank wine may not smell of it. Chew Arris root that comes from Africa, and the wine you drink shall not be

Imelt. Alexius.

OF V

this.

Putte

com

たりは in the

TWE

eVis.

IGED : . Th

Z hath

lethe

allon THE

1, 200

WIET.

like

XXII

なな PER Mais

rma

aday

はは

That oue may be foon made drunk and take no hurt.

Infuse Indian Lignum Aloes in wine, or boyl Mandrake pils in water untill it wax red, mingle that with wine. Alexim.

That a man may not be drunk with much wine.

Take the juyce of white Coleworts, juyce of foure Pomegranates, of each two ounces, Vinegar one ounce; let them boyl awhile at the fire, and make a Syrup: take one ounce of it before you drink, or eat five or feaven bitter Almonds failting. The lungs of a Goat or Sheep rofted and eaten, also Colewort feed, and Wormwood and naturall Salt, and the Amethyst carried about one, all these preserve a man from drunknels. The fame.

That one may drink, much at a fitting and not be drunk.

He that drinks wine shall not be drunk if he be crowned with boughs of ground Pine or Ivy tree; or if before Supper he eats four or five raw Colewort leaves. The after of a Swallows beck, or the after of burnt Swallows drank in wine with Myrrh, will not fuffer a man to be drunk for ever. The juyce of Peach leaves preffed forth, will do the fame, if you drink a fmall cup of it fasting. The fame. That drunkards may grow fober.

Vinegar drank in good quantity, recovers one that is drunk, and Coleworts eaten and Cakes and Junkets made with Honey. The fame.

That one may not perceive his drunkness.

He that shall eat a Goats lungs rosted, shall never find that he is drunk, let him drink for a wager. Africanus.

To make drunkards out of love with wine.

There are many, that when they have drank too much wine are dangeroufly hure by it, and fall into difeates and dye. Now if you would have them loath and abhor wine, and the fountain ealled Clitorius is far off : let three or four Eels be put into wine untill they dye, let a drunkard drink of this wine, and he will loath and hate wine ever after, nor will he ever drink of it again, but live loberly. Also Atheneus faith, that a Mullet strangled in Wine, if it be presently drank by any man, it will emasculate him: if by a woman, she will never conceive. The same.

Otherwise to make Drunkards loath Wine. Oblerve where the night-Owl makes her neit, take away her eggs, feeth them and give them a Child to eat, he will never love Wine. Jareas:

Voke her there shall be plenty of Wine. If an Houp fing before the Vine buds, it fignifies plenty of wine that year. Min.

# 100 Secrets in ordering and making Artificiall Wines. Book V.

That Ale may keep good all the year.

Ale made in Germany in March, will last good all the year. Cardan.

When Beer hath lost its naturall tast, or begins to decay, we use to recover it, and make it taste well, with well sented Ingredients, as Arris root, Vinegar, Nutmegs, Cloves, Bay berries, and dry Bay leaves, sweet Calamus, Origanum, Beets.

It is made thus, Heat your milk and pour in at night white wine Vinegar, or juyce of Oranges, or Verjuyce, but let it not boyl, then fowing a linnen cloth like a bag, and preffing forth that which is thick, it will at first come forth troubled, but straining it often, at last it will be clear like Fountain water. Cardan.

Let a fourth or fift part of the Vinegar plant.

Let a fourth or fift part of the Vinegar be made boyling hot by the fire, pour that into the rest, set it eight daies in the Sun, and it will be very sharp and good. Moreover old grassroots, Raysins, wild Pear tree leaves stamped, Madder root, Whey, burnt Acorns, burning Coles, the decoction of Ciche Peason, and burning Potsheards, all these cast into Vinegar, will make it sharp. Alexim.

You shall make Vinegar strong sorthwith, if you cast into it pieces of new barley bread, for in two daies it will be very strong. Mizald.

If you would presently turn Wine into Vinegar, cast into it Salt and Pepper, with sour leaven, mingle it, and it will do it presently. If you would do it sooner, quench a piece of Steel or Brick red hot once or twice in it, or Raddish roots, or unripe Services, Mulberries, Prunes, Medlars; the same is done by the fair flower of the Gilleflower. The same.

If you would make Vinegar by and by, cast a bruised Beet root on the Wine, and it will be Vinegar after three houres. Mizald.

That Vinegar may be made Wine,
That four Wine or Vinegar may be made Wine, you make do it with Leekseed,
or with Vine leaves and tendrels cast into it. Lemnius.

Vinegar may be made with Salt put in, or any four thing which will coruupt (I have tried Pepper) with huge gain, if you keep Pepper wort. It is done also by fire, for when it is scalding hot, it is set in the Sun, Vinegar being minged with it, and it will all grow four. Cardan.

Wild Pears are kept three daies on an heap, then they pour on a little water, and fo for thirty daies together. It may be so done afresh; for the sweet part being taken away, and by help of putteraction, Water thus turns into Vinegar. For Dates and old Figs, and Grapes, their sweeter juyce being pressed forth, and water poured unto them, the first and second pouring on makes wine, but the third makes most sharp Vinegar. Cardan.

Against thirst that comes of heat, hold in your mouth Crystall, Corall, Silver, Sugarcandy, or a flint stone that hath lain long in cold water. Also Licorish root new taken out of the earth and chewed, or drank with water, will soon quench your thirst. As watching quencheth thirst that comes of heat; so will sleep that thirst which comes from drought. Also it is good to rince your mouth with cold water. New Figs ease thirst, and cool heat. Pine kernels, Purcelane leaves put under the tongue, Strawberries, Pears, Prunes, Cherries, Quince kernels, Cucumber and Lettice seed, are excellent to quench thirst; bread wet with cold water, and taken with wine is very good for it. Wine is cooled by putting the Vessel and the Wine into cold water, and if tosted bread be steeped in cold Fountain water, and aker this is ta-

ken out let the wine be poured in, and so drank, the water being often changed. The Physicall virenes of di illed waters.

Distilled waters are either cold or hor, they either coole Blood, or Choler, or heat, fleagm, or melancholly.

To coole the blood overheated : Lettice, Purssane, Water-lillies, Violets, Sorrel, Succory, Fumitary, Endive.

Ta coole Choler in the Head : Nightshale, Lettice, Water-lillies, Poppies.

To coole the Breit : Violets, Poppies, Coltstoot.

1 200

I kel

II, a

thik

With the

DEST

WI

M.St.

pr (I

1, 200

rights.

dur-

THE

VICE,

a root TOT

will. e de

1100-

Rith e im

SEL to

To coole Choler in the Heart : Sorrel, Quinces, Water-lillies, Roles, Violets, bark of Walnuts.

To coule the Stomach: Quinces, flowers of Roles, Violets, Purslane, Nightshade, Sengreen or Housleck.

To coole the Liver : Endive, Succory, Nightshade, Purslane, Water-lillies.

To coole the Reins and Bladder : Endive, Water-cherries, Plantane, Water-lillies, Melons, Gourds, Citrouls Strawberries, Sengreen, Grafs Black-cherries.
To coole the Matrix: Endive, Lettice, Water-hillies, Purflane R. fes.

Waters that beat.

To best flesgm in the head: Betony, Sage, Marj rom, Cammomile, Fennell, Calaminth, Lillies of the Valley, Rolemary Flowers, Primrofes, Eyebright
To heat flesgm in the Breft Maidenhair, Betrony, Hylop, Horehouno, Carduus, Orris,

Scabions, Balme, Tobacco, Self-heal Comfrey.

To best fleagm in the Stomach: Wormwood, Fennell, Mints, Cinnamon, Mother of time, Marigolds,

To beat fleagus in the Heart : Cinnamon, Balme, Rolemary.

To heat fleagm in the Liver : Century the lefs, Wormwood, Origanum, Agrimony, Fennell.

To beat fleagmin the Spleen : Birthwort, Watercreffes, Wormwood, Calaminth, Gentian.

To bear fleagm in the Reins and Bladder : Rocket, Nettles, Saxifrage, Raddiff, Pellitory of the wall, Cinktoyl, Burnet, Elecampane.

To best fleagm in the Marie : Mugwort, Savin, Peniroyall, Calaminth, Lovage.

To beat Melancholly in the Head : Hops and Furnitary.

In the Bret : Balme, Carduns.

In the Heart: Burrage, Buglols, Balme, Rolemary, and all one of the all orgi

In the Liver: Cichory, Fuinitory, Hop, Afarabacco.

In the Spicen: Doddar, Hartstongues, Tamer's Time. Nicholae Culpep.

Of the matter of Generation. Every man that is naturally engendered is engendred of the Seed of the Father, and the Monttrue of the Mother, according to the opinion of all the Philosophers and Phylicians, who all joyntly agree that all the Seed as well of the Father, which is cal'd the Sperme, as that of the Mother, which is cal'd the Menstrue, goes into the sub-Stance of the Child. This being resolved, we are next to consider how these Seeds are received into the Woman. How the Woman when the is in the Act of General tion, yields her Menstrue at the very time when the Man doth his Seerme, so that these two Seeds concurring and meeting together in the Womans Matrix, begin both at once to mingle together, she is then laid to conceive, when these two Seeds are received into the Matrix, in such a place as is appointed by nature for such an Act; after the Seed so received, the Matrix of the Woman is closed as a Purse on every side, so that none of the Seed received can be shed or lost. Di Hirvey.

How to know whether a women bash Conceived.

The signs of Conception are many: For first, If presently after the Act she seeds her sell-cold and have painted by Thicke it is not seed to received. Second

her felt cold, and have pain in her Thighs, it is most certain she is conceived. Second ly, If the cast forth little or no Seed. Thir ily, If the Man in the Act feel his Yard fuckt with a kind of clo'ure in the Woman's Matrix. Fourthly, If the Woman still cover and define to couple, or if the find a tickling in the mouth of the Matrix; or if her complexion be altered, and the become more ruddy, if the hath strange longings, all which are infallible figure that the is with Child. Ambrofe Parey.

To be refolved in this if it be a male Child, the colour of her face is red, and she is very simble; if her Belly swell and wax round on the right side, if her milk be thick and well digested, lay Salt one the Nipple of her Brest, if it melt not, it is a sign of a male Child, and on the contrary a Female, if the sect a paine on her left side it is a Female, if she be heavy and pale, her milk black, her belly is long, her left side round, it is a semale; take a drop of her milk and drop it into her own water, if it sink it is a male, if it swim about it is a semale. Nich. Culpepper.

The first is shamefastness, blushing, lear, a chast and modest gate and speech, with small regard to apply themselves to man or mans affections; but some are so subtill as to performe all this. Secondly, Observe her trine if it be clear and bright like Gold colour. Those that have been defloured have their Urine troubled, as also the Sperm of the Man will be seen in the Urine, as also the call or fell which is within the Matrix, by coupling with a man is broken.

### of Venery. Chap. 8. 1 1 1 1

If any man defire to be a firong Souldier in the Camp of Venus; let him be armed with fuch meat; chiefly with Bulbas roots, for they all provoke Venery. SoR ocket taken plentifully, Onvons, Ciche Peafon, Parlifips, Annifeed, Coriander, Pine kernels; amongft these Saryrion moves exceedingly, and stands most toreible in this business, and provokes Womens defire. Nettles are belonging to Venus. It we had that Herb Theophrasium mentioneth, which an Indian brought, that not only they that eate of it, but those that couched it were very strong for Venery, that they could Act as often as they pleased, commonly they would performe twelve times that used it, but he said he had performed seavenry times, that at last his Seed came forth by drops of blood. Wherefore if you will provoke Venus with them all, or with some of them only, use this Receipt. Take Saturion toots, Pine Kernels, Anniseed, and Rocket seed, of each alike quantity, half so much of the land Crocodile, a little Musk, make them up with the choicest clarified Honcy. Nor must I omit Spatrows brains, Birds tongue wild Rocket, and the like; but if any man would provoke a woman let him sprinkle well upon his Glans with oyl, Musk or Civet, Castoreum or Cubebs, or any one of these, for these do quickly provoke. But that both of the Parties shall be thus delighted: beat long Pepper, Pellitory of Spain, Galanga, mingle a little of the pouder with honey and use that. The same.

It is wonderfull that the great toe of the right foot annointed with the affies of a Weefil with Honey or Oyl, will suffice abundantly for those that by reason of age or otherwise are almost dead in this matter, and are very unfit to serve Venu in her Wars any longer. The Authors of this were those ald searchers into Natures Secress, and many modern Weners confirm it.

If weamen do presently car Ganders stones, so soon as their terms are past, these will not only make them prone to Venery, but also to conceive; I have read the same of the Matrix of a Hare, Rhosis, Albert.

When a woman will not lye with her litusband, then let her Husband take fome of the Suet of a middle Goat, that is between the great and small Goats, and let him annoint his Yard with it, and then lye with her; she will love him and not ly afterwards with any other. Albertus.

That a momen may take delight with her Husband.

If a woman can find no pleasure with her Husband, let him take the marrow of a Wolfs left foot, and carry that with him, and she will love no man besides him-felf. The same.

DAY,

151

日本四世紀 日中日

117

det

gia.

却

Take Chestnuts steeped in Muskadel, then boyl them, being twenty in number; Satyrions ten, land Crocodils two, Pine Kernels, Pittaches, of each four ounces, Rocket feed two ounces, Cubebs one ounce, Cinnamon half an ounce, Sugar twelve ounces, make an Electuary. Out of a written Book. Another.

Take twenty Chestnuts boyld in the best wine, Pistaches, Pine Kernels cleanted, of each four ounces, Land Crocodiles two, Satyrions ten, choice Cinnamon half an ounce, Colewort feed feaven drams, Cubebs one ounce, whitest Sugar what is fusicient, make an Electuary, let the fick take the quantity of a Chestnut before or after Supper. Koscelliu.

Another. Take the whitest Sugar four ounces, Pistaches one ounce, Ginger two drams, long Pepper, Land Crocodiles, of each two drams, Pine Kernels cleanled five ounces, beat them very well, and mingle them to an Electuary.

Tables for the same. Take Cinnamon, Ginger, Pepper, Crefles feed, Rocket feed, Mustard feed, of each half a dram, Birds tongue, Onyon feed, Land Crocodile, of each one scruple, whitest Sugar diffolved in Role water, tour ounces, make Tables, Rofcellus.

To beget Boys or Girls. The decoction of the male Meren, (for the Herb is distinguished into male and female; for the juyce of it drank four daies from the first day after her purgations, makes the womb fit to conceive Boyes; but the female Mercury, the juyce of it drank after the same manner for so many daies gives her force to conceive Girls : if when the terms are past and the womb setled, the man and woman lye together as they should, and embrace one the other. Diosco. Pliny.

That women may bring forth handsome Sonsa Hence it was cunningly invented, how women may bear beautifull Sons. Empedocles faith, That when a woman conceivs, fight will confirm the Birth. For ofttimes women have fallen in love with Pictures and Images, and they have brought forth Children like unto them, and it is recorded that women have been delivered of black and hairy Children. And men fearthing for the cause, when they had much troubled their brains, they found pictures on the walls, that stood over against them; upon which the women cast their eyes when they were in the Act, and so the imagination begat Children like to them. Wherefore I think this ought to be kept in memory, being fo usuall, and which I suppose the best means, and which I have advised many to, that the Pictures of Cupid, Adonis, and Ganymede, should hang before them, or some solid forme of their Antecessours; then women in their Venery may imagine, that their mind may be carryed away with the strength of imagination, and being with Child may still contemplate of it, and the Child when it is born, will be like that they conceived in their minds when they were in the Act of Venery. I know it doth not profit very little. When I had often prescribed this, a woman heard me; and the prefently cauled a handsome Boy carved in Marble to be let before her eyes: she defired at her lying with her Husband to have such a Boy, and when she was great with child, the often thought of it; and after that the thewd me her Son like to that, and very fat, so pale, that it looks white as Marble. The truth was tried, and fome such practices are lawfull and successfull. But let no inordinate copulation be; or wicked postures; for by such practises odious to God and good men, ftrange monsters have been brought forth. The fame.

How well coloured and fair Children may be begotten. Great is the affection of the mind, or force of imagination, but greatest of all when it exceeds: what is it you may not do almost by it? Women when they are with Child, when they defire most eagerly, think of it vehemently, they change the spirits within, and in them are painted the forms of the things they thought of; those move the blood, whereu on in the fortest matter of the Child they imprint the form: thus do they print upon Children perpetuali feverall marks not to be blotted out,

unless they go out when their desire is begun otherwise; wherefore the Searchers out of things have found out with great pains, that Children are so marked as the mind is affected, and chiefly in principall actions, as in copulation, with Man when the Seed is ejected, and such like. Therefore there being in man a swiftness of thoughts, and nimbleness of mind, and variety of desire, this makes the marks different a therefore there are more differences in Men then in other living Creatures; for the rest having minds unmoveable, they have every one in its own kind a faculty given them to beget their like. I seed knew this force of the mind, and imagination as the Sacred Scriptures restify.

How to know whither a woman be chaft, and whether she ever lay with a Man or be with Child.

Antiquity affords us some experiments of this thing; and so doth this latter age, with things that are to be admired, and easie to be procured; that men feeing them, will fooner deny their fenfe, and contels themselves to be fools, than they will approve the truth; and those that are delighted with the defire of such a thing, go about to fearch for it, and greedily thirst to find it out. The Jet stone, (which is very frequent with us, wherewith we make Beads withall to pray, and to number and fumme up our Prayers,) some scrapings of it, or the stone beaten in a Mortar, and fitted, so being brought into very fine pouder, and then drank with wine or water; if the woman do make water prefently and cannot hold it, that is a fign she hath lost her Maiden-head; If the were never defloured, the will hold her water, and her retentive faculty is (frengthned by it. White Amber is as good as the former (or Crystall.) which they call Electrum, if being poudred, it be drank with wine fasting, and fo taken inwardly : for if the be polluted, this will make her make water. We may try it fooner by the fume of Purslane feed, or leaves of the great Burdock strewed upon burning coals, and put under her for a fume, and if that flye upward, it will discover the truth of the matter: let it be carried by a tunnel or some small instrument into the mouth of the Matrix, it will cause her to Urine presently, nor can she forbear if the have made use of a man. But if the be chast, the smoke will do nothing, but the will hold her water, which fignifies that the is a Maid. But if any man will make sport to make 2 Woman Urine, Agallochum called Xyloaloes cut into pieces and laid thick upon the live coles, or the pouder of it, untill it burn, and the woman do receive this smoke at her Secrets, it will performe this and much more, that it will be sport enought to behold. The same.

For those that are bewitched.

The Pye eaten will recover those that are bewitched, as some think: also the sume of a dead mans tooth, and if the whole body be annointed with a Crows gall, and oyl of Selama, that will do it also. Ex Cleopatra. Or if Quicksilver put into a Hazelnut shell, or quill, be stopt in with wax, and laid under the Pillow of one that is bewitched, or under the threshold of the dore that the man enters in by into his house or chamber. Wierm.

To care such as are bewitched.

If the man (faith Varignata, Nicolam, and Arnoldm,) pifs through his wedding Ring, he shall be freed from any Witchcrast that hinders him from the Act of Venery. And if the excrement of the beloved be put into his shoe that is in love with her, when he smels the stink, the love is broken off-for this is an odious thing. Taken out of Ovids first book of the Remedy of Love.

Phincus those drugs do like thy Table smell; My stomach loaths them as it would do Hell.

Some that blush or sear, are hindred from Venery, and suppose they are bewitched; many things are thought to cure this disease: flying Ants mixed with oyle of Elders, and the Mans Yard annointed therewith, and many other things spoken of before.

Cardanne.

That

Ti de

Sili

93

Ting.

於四年

Ray

and

un;

Cir

TANK THE

CED

wil

tra-

n fac

ning,

DWD

TOTAL ST

pag

r wil

ani

170

sbe-

d:a

That the Woman shall abborre Copulation; and the man shall defire it. If a red Buls pille be poudred and a crown weight be given the woman to drink in wine or broth, she will abhorre to lye with a man. Rhasis. But the same pouder mingled with fit Ingredients will provoke men that are dull and impotent, to Venerous Acts. Marcellin Empiricus.

To charm both Men and Women, and to make them impotent for Copulation. If you bind the prick of a Wolf in the name of the man or woman, this will make them fo unfit for Venery, that they will almost feem to be Eunuchs, untill the knot be untied. Albertus.

That a woman shall admit of no man but her Husband. Take the gall of a Goat, and the fat, and dry it, then pound them both, and warm them with pure oyl, and annoint the mans Yard with it by turns, as he lyeth with the woman, and the will never admit of any man but him. Albertus.

To take off the edge of the defire of Venery. You may thus blunt the defire of Venery, eat Rue and Camphir, for this will deffroy erection, and makes a man an Eunuch, it so stops and hinders Venus, and if you lay but the seed under you, or drink or eat it, it will dry. Wherefore the Matrons of Athens were wont to lay Rue leaves under them when they went to bed : to Lettice eaten often takes away the power of copulation; wherefore Pythagorus called it in which ail o the Poets intimate in words very dark. Callimachus writes, that Adonis when he had eaten Lettice was kild by a Bore, and Venus buried him under a Lettice; because Athenens faith Venus grows faint by such a Pothearb, and men are made imporent for her service by it. The Same.

That no man may affect unlawfull Venery. The heart of a male Quail carryed about by a man, and of a female by a woman, caufeth that no quarrels nor wranglings shall ever be betwixt them. And if a Turtles heart be carried in a Wolfsskin, he that carrieth it shall never be tempted to be in love, Mizald.

Whether a woman be chaft. To try whether a woman be chaft, you shall do thus. The Loadstone will try it, and discover it. I have a long time made diligent search, and I find that some experiments are true of frones, which I have often wondred and laught at. If the Loadfrom be put under the head of a wife whilft she sleeps, if she be chaft she will embrace her Husband, if nor, the will as it were with her hand thrust him out of the Chame ber. Albert.

That a woman cannot commit Adultery with any man. That a woman shall not be able to commit Adultery, cut off some of her hair, and east the pouder of them upon thy coffin; but first annoint the coffin with honey, and then ly with the woman, and when you would let her lofe, do the fame with your own hair. Albertus.

That whores may hardly be known from maids. The diffilled water of Sharewort, drank or put into the Matrix, wonderfully ftops the whites in Women, that by long injecting it, the corrupted can fearle be different from the chaft; this will be done fooner and more effectuall, if they fit over the decoction, as one told me that tried it. Mizaldus.

#### Of Sleep. Chap. 9m

Tables to provoke one to fleep. Take the rinds of Mandrake roots one handfull, Henbane feed one ounce, white and red Poppy feed, of each one ounce. Bruife all thefe and boyl them in two pound of Fountain water, untill a third part be confumed, then frain it, and adde the whitest Sugar one pound, and when they are again boyl'd almost to the perfect consistence of Sugar, adde Nutmegs, Galla Moschata, Lignum Aloes of each two drams, barks of Mandrake, seed of Henbane, seeds of red and white Poppy, of each three drams, Opium two drams, make tables according to Art. Rescellus.

Another

Another.

Another more violent to make one fleep, is made thus. Take the best Opium with equall weight of nux Metella, feed of black Henbane, distolve them in the juyce of Lettice, but it will be better to let them in the water covered with Horle dung : then put them into Stils, and when they begin to grow hot, draw forth the water, keep the feces and dry them under hot embers, that you may beat them into fine pouder, and fife them; after this, with fresh water make a strong lee, when all the vapour is fled by force of the fire, mingle this with the water kept before, and fit it for to be eaten or drank; not in the fame, but a smaller quantity; than was spoken for that is too much to take, and give it to no body, unless there be great need. Or elfe mingle Mandrake water, Opium, and Poppy feed, with Garlick and things that work upon the head; the quantity of a bean is enough to take.

Sleep to provoke. Take Rose water a spoonfull, and as much Vinegar, ovl of Roses two spoonfuls, half a handfull of Rose leaves made into pouder, mix all together, and take crumbs of leavened bread made of wheat, and make a Plaister thereof, and lay it upon the fore-

head and Temples, Probatum. Dr. Mathias.

An Apple to make one fleep, is made of all these; Opium, Mandrake, juyce of Hemlock, Henbane feed, Wine lees, to which must be added Musk, that by the fent it may provoke him that finels unto it. Make a Ball as big as a man may grasp in his hand, by ottensmelling to this, it will cause him to shut his eyes and fall affeep: but it is but in vain to try to do this at certain hours; for mens temperaments vary : but he that shall go about it, may try it by such means, and all in vain. To hinder the danger of these things there is help enough: if you annoint their Temples, Nose, and Testicles with distilled Vinegar, or other things dissolved in Vinegar, that may drive away fleep and awaken the parties. The fame. To fee strange things in your fleep.

It is faid that if one going to fleep annoint his Temples with the blood of the Houp,

he shall fee wonders in his sleep, which is not contrary to reason, Card.

To make one fleep. To cause sleep by Physicall meanes, green Henbane, put under ones Pillow will do it. The juyce of the greater Bul-rush drank; Oyl, wherein the left eye of a Creature called Eritrus boyled, is dropt into ones ear; or letting a Leech to the corners of the Eyes, and taking it off again, and dropping in of Opium, it is very potent. But it is more potent if you make a Suppository of it, but take it out when the party begins to fleep. Or annoint the foles of the feet with the fat of a Dormoufe, or with an Unguent made with water and Vinegar and Potters earth. It is reported also, which is hardly to be believed, that if the Teeth be annointed with the filth comes out of a Dogs ear, it will make a man fleep profoundly. Card.

A means to make a man steep sweetly.

That we may have as great soy sleeping as waking, when we sup before we sleep, if we cat moderately horse tongue, Balme and the like, when we sleep we shall have many fine conceits in Dreams, that a man could not desire to be more merry, and to see more pleasing things, as fields, gardens, trees, flowers, we shall see shady dark places covered with green grals, and caffing our eyes about, the whole world fprings up, and looks very pleafantly. Or if we annoint our Temples with the juyce of Smallage, or of young Poplar buds, or of common Acorus, or of garden nightshade, or of Stramonium, or of wolfs bane, and chiefly when that they are green; or else the neck and throat through which the sleepy veins ascend; and the places where the veins are most apparent in our hand and feet. It is good also to annoint the Liver; for the blood evaporating upward, comes to the Liver from the Stomach, from the Liver to the Heart, so are these spirits that burn here and there died, and reprefent Images to us in our fleep of the fame colour. The fame. To canse troublesome Dreams by a fume.

Make pouder of the heilbone of a man newly killed, and adde a little Loadstone

th

置是

not

mh

take

toe of

AND

cr de 5,201

How,

dilla

canic

10/20

BERE

n Ua-

mm B

std1

Hart 100

red

citita .

mgbi-

en; Œ

With he La , 竹坊 days to it. Being thus mingled, if you cast this pouder on the burning coales, that in many places the smoke may sly up to the roof of the house, those that are a sleep, will think they fee many strange fights of spirits and fearfull and terrible apparitions. Likewife if you lay upon the head of one that fleeps the heart of an Ape that was newly taken from him whillt he lived, he shall fee nothing but wild Beatts in hissleep, and think that he is torn by them, that he will be exceedingly frighted and tormented; the Onyx stone will do as much, bound about ones neck. The fame.

There is a Berry brought out of Egypt cald Coffe, which being dried and beaten to pouder, and boyled in fair water, is much used among the Turks to make them

lively and prevent fleep, which of late is become of great use in England. To drive away ill Dreams.

They fay that the teeth of a stoned-horse hanged about ones neck, or his left arm. will cute fuch as use to be trighted with ill dreams. Cardan.

That one may not fleep. Pfellus the Platonift faith, that Dogs, Crows, and Cocks, will keep a man waking, fo will the Nightingale and the Reremoule, and the Owl; and of these, especially the head, heart and eyes; wherefore fome report, that if any man carry a Crowsheart or a Bats about him, he shall not sleep untill he lay it aside. The same doth the dry head of a Reremoule bound upon the right arm of one that is waking, for this is to be laid upon one that is affect, they fay he will not awake unless you take it from him. Alb.

The eye of a Swallow laid in a mans bed, will not fuffer him to fleep if you let it lye there. Albertus.

#### Of Exercife. Chap, 10.

If you will torment men with long leaping here and there, or make themery, laugh, fing, and fall into such passions, you may easily do it, and the causes are most naturall. But to pass by the reason of it, I shall say a few things. First, There is a kind of Spider called Phalangium, which from Tarenium about Apulia, is called Tarentula, the whole Countrey is fo tall of them, that very few cleape them : their biting is more fierce than that of Wasps sting, and those that are wounded by them, are diverfly affected : for some sing continually, cry, rave : but they all dance well. The Mowers whilst they are at their labour, suspecting nothing, are offtimes cruelly wounded, and by mulicall tunes they are refreshed and recovered. For these Spiders lye in fome holes, and hide themselves in the Corn, and fo men may easily catch them: with the leaves of reeds in your mouth counterfeit a hilling, that you may imitate the found of a Fly; when the Spider hears that, he comes prefently forth, for he often feeds on flyes, as our Spiders do, that in the largest houses spin webs, and spread them to catch flyes. Take this Spider and make pouder of him, mingle as much of this pouder as you can take with two fingers, with other things, that it may not hurt the Patients for it is poyson, when he hath taken it, he will fall to leaping and dancing, especially if he have any mulick. The James

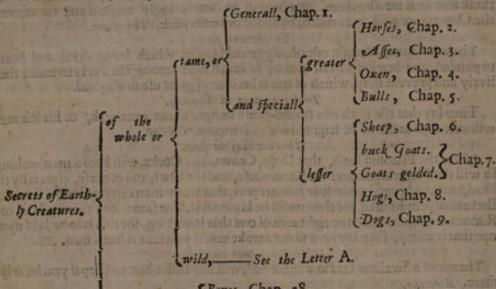
That men may not tire upon a fourney. They that Travel, if they carry Mugwort with them, will never tire : and Mugwort beaten with Hogs-greate and laid on, cures the pains and wearinels of the fect. Petrus Bayrus.

Lier, Chap, 14.

BOOK. VI.

#### BOOK. VI.

Of the Secrets of Earthly Creatures.



of the parts, or Horns, Chap. 28.
Hair.

Generall, Chap.to. Bucks, Chap, Hamme Bores, Chap. 12. of one kind : as of Hares, Chap. 13. Foxes, Chap. 14. A, of wild in Wolves, Chap. 15. or mixed, Chap. 16. Mice, Chap. 17. orth for he oi-Moles, Chap. 18,00 110 b webs, and forcad or in Speciall Weefili, Chap. 19. Ants, Chap. 20, 10th Raisuab ben rained on Hal live Scorpions , Chap. 21. Wighlier, Chap. 22, with the will nevertice : and Mugahis bun shor Flear, Chap. 23. Lice , Chap. 24. Snails, Chap. 25. that creeps, and Caterpillars, Chap. 26. (Serpents, Chap. 27.

AV ROOS

Of tame Creatures that live upon the Earth in Generall. Chap. 1.

That Beafts may return home.

If you will have Beafts return to the houle, annoint the Beafts forehead with Tallow and Sea Onyon, and he will go home. Albert.

Aristosle in his Book of living Creatures, faith that if one put common Wax upon the horns of the Cow that hath a Call, the will follow him whetherfoever he will, without any labour.

That Beafte may eat no more.

If you annoint the tongue of a Beaft with any Tallow, that Beaft cannot tafte, nor will it eat any meat, but will first starve and dry, unless you rub it off with Salt and Vinegar. Also if a Wolfs tail, skin, or head, be hanged over the manger, Beafts will not feed

Not only four footed Beafts, but all living Creatures are foon made very fat after three daies fafting, with meat that they like best; fome judg that Henbane and Tortois shesh is best agreeing to Horses, as also Barley and the like grain. For Sheep, salt with their meat, for that will make them drink, whereby they will be most fatted. The cause is, that hunger in these Creatures consumes all their superfluous moy-flure, and increaseth their heat, and makes them feed stoutly for many daies. Moreover Beasts do not cat naturally but when they are hungry. Card.

Such vertue there is in the Lees of oyle and fuch profit, that it will preferve Oxen from difeafes, and make them more hungry after meat, being mingled by degrees with their meat and drink every fourth and fifth day, so outwardly with Wine Lees and Creme of Lupius mingled and laid on upon Cattle and Sheep; it will preserve both their hair and their wooll, and their skin from Scabs and Ticks; also it augmenteth the wooll, but it is best to wash the Sheep before hand with Salt-water. Card.

An excellent remedy against all Diseases of Cattle is made thus: Take Myrrh, male Frankinsence, Pomegranate shels beaten, of each one pound, Pepper three ounces, Saffron three ounces, Acacia, May, Butter, burnt Rosin, Roman Wormwood, wild Betony in pouder, ordinary Betony, Century, Sagapenum, Saxistage, Dog-sennell, of each half a pound. Pouder all these well, and sift them, and mingle them with three pints of the best Honey, and boyl them gently a little upon a cole fire. Asterwards keep it in a tin or glass Vessel, then when you have occasion, give to your Cattle that have a Feaver or are diseased, every day a great spoonfull of this consection with an hemina of warm water, and Oyl-lees three ounces; But if they be sick without a Feaver, or also begin to recover, give this consection with Wine and Oyl, for many daies, until the Beast be well. This is an approved and most foreible Potion. Publim Vegetius.

To make Cattle stale.

If you touch the privities of Cattle with bruised Garlick, they will presently stale, though they could not before, and will not be troubled at all. Mizald.

If a Beast pils blood he shall be cured thus. Draw blood from the upper vein, also bruise the root of the Herb Dassodil, and pour it down his throat with two small cups of sweet white wine which will seem clammy. It is good also to boyl wheat meal with Hogsgrease, and the pouder of the Pomegranate shell, and to pour down his throat, not thick, but thin drinks; and you must not only not run a Horse, but you must also abstain from walking him; that the vein that is broken may joyn again. For it happens that by running or leaping, veins may be broken; wherefore they must be cured with astringent things, and such as glew together; you may lay thus healing Plaister upon his rains. Take Onyons, live Snails beaten, sive heads of Garlick, one pound of Pimpernell, bruise them all together, and lay it upon the reins of

his back. This is good also for them that are sway-backt. But for those that bleed at their Nostrils, you shall soment their heads with the coldest water and Vinegar mingled together, adding a little falt thereto, after this lay the strengthening Plaister on, upon the head and temples, and by this Medicament the Veins being bound up, the flux of blood will be ftopt. Publim Vegetins.

For a scouring of Blood in Cattle. If a Beaft be troubled with a Dylentery, the Arfgut is reverfed, to cure this, it must be cut round about very prudently, least the gut that is before it should break. The Intestine falls out it it be touched thereby, and so the Beast will lose its life; for it will never return back again but will remain to, and the Arlegut will be above it. The fame.

If a Beaft vomit Blood.

If a Beaft vomit blood, you must poure down its throat the juyce of Broom, with wine, and the juyce of Leeks mingled with lee and oyl. Sometimes Beafts vomit blood, and they are helped with this potion. Boyl in a new pot with water, Romane Wormwood, and Spicknard of each alike quantity, and give it them to drink. The fame.

For a Cough of Cattle.

Also you may cure any dangerous cough in Cattle, with an hemina of sweet Wine, and three ounces of oyl and a raw Egge, if for three daies together you pour it down the Bealts throat, with bean flower, and two spoonfuls of Fenegrick added to it. Therefore a pint and half of Beans parched, is excellent good for Cattle that cough, if you boyl those beans without Salt, Goats fuet three ounces, Butter three ounces, three heads of Garlick cleanfed, and all boyled with barley and water made to a Ptifan, you must give this three daies together. The fame.

For Warts upon Cattle, a remedy of the Same Authors.

Sometimes Warts breed on many parts of the body of Cattle, and deforme them; you shall cure them thus. The Warts must be tied with a fine thred, then a Potentiall Cauftick must be laid upon, and they will fall away of themselves. Some cut them off with a knife, and cure them with a burning iron lightly touching them.

For Convulsions of Cattle.

It is certain that Cattle will have Convulsion fits, and these are the tokens of it. They will fall fuddenly, and their joynts are extended, they pant all the body over, and fometimes they fome at mouth. You shall give them meat strew'd over with water, Vinegar, and Saltpeter, also the pouder of wild Cucumber, and poudred Saltpeter must be given them to purge them for seaven daies together. Also you must mingle half a small cup of bloud of the Sea Tortois, with as much Vinegar, and as much Wine, with a little Masterwort, and this you must pour into their Nostrils. It is held to be good to rub their backs very often with Oyle and Vinegar and Saltpeter. The fame,

For the Gout in Cattle.

The Gowt also sometimes troubleth Cattle, and Mens diseases befall Beasts. These are the tokens of it. The Beast can neither stand nor go, but if you force it, it will go lame, and ofttimes fall down: The excrements are indigefted, Barley comes forth whole, for the Beaft is in such pain he cannot digeft his meat, and therefore looks pitifully, and his whole body is hot, and the Veins stick forth; Nature will fall down, dung will cleave to his feet, because they are so hot, as it happens with those that are furbated : It is best for him not to let him lye down, but to walk him gently, and to rub him in a dry place untill he (weat, with rubbing of many hands to make him to fweat the more : let him bloud on the upper Veins of his head, but not much, the next day draw bloud from his hinder legs above the Ankles or Paftern bone; on the third day from the upper part of his legs, or from those parts that are next under the places where the pain lyeth. Remember that you must alwaies draw but a little bloud. Give him hot water to drink, into which cast the pouder of Saltpeter and Wheat meal, also fine pouder of Frankinsence; you shall pour in a whole Sawcerfull steeped in Wine, and on the third day pour in small cups of this into his Nostrils : you

To.

shall also boyl Beets and pour in three small cups of the water of them, you shall exercise him every day, and shall purge his belly also with the same, that the naughry humour may be purged forth that would descend into his Veins. You shall give him this Potion. You shall insuse a Sawcerfull of Thime in old sweet wine, and pour into his Nostrils a small cup of that, you shall give him green Hay, and if you cannot get that, then give him dry Hay befprinkled with Saltpeter. If nothing will do him good, then geld him, and that will cure him. For geldings are seldome troubled with the Gowt. The same.

For Scropbulous swellings of Cattle.

Ofttimes hard kernels, or swellings under the ears, or scrophulous humours trouble Cattle in their throats, and make all their Jaws swell: For they are under the head, and they are choaked thereby, as it were with the strangullian of the part. You must first cure this with hot Fomentation, and Poultesses of Barly meal, and three ounces of Rosin boyled in strong Wine: and when the swelling is ripe, you must open it with a sharp knife, and let out all the matter contained in it, and you must put in Tents dipt in Vinegar, Oyl, and Salt: and the daies following you must wisely cure the part, with Vulnerary means, and fit medicaments; the wound must be kept open untill the well: for in these parts if you heal it up too sast, it will soon turn to a Fistula, and if it should do so, it may be healed with paper, and a Tent or an injection and purgation. The same.

For Cattle hewitebed, the same Author.

A Beaft bewitched is fad, goeth flowly, waxeth lean, and if you help him not, he will fall into tome difeate. Wherefore you shall pour into his Nostrils some Bitumen with a little Brimstone, with Bay-berries and water. Moreover you shall take Coriander herb or feed, with Brimstone, Rosin, and Wax, and make a sume upon the coles about him, and shall sprinkle him all over with hot water. That sumigation

cures all four footed Beaft.

You shall cure all worms of the belly and such Vermine, thus. If you give with a horn for three daies together an hemina of the ashes of the dry wood of the Olive tree, with an hemina of new Oyl. There as also another confection, but it is that which ofttimes frees a deadly passion. Take Wormseed, Roman Wormwood, raw Lupius, Herb Century, fine meal of Vetches, and Raddish seed two ounces, adde to the Hartshorn half an ounce, of Smallage one ounce, Pomie Sinoper three pieces, Opoponax half an ounce, Tent Wine or some other sharp Wine two Sextarii, green Oyl one Sextary; warm these bloud warm, and pour them with a horn down the Horses throat, sloping the horn that it may the more easily run down. The next day set the same Beast sloping, and give him a Clyster of the former Potion a full Sextarius; that an injection being given both waies each other day, may insuse that which is said to coagulate, whereby those noxious Vermine are restrained, and the cavity being peirced through, those venemous Creatures dye with torments.

Sometimes also Scabs and Tetters of living Creatures.

Sometimes also Scabs and Tetters breed upon the joynts or knees, between the Nerves in places where the joyning is, and there is a wound made like to Chars called Ragades, and it is not easily cured, but by vitriolick and aftringent things, not without ligature, and sometimes by cauterizing. Also there must be laid on convenient Plaisters. The same.

If their hair grow flowly, you shall burn alive Snaile upon Vine branches, and shall put the Ashes of it into a new pot, adding three ounces of raw Alum, Stags marrow what may suffice, and insusing this in Wine, you shall boyl them, and lay it on for many daies, this is supposted to call forth hair suddenly. Ashes of burnt Beaus, or raw Lupius, or of burnt Fig leaves mingled with fat, is to be applyed daily. But if the hairs sail, for no cause precedent, you shall bruise them together, Raysins and Spicknard, and boyl them in Vinegar, and you shall lay this remedy hot upon the body that wants hair. Pub. Vegerim.

If you would make white hairs black: Take Vitriol seaven scruples, Rose Laurel juyce sour scruples, Goats Suct, what is sufficient to temper with it, use this. The Same.

To make black bairs white, a Receipt of the fame Author.

Again if you would make black hairs white: Take one pound of wild Cucumber roots, Nitre twelve scruples, pouder them, add an hemina of Honey, mingle them and use them. The fame.

Of Secrets of living Creatures in Speciall.

Of Secrets of Horfes. Chap. 2.

That a ferce Horse may grow tame.

A reftive Horfe, or any other Creature, will be eafily made gentle in the Stable and iron shooes made by the Smith, if you put a small round Pibble stone into each of his Ears, and then take the Ear in your hand, and bind it, and hold it fo : for thus he will frand and not ffir, and will be quiet, were he never fo fierce before. If you thrust into each Eare one stone, he will stand as quiet as a sheep. I had this Secret from a Horle-courfer, who was Groom to the King of Navarre. Miz.

That Horses may not tire in running. The great teeth of Wolves bound about Horles, are thought to make them fo nim-

ble, that they will never be weary with running. Pling.

For a Horse that Neighs too much. If a Horse Neigh too much, bind upon his head a stone with a hole in it, so he will leave off. I add, that a Horse that easts his ears backwards, is often times deaf loaled, and he will never Neigh in the company of other Horles. Simoneta Cardinall is the Antbor.

Whether a Horfe will learn to Amble.

The French men know well how to make a Horfe to Amble : for being that a Horfe moveth three severall wayes, either by bending the last joynt of his foot or his knee: The Italians binding the two right side seet together, and the two lest, cause the Horse to move them both together, the shoulder blade being moved also, but especially the knee is bended and moved. The Ereneb bind the last joynt of every soot with a straight band; whereby the Horse is constrained to move his knees. Hence you see, that to make a Horle to Amble, you must cause him to bend his knees. For if he move his lowest joynts only, though he do move both the right joynts together, and both the left, yet this is no Ambling. Wherefore there are two kinds of Ambling of Horses. The Italian and the French way. The easier way of Ambling is that which is performed by the higher joynt; for by the mean diffance there, much ground is past. over. Mules then go cafily, moving their lower pafforn, and that kind of motion is called Traina. But when an Ambler moves his knee, the knee bends more than the foot, because it fals higher when he sets it down. Card.

That Horses may be soled with divers colours.

Horses will be bred of divers colours, if only when the Horse backs the Marc, you cover the Marc with a cloth of divers colours: for what colours the Horse then beholds, fuch colours will the Colt certainly have. Absyrtus, you may try the same in Dogs and other Creatures.

To breed Horses and Cattle of Sundry colours.

He that would breed Horfes or Cattle of divers colours, must do that, which I defire all to follow who defire to do the same. Jacob took twigs, and Poplar and Almond boughs, and such as would easily be pilled from their Rinds, and he pilled them here and there, leaving some bark between, and he cut them round, and winding like Snakes with white and black colour diffinguished, and these rods he laid in the fields, and watring troughs, where the fleep folds were; and when they coupled and looked about, they faw thefe rods, and so the young Lambs were of divers colours, and their white fleeces were spotted with black spots here and there, which

was not displeasing to be seen, so it sell out with all Cattle that brings Wooll, and perhaps with all the rest. This will prevaile for Horles, and those that keep them do most observe this way, when they are admitted to back the Mares, and when they have backed them, they hang the Stables where the Mares were backed with cloathes that are of diverse colours, and from hence it comes, that Horses are made of so many colours, as dapple grays, bright bays, and many other colours. The same.

The head of a Colt often washed with cold water will grow small and fine; but if you wash his neck with hot water, that will make it gross, and the hairs will grow, and

the main will be much fairer. Cardan.

If a Horse will not be back't, or will not go into a Ship, or is astraid of wheels, or any thing else, and this happens most to Geidings, and seastful Horses, and such as have ill Eyes; wherefore hang a little stone by a thred, and let it down into the Horses Ear. If this do no good, because it troubles their senses, bind up their eyes with a filler; this hath often done good, also beat his legs with a wand, if the Horse run backwards or rifeth. Also fire put under his tail, or an iron goad, that when he runs back may prick and hurt him; I his is excellent; also if he lye down upon the ground let there be thorns under his belly, but if he be but stubborn a little and not restive, he must be whipt a little, and brought near to the thing he sears, but if you force him too much, he will often grow worse, supposing greater danger. The same.

That Harfes may fall down as if they were dead, and then rife more chearfull.

A Scrpents tongue inclosed in Virgins wax and put into the left car of any Horse, will make him tall to the ground as though he were dead; and being taken out again, will not only make him rile, but it makes him far more lively. An English main related this Story.

That Horses may grow sierce.

It is certain that Benjamin being put into a Horses nose will make him surious, so also it will do a man: but our Benjamin is too weak, or any other; for Benjamin was formerly an herb. Card.

That Horses or Sheep may not pass over.

If you make a cord of a Wolfs gut, and bury that under the sand or ground, no sheep will go over that place, though you drive them with a cudgell. Alb.

That Horses may not be troubled with Flies.

If any one annoint the hair of his Horse with the juyce of Gourd leaves, or of any other Creature, in the heat of Summer; it is a wonder, that no Flys will trouble them. Cardan.

Since that Horses are so usefull, it sals out ofttimes to great loss upon a Mans journey, that a Horse casts his shoe, or is prickt with a nail in his soot. Some carry with them shoes and Hammer, which serveth also for Pincers. But if the Horse do halt by reason of a nail, that must be pulled forth, and the Hoof being moderately pared hollow that the Cornet be not hurt, nor yet any filth lychid in it, cleanse the Ulcer, and poure in melted Brimstone: make the shoe hollow to the outside, that it may not press upon the part that was hurt; annoint all the rest of the Hoof with fat and wax, and the holes of the Hoof that are not filled with nails. Thus did I quickly cure an Ambling Horse of the Arch-Bishop of Amulthon, which he gave to me treely, when he was exceeding lame. Card.

Let the iron shoe be presently pulled off, and the place pricked be presently washed with wine. When you have done this, take the middle skin of Elder, and lay this upon the part affected, then drop upon the skin some drops of Tallow, with a hot iron, and set on the iron shoe handsomely, and ride whether you please. Out of a Manuscript.

Take Roman Vitriol half an ounce, Salt Armoniac two drams, Ginger beaten half

出光品

以 田 五

m

CU

da

m

日記

世出

an ounce, Camphir two drams, Cloves half an ounce, Role water half an ounce, Fennel water half an ounce, best wine two drams, mingle them, and set them in a glass in the Sun for thirty dayes. When you will use this, take a fine feather and dip it in this water, and drop it into the Horles eyes, and take care that the Horle do not rub his eyes. Out of a written Book.

For a Horses Cough.

Steep five Eggs at night in the sharpest Vinegar that is strongest, and in the morning when you find the outward shell confumed, take out the Horfes tongue out of his mouth, and thrust this Egg down his throat, and this will cure his cold. Out of the Secrets of a Horfe Farrier.

For Scabs of Hunfes, a certain Remedy.

Take Hogs greafe half a pound, Oyl of Bays one ounce and half, Quickfilver two ounces, white Hellebour one ounce, mingle all well. Out of a written Book.

For the Haw in the Eye, a Remedy fit for Men and Horfes. Take a Hen Egge, and poure forth all the white, and add to the yelk fo much Salt as the white of the Egge to fill up the place, mingle them well, then take a piece of Elder wood that is green, and as big as a Mans arm, and half an Ell long, and make a hole in it long waies, of a fufficient length, that the yelk with the Salt may be put into it. When the yelk is put in, floovery well the faid hole, with a pin made of the same wood, that it may not exhale in any case. Put it into the fire, and burn it to a cole; or untill the mixture put into it, fall away from the cole : take this and keep it. When you use it, make very fine pouder of it, and through a quill, blow it into the eye as much as a Peafe at a time. Out of a Manuferist.

For Horses that can hardly stale.

If Horles can hardly pils, beat their bodies gently all over with Boughs of Elder with their leaves, and then apply the leaves to their neck, head, and whole body. For this small tree is best for impediments in Cattle. Simoneta Cardinal.

Another.

Some apply about the Horses bladder an Onyon, with the pill taken off: others take Smallage seed beaten, with two heminas of Wine, or Onyon feed; the same way with Wine, or Pigeons dung, or Poly leaves or Lovage bark dried, or a dram of Saltpeter, with a Garlick head bruiled and infuled with Wine. Some use nothing but black Wine. Abfyrt.

If Horses pils bloud, Bean meal cleansed and baked, must be mingled with Stags greafe, and with a little wine must for three daies together be poured down their throat. Or give the Horse with a horn an hemina of Goats milk, fine Wheat meal half an hemina, ten Eggs, and three small cups of oyl, all well mingled together. The Same.

For difeases of the Lungs.

Difeases that consist in the Lungs, are cured by harp Vinegar warm'd and pour'd down, or Mans Urine, with fifteen drams of Hogs greafe melted : but take heed you give them not Womens Urine that hath her courles upon her. The fame.

For a Horfes Cough.

When the Cough first comes, you must give him Barley and Bean meal mingled together in his drink : and if the Cough groweth stronger, give him two small cups of Honey, as much liquid Pitch, as much Oyl, Butter twenty four drams; warm all and mix old Hogs greafe a pretty quantity with it, and so pour it down his throat. If this will not do it, pound Horehound with Oyl and Salt : mingle them with wine and give it down. Others use the juyce of Horehound, Oyle, and the root of the wild Rue. Others put in Frankinsence, or use it with Oyl. The

For (hortwinded Horfes. .

Agarick and Fenegrick are excellent for the most short winded Horses . So I cured my own Horfe. The Ancients commend the bloud of a Puppy that is not above ten daies old given in drink. Allo a flrong remedy is made of bitter Nuts, water and Honey, and the roots of wild Cucumber, made into finall Cakes, and exhibited with Honey. Allo the root of the herb Cotton weed thrust into the brest, or into the roots of the Ears or Nostrils, or an Errhin made of the root of the Mulberry tree, and the head rubbed with Wine, adding a little Oyl to it. Moreover ordinary means must be sharp and strong, as Brimstone, Salt peter, Pepper, Castoreum. So Rue is good in most diseases, commonly Horses abstaine from meat themselves. All things must be given with milk or Wine. Also the root of Gentian is most profitable. Cardan.

For the running Worm or wildfice of Horfes.

The running fire which some call the worm, Horse Leeches; take the little worm that breeds upon the top of the Fullers Teafil, and do not hurt it, but thut it up within a Goofe quill, and cutting the skin of the Horles forehead, they put the worm into it, and fowe up the cut skin, in twenty daies this worm will dye, and in fo many daies the Horfe is cured. Others put in the fruit of Helebour. The ftinking Nettle given in meat and drink, (some call it Scrophularia,) is a good remedy for this discale. Others cure it by fire, others with cutting a vein, and purging : and these two almost belong to all diseases of Horses. For being that they sleep but little and eat much, and travell much, and keep no order, they stand in need of both remedies. For purges, that Medeaimentisbest, which consists of Myrrh, Gentian, long Birthwort, dwarf Elder roots, Bay berries: They use to run Florses after purgine, and to have them to water after burning, but they are fed after both in open Pasture-fields. Generally if the Horses be not kept in the fields, they must be kept in warm Scables, and have good meat given them to eat. Geldings need not so much letting of blood, for they have not fuch abundance; also they are hurt by it, and the more as it aboundeth. Cardan.

That Horfes or Oxen may not fall into difeafes.

Horles and Oxen will have no difeafe, if you hang Harts horn about them. Abfort.

A Remedy against all Diseases of Horses.

Against all infirmities of Horses or Oxen, so soon as they begin to be sick, this potion will help them : The toot of the Sea Onyon, the roots of Podlar, (which in Greek is called faur . for it is more dark and cloudy,) and common Sale what is fufficient, must be put in water together, and that water must be given Cattle to drink untill they be well. But if you would prevent desperate diseases, that your Cattle may never be troubled with them, when the Spring begins, provide this potion for them, and for one and forty daies together give it them to drink. Public Vegerins.

For an Inflamation of the eyes. For the inflamation of the eyes, you must mingle together and annoine the Eye with male Frankinsence (or as others have it) Lambs marrow also, of each one dram, Saffron, Cuttle bone, of each one dram, Oyl of Roles ten drams, ten whites of Eggs. Another remedy for the eyes inflamed, is made of Frankinsence, white Starch,

and Honey of Athens. Absvrt.

For white spots in Horses Eyes.

Let falt Armoniac very fine poudred be mingled with Honey of Athens, or some other good Honey, and Imeered upon it, or put as much Butter to it. Or blow in through a quill some pouder of Cuttle bone, or annoint it with root of Masterwort and Oyl beat together, twice in a day Or blow into the Eye Rocket seed whole as it is, and let it stay there untill the smaller seeds by their sharpness extenuate the Eye, and wipeaway the white lpots. The fame.

If Horses seour, draw bloud from the head Veins; let the Horse drink warm water mingled with Barley meal. If that do no good, pour Oyl into his Nostrils. Also Pomegranate shels stop the scouring of the Belly, given in pouder with Sumach of Sy-

ria, by the mouth. The fame.

Of the pain of the Colick in Horses.

Of the pain of the Colick in Horses. Wash a Horseis that griped in his belly with hot water and cover him, then pour is Myrrh five drams, old wine fix heminas, Oyl three heminas mingled together, and divided into three parts. Also heat the Belly with hot Sea water, or Myrtill berries boyled in water. Moreover Poley leaves, Southernwood, or bitter Almonds, must be mingled with sharp black wine, or else Pomegranate pils with water. Also Smallage seed is good, with as much Cucumber seed, both given to drink with an equal quantity of Wine and Honey, or feed of Cardamous poudred and given with water. Also Claver grease is cast most to the Horse to cat, and Barley. Further a Clyster is given to a Horse tormented in the belly, which is made of Beets boyld in water, with forty drams of Salt peter, and thirty drams of Oyl. Moreover you may give him a Clyster made with Wine and Salt peter. If you pils upon the ground, and take the Clay from that place, and rub it under his belly, this will ease his pains. The same.

A Horse that hath an Ague must be cured with a hot bath; but in Winter you must so bath him that he take not cold. Let most of his meat be Vetches or Wheat meal, give him warm water to drink: annoint all his body over with warm Wine and Oyl, purge his belly, draw bloud from the neck Veins, or Veins about his throat, brest, or feet; Rub his knees with it hot: when he seems to be well, wash him in hot water. But if he be seaverish from weariness, and grow lean, give him an hemina of Goats milk, a measure of white Starch, or Oyl, half an hemina, sour Egges, mingling therewith the juyce of Purslane brussed, for three daies or more, until he be well. But if he be seaverish by reason of the humours sallen upon his Jaws or parts about his head, he must be somented, and his palate must be annointed with Oyl straind with Salt and Origanum brussed. Warm his seet and knees with hot water. Rub the parts about the mouth with juyce of night shade and wine Lees, seed him with Sea weeds, green Grass or Hay, without any Barley. But if he bleed at nose, pour into his nostrils juyce of Coriander or Masterwort with water. The

If a Horse grow lean, give him parcht Wheat, or Barly baked, a double quantity: let him be led to water thrice aday. If his leanness continue, mingle bran with the wheat, and ride him gently. If he will not eat, pour into his nostrils water that is good to drink, wherein were bruised leaves of Night-shade and Poley. Barley and Vetches steeped in water are to be set before him; some grind two small cups of Gith, and with this they mingle three small cups of Oyl, and with an hemina of Wine, they pour it down his throat. You shall cure a Horse that loaths his meat with bruised Garlick, insuled in an hemina of Wine and pour'd down his throat. If he cannot make water, mingle the whites of ten Eggs with the rest, and give it him with a horn down his throat. Canstanting Carsar ex Absyrto.

A soft Plaister for lame nerves of Horses.

Take Goats suct one pound, Mollicidina half a pound, Rosin one pound, Verdigrease half a pound, mingle them. Publica Vegetim.

They call it Carriers pouder, which being mingled of many kinds of ingredients, cureth Horses and other Creatures by it felf, and is also mingled with other potions as the cure requireth. Chiron thinks this composition to be most soveraign.

Take Gum tragants three pounds, Aloes fix ounces, Myrrh fix ounces one feruple, Costus one ounce one seruple, Ammoniacum one ounce one seruple, Cassia one one seruple, Gentian, long Birthwort, Centory, Betony, Saxifrage, Elder, Opium, Southern-wood, of each one pound, Maudlin six ounces, Cardamous six ounces, Mace three ounces, Spicknard three ounces, Celtick spike six ounces, Alarum one pound, Daucus seed three ounces, Castoreum, Opopanax, Galbanum, Strucius, of each six ounces, root of Panax one ounce, Licorish six ounces, three handfuls of Wormwood, the juyce of Vervain dried and sisted sive ounces. Bruise all these together, and keep them diligently in a glass Vessel or of tin; when need is, give each Horse one spoonfull or more as his strength is, or to other Cattle, adding Wine and

Book VI. Secrets in the cure of all Diseases in Cattle.

E VI

101

毗

IN.

PHU! 西

雅

AUT.

102

ib.

THE PERSON NAMED IN

W CE

vih

pa

Oyl thereto. Sometimes you may mingle it with other potions, if Art and the difeale require it. Pub. Vegetins.

To make Mares cast their Foles. Aristotle faith. That when Mares finell the stink of a Candle put out they will cast their Foles, they loath this so much : so do many Women great with Child.

Secrets of Alles. Chap. 3.

That an AS may not bray.

If an Alshave a stone bound to his tail, he cannot bray. Simoneta Card.

Affer that swound. I will not conceal that which Plutareh would not : If you ask me what it is? that Horses and Asses will fall in a swound, if they carry Figs upon their backs. But the Remedy is more wonderfull that cures them, and men alfo. When Beafts are in a fwound, and Men faint away for want of forces, a piece of Bread will recover them; for if they swallow but a little bit of Bread, they presently are refreshed and recovered, and go merrily upon their Journey. Plutared saith, It will do as much in Men: for saith he, when Brutus passed through deep Snows into Apollonia, and fainted by the way, Bread being cast to him from the Enemy that defended the wals of the City, he was brought again pretently to himfelf.

How to cure Affes that halt. Moreover you shall cure Asles that halt, if you rub the whole foot round with hot water, and pick it clean with a Knife : having done that, you shall pour in old Pifs, whetein Goats fuet is melted especially, but if you cannot get that, then take Oxfuet, do this untill the Als be well. Confiaminus Cafar ex Abiyeto.

Of the Secrets of Oxen. Chap. 4.

To tame Oxen.

When you buy young Steers, if you put their necks into Forks that may hold them in, give them meat to for a few daies, they will be tame and ready to be commanded. Varro.

That Oxen may not Surbait their feet. That Oxen may not wear their feet away underneath, before you drive them upon any way, annoint the foles of their feet with liquid Pitch. M. Cate.

To keep Oxen in bealth.

That Oxen may be well, and drink well, and that luch as refuse their meat may be more greedy after it, sprinkle their meat you give them with Lees of Oyl, but little at first untill they be used to it, afterwards more, and give it them seldome to drink mingled with water equally every fourth or fift day. Do but this and Oxen will be found in body and free from discales. The fame,

Give Verches steeped and bruised every moneth in their drink, you shall cure Murrain of Oxen with wild Mallows bruifed. Demscritin.

That labouring Oxen may not be wearied.

Annoint their hoofs with Oyl and Turpentine boyled. The fame. That Oxen may not be troubled with flies.

Bruile Bay berries very fine, and boyl them in Oyl and annoint Oxen with it, or annoint the Oxen with their own drivle that fomes at their mouth. If you annoint a Buls Nostrils with Oyl of Roses, he will grow blind, and be troubled with a vertigo. Africanus.

To make Oxen fat. You shall fat Oxen, if the first day they come from Pasture, you cut Coleworts small and steep them in Vinegar, and give them that to eat : then give them Chass, and Wheat bran mingled together for five daies. On the fixt day give them four heminas of ground Barley, and for fix daies following augment their food by little and little. And in Winter feed them about Cock-crowing, then again at break of day, and when you water them, give them food again in the evening : but in Summer

### 118 Secrets in the cure of all Diseases of Cattle. Book VI.

fodder them first about day light; and secondly about noon day, then let them drink: and about nine of the clock at night, give them sodder again: in Winter give them hot water to drink, and in Summer lukewarme. But wash their mouths with Urine, taking forth the drivle that sticks there, and cleanse their tongue from Worms, pulling them forth with pullers, for Worms breed in their tongues: afterwards they rub them with Salt. Also there must be care taken for their Litter. Sotio.

If an Ox begin to grow fick.

If an Ox begin to grow fick, give him continually one raw Henegge, and make him fwallow it whole. The next day after bruife a head of Garlick, with an hemina of wine, and give it him to drink, let him hold up his head and chew it, give it in a wodden Veffel, and he that gives it must stand high, and must be fasting when he gives it to the Ox that must be fasting also. M. Care.

A medicament for Oxen.

If you fear a disease, give to them that are well, Salt three corns, Bay leaves three, Scallion stalks three, African and common Garlick of each three cloves, Frankin-fence three grains, Savin three branches, three Rue leaves, white Briony three stalks, three small white Beans, three live Coles, Wine one ounce and half: All these must be choicely gathered, beaten, and given by one that is fasting; give to every Ox for three daies of that drink. Divide it so, that when you have given it to each of them thrice, you may have spent it all, give it in a wodden dish, and let the Ox stand high that takes it, and so must be that gives it. The same.

That Oxen may be fat, and how they must lye.

Lay under Oxen Oaken planks that come from Horfes Stables, and firzw with them, for this will be loft for them to lye upon, and hard for them to ftand upon. Oxen will grow fat with I weet leaves of the Elm tree, ftanding in the Sun, and soing into the water. Card.

Of beadach of Oxen.

First you must know if Oxens heads do ake; when therefore he lets fall his ears, and will not eat, then his head akes. Wherefore rub his tongue with bruised Thyme, Wine, Garlick, and beaten Salt. Also Barly Ptisan mingled with Wine is good. You may likewise cure him by putting a handfull of Bay leaves into his mouth, or with Pomegranate pils. So with Myrrh, as much as a bean mingled with two heminas of Wine, and poured into his Nostrils. Democritus.

Of the Scouring of the Belly in Oxen.

The leaves of purging thorn bruifed and given with Bitumen to eat, cures them. Others give Pomegranate leaves bruifed, covered with Barley meal dried. Some give two heminas of torrefied Wheat flower to drink, with half a measure of water mingled together. The same.

Of the griping of Oxens Bellies.

An Ox that is troubled with griping of the belly will not flay in one place, and will eat no meat, but fighs and mourns. Wherefore you must east a little folder to him, and you must prick the fiesh about the hoofs, that they may bleed. Some openabout the tail, to bleed him there; and they bind it up with a cloath. Others bind Onyons and Salt together, and being wrapt hard, they thrust this farre into his tuel, and make him run. Some pound Salt peter and give him at the mouth. The same.

An Ox that hath an Ague will eat no meat, he stoops downwards, weeps, and hath filth sticking in his eyes, is hollow eyd. He is cured thus: Take grass from shady places, and wash it, and give it him to eat, or else Vine leaves. Give him the coldest water to drink, but not in the open air, but in some very shady place; wipe his Nostrils and Ears with a Sponge wet in water. Some burn his sace with a Caustick, and the places also under his eyes, and they rub them twice a day with a Sponge wet in old piss, untill the crusts fall off, and the wounds come to Cicatrize. Also his cars must be cut, that the bloud may run forth. Some mingle dried slower of Barley, with Wine, and give him that to eat. Others dissolve it with Brine, and

keep

Book VI. Secrets in the cure of all Diferent of Crowle. 010

keep him hot with cloaths : Others give him Cytifus with wine, which is not only good for Oxen, but for other Cattle allo. Dydinner.

Give the Ox Barley ground and freeped, and the finest Chaff cleanfed, and three heminas of Vetches, divided into three parts, for three times. Some bruife Mugwort and mingle water to it, and then they press it forth, and this they insule for seaven daies together to give him before his fodder. Cong ant. Cafar.

Of Oven that have Impostumes.

"If an Ox have an Ulcer, that is impostumated, you must wash it with old Urinco the Ox, being hot, and wipe it with wool, and then lay on a plaifter of fine Sale mingled with liquid Pitch. The fame.

For lame Oxen. The soll as or wil man

If an Ox grow lame of cold, you must wash the soot, and open the part affected with a Lancer, and wash it with old Urine: and then strew Salt on it, and wipe it with a Cloath or Sponge: after this you must drop in Goats suct rubbed against a red hot iron. If the Ox be lame by treading on a thorn or some sharp thing; you must do likewise. But Wax with old Oyl, Honey, and Vetch meal mingled together, and cooled must be applied to the Ulcer, then athin potsheard being sisted and melted with Figsor Pomegranates bruifed must be laid on; and it must be covered over with a cloath, and carefully bound up, that nothing may ealily enter in untill the Ox can ftand, fo he will be cured : but you must unbind it the third day, and dress it again with the same things. But if he halt by reason of the flux of the matter, heat the part with Oyl and boyld Wine, then lay on raw Barley meal hot. But when it is ripe, and breaks being foft, and runs lorth, wash the part, and opening it wide enough lay on Lilly leaves, or Sea Onyon with Salt, or Knotgrafs, or Horehound bruifed. Florentinus.

For Scabs in Oxon. Some annoint all feabs and cruptions of Oxen, with old Ox pils and Butter! Others lay on Rosin and liquid Pitch for a Plaister, and so cure them. Constantinus

Of Worms of Oxen. Some sprinkle the Ulcers with cold water and so kill the Worms. The same.

You must cast down the Ox upon his belly, and his head looking upward, you must see his tongue whether there be any bladders upon it; these you must burn with sharp hot irons, and then annoint the Ulcers with the leaves of the wild Olive tree beaten with Salt, or with fine Salt and Butter, or Oyl, or the wild Cucumber toot bruifed, and mingled with Figs, must be given the Ox to eat; or else give him two heminas of Barley meal parched and torresied, Wheat meal as much wer with water. The Same.

If an Adder bite an Ox. If an Adder have bit an Ox, beat a Sawcerfull of Gith, which some call Mucedonian Parfley with an hemina of old Wine Put that into his Noftrils, and lay to the place bitten Hogs dung. And do the fame if need require for a Man. M. Caro.

Of Secrets of Buls. Chap. 5: mort find sold rolls in the chap.

Dem a loon strol land To make Buls tame. Untamed fierce Buls bound to a Fig tree wax tame, and fland flill. Plinylaith, 1 think that if a wild Fig tree be tied about their necks, it will do the fame.

Alian faith, That a wild Bull will grow tame, if you bind his right knee with a band. I add here what Senecafaith, That as red colour will make Bulsangry, fo a white 

### 120 Secrets in the cure of all Diseases in Cattle. Book VI.

Of Secrets of Sheep. Chap. 6. To make Sheep follow a Man.

Didymus faith, That Sheep are wont to run after him, who stops their Ears with a

That a Ram may not run at one. Bore his horns through close by his cars. Const. Cafar.

That when the Sheep is with Lamb, you may know what colour the Lamb will be of.

Open the Sheeps mouth, and if her Tongue be black, the Lamb will be black, if white, the Lamb will be white, if divers coloured, so will the Lamb be. Didyar.

Give them Ivy to eat for eight daies, and they will never be fick. The fame.

That Sheep may not look rugged and fifthy, take Lees of Oyl, and cleanle them well, water wherein Lupins have been boyled, and good Wine Lees, mingle all these together equally. Next day when you would turn them forth, annoint them all over, and let them stay two or three daies to sweet together, then wash them in the Sea, if you have no Sea water, wash them with Salt and water. If you do this, they will not be rugged, and they will bring more and finer wooll, nor will they be troubled with Scabs: use the same, for all four sooted Beasts that are rugged. M. Cato.

Wolfs dung hid in Sheepfolds, will not only fright the Sheep from their ordinary meat, but will make them run here and there as it they were driven by some evill charm, and they will bleat and shake as if the Wolf were present, or as if the great and utter enemy of the Sheep were broke in amongst them; and they suppose only by the sent of his dung that he lyeth in wait for them: nor will they car untill the said dung be taken away. By this Art I have found some Leeches that pass through the Countries, and boast themselves to be great Farriers, and expert to cure Cattle, and so have cheated simple Country Men of great sums of money; or instead of money, have carried away a fat Sheep with them. Rhasis and Albertus say, that a Wolfs tail will do as much, and there is nothing of that Creature from head to tail, but hath the same effect, such is the natural Antipathy between the Wolf and the Sheep. Mizald.

A wonderfull Remedy for the diseases of Sheep.

The stomach of a Ram boyled in water and wine cureth all diseases almost of Sheep, if it be given to them in drink, and there is some ground for this, torhere is Sympathy. Card.

You must not shear your Sheep in Summer nor Winter, but in the Spring time. The wounds they receive by being shorn must be annointed with Tarr: and the rest of their body with Wine and Oyl, or with the juyce of bitter Lupins boyld. But Wine mingled with an equal quantity of Lees of Oyl is better, or Oyl and white Wine, mixed with wax and sat to annoint them with: For this hurts not the wooll, and keeps off Scabs, and ulcerations. But you must observe, that when they are well rubbed, after the first hour of the day that the dew that sell into their sleece in the night is dried up, they must be sheared, best in the Sun. For the Sheep sweating whilst he is shorn, the sweat comes away in the wooll, and so the wooll is made better coloured and softer. Didym.

That Sheep and Goats may not dye of the Murrain.

If the stormach of a Stork mingled with water, be given to each a spoonfull, they will never have the Murrain. Const. Cafar.

That Cattle may give much Milk.

All Cattle will give abundance of Milk, and feed their young fat, if they cat of tree
Trifoyle, or you bind Dittany to their bellies. Aphricanu.

# Book VI. Secrets in the cure of all Diseases in Cattle. 121

You must take care first that Sheep do not take the Plague. Wherefore when the Spring begins, take Mountain Sage and Horehound, bruise them, and give them in drink for fourteen daies: do the same again in Autumne for as many daies. If the disease catch them, use the same remedies, also the Hay of tree Trisoyle is good to be eaten by them, and the most tender roots of reeds steeped in drink. When they are fick they must be removed to some other place, that the sound may not mingle with the sick, and they having fresh Ayre and water may recover. Leonius.

For Scabbed Sheep.

The Scabs will not come at first if one smeer the Sheep with what I mentioned after they are shorn: but if it come by your negligence, you shall cure them thus. Unfalted Oyl Lees must be strained, and water in which bitter Lupins are steeped, and white Wine Lees, of each an equal quantity must be heated in a vessel, and let the Sheep be annointed with this for two daies and stay within. On the third day wash him with hot Sea water, and after that with fresh water. Some put Cypress Nuts into the water. Some annoint with Brimstone, and Cyprus pounded with Ceruse and Butter. Some, where an Asspisseth in the way, take up the Clay mingled with it; and smeet that on; Some are more diligent and do better, they use none of the fore-said remedies, untill the part affected be shorn and rubbed with old Piss. Also you shall cure Scabbed Sheep, washing them with tirine, and annointing them with Oyl and Brimstone.

Remedies for divers Difeases in Sheep.

If the heat of the Sun hurt Sheep and they fall down continually, and will not eat: press out the juyce of wild Beetes, and pour down that, and make them eat the Beetes afterwards.

afterwards.

If they be short winded: Cut their cars with a Knile, and remove them to other

Pasture.

If they be troubled with a Cough: Almonds must be purged and pounded, and

mingled with three cyathi of Wine, and poured into their nostrils.

If their belly swell by hurrfull Pasture: You shall cure them by letting them bloud, launcing, and opening the Veins above their lips, and the Veins under their Tailes, near to the Tuel; also you must pour in an hemina and half of Mans Urine.

If they eat Worms with the grass, you must do the same.

If they swallow a Leech: pour down their throats sharp hot Vinegar or Oyl.

If they Iwarlow a Leten: pour downthen the oats hard the wound fine
If they have Impostumes upon the skin: Cut the skin, and put into the wound fine

Pointer of clarrined Sait with Fait.

If any creeping Vermine have bitten or flung them, give them Nigella with Wine, and do and give to them what I faid before concerning Oxen.

Wolves will not run upon Sheep, if you binda Sea Onyon about the Bell-weather. Anatolius:

### Of Secrets of he-Goats and she-Goats. Chap. 7.

Goats will not straggle up and down, if you cut off their Beards. Florentinus, and Zoroaster.

Give them the Herb Cinkfoyl for five daies together, to eat before they drink Goats will give a great deal of milk if you bind Dittany to their bellies. Florentinus.

### Of Secrets of Hogs. Chap. 8.

Hogs will be fatted with wheat Bran, and the sweepings of the Barn floore, and all forts of grain. But Barley besides that it fats them, will make them inclined to Generation. Florentinus.

Hogs will never have the Murrain, or if they have, they will be cured, if you put

### 122 Secrets in the cure of all Diseases of Cattle. Book VI.

into their Wash roots of Dasfodils, or else where they often wash themselves and wallow in. The fame.

That Hogs may not be fick. Hogs will not be fick, if you give them nine River Crabs to cat. You shall know when they are ill by pulling fome Briftles out of their necks : for if the hair be clean, they are well; but if they be bloudy, or have any filth about the root, that is grots matter, they are not found. Wherefore Democritus the Physician commands to give three pounds of the roots of Daffo his a little bruiled to every Hog with his meat: and he tellifieth that before feaven dates be over that will recover them. It they be Feaverish, draw bloud out of their tail, if their throats be swoln, let them blood in the shoulders; But if the discase they have be unknown, that them up twenty sour hours; and give them no meat at all; but put the roots of wild Cucumbers to loake a day and a night in water, and the next day after give them the water to drink : for when they have drank largely thereof, they will fliortly after vomit up the caule of the di-feale. But becaule it is a greedy Creature, and is most fick of the Spleen, quench the burning coals of l'amariske in water, and give them the water to drink. This will cure Men alfo if you pour Wine into the coales inflead of water, and Men drink the Wine. Democritus gives a plainteltimony of it. The fame Democritus promifeth a Remedy for a Mans Spleen, if you quench a red hot Iron in water, and then mingle that water with Vinegar, and give it a man to drink who is troubled with the Spleen. But when Hogs are bitten by creeping things, the fame cures are good for them that we showd before for other Cattle. Didym.

### Of the Secrete of Dogs. Chap. 9.

To make a Dog follow any Man.

Take the fat of the Matrix of a Bitch, and mingle it with bread, and east it to a Dog to cat: and he will follow thee: annoint your shoes with the same sat, and that will make any Dogs follow you. Fallopius.

Give to a Dog a boyld Frog, and he will never forfake you.

That a Dog hall never forfake you.

Give to a Dog a boyld Frog, and he will never part from you: yet I believe that I have sometimes given many boyled Frogs to Dogs, that yet did not obey me. But when they are beaten by others, if they run from you, if they take meat only from you, they will not forsake you. Somethink that if you give a Dog bread that is kept under your Armpits, that it may be wet with your swear, that will make Dogs more obedient and soving to you. Card.

If you will not have Dogs to bark, take forth the eye of a black Dog whilft the Dog is yet alive, and carry that about you, other Dogs will never open nor bark at you, nor at any Dog that goes with you, though he run by them: perhaps this proceeds from smeiling the Dogs eye. They will work more violent, and you shall be softer if you carry wolves eyes or a Wolfs heart with you. Some say as much of the tongue of an Hyana, carried in your hand, for that will not only make Dogs quiet from barking, but it will keep them that carry it safe from all Dogs. The same.

The like virtue is in the eyes of an Hyæna, for what Creature soever the Hyæna looks upon, it presently stops, grows dumb, and cannot fir. The same virtue is in the eyes of some Wolves, sor if they see any Creature first, he is stricken mure, and grows so hoarse, that if he would cry out he hath no benefit of his voice. Agric.

He that carryeth a Dogs heart with him, all Dogs will run away from him. The same

First you must resolve to what kind of hunting you would breed up your Dogs, and then give unto them presently after they are taken away from sucking the Bitch, the bloud of that Creature in Gobbets to eat, that you would have them learn to hunt, as for Harts, Harts blood; for Hares, Hares blood: do the like for Bores, Foxes, and Wolves,

Book VI. Secrets in the cure of all Diseases of Cattle.

Wolves. If it be for Partridges, give them the heart, head, and guts of the Partridg. By this means they will quickly hunt alter these Creatures, nor will they follow small Birds or other Creatures they meet with in the way, and turn offirom the game, they are in pursuit of. Out of a written Book.

There is a Nerve under the tongues of Wheles, that is like to a Worm, very round and long. Take this out, and they will be kept from running mad, and this makes them bark very little, nor will they bite any man dangeroully. Colum. and Plin.

To kill any Dog. Take Henbane feed, Nettle feed, of each a little quantity, mix it with Oyl of Turpentine and Verdigreafe, and give it to any Dog, in four and twenty houres it will certainly kill him. W. Mofeley.

For Dogs madness.

Shut up mad Dogs and give them no meat for one day, then give them some black Hellebour with their drink, and being purged, feed them with Barley bread. Thus you may cure those that are bitten by mad Dogs. Theomnestus.

To cure Dogs difeafes. Sponges fryed with fat are poylon to Dogs, when they swallow them down : for they cannot vomit them up again, they swell so much, nor can they digest them, for they are too hard for concoction. By the fame reason, though not so much, the skins of living Creatures will kill them : Nux vomica doth the fame, fo will beaten glass; Other poylons they can vomit up again : the way to cure them is to give them plenty of Oyl to drink, also this is ofttimes profitable against diseases that breed of themfelves. Cardan.

For Dogs Fleas and Scabs. You shall kill Dogs fleas with Sea water and pickle, and then to annoint them with Oyl of Cyprefs, and black Hellebour, water and Cummin, and four Grapes. But it is best to annount their bodies with Lees of Oyl; for that will cure their Scabs. Theomnestus.

Of the Secrets of wild Crestures in Generall. Chap. 10.

To tame wild Creatures.

Cratevas Hippocrates his Herbarist saith, That by the sprinkling of Wine wherein the Plant Oenothera hath been steeped, all Creatures sierceness will be taken off, and not only of Men. Theophrastus understood this of the root. So Elian writes that Enutra will make Stags and Dogs drunk.

To be fafe from wild Beafts, befides weapons these are remedies. Fire; For they fear that: but Serpents do not, for some will come of themselves, either by reason of the light or heat. A cord drawn like a gin, or if you want that, a ftick cleft in the mid-dle; for where they fee Snares, they are afraid. If a Man go backward towards them and hide his head, Cattle especially are frighted with this. Also a horn if one blow it very lowd. It is plain that Engins of fire will drive them off four waies, by fight of the fire, by the lowd noise, by the filthy smell, and lastly if you hurt them. Also a novlome fmell would make them flye most of all, if the force of the sent could be augmented as well as a found or light. Cardan. To be free from wild Beafts.

If any man be annointed with the fat of a Lion, he is free from wild Beafts; for they fear the smell of him-alive or dead. But you must go toward them undauntedly, for if you run away they will scarce smell the sent. Card.

Of the Secrets of wild Beasts in Speciall.

Of the Secrets of Deer. Chap, 11.

How Decreesew their youth when they are old. It is known that Deer renew their age by eating of Serpents. So the Phænix is renewed by her ashes, in the fire of spices that she makes for her Tombe, Corn. Agrippa

### 124 Secrets in the cure of all Difeases in Cattle. Book VI

To chase away Deer.

Deer are afraid of a cord that hath Feathers nied hanging about it here and there, for they fee the Feathers move. But they despite such scare Crows, when they see men standing by them. Democritus.

To allure Deer.

Deer hearing the noise of Pipes and Musicall sounds, will not run away, but stay to hear the Musick, and so are taken. The same.

Of the Secrets of wild Bores. Chap. 12.

BESH

That one may be fafe from wild Hogs.

If you would be fafe from wild Hogs running upon you, you must carry bound about you Crabs claws and feet, for an Amulet. Democritus.

Of the Secrets of Hares, Chap. 13.

To know the age of Hares.

If any man would know how many years old Hares are, you must fearch into the cavities of nature, for doubtless one Hare hath more cavities then another. Archelaus.

How to fat Hares.

It is a late invention to make them fat, for being taken out of the Hare Warrens, they are shut up in hollow places, and being thus shut up, they will be sooner fatted. M. Varro.

To make Hares come together.

The juyce of Henbane mingled with the blood of a young Hare, and sowed up in a Hares skin, is said to call all the Hares together that are in that part of the Countrey where it lyeth buried, no less then the Matrix of a Bitch draws Dogs to it. Out of an old Book; some say it is true.

Of the Secrets of Foxes. Chap. 14.

That Foxes may not eat Hens.

Foxes will eat no Hens that have eaten a Foxes liver. Cornelius Agrippa.

Of the Secrets of Wolves. Chap. 15.

To drive away Wolves.

If the tail of a Wolf be buriedfin a Farme, that will keep off all Wolves from coming thither. Rhafis and Albertus.

That Wolves shall not hurt Cattle.

If a Wolfstail be hanged over the racks where Cows feed or other Cattle, the Wolf will never come there untill that be taken away. Albertus.

You shall hunt Wolves thus. Blemmi are small Sea Fish, some call them Wolvess these help to catch Wolves on the land this way. You shall fish for these Fish, and take as many as you can get alive, pound them in a Mortar, and make a great fire in the Mountain where Wolves are, when the wind blows; then take and cast some of these Fish into the fire, mingle well therewith Lambs shesh cut very small with the blood and put that to the pounded fishs, then retire from the place; for so soon as the fire begins to smell very strong, all the Wolves in those Coasts will refort thither. And so soon as they have caten of that sless, or but smelt of it, they will grow blind and giddy, and fall saft assect: then come upon them and kill them being in a trance. Diophanes.

Of the Secrets of living Creatures. Chap. 16.

You may produce a living Creature by the mixture of divers kinds, if you do thus, Seek for living Creatures that bring forth many young ones at once, such as are most salacious, and are most prone to copulation, and the Males are alwaies alluring the Females, let these ingender together, being of equal magnitude of bodies; choose

choose such as go with their young very near, or just the same time, or not much longer: so by the copulation of divers kinds you shall have Monsters, half one kind, and half another, according as nature varieth many wayes. Of a Dog and a Wolf, will a wild Beaft be bred, which is wont to be called Crocuta, and Arithme shews the way how to produce this. The Lyonels copulates with the Pardus, from whence are ingendered baftard Lions, that have no Maines, and are all spotted as Philogratus faith. Wolves, also copulate with Panthers, so is a Creature produced of double kind, which is called Thee, by its spotted skin it is like a Panther; but the face is like the he-Wolfs, as Oppianus relates; fo with a Fox, Wolf, Tyger, an Ape, a Lion and fuch like it may be done; that as the Greeks commonly lay, Africa continually af-fords some new Creatures: for by reason of want of water in these dry parts and thirfly Regions, the Beatls come from far to one place to drink; and there, by force or willingly, they copulate one with another, and fo by divers mixtures divers Creatures are made; and in Africa they do not much wonder at it, because they are so common; wherefore take these examples to produce new Creatures. I have read in Elian, that with Sybaris a Shepheard, there was one called Craibis, who falling in love with the fairest she-Goat, was mad for lust after her, he would kils this Goat, and embrace her as his dearest Mistris: and this lover of a Goat would give her the choicest meat that she might please him better. Thus he reports a Child was born of this Goat, like the dam on the legs and lower parts, but like the fire on the upper part of the body. The fame.

Of the Secrets of Mice. Chap. 17.

To kill Mice.

You may kill Mice if you lay in their way Hellebour mingled with Barley meal dried, or feeds of wild Cucumber with black Hellebour and Coloquintida, and Barley meal. But if you make a fume with Vitriol. Origanum, Smallage feed and Nigella, you will drive them away. If you put Oake afters in their holes, the after falling upon them will make them feabbed, and so kill them. If you mingle filings of Iron with leven, when they taste of it they will dye. Paxamm.

If you would make Mice blind, mix Suthymal bruifed with Barley meal dried and fweet Wine, and when they eat of it, that will make them blind. The fame.

Take one live Mouse, and pull off the skin from his head, and let him go, and that will drive away all the rest. Also the sum of Lupins hamatites, will with green Tamarix burnt, make them leave that place. Paramus.

Anatolius bids you poure Lees of Oyl into a brass Bason, and set it all night in the middle of the house, and by this means he reports, all Mice of other neighbours houses also will come thither.

Take two living Mice or more, put them both into a large earthen pot, and make a fire of Ash wood about them. When the pot grows hot, you will laugh to see how at the cry of those imprisoned Mice, and piping they make, all the Mice that are in hearing will run thither, and go straight forward into the fire, as if they came to help the belieged. I should think the sume of the Ash wood is the cause of it. Mizaldus from Albertus.

Remedies against field Mice, and boulhold Mice also.

Apulepus faith, That Mice will never hunt after feed fown, if the feed be fleeped in Buls Gall before it be fown. If you ftop Mice holes with Rose-Laurel leaves that will kill them. Some of the Greeks mingle wild Cucumber, or Henbane, or bitter Almonds, and black Hellebour beaten together in equall quantities with dryed Barley meal, and with Oyl they make it to a Paffe, and this they put into the holes of Mice in houses and fields. Plin faith, that the Ashes of a Weefil will drive them away, or of a Cat put into water and sprinkled upon the seed sowed.

To drive Mice from root of Hartichoaks.

Hartichoake roots are exceedingly defired by Mice, and they are so allured by them, that they will come in Troops to them from far distant places; as Varro a Greek Author tels us in his choice precepts of Husbandry: but there is a remedy for this. For he faith that wooll wrapt about the roots, will take off the edg of their appetite, or Hogs dung or Figuree ashes will make them be gone.

That a Shrew may not bite any one.

That the Shrew may bite no Man, this Shrew must be taken alive and compassed in with Potters earth: when this grows hard, you may hang it about your neck, and

befure the Shrew cannot bite you. Vegeting.

That Mice may not eat your Cheefe.

If you put the brain of a Weefil to the Runnet, they report that Mice will not for much as nibble at that Cheefe, nor will the Cheefe ever be rotten. So great discord there is between Mice and Weefils. Corn. Agrippa.

That Mice may not est Books.

Mingle Printers Ink with the infulion of Wormwood, and the Mice will never eat the Letters. Dioscorid.

Of Secrets of Moles. Chap. 18.

How to eatch Moles.

If you will catch Moles, put Leeks or Onyons in their holes, for fo they will prefently come forth as if they were amazed. Albertus.

Put a Mole in an Earthen pot with Brimstone set on fire, and the Mole will call the other Moles to her, as if the cried for help. Albertus as I remember.

How to drive away Moles.

Paxamus bids us make a hole through in some narrow sound Vessel, and put into it chass, and Rosin of the Cedar tree. (Palladiae reads it Wax,) as much as is sufficient with Brimstone: and with this to stop diligently all the holes and passages where the Moles lye, that the smoke may not penetrate through them; yet so that one large hole must be lest open, in the mouth whereof the said Vessel must be placed, the matter of it being set on fire, that may send the smoak of the Rosin and Brimstone into the Mole hils. By this trick all their walks under ground being filled with smoke, you may kill them, or drive them all away. Some make white Hellebour, or the bark of Dogs-cole pondred and sisted with dried Barley meal, and Eggs strewd upon it, and temper'd with Milk and Wine, into Cakes, and these they put into the Mole holes. Many to drive Moles away, breed up Cats in Gardens, and keep tame Weesils to drive away this plague by hunting after them. Others fill the holes with marking stones, and the juyce of wild Cucumber, or else catching one Mole, they cast him into an earthen pot with Brimstone set on fire, supposing that will bring all the rest thither. Some agin at the mouths of their holes set traps with hair. Countrey Men are content to set a twig, or an Elder bough saft down. Pliny kils them with Oyl Lees only.

Of the Secrets of Weefils. Chap. 19.

That Weefils and Squirrels may be made tame.

Here is a wonderfull thing which I will not conceale now; It is strange that Weefils and Squirrels having once bitten Garlick with their teeth, they will hardly ever dare to bite again, and thereby grow tame. Mizald.

How to kill Weefils.

You shall either kill or drive away Weesils, if you mingle salt Armoniac and leven (others read Wheat) together, and cast that in the place where they often come. Some catch one and cut off his tail and testicles, and let him run away alive, that will make all the rest run away. African.

All Weefils are put to flight by the stinking smell of a burnt Cat, as all Infects are by any of their own kind. Card.

To

lt

6

TE.

117

25

To call Weefils to one place.

The gall of a Beaft called Stellio, mingled with water, will make all Weefils come thither. Corn. Agrip.

To drive Cats from Bird Cages.

Cats are driven from Bird-Pens, if you sprinkle Chickens and young Birds with the juyce of Rue: or as many say, if Rue be stuck round about them. Mie.

That a Cat may conceive without a be-Cat.

Living Creatures are not only friends one with another, but they agree with many other things, as mettals, stones, and vegetables. So a Cat loves Nip, and it is reported that she will be great with Kitten by rubbing against that, for that serves instead of a he-Cat. Agrip.

Of Secrets of Ants. Chap. 20.

To drive Pilmires away.

If you burn some Ants that you find, this will fright away all the rest, as it is proved by true experience. Disphanes.

How to drive out Ants.

You shall drive Antsour of their holes, if you burn Snails shels with Styrax, and bruising them, you strew them among their Hillocks. Also you may drive forth Ants with Origanum and Brunstone poudred, and scatter upon his Hils. But Ants will dye all, it you dislove juyce of Ben with Oyl, and poure that upon them. The same.

That Ants may not eat Herbs and Plants.

Ants will not touch trees, if you annoint the bodies of them with Oyl Lees mingled and boyled with bitter Lupins. The fame.

That Ants fall not come to a Bechive of Honey.

Ants will not come near a Hive of Honey, though it have no covering, if you put white wooll about it, or inclose it in Potters earth, or red marking stone. Some annoint the stocks of trees with benjoin mingled with Vinegar, and pour it also into their holes. The same.

Ants will all dye, if you make a smoke with the roots of wild Cucumber, or with

the Imoke of the sheath Fish, especially that of Alexandria upon a flow fire.

You shall drive away Emmets with Buls gall and Pitch, mixed with Lees of Oyl, red stone and Pitch do the same, if you mingle them to an unquent. Some hang a Fish called Coracinus upon the tree, and so they destroy Ants; If Pismires be burnt the rest will stye away by reason of their saiell. The same.

Against multitudes of Ants Palladian gives this remedy; If saith he, Ants have Hils in your Garden, put the heart of an Owle there; it they come forth of their holes, then stop all open places of your Garden with Ashes, Chalk, or Oyl. And a little after that he adds, you shall force them to leave the place, if you strinkle Brimtone and Origanum in pouder upon their holes. But Pliny saith the best remedy against Ants is, to stop their holes with Sea Mud, or Ashes that are not moist. But above all they are killed with the herb Turnsoil; some think that water mingled with Bricks unburnt, is a great enemy to them.

Take Brimstone half a pound, melt it at the fire in an earthen pot, additate of Taratar or falt of Ashes three or sour ounces, mingle them, and stir them well, untill the colour be reddish, take it from the fire, and pour it forth upon a board, first wer with water: and when it is grown hard, pouder it small, and pour upon it as much Fountain water as shall suffice, and leave this in a glass, untill the water be coloured, sprinkle this Tincture upon their Hils, or upon stocks of Trees, and this will kill them or drive them away. It is certain. Alexins.

128

That Ants may lose their place.

Take dry Origanum, and pouder it finely, and strew it upon the place where Ants. are, and they will quit their fortress. Albert.

That Ants may not creep up the Trees.

That Ants may not creep up trees, Lupins, are poudred and mingled with Fish pickle, and with this the lower part of the flock of the tree is annointed round about. Columella, Pliny, and Palladiur. Likewise Ants run away by reason of the heart of a Houp, but his head, seet, or eyes will not do it. Agrip.

Otherwise.

Green Lupins with Oyl, and annoint the roots or stocks of Trees with this : Some kill them with Lees of Oyl only.

Against Ants.

Some mantain that the heart of a Bat will hinder Ants from coming forth. But Brumftone will hinder them; I think by its ill fent and fume. I never found any thing for Trees better then water; Make a circle of Wax about the Trees, and fill up the place void with water. Cardanus.

Of the Secrets of Scorpions. Chap. 21.

Against Scorpions.

Catch one Scorpion and burn him, for that will drive away all the reft. But if any man do diligently annoint his hands with juyce of Raddiffies, he may without fear or danger handle Scorpions and other creeping things. Also Raddishes laid upon Scorpions will presently kill them. You shall cure the the sting of a Scorpion, if you touch the part with a Seal-Ring of Silver. Sandaracha burnt with Butter and Galbanum, or with Goats Suet, will drive away Scorpions and all other creeping things. If any Manboyt Scorpions in water, and annoint the place that is flung by a Scorpion, he shall cure the part, and take away the pain. Diophanes.

That Scorpions shall not creep into boufes. Scorpions will not creep into houses, when a small Nut shall be fastned to the roof of the house. Plutarch.

To chase away, and to kill Scorpions.

If you compals in the place where Scorpions are with a twig or branch of the true Turnfoil, Pliny faith that they will never ftirre, for they cannot if they would; but if the Herb touch them, or be strewed upon them, he faith they will dye presently. Some report that the same is performed by the touch of the root of the Herb which is called Scorpion Grass; and that he shall not be hurt by a Scorpion that carrieth the Herb about with him. The Africans promife, that if you mingle and bruife a handfull of Basil with ten Sea Crabs, or River Crabs, all Scorpions that are near will come together to it. The same Authors report, that if any man be stung with a Scorpion, let him ride upon an Als with his face turned toward the Affes tail, and all the venome of the Rider will go from him to the Als. This you may know when it is done, if the Afs blow and fart. Miz.

How you may handle Scorpions without danger. If a man hold the Herb stone Sage, or Scorpion Grass in his hand, he may fately handle Scorpions. Turent.

For Stingings of Scorpions.

The Stellio is so contrary to Scorpions, that it frights them if it do but see them, and makes them assonish with a cold sweat. Wherefore they kill the Stellio in Oyl, and let him corrupt there, with which they cure the stingings of Scorpions by annointing the part. Corn. Agrip. de Philof. occultà.

To make a Crocodile not able to move. If any Man touch a Crocodile with the birds feather of the Ibis, he is presently made that he cannot fir. The same. Agrippa.

DE L

b

23

# Of the Secrets of Wiglies. Chap. 22.

To kill Wall-lice.

Tar and juyce of wild Cucumbers smeered upon the bed-steds, or put into the beds will kill Wall-lice. So will Sea Onyons cut and brayed with Vinegar, if the bed-stead be wet with that by a Sponge. Likewise boy! Citron leaves with Oyl, and smeer the joynts of your bed-sted. Or mingle Euls or Goats gall with sharp Vinegar, and with that wet the wals and the bed-sted. You may do the same with old Oyl and live Brimstone in pouder mingled and smeering them with that. There will be no wiglice if you boy! fish glew, and smeer it on the beds. And you shall kill all that are, it you mingle Buls gall with Lees of Oyl boyled, and sprinkle that and the Oyl where they are. Or if you put Ivy or Caper leaves in Oyl, and annoint the places with that; I y this medicament even those that are in the wals will be destroyed. But an effectual remedy is prepared thus. Take a Sawcerfull of wild Stavesacre, or Sea Onyons cut into small pieces as much, sharp Vinegar one spoonfull; these are bruised together, then they are made hot, and so the places are smeered with it. Also mingle one part of Tar with sour parts of sweet Wine, and smeer the place with that. The same is done by the gall of of a Goat or Cals, with as much sweet Wine and Vinegar. Dydim.

Wiglice are killed by the fume of bloud-fuckers, if the bed be kept close covered that the smoke cannot come forth; and likewise bloud-suckers are killed by the smoke of bloud-suckers. So Harts tongue dried and burnt to a smoke performes the same, and so do Ivy leaves bruised and mingled with ten Horse-Leeches. Floren.

Another.

The feet of a Hare or Deer bound upon the feet of the bed, that support it, about the part that is behind your back when you lye down, will suffer no Wall-lice to breed there: But when they come forth, if you put under the bed a Vesselfull of cold water, the Wall-lice will never bite you whilst you sleep. Also scalding water will burn and scald them all, it you cast it upon them: but that hinders not, but they will breed again as fast as they did. Democrium.

Another.

Take Wormwood, Rue, common Oyl, and water, of each what may suffice, boyl them all well untill the water be consumed, then strain the Oyl, and mingle as much Hogs grease with it as needs, make an unguent and annoint the joynts of your beds with it. Alexim.

Take Hogs greafe, Quickfilver, of each what is sufficient, mingle them very well, and make an oyntment, and smeer the chinks and joynts of your beds with it: The Tincture of Brimstone will do as much, whereof I made mention before in the Chapter concerning Ants. The same.

For Wiglice.

Make a smoke with Ox dung, and it will drive away Wall-lice. Anonymus.

Take Wormwood two handfuls, white Hellebour one ounce, boyl them in Lee untill a third part be confumed, wash the joynts of your beds with it. Rescellus.

Of the Secrets of Fleus, Chap. 23.

Make a pit, and bruise Rose Laurel, and put it into that pit, and all the Fleas will come thither. Wormwood or the root of wild Cucumber laid in Sea water, and the water sprinkled about the house kils them all. So doth Nigella insused in water, and the water beforinkled over the place. Or the decoction of Flea bane sprinkled, So doth Mustard seed and Rose-Laurel seed, both heated at the fire and sprinkled about the house. Sist Quick-Lime, and when you have swept the house, strew this there and it will kill them. The same is done by Lees of Oyl, daily sprinkled upon

い田は

REE

and the

祖紀祖

H-11

the Pavement. Also wild Cummin bruised and mingled with water, and ten drams of wild Cucumber seeds poudred and put into the water, and the water sprinked about the house will burn up the Fleas. The same is done by the root of Chameles, and the leaves of black Poplar bruised, and insused in water, and Thistles boyld in water. Likewise pickle that is strong besprinkled, and Sea water will kill sleas. And if any one set a Bason in the middle of the house, and make a circle about it with an Iron Sword (but the best Sword for this purpose is that that hath first killed a man,) and be sprinkle with the decoction of wild Stavesacre, or Bay leaves bruised, all the place besides that which is within the circle, or esse with Brincor Sea water boyled, he shall make all the sleas gather into the Bason. Also an earthen Vessel set into the ground, that the brims of it may lye even with the Pavement, and smeered with Buls sat, will gather all the sleas into it, even those also that are yet hidden in your Cloathes. Make a little hole under the bed, and put Goats bloud into it, and it will gather together all the fleas, and will draw all the rest out of your Cloathes and Garments. Also out of rags and thickest Tapestry, wherein the greatest force of sleas lye, they may be called forth, if Goats bloud be so fet in a Pot or Vessel. Pampbilm.

Wormwood, Rue, Southernwood, wild Mints, Savory, Wallout leaves, Feen, baftard Spike, which we call Lavender, Nigella, green Coriander, Flea feed, Bean Trifoly; lay all these or some of them under the Blankets, or boyl them in Vinegar of Sea Onyons, and with that besprinkle the beds. Alexim.

Another of the Same Author for Fleas and Wall-lice.

The decoction of Thistles or Arsmart, or Coloquintida, or Bramble, or Colewort leaves, sprinkled about the house, drives them away.

Annoint a small staff with the fat of a Hedghog, and stick it up in the middle of the Chamber, and all the sleas will stick to the staff. The same.

Another.

If the bloud or fat of a Bear be put under the bed in a hole or vessel, all the fleas will gather and dye there, Arnoldus de villa nova.

Another.

Beforinkle the rooms with Lee and Goats milk mingled together.

How Fleas must be driven away.

Take Lupins and Wormwood, boyl them both in water, and sprinkle the Chambers therewith. Wormwood and Coloquintida in water, do the same boyl'd with Peach leaves, Vervin, and Coriander. Fallopius.

Against Garden Fleas.

Fleas will never spoil Herbs in Gardens, if you use natural meanes, to mingle Rocket in many places of the Garden. So sharp Vinegar tempered with juyce of Henbane sprinkled upon these Creatures, will help you much. Anatolius.

Of the Secrets of Lice. Chap. 24.

For Lice of the eye lids.

Rub your eye lids with Sea water, falt water, or Brimstone and water, and apply them, or with Vinegar of squills Allum, and Aloes, annoint the hairs of your eyelids. The same.

Take an Apple boyld foft, and cleanled from its core and skin, a little Quickfilver, mingle them together to an unquent, annoint the parts that are lowly with it, and the Lice will dye. An Italian.

This unguent will kill them: Take common Oyl three ounces, Wax one ounce, Stavefacre, Quickfilver killed with a Mans fasting spittle, of each three drams, make an Oyntment, wash with this instead of Sope, when you wash your head. Bayrus.

Take Sandaracha, Saltpeter, of each one dram, Stavefacre two drams, make them

国際年代の日本

up with Vinegar and Oyl, and aunoint you with them. White Hellebour and Sale peter, Stavefacre, and Oyl of Tar, are good both feverally and altogether; so is Sumach, root of four Dock, and Oyl.

Of the Secrets of Snails, Chap. 25,

Of Snails.

What concerns Snails, If you sprinkle new Lees of Oyl or Sut of the Chimnies upon them, you shall do as much to Pot-hearbs, as if you lowed Ciche Pealon amongst them, that is good for many things wonderfull in Gardning. Mizald.

Of the Secrets of Caterpillars. Chap. 26. OY 1970 Ill wood I

What concerns Caterpillars, Some strew Fig ashes to drive them away, others fow Squils in the Gardens in beds, or hang them up here and there. Some flick up in many places the claws of River Crabs. If the Caterpillars will come for all their things, then ule this device. Set Ox Pifs and Oyl Lees mingled equally upon the fire to boyls when they are cold beforinkle the Pot-herbs and trees with this. Anacolini. But Pling would have them touched with bloudy rods which they stand in danger of. Palladimburns handfuls of Garlick stalks without the heads, all over the Garden. To these take Bats dung, and make a flinking smoke with it in many places of the ground, for this is excellent. Pliny faith, They will be driven from Pot-herbs it you fow Chiche Pealon with them; and mingle them one with another, or Crao be hung by the horns, upon boughs of trees in divers places. But the Greeks observe that they will not breed, and also those that are bred are destroyed, it you take some of them out of a Garden that is next, and boyl them in water with Dill, and when the water is cold, beforinkle the herbs and trees with them, where you fee the Caterpillars breed and fostering their egs. But take great heed that the water touch not your hands or face. Moreover it is a fure remedy and eafle to be provided, to burn Bitumen and Brimstone about the roots and arms of trees : Or to make a sinoke with Mushroms that grow under Nut trees : or elfe burn Galbanum or Goats claws, or Hartshorn, turning your back toward the wind. Some put Ashes of Nettles three daies into water, and after that they wet abundantly the Pot-herbs and Trees with it. Many fleep the feeds to be fown in Lee made of the Fig tree. Our Gardners by an eafie Art do at this day to drive them away : Where the Caterpillars creep in open Sunny places after Rain, in the morning they use to shake the leaves of Pot-herbs, and boughs of Trees : for to whilft they are yet stiff with the cold of the night, they cauly fail down, nor do they ever creep up again; for thus are they prefently and cally to be killed. Moreover it you would destroy all forts of such Creatures as hurt Trees and Herbs, Disphanes the Greek will shew you the way how. Get faith he, The Paunch of a Weather new killed, with all the Excrements in it, and bury this under ground a little, but not very deep, in the Garden where thele small Creatures use to frequent; at two daies end you shall find Beetles, and abundance of such Creatures in heaps, about it : you may carry them from thence, or bury them deep enough in the lame place, that they never rife up again : having done thus two or three times, you may destroy them all. Our Countrey People wind wifps of straw about the bodies of Trees, and about the roots: and the Catepillars are taken in thele when they come to creep up the Trees, and thus are they either driven away or catched in thefe gins and Inares laid for them. Misald. de Secresis horserum.

Another. Hurtfull Creatures are driven away from Pot herbs, by water wherein Crabs have been set in the Sun, or Craw fifth for ten daies. Card. de Subrilit. maquel all proposition

Against little Creatures that do mischief in Gardens. Dung that is the best for Pot-herbs and Plants, is the finest Ashes, that is naturally hot, for Garden fleas, Worms, Caterpillars, Snails, and the reft that hurt the Plants and devour them, are either killed or forced away thereby. Mizald.

前

Of the Secrets of Serpents. Chap. 27.

Against Serpents, remedies and Secrets.

Florentinus, that for Husbandry amongst the Greeks was the chief, Writeth that Serpents will not lodg in Gardens or other places, if you plant round the borders, Wormwood, Southernwood or Mugwort, or elfe place them handlomely about the corners of the Garden: and if the Adders be used to any place, the smoke of a Lilly root, Fiarts horn, or Goats hooff will scare them away. Palladius faith, That they and all evill spirits may be chased away by some sinking smoke. Democritus faith, They will dye it you cast Oake leaves upon them; or if one that is fasting spit into their mouths. Apulejus writes, that strike them only with a Reed, and that will destroy them; but they will often revive again. Tarentinus well skilled in Husbandry amongst the Greeks, saith, that he cannot be stung with an Adder, who is annointed with the juyce of Raddish, or hath but tasted of a Raddish. This Athenaus and Gaz. Ton afcribeth to an Orange or Pomecitron, and they confirm it by a very handsome flory: but it will not be amils to hear again Floreninus the Adder killer. Adders faith he will never come where the Deers fuet lyeth, or the root of Centory, or the Jet stone, or the dung of an Eagle, or of a Kite; And every creeping thing will be driven away if you mingle Nigella, Pellitory of Spain, Galbanum, Harts horn, Hyfop, Brimstone, Dog Fennel, and Goats hoofs; and then pouder them, and pour the fharpest Vinegar upon them: and make little Bals of that mixture, and so raise a smoake with them : for the ill sent of those things being scattered in the Ayr, will make all creeping things to shift away, as if they were beaten with a Whip. Some fay that the boughs of the Pomegranate Tree will drive away all venemous Creatures and Adders: Wherefore of purpole it is laid under the Blankets and Furniture in thole houses where Adders use to haunt, and other Creatures that are venemous, whole Troops whereof Florentinus brought together as one would catch Fish in a Net; by ferting a Hogshead where salt Fish had been formerly in, into the ground, Garden, or other places about, where these Adders and hurtfull Creatures frequent. For to that prefently all creesing things reforted, and quickly fell into it. Pliny speaking of the Offer faith, Adders will not come at this firub, and therefore Countrey Men alwayes carry a stick of this in ther hands. Moreover it is a most certain experiment and approved, that Coblers shoos being burnt, will effectually drive away Serpents; and not only those that wander in Gardens, Fields, or Houses, but those also that are crept into Mens mouths and bodies whilft they flept with open mouths in the fields in Summer. This is spoken of by Marcus Gatinaria, a Physician very famous, that in his time the like accident befell a Man, who, when abundance of Remedies had been used to him in vain, which were otherwise very good, found help beyond all the rest, by the smoke of old shoos burnt, receiving the stinking smell at his mouth by a Tunnel : For lo foon as the cruel Beaft (for it was a huge Viper) Imelt the filthy favour of the fume, those that stood by law her go forth at his Fundament, to the great wonder and amazement of them all. This I writ, And do you note it for a great Secret eafie to be procured, and which may do many Men good. But here I must not omit to tell you that Serpents hate fire exceedingly : not only because it duls their fight, but because fire naturally is an enemy to venome. They hate also all strong fents, as Onyons, Garlick, and the like; but they love Savin, Ivy, and Fennel; as Buffs love Sage, and Vipers Rockets. Above all they hate an Ash tree mortally, that they will not lye fo near it, as to be under the morning or evening shade of it, when the shadow casts very long, but they will remove far from it. Pliny Taith that he had tried it, That if you put a Serpent and fire both within a circle made of Ash tree boughs, the Serpent will run into the fire before he will adventure to passover the circle made with the boughs of the Ash: this is a great bounty of Nature, that the Ash tree buds before Serpents do come abroad, nor doth that Tree cast her leaves untill the Serpents begin to hide themselves, and are not any more to be seen. Virgil the Father of all Learning, chaleth them away with Cedar Tree, or Galbanum set on hre to Imoke them with.

Smoke

Smoke of Galbanum' gainst Adders good, As is the smoke of the sweet Cedar wood.

Mizaldm writes this out of the Ancients above mentioned.

To stupisie Serpents.

Round Birthwort diligently beaten with a field Frog, adding a little writing Ink thereto, will make Serpents stand still as if they were dead, and stick fast, it you do but write with that mixture, and cast the writing before them. Alb.

Annoint your hands well with juyce of Raddish, and you may safely take Scrpents

in your hands. Card. from Tarent.

11

母 臣

百年

ETO.

te.

山

THE STATE OF

ga

in:

dra

the

lbe

出土

alt:

will

tile

Ly

400

ing

tie

から

191

W.

in

m

m-

W

0-

TE SE

If any one be flung with a Serpent, unless he be in a Feaver, let him drink the juyce of Ash leaves with white Wine: and with the leaves let him cover the part that was stung: this is very strange, but it is appproved to be true, nor is the reason concealed: for there is a strong Antipathy between the Ash tree and all Serpents. Mizald.

Of the Secrets of Bones. Chap. 28.

To Soften Bones.

It is reported that Bones will be made foit with juyce of Smallage, Yarrow, Raddiffies, Horehound, with Vinegar, if you lay them in these juyces, and bury them in Horse dung. Card.

To make Bones white.

Bones are strangely made white, being boyled with water and Lime, if you alwayes skim it. The same.

To make bones foft.

Take Roman Vitriol, common Salt, of each as much as is sufficient: Pouder them and distill them, and keep the water for your use, and when you have occasion, steep the Bones in it and they will be soit. Is abella Cortese.

To dye Bones green.

Take one measure of the sharpest Vinegar, Verdigrease, filings of Copper, of each three ounces, Rue one handfull, bruise what must be bruised, and beat what must be beaten, and mingle them: steep Bones in this sisteen daies. If abella Correse.

To dye white bones black.

Take Litharge, Quick lime of each fix ounces, Fountain water what is needfull, mingle them, boyl the Bones in this water, and they will be black. Ifabella Cortefe.

Take the strongest Vinegar, put it into a glassed Vessel, put filings of Brass to it, Roman Vitriol, Allum, flour of Brass or Verdigrease, of each what is sufficient, mingle them, leave them so tor seaven daies. Then boyl them at the fire with the Bones or Wood, putting a little more Allum to them, and you may dye them what colour you please. Alexins.

If you will make Ivory fort to take any impression, boyl it in the water with root of Mandragora, six hours at the least, and it will be soft as Wax. The same.

I will not let pass, that Ivory is said to be polished very neatly, and that heaps of salt will be made into salt water, if they be covered with Raddishes. Mizald.

Of the Scerets of Horns. Chap. 29.

It is the Art of Chymistry that will soften horns by long boyling, if you put a little ashes into the water; this will not be done under eight hours time. With these you make hafts for Hilts of Swords, Combs, Chess men, boxes for Oyntments, Cases, and other Vessels, but all must be made by the same Art; but the French have a far better way. Card,

How to make horns black.

It is plain that Vinegar and Aqua vita, and Vitriol will make black borns that are cold, or but a little warm. Some things also are to be added, that will make them hold the colour. Card.

Of the Secrets for hair, fee before concerning the Secrets of Harfes.

# BOOK. VII.

Thus far I have Spoken of Man, so much as needfull was for Secrets. Since therefore I had to Speak of other Creatures, in this Book I shall lay down the Secrets of other Creatures that live in the Waters; and in the next I shall treat of Birds and such as live in the Aire.

Take Origanum, Savory, Elder of each three drams, bark of Frankinsence, Myrrh, Sinoper, of each eight drams, half a pound of dried Barley meal dissolved in pleafant well sented Wine, of the Liver of a Hog broyled three ounces, as much Goats such, and the like quantity of Garlick. These must be all beaten severally, then mingle thin Sand with them, and put them all about an houre or two before into the place where fish are, and compass the place with nets. Others put in the Herb Delphinium, the Masculine, and they first beat sit small and pounder it and sist it; this will allure the fish to it, that you may take them up with your hands. Some take half a pound of Garlick, and as much Sesama seed torressed, Penniroyall, Origanum, Thyme, Elder Savory, wild Stavesacre, of each thirty two drams, Barley meal dryed half a pound, Spelt as much, bark of Frankinsence sixteen drams, they mingle this with Earth and Bran and cast it into the water. Florentimus.

How all forts of Fish may be called to one place

Take bloud of an Ox, a Goat, a Sheep, dung of Oxen from the small guts, and of Goats from their small guts, the like from Sheep, Thyme, Origanum, Penniroyall, Savory, Elder, Garlick, Lees of sweet Wine, of each one part, the fat or marrow of the same Creatures what may suffice: beat all these severally, or all together, and make lumps of it, and cast them into sish Ponds, or places where sish are one houre before, then pitch your Nets round about. Democritus.

Take Sheep suet, Sesema seed torrested, Garlick, sweet Wine, Origanum, Thyme, dryed Elder, of each a fit quantity, bruise them, mingle them with Bread and east them in. Dydimus.

To take all forts of Fish.

Take the bloud of a black Goat, Lees of Iweet Wine, a quantity of dryed Barley meal, mix them with the Lungs of a Goat cut into very small pieces, make them in lumps, and cast them in. Democrime.

That no man may eatch Fish.

If you firew Salt about the Fishing Line, no Fish will bite. The fame.

A Bait to catch Fish.

Take one ounce of a Whale, and the yellow Down of Thistles that flye away with the wind, Annifeeds, Goat-smilk Chees, of each four drams, Opoponax two drams, Hogs bloud four drams, beat them all well, and mingle them, pouring upon them tharp Wine, and make little Bals of them, as you do for persumes, and dry them in the shade. Tarentinus.

A Bait to catch River Fish.

Take Calfs bloud, and Calfs flesh cut very small, put them into an earthen pot, let them lye there ten daies, then use this for your Baits. The same.

A Bait of the same Authors, how to catch Fish presently.
You must make up Bals with dried Barley meal, and cast them to the Fish.

To allure Fift.

Role feeds with Multard feed, and the foot of a Weefil bound to your Nets, or caft near unto them, will invite the fish thither. Albertus.

To catch Fift.

Distilling Glass retort Glowormes that shure in the Night, you must do it at a gende fire, untill you have drawn forth all their moysture. Mingle this water with four ounces of Quickfilver in a Viol, or some round Glass vessel very well stopt, that the water run not forth. Then place this Glass in some Net handsomely, that it break not; when you let this down into the Rivers, it will shine so bright, that the Fishes allured by the light will come thither in troops. Alexing.

To invite Fish.

If you bruile Nettles with five leaved Grafs, with the juyce of Housleek, and annoint your hands therewith, and cast this also into the water, where fish are in lumps, put but your hands into that fish-pond, and fishes will refort to you by sholes. You may do the same, if you put this mixture into a Net or into a Weil, or Dragnet for fishes. Hermes.

Another.

Fishes will come abundantly in a calme River, or by the Sea shore, if you strew in to it Lime mingled with the decoction of round Birthwort. And if they taste of this pouder, they will lye as if they were dead, and swim above water. Pling.

Another.

If you take Coccolus Indiens and make Bals of it, with Cummin, old Chees, Wheat meal, and Wine, (let the Pellets be no bigger then Peafon) and east these into standing waters, or very calme places, all the fish that taste of it will be presently stupisfied; and swim to the shore as if they were drunk, so that you may take them with your hands, many have tried this. Mizald.

How to catch Fish with ease.

Fishes are taken with Baits: Now the Baits must have four properties; they must fmell well, for this will make them come from remote places, such things are Annifeeds, jnyce of Panace, and Cummin is best of them all : they must taste well, that they may more defire it, and they may be thereby deceived; fuch are blond, especially Hogs bloud; Chees, but chiefly made of Goats milk; Bread; principally of Wheat; Butterflyes, the best are golden coloured. The Bait must sume to the head, that it may make them drunk by its violent quality, as Aqua vita, Lees of Wine. Last of all. It must be stupefactive, to make them sensless: such are Marygold flowers, that are to be had new every Moneth : for this Herb whole flowers are yellow, cut in pieces, will make great fish altonished in one hourestime. So is Lime, for though it correct water, yet it will kill fishes. So is the juyce of all the Tithy mals, and both the Nux vomicas, called Nux metelli, or the fleepy Nut. But nothing is better than that fruit which is brought from the East, and is called Cocculus Indicus. It is a black berry, like unto a Bay berry, but fmaller and rounder. Our composition to take fish is tried to be certain. Take a quarter of an ounce of Orientall berries, Cummin seed, and Aquavita, of each a fixt part of an ounce, Chees one ounce, Wheat meal three ounces, make little Pellets, beating all together. Card. de Subvilir.

The rubbish that remains when Myrobalans are pressed, Mans dung, white Bread, must be all bearen severally, and then mingled together, and put into a Net, use this and it will take effect. Turentimes.

Another for Purse Nets-

A Bait that I found in writing, of those that live only by eating Fish. Take the shels and fish together that breed upon Rocks, and let these be your Bait. The same.

Take Celtick Spike, four leaves, Cyperus one leaf, Parsley of Macedonia, as much as an Egyptian Bean, Cummin as much as you can hold in three singers, Dill seed a little. Pouder them and sift them, and put them into a Cane, and when you are minded, wash Earth Worms, and put them into a Vessel, and mingle with them of

H

th

0

your former Bait what is fufficient, making the Lump up in your hands with the Earth Worms, and then put them into an old shoot, and carry this for to Bait fish with. The Same.

To make Fishes come to one place in the Sea.

Take three shell Fish that breed upon the Rocks of the Sea; and pulling forth their fubstance, write these words in their shels, and you will wonder to see how all the fish will come together: The words are, Juo, Sabaoth, fish eaters use this device. The Same.

Of the Secrets of Fish. Chap. 2.

To catch great Sea Fifth, as Glanci, and Orphi, and like.

A Cocks stones must be beaten with torrefied Pine Kernels and mingled, you must take Cocks stones eight drams, Pine Kernels sixteen drams, they must be beaten like to Wheat meal, and little Baits made with them, fishes are allured with this. Tarent.

To catch Barbels and great Giltheads.

Take of the Fish Phlænus that breeds in tresh Rivers eight drams, torrested whole Lentils eight drams, River shrimps four drams, Malabathrum one dram, beat all these and mingle them with the white of an Egg, make Pellets and use them. The same.

To catch Lampreys.

Take of the sheath Fish six drams, wild Rue seed eight drams, Calfs fat eight drams, Sesamum sixteen ounces, beat them, and make Pelltes for your use. The same.

To catch the Polypus, and Cuttle-Fish.

Take Salt Armoniac fixteen drams, Goats Butter eight drams, beat them and make moift Baits, and wet feeds herewith, or linnen cloaths that have no welts upon them, and thele fifth will feed about it, and never go from it. But you must pull your Net fuddenly, and you shall draw up Lobsters and Burrets and many more fish to be cast into your thip. The same.

How to catch shell-Crabs, and other shell-Fish.

Take Salt Armoniac fix drams, Onyons one dram, Calis fat fix drams, make your Iron Hook in the fashion of a Bean, and annoint it with this mixture, and they will come presently to the Hook and catch themselves, when they have once smelt to II. The fame.

To catch Mullets.

Take the Liver of a Tuney Fish four drams, Sea shrimps eight drams, Sefamum four drams, Beans broken eight drams, of the flesh of raw Tuneys two drams. Bruile thele and mingle them with fodden fweet Wine, make Baits thereof to Bait fish with it. The fame.

Another.

Take a Rams Pille, put it into an earthen pot not yet baked, put this into another pot and ftop it fast, that there be no vent for it, put this into a glass Furnace, that it may be baked, from morning untill night, and you shall find it grow fost like Chees: make Baits with it. The Same.

Another of the Same Anthor to catch Sea Mullets, Giltheads, Barbels. Take the shell of the Cuttle-Fish, with green water Mints, which is Mols, mingle thele with water, dry Barley meal, and Chees made with Cows milk, use this.

To eatch Sea Mullets.

Take Leaves of Malabathrum, as much as one little Ball, Pepper ten grains, Nigella three grains, flowers of Iweet Rush, the inward part of Garlick, of each a little bruife and mingle them all, then wet the crums of white Bread in an hemina of Mareotick Wine, and make a Past therewith, being all well worked together, this is a good Bait. The fame.

For Mullets and Codfish. Take fine white Bread, Goats Chees, Quicklime, beat them, and mix them together, pouring on of Sea water, and make Baits therewith. The fame.

Take the decoction of Nigella, with Locusts and Earth Worms, bruile them, and adding Book VII.

Secrets of Fifth and Fishing.

adding fine wheat flower with water, make a mixture as thick as Honey, for your ulc. The Jame.

How Tuneys must be catche, out of the same Author.

Burn Wallnuts to ashes, and bruise Marjoram with them, and with fine white Bread wet with water, and Goats milk Chees make your Baits.

To catch Fift called Cerri.

Beat Garlick, Bread, and Cows milk Chees together, with Goats milk Chees and fine wheat flower, make Pellets and cast them into the place. The fame.

How to take a Ray-Fift. Take the dung of a Swallow, and wet it, and make a Paste with meal of Barley. Another.

Boyl Lettice feed, and with Butter and Barley meal, beat them into a body.

For Stock-fish. Take green Moss from the Rocks, boyl that in Oyl, and make up your Baits. The

To catch Fish called Glauci. Roft fair Tunyes and Acofa together, take out their bones, and adding Mofs, and

course Barley meal thereto, make lumps for Baits. The same. To catch Fishes called Trachuri, and Melanuri.

Wet Asses dung in the juyce of Coriander, and with Barley meal make lumps for your uic. The fame.

To catch a Polypus, the fame Author. Bind about Vocaris, Mormyri, and Arada, let thele lerve for your Bait.

To catch the Cuttle-filb. Grind the Lees of Wine without water, with Oyl, go to the place, and cast this into the Sea, where you perceive the Cuttle, hath cast forth her Ink, so will the Cuttle come where the Oylappears, and there you may catch her. The fame.

To eatch Lobsters. Bind a Mormyrus to some strong thing, and bruise ten pura, and mingling therewith a little Mofs, lay it upon the Rock, and so take them. The same.

To catch Ruffs, Out of the Same Author. Take a Goats Liver, and put Baits of it upon your Hooks. If you will catch many forts of fish that the Sea affords, you may do it with a Bait of Goats or Asses Hoof.

To catch a River Fish called Grytes. Take two pound of Earley bran, of whole Lentils a quarter of a Peck, mingle them and with pure fish pickle a sufficient quantity insuse them. Add thereto Sefama seed a quarter of a Peck, strew a little of this, and cast it about for the Fish; so soon as you have done this every small gryre will come to it, and though they be five furlongs off they will all refort thither : but great Fishes will flye from the sent of it; wherefore use it thus and you shall speed. The same.

Take Sciamum four drams, Garlick heads two drams, falt Quails flesh two drams, Opopanax one dram, mingle these with the scrapings of old Colledg wals, make Caks thereof for Baits. The fame.

To catch Eets. Take eight drams of the Sea Scolopendra, River shrimps eight drams, Sesamum one dram, make Pellets for use. The fame,

To make Eels alive again. Eels that dye for want of water will live again, if whilft the body is whole, you bury it in Horse dung with Vinegar, and if you add some Vultures bloud to it, any Eel will revive again. Corn. Agrifpa.

How to catch Crabs. Crabs are catched with Rods flit at the ends, in which flits you must put some guts of Frogs, setting them in order, ten or twelve in rank, near to the Gulfs where the Crabs lye: then the fisher Man comes with his Net, taking up the Rods one by one,

and puts the Net under, and when the Crab that is fast cannot lo soon get lose, he fals into the Net. Thus the Fisherman with great delight carryeth home a hundred or two very ftrong and great Crabs, for the small ones will not easily come so high for meat, but others put them from it. Cardan. Amorber.

Take Frogs cut in the middle, put thefe into many Nets, put them where the Crabs use to come, and they will go into the Nets. I bad ibis of a Fisherman.

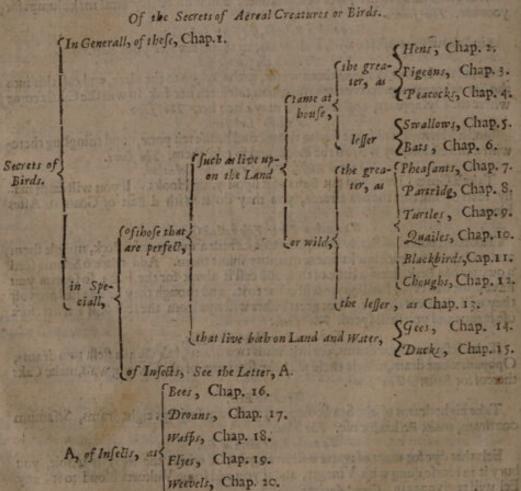
To make Frogs come together.

They fay that where a Goats gall is buryed, there will Frogs relort. Agrip.

Against the troublesome croking of Frogs.

Frogs will not croke in the night (which noile is then very unpleafing to most peo-ple) if you light a Candle and set it on the banks of lakes and Rivers where they be, or two, or more, as the place is great, and the Frogs many : Aphricanus faith, This is his Geoponicks, and I told it to a Prefident at Paris who complained of the filthy noise the Frogs made near him in the night, and he tried it, and found it true to his great content. Mizaldus.

#### BOOK VIII.



Locusts, Chap. 21.

THE OWNER 南城

導出

20, 4,

鸣

學》

10,8

120.3.

ME.

Of the Secrets of Birds and flying Creatures in Generall. Chap. 1.

To make Birds come together.

Milletoe of the Oake tied to Sylphium, and bound to any tree with the feather of a Swallow, will make all Birds come thither. All.

To catch Birds with your hand.

Putany Corn in Wine Lees, and juyce of Hemlock, and east it to Birds, every Bird that tafts of it, will be drunk and lofe its force. The Jame.

To breed up Birds to fing.

Birds are taught to fing finely, especially Linnets, and such as live upon Thissless. The foot must be tied with a thread, and the Bird must be fallned to a half circle of wood, the semicircle must be thrust into the frame of a looking glass, there must be another of greater compass below, that it may go up and down : the Bird playes with his own shadow, thinking he sees another in the class; on the sides of the upper circle, there must be set two small pots, the one full with Millet or Panick seed, or Nuc Kernels, the other with water, and fo arcificially made, that when one goes away, the other may come : you will wonder at the industry of this fmall Bird, which never had the like care before to live, Cardan.

How to catch Birds.

White Hellebour mingled with ordinary Birds meat, if Birdsfeed of it they dye. and are catched, and yet a man may fafely eat them. But it is more certain, that if Millet or Panick be fod with white Orpiment, that Birds will dye with this prefently. and then they are lafe to be eaten, for the force of the Poylon is twice rebated. Todrive Birds from fruit.

Garlick hanged upon Trees, will make Birds that come to eat the fruit flye away far enough, as Democritus observes from the Husbandry of the Greeks.

To drive Birds from Seed and Corn.

Magicians suppose a hedg Toad thut up in a new Earthen Pot, and buried in the middle of a Corn field, will drive Birds away from the Corn : but they fay you must dig it up again about the time that you Reap the Corn, and cast it out of the fields, least your Corn be fmutty and bitter, Pliny.

How to catch Birds.

Nux vomica will stupy se Birds if you mingle it with their meat. I remember I took Crows in my hand, when I had poudred that Nut, and mingled it with flesh, If finall birds eat corn freeped in Wine Lees, and the juyce of Hemlock, or Aquavita, or only in the Lees of the stronger Wine, or in the decoction of white Hellebour with an old Ox gall, this will aftonish them. Those birds that flye in flocks to it, are catched in flocks: as Partridg, but Gees more then they, but chiefly Ducks. When you would make some tame of the wild kind, you must cut their wings, and you must make a Trench about the waters, and seed them there with plenty of pleasant food: for Ducks amongst other things, that is the best which we call Sargum. In the Night when the tame ones cry, the wild ones will come thither to the meat, (for all Creatures agree in four things) they all feek for meat, they all feek after their pleafure, they will all fight, and all are in fear, and here they understand one the other. Wherefore drawing your Nets (which are called coverings) for they are fastned to posts, you shall sometimes catch a thousand Ducks at once. This may seem strange, yet it is true, and there is no better way of Fowling; you must chuse tame Ducks that are most like the wild Ducks in their colour. Cardan.

How to teach Birds to Speak. Birds are taught to fpeak in dark places, by candle light, by hunger and Wine, and you must chuse such birds as are young, and have the broadest tongues; of Parrets chose thuse that have five claws upon a foot for these are more apt to speak, Moreover hunger is the principall means to force them to it, as Perfins writes,

> Who taught Parrots for to give the day? And Piesto Speak the words that we do Says

80

H

Di Ga

dy

The Master of all such Arts and Wit, Hunger before all things will do it.

Dark places make Birds more carefull, and to recollect their fenses and memory, and so men will remember better in the dark, and muse and deliberate. But a Candle is set, because if it be persectly dark, birds will sleep, and are asraid that they rather lose their sense than increase it. Wherefore a small Candle is necessary. The same.

For Lice of Birds.

If Birds be lowfy, annoint them with Linfeed Oyl, and that will cure them. The

If you would understand Birds Notes, take two Companions with you on the fift of the Calends of November; and go into some Wood with Dogs, as if you went to hunt, and the first Beast you find, carry home with you, and make it ready with a Foxes heart, and you shall presently understand the Notes of Birds or Beasts: and if you would have another to understand them also, do but kiss him, and he shall understand them also. Albert.

If you would have them change their Quils and Feathers, give them Mice to eat with pouder of small Fishes, or else Hens flesh, that were fed with Serpents. Cardan.

Of the Secrets of flying Creatures in Speciall. Chap. 2.

Of the Secrets of Hens.

Cram Hensthus, shut up Hensthat are the first that will Lay, make gobbets with water and Barley meal, dip them in water, and then thrust them down their throats, consider by their crops when they have enough; cram them twice aday, and let them drink at noon, and let them not drink afterwards in one hour. Cate.

In your Kitchin make you a Pen that hath many places distinct one from another, with holes where the Hens may put forth their heads to cat their meat; in these Pens shut upPullets or youngHens severally by themselves, and give them meat every hour, a little at a time, but no water to drink, let their meat be Wheat boyled moderately in water. The Pens must have holes underneath for their dung to fall forth, which every day must be clean taken away. Moreover Hens must not be cooped up above three Weeks, for they would dye with too much fat. Ons of a Hollander.

Hens will fat best and be most corpulent sed in a dark house and hot, having their first Feathers pulled out, and by giving them meat of Barley meal mingled and made up with water. Others use Barley and Darnel meal together, or Barly and raw Linsteed meal, some again mingle dry Barly flower, and others pour Wine to it. Some give them fine white Bread loked. Most fat them with Millet seed. Florent.

Pour forth the white of the Egge, and pour to the yelk of it liquid Gyp, that it may grow as hard as the shell. For Hens being greedy will attempt to eat it, and when they find nothing there to eat, they will soon forbear to spoil their Eggs. Florent.

If you defire that your Hens shall Lay great Eggs, mingle red earth dissolved with their meat, and they will Lay bigger Eggs. Also they will Lay great Eggs, if you beat a burnt Tileshard and mingle it with Wine and Bran, and making Paste of it, cast it to your Hens. Leon.

There are some that go for Gypsies that will catch Hens, Ducks, Geese, Conies, with a hook, and pull them presently to them: for they cannot make a noise, nor hardly move to betray the Thief, when they pull them by degrees suddenly to them.

Cardanna.

HY

1

DE I a bie

7ht

10th

WIL W,

EK.

To defend Hens from Fleas.

In the Hen-Roofts when Hens have Hatched, you nuft take the ftraw away that was under them, and lay on fresh straw that fleas and such Vermine may not breed, which will not luffer the Hen to reft. Varro.

To keep Hens Safe from Foxes.

Some fay that a Fox boyled and cut into pieces, and given to Hens for meat, will defend the Hens from all Foxes for two Moneths: for the same Remedy holds for Ducks and Geele. This was tried in the Valley of Angue called Glemores, in Scotland, where there are great store of Foxes. Cardan.

Wet Origanum, and give the water to drink, or elfe wash it with Urine, or smeer their Nostrils with Garlick, or else put Garlick into water, and let the Hens drink of that. Leontins.

That Hens may not cast their Eggs before their time.

Hens will keep their Eggs to their full time, if you rost the white of an Egge, and tost as much Raysins and pound these together, and give that to the Hen before any other meat. Pampbil.

To make Hens giddy.

Mingle Honey and Benjoin together, and steep Wheat in that and cast it to the Hens. Berythius.

That a Cat shall not burt a Hen.

A Cat will never come near a Hen, if you hang under the Hens Wing wild Rue; nor will a Fox or any other Creature hurt them; and it will do it much more if you mingle the gall of a Cat or a Fox with their meat. African. and Democrit.

For the Difeases of Hens eyes.

You shall cure a Henseyes with Womans Milk, or with the juyce of Purssane, annointing their eyes on the outlide. Or elfe annoint them with Ammoniacum and Cummin, and Honey mingled in equall parts together, but bring your Hens into thady places. Paxamu.

For the Squirt in Hens.

You shall cure the scowring of Hens it you mingle a measure of fine Barley meal with as much Wax, and make it up with Wine into gobbers, and give the Hens this before other meat, or if you give them the decoction of Quinces to drink; also rosted Quinces are good. The fame.

For lice in Hens, the Same Author.

You shall free Hens from the lowly disease, with rosted Cummin, and Stavelacre beaten, of each a like quantity, annoint the Hens with these mingled with Wine: also you may wash them with the decoction of wild Lupins.

Filthy water to drink makes Hens have the pole or squach in their heads, wherefore give them Porus. You shall cure this snottyness of their Nose with Garlick cut into pieces, and cast into scalding hot Oyl, and when the Oyl is cold, wash their mouths with this. If they eat the Garlick also, they will be the better cured. Staves-acre is good alone, and also mingled with Vetches, and given to Hens: So is Sea Onyon cleanfed and steeped in water, and then cast to Hens with dry Barley meal. If this pose trouble them more, Lance the parts under the joynts of their Legs with a Knife, and press out the parts that are about their eyes, and rub the small Ulcers with Salt. Some make a smoke with Origanum, Hysop, and Thyme, and they hold the Hens head over the smoke, and they rub her beake with Garlick. Other boyl Garlick in Mans Urine, and rub the Hens bill hard with it, taking care not to touch her cycs. Paxamus.

That a Cock [hall not tread a Hen; If you annoint the fundament of the Cock with Oyl, the Cock will not, nor can he tread the Hen. The Same

That a Cocks Shall not Crow.

If you would not have a Cock to crow, annoint his head and forehead with Oyl. The Same.

日本日日日日日出出日

B b b 以 B 自 B b

To bateb Eggs without a Hen.

Fill two Pillows with Hens dung beaten very fmall, then put in Hens Feathers, and fow them both together, that they may be thick and foit; place the Eggs with the smaller end upward upon one Pillow, then place the other upon it in a hot place, move them not for two daies, after this untill the twenty daies turn the Eggs conftantly, to that they may hatch alike; then on the fet day, which is about the twenty first day, take the Chickens that are apip out of the Eggs by degrees. This is no wonder, for Arifforle shews that the Syracusians hatched them under ground, and in Egypt they are hatched almost with no help at all. We in our Age have found it true, that with a gentle fire and dung Chickens may be hatched, yet of many Eggs but a very few Chickens. They put fire under, that the dung may not cool. Cardan. ex Democrito.

Another.

Bury the Eggs in warm dung, and every fix daies put new dung to them, that it may not grow cold, but may foster them in a fet time, retaining the same heat that the Hen useth to fit upon Eggs, hath; you must alwaies turn them untill the Chickens you defire be hatched, you may do it in a warm Oven. The fame.

To know whether the Eggs will bring Cocks or Hen Chickens.

If any one would know whether an Egg will bring a Cock or a Hen, he shall know Ariftotle laith it, and Avicenna proveth it, That of a round fhort Egg will come a Cock Chicken, but of a long sharp Egg a Hen: and it stands with reason. For the perfection in Cock Eggs derives it felf equally to all parts, and contains the ends of it, but in a long Egg, the matter gooth farther from the Center, wherein there lyeth vitall heat.

That the Chickens may be very comely.

If you cause a Male ring Dove to tread a Hen, or else a Partridg or Pheasant, the Chicken will be very pleafant to behold. Peacocks, Pheafants, Partridges, and fuch like, will have white Chicken, if you cover and hang about their Hen houses or places where you keep them, and where they feed, couple, fit, and hatch their Eggs, with white clothes. I am indebted for this Secret to one that bred up Fowles for a Prince. Many have described it, but I know not whether they ever made triall of it. Miz.

That a Chicken may be batcht with four feet, and four wings. How a Chicken may come forth with four feet and wings: Aristotle saith, you must chuse those Eggs that you find to have two Yelks, with a thick skin running between them, but the whites are kept back, which the more fruitfull Hens are wont to Lay. You shall know these by their largness, and you may discerne it if you hold them against the Sun; for it is produced of abundance of matter, and by the treading of many Cocks mingled, that will ferve for two Chickens. When the Hen begins to cluck, let her fit upon these Eggs, and the time appointed by nature, for hatching being over, the Chickens will have four legs and four wings, your care must be to see them brought up well. But if they should be parted by the thick membrane, then would there be two different Chickens hatcht, and no part would be superfluous. So may a Serpent be bread with two heads, and all other Creatures that come of Eggs: If fuch a thing should happen, it were no small wonder : Ofttimes Monsters are bred infruitfull Creatures that bring many young ones, and but seldome in more barren and imperfect Creatures, but in others the facility of generation prevails: and thence it is that the baler Creatures produce more monstrous Births than the more Noble do. The Same.

A Creature that will infect both by feeing and touching. I deny not but a living Creature may be generated that shall poylon one by seeing and touching, as if it were a Basilick; burtake heed you thartry to produce this Creature, that you do not endanger your felf, which I think may eafily come to pais, if so foon as the Creature is brought forth, it should infect the Ayr round about it. Infuse fruitfull Eggs where you have a liquid moyfture of Arfenick, or Serpents poylon, and other deadly things, and let the Eggs lye therein for some daies: it will work the stronger inwardly if you place them right: set them under Hens that cluck, but shake

tz

them not in your hands, least you destroy what is the mitchief fought for. There is no greater cause to be found to produce divers Monsters than by Eggs: and ofttiemes Hens do hatch thele, and also they come of themselves. Where ore Leonius commanded to bring a flat plate of Iron, Nails heads, and Bay boug as where Hens fit, that they might not bring forth prodigious and monstrous Births. We may commodioully ule dung, for it is most like to naturall heat, and it hath a great putrelying force in it, which is the parent of Monlters : and as many kinds come forth by the putrefaction of living Creatures, as there are things that do putrefie : If a man understand this well, and confiders of it, he may hence draw no small Principles to find out Secrets. The Same.

That Capons may change their qualities diversly, and how to make them fat.

Men fay that Cocks and Capons if they feed on Garlick boyled, they will be more fierce to fight. Alfo Capons with their Feathers pulled off their bellies, and rubbed with a Nettle, will fit upon Eggs and foster Chickens: also sowe up their eyes, and they will grow wonderfull tat. Card.

That a Chicken having its throat cut shall not bleed.

Some report that the Ashes of a Toad hanged about a Chickens neck, will keep her from bleeding though her throat be cut. The fame.

To make a Chicken dance at Table.

If you will have a Pullet dance in the dish; Take Quickfilver, and poude r of Calamint, and put that into a Glass Viol close stopped, put that again into the hot Pullets belly. When the Quickfilver groweth hot, it will flir up and down, and make the Pullet dance. Albert. Mag.

To keep Eggs. You shall keep Eggs all Winter in Chaff, in Summer in Bran. Others wash the Eggs and cover them with thin Salt; some steep them three or four hours in warm pickle, and then they take them forth and cover them with Chaff or Bran. Leonting.

To know whether Eggs be full or empty. You shall know whether an Egg be full or empty by putting it into the water, the hollow will fwim, the full will fink. The fame.

To batch Eggs without a Hen.

If you want a Hen, you may hatch your Eggs without a Hen as Democritus shews. Pouder Hens or Pigeons dung, and fift it fine, and cover your Eggs all over with this, but not alone, least they break one against another, but lay Hens Feathers under and about them, and make nefts : let the copped end of the Egg turn upwards, and every twenty four hours by courles, renew it and turn your eyes about, that they may heat equally : to Hensthat are hatching use to do : keep them in a warm and hot place: when twenty daies are past, and the Chickens are compleat, and the Chickens beak begins to break the Egg; hearken whether they Peep or not: (for ofttimes the fiels are fo thick, that the Chicken cannot break through,) when the Eggs are Apip, take off the shels, and bring a Hen; or if you will you may do it otherwise. Bury the Eggs in Warm dung, and in fix daies put fresh dung under them, that it may not grow cold, but may hatch the Eggs at the fet time, and be like the heat of the Hen, alwaies turning the Eggs untill the Chickens be hatcht. The fame.

To make Eggs foft that you may put them into Glaß Viols. Infuse Eggs so long in tharp Vinegar untill their shels grow for, then thrust them into a narrow mouthed Glass, and pour cold water to them, and they will grow as hard as they were before, for Vinegar softens the Egg-shels, and water hardeneth

them. Cardan.

Bruife Gals and Allum with Vinegar, untill it be as thick as Ink, and with this write what you please upon an Egg, and when the writing is dried in the Sun, put the Egg into Salt pickle, and when it is dried, boyl it, and take away the shell, and you shall find the writing within the Egg. But if you cover the Egg with Wax and write upon it with a point of any tharp Iron, making your Letters as deep as the shell, and then steep the Egg in Vinegar all night, and the next day take off the Wax, you

西田

祖儿

100

CI

DA M. BH

shall see the Letters made by the Vinegar in the Egg very transparent. African.

To make an Egg bigger then a Mans bead.

You shall separate ten or more Yelks and Whites of Eggs, and mingle the Yelks together, and put them into a Bladder, and bind them round like an legg, put this into a Pot full of water, and when you fee it bubble, or when the Egg is grown hard. take it out, and put in the Whites fitting it, as it ought to be, that the Yelks may be in the middle, then boyl it again. If you would have it covered with a shell, make your shell thus. Grind white Egg sheis washt clean, to very fine pouder, steep this in strong Vinegar untill it grow soft, or in distilled Vinegar; for it an Egg be lest long in Vinegar, the shell will dissolve, and grows exceeding tender, that it may easily be thrust into a narrow mouth'd Glass, as I said; when it is thrust in, fair water put to it, will make it hard as it was before, that you will wonder at it. When the thels are diffolved like to an oyntment, with a Pencill lay it on upon your Artificiall Egg, and let it grow hard in cold water, thus fhall you make a true and naturall Egg. The Same.

To make an Egg flye up into the Ayre. In May fill an Egg shell with May dew, and set it in the hot Sun at noon day, and the Sun will draw it up: and if sometimes it will hardly ascend, it will be raised by help of a staff or Board to run up by. The fame

Of the Secrets of Pigeons. Chap. 3.

That Pigeons may not flye away but flay with their young ones.

Annoint the Doves Windows and corners of the Pigeon house with Oyl of Balfam, and they will fray at home. Pigeons will not flye away if you throw unto them Cummin feed, and Lentils foked in Water and Honey. And it you fet them Honey and Water to drink, or if you give them Lentils boyled in Iweet Wine to eat, this will make them to love their young ones. Didym.

A Charme to keep Pigeons in the Dove Coat.

This love charm is prepared for Pigeons at home, Tiles poudred and fifted, and Coffus, with fweet pleafant Wine mingled, must be given to Pigeons that rove abroad for to feed. Some mingle Barley meal boyled with dry Figs, and putting some Honey thereto, they fet that before them. Some again give them Cummin feed when they would be gone. Pigeons will ftay if you fet a Bats head upon the top of the Pigeon house; or if you, according to the featon of the year, lay the boughs and flowers of the wild Vine within the house. The fame.

A Bait to allure Pigeons that they shall bring other Pigeons with them to the Dove boufe.

Take the oldest Potters clay burnt in a Bakers Oven untill it be red, or old Lome our of the Furnace one ounce, female Vervin four drams, Wheat fleeped in Aqua wire and bruifed four drams, Cardopata fix drams, Camphir half a dram, Cumminthree drams, distilled Wine, one ounce and half, Honey what is sufficient to make Pellets as big as Pealon, put these amongst the Pigeons meat. Some add Unine and Mans bloud; Then take Vervin as much as you will, and hang it in the Dovecoat. David Vezelius an Apathecary of Colmaria.

To make Pigeons increase,

If you hang a mans Skull in the Pigeon house, the Pigeons will increase there, and live quietly. The same thing is performed by a Womans milk, that hath nursed a Girl two years, if you hang that milk in a Glass in the Pigeons houle. Albert.

Pigeons are invited by this paste; Take Maizum, Marchpane, or Sorgum four pound, Cummin fix pound, Honey ten pound, Costus one pound, Agnus castus feed five pound; Boyl all thefe in water, untill the water be confumed, then add pleafant Wine what is fufficient, with fifteen pound of old Cement or Mortar, and make a heap in the middle of the Dove coat. When other Pigeons fmell this fent, they will flye thither, and this they will fmell when they are mingled with the Pigeons of that place : and when they are once come thither, they will never forfake that place, 1

Tal.

Of

place, they are so taken with this sweet meat. Cardaniu.

That Pigeons may stay and bring other strang Pigeons along with them.

If you annoint Pigeons with an Unguent, they will bring other strange Pigeons home with them. But if you cast Cummin seed to them when they would five abroad for meat, they will stay within, and bring others home also, invited by the perfume of the Unguent. But it you take Agnus castus seed and steep is three daies in old Wine, and then sprinkle Tares with that Wine, and cast them to the Pigeons, and then let them presently slye abroad, strange Pigeons smelling their sweet breath will come all home with them. But they will come in sooner if you persume the Dove house with Sage and Frankinsence. Didym.

That Cats may not disquiet Pigeons.

Hang branches of Rue, and lay them in the Windows, and passages of the Pigeon house, for Rue hath a naturall virtue against Beasts. The same.

That an Adder may not come to the Dove coat.

Adders will never trouble a Pigeon house, if you write at the four corners of the house, Adam. If the house have any Windows, write the same word in them also. Serpents will be driven away also with the sume made with Dog Fennel. Democrit.

That Cats may not hart Pigeons.

Nor Cats, nor any other Creatures will do the Pigeons any hurt, when there are no houles near, where they may lye in wait for them. Quintiliorum.

That creeping things may not creep into a Pigeon house.

It is not possible for creeping things to crawl up into Pigeon houses, when they are carefully plaster'd, and kept very smooth with pargetting. Quintil.

To preserve Pigeons against hurtfull Creatures.

The head of a Wolf is supposed, whether by the sent or fight of it, hanged in a Dove coat, to drive away Weefils and Firrets. Card. & Agrip.

As foon as you have taken a young flock Dove, first give him parched Beans, boyled, and out of your mouth blow water into his mouth, do this for seaven daies, After this, make hulled Beans clean and Barley meal, let there be a third part of Beans set to soke with the Barley meal, do this handsomely and boyl them well: having done this, work them well in your hands, annointing your hands with Oyl. First work alittle of it, then more, touch it with Oyl, and knead it, untill you can make Gobbets; give this meat with water moderately. Caso.

### Of the Secrets of Peacocks. Chap. 4.

Peacocks and other Birds will be white, if their places where they are flut up be plaister'd white, or covered with white coverings or Hangings of Linnen, and they be hindred by small Lattices, that they may not get forth of those places. The flowers must be kept clean that they see nothing but white. When they couple, Lay Eggs, Hatch their Yong, so will their Broods be all white; do so with other Creatures. The same. But when Peacocks are Hatched first, you must give them no meat for two daies. On the third day give them Barley meal worked up with Wine, and well beaten together: Spelt beaten and steeped in clean water, these things they must

# Of the Secrets of Swallows. Chap. 5.

If when the Swallow fits you annount her Eggs with Oyl, in fifteen daies the young ones will be white, but in time they will change colour and grow black as other Swallows are, Cardanus

野野島西野

四部首出层四

bu

tal Vo

in

10.6日至月月日日

西海 田 田 J 日 田 G

Of the Secrets of Revenuce. Chap. 6.

For Flittermice.

In common entrances hang up the leaves of the Plane tree, and Bats will never come there. A smoke of Ivy will kill them. African.

Of the Secrets of Pheafants. Chap. 7.

Shut them up, and give them meat the first day, and the next day Honey and water, or sweet strong Wine must be set before them, this is the way to sat them. Their meat must be raw Barley meal worked up with water, this must be set alone, and by degrees a little. Then set them beaten hulled Beans, Barly, Water, whole Millet seed, Linseed boyld and dry mingled with Barly meal. You may add Oyl to these, and make Gobbets, and give them their fill of these to eat. Some cast Fenegrick to

them for five or fix daies to purge Choler from these Birds that desire it. They will be fat at longest in fixty daies. These Birds are cured with the same remedies we prescribed for tame Hens. Varro.

Of the Secrets of Partridges. Chap. 8.

Partridges are most hot by nature, and most eager for copulation; and hence the Males grow jealous, and fight one with another. Whensoever therefore two cock Partridges are found where hen Partridges are, the cocks will fight immediately, nor will they ever leave off fighting untill one yields and is conquered. He that is Master, all the Hens follow him ever after, and he grows so proud, that he will tread the conquer'd cock as if he were a Hen; and from that time he attends upon the conque-

rour as the hens do, and is ranged amongst them. You shall easily catch Partridges, if you cast forth Wheat meal kneaded up with Wine. Berytim.

Of the Secrets of Turiles. Chap. 9.

Millet feed and Panick, will fat Turtles, and by drinking plentifully. They love also Wheat and clean water. Didym.

Of the Secrets of Quails. Chap. 10.

Quailes will be fatted with Millet feed, Wheat, Darnel and fair water. But because Quails feeding on black Hellebour cannot be so safely eaten, because eating of them will cause convulsions and Vertigos, therefore it is best to boy! Millet feed with them. But if any man by cating of them be overtaken with these diseases, let him drink the decoction of Millet seed: Myrtill berries have the same virtue. These also are excellent where any one hath eaten poysonous Mushrooms. But Millet seed hath also another natural store; for he that eats Millet bread cannot after that be hurt by any poyson. The same.

Of the Secrets of Black-birds. Chap. 11.

Black-birds must be sed in a hot house, in a place where Partridges use to be kept, and Partridg-Feathers set there, sticking upon the wals and corners of the house Bay boughs with their Berries. But the meat they eat, must be cast to them upon a clean pavement; that is dry Figs steeped in water and pressed again, and bruised, and mingled with Wheat or Barley meal. Also Myrtle berries and fruit of the Mastick and Ivy tree must be given to them, and also of the Bay tree and Olive tree, and such like things. But Millet and Panick and sair water will fat them more. The same.

いる。中田の西田

total der

Of the Secrets of Changhs. Chap. 12.

You shall fright away Choughs if you catch one and hang him up: for the rest that see him will flye away thinking some snare to be set in that place. You shall keep Jayes and all other Birds from coming, if you cast forth black Hellebour insused together with Barly. You shall do well to fright Choughs and Jays away from your for the business they settle down there. The cracking of a Rayle in several fields by some noise before they settle down there. The cracking of a Rattle in severall places, Clappers and Drums will ferve to drive fuch Birds away. Leont.

How to catch Hawks.

Those that keep Pigeons are wont to kill Hawks by sticking two twigs into the ground Imeered with Birdlime, and laid across, there they bind some Creature between these sticks that Hawks will prey upon, and so they are catched, being bedawbed with Birdlime. Varro.

Of the Secrets of Small Birds. Chap. 13.

How Small Birds are fatted.

Small Birds delight in Millet and Panick feed, and this is the meat and medicament of Nightingales and Blackheads, called in Italian, Pajton. Take Chiche Peafon the huls taken off, and not too finely poudred two pounds, Butter five ounces, Honey three ounces, Almonds fix ounces, Saffron half a quarter of an ounce; Some make this up with the yelks of Eggs. If they be fick, you must cut the small white Wheal that lyeth upon her tail; if it swell, and the filthy blood runs forth, they will fall to their meat. They must be kept in a place where they have freedome enough, and hot : I have tried this often, for heat is very friendly to all small living Creatures that have blood, and chiefly for Birds. Card.

Of the Secrets of Geefe. Chap. 14.

How to fat Geefe.

Geefe will fat themselves in hot houses, with two parts of dried Barley meal, and four parts of Bran made substantiall with hot water, and set to them that they may eat as much as they please. They cat thrice aday, and about midnight, they drink very much. But when they are grown great, cut dry Figs in pieces, and freep them in water, and let them drink of that water for twenty daies; Thus men feed them to make them have a great Liver, and that the Gees may be fat. They shut them up, and give them steeped Wheat or Barley the same way. Wheat soon makes them fat, and Barly makes their flesh white. Feed them with the foresaid things, either feverally, or with both for twenty five daies, twice aday casting gobbets to them, made of that, fo that for the first five daies a Goose may have seaven great pieces every day, and after that by degrees, increase the number of the gobbets for twenty five daies, that the number of the daies may be thirty in the whole. When these daies are ended boyle Mallows, and in that decoction being yet hor, fleep leaven and give the Geele, do the same thing four daies together. Also the same daies give them water and Honey, changing it thrice every day, and not using the same again, do this continually untill fixty daies be over, and use dry Figs bruiled with the faid leaven to feed them with, and thus after fixty daies you may kill your Geese, that will be white and they and their Liver tender and white. The Liver must be taken forth and put into a large Vessel into hot water, which must be twice changed. But the bodies of Geefe and their Livers are better than those of Ganders. Your Geele must not be of but one year old, but between two and four years old. Moreover as soon as the Gossings come forth of the Eggs, you must cast to them dry Barly meal, and Wheat made wet, for them to eat, and green Crestes. Quintil.

Another. Crama Goole as you do a Capon, but that you must first give him formething to drink, and that twice a day, and meat as often. Cato. Some chuse Goslings about fix weeks old to fat, they shut them up in a Coop, and

在戶前日五日

E E

M

02

K

時

03

能写许四

ric

日日

ń

Ė

ot 12

there they let for them fine dry Barly meal, and Wheat flower wet for to feed on themselves as long as they list. Then they give them water enough to drink in pro-Thus in about two moneths they will grow fat. Men are portion to their meat. wont to cleanle their Rooms as often as they dung in it, because these Creatures love a clean place, but they will never leave any place clean. Varre.

A Goofe, or Duck, or some lively Creature, (but the Goofe is best) must be pulled all clean off her Feathers, only the head and neck must be spared. Then make a fire round about her, not too close to her, that the smoke do not choke her, and that the fire may not burn her too foon : nor too far off, that she may not escape free: within the circle of the fire let there be let small cups and pots full of water, wherein Salt and Honey are mingled, and let there be fet also Chargers full of sodden Apples. cut into small pieces in the dish. The Goose must be all Larded and basted over, to make her the more fit to be caten, and may roll the better, put then fire about her, do not make too much hafte, when as you see her begin to Rost; for by walking about, and flying here and there being cooped in by the fire that ftops her way out, the unwearied Goose is kept in by drinking of the water, which cools her heart and all her body, and the Apples make her dung, cleanfe and empty her. When the grows scalding hot, her inward parts rost also, then wet with a Sponge her head and heart continually; and when you see her giddy with running, and begin to stumble, her heart wants moisture : she is Rosted, take her up, and set her upon the Table to your Guests, and as you cut her up she will cry continually, that she will be almost all eaten before the be dead The fame.

## Of the Secrets of Ducks. Chap. 15.

To fat Ducks.

Ducks will be fat with great store of meat, as most kind of Birds will, with Wheat, Millet feed, or Barley. But fome defiring to have their Ducks more tame, fearch out the wild Ducks Eggs about Lakes and Ponds, and fet them under Hens, and when they are hatched, they bring them up tame. Didymus.

To catch Ducks with your bands, an easie way.

If a man note the place where Ducks use to drink, and pouring forth the water,

pour in firong Muskadell; when they drink that they will be drunk and fall down, and fo you may catch them. Wine Lees will do the fame. The fame Author,

## Of the Secrets of Bees. Chap. 16.

Of Bees, and the remedies of their Difeafes.

The place where Bees must be set must be turned toward the Winter or Springtime Sun-rising, that they may be hot Winter and and Summer, and the fresh Ayr that comes in may refresh them. The best water near Bee hives is that which runs through stones and Pibbles, and is very clean and not muddy at all. This makes the Bees healthfull, and to provide good Honey. But you must lay in great stones and pieces of wood above the water, that the Bees may frand upon them to drink with ease. If there be no running water there, you must draw it forth of a Well, or from fome Fountain, and bring it along with Pipes. But these must be near to the Bees, least they fall fick with carrying water. They most delight to feed upon Thyme, and so they will make very much Honey, and breed young Bees. Also Sage, Savory, and Cytifue, are most pleasant meats for Bees; and the fresh swarms will light most upon the shrub Cytisus, and they take less pains for it. But their Hives they live in must be excellent good, made of Oake or Figtree, Pine or Beech tree, thin Boards a cubit in breadth, and two cubits long. They must be smeered on the outside with Ox dung and Lime; for they will be longer before they will be rotten. They must have holes made flant waies, that the winds blowing in gently, may dry up Spiders Webs and other corruptions, and may cool them. This Creature delights exceedingly in rest, and doth not well like that Men should come to the Hive. Wherefore he that keeps Bees must about them build up a Wall of hollow stones; that the Bees

VIL

#d 00

pro-

Tate

She

田田田

OU.

1000

may fly in there into holes, and to cleape birds that lye in wait for them, and be preferved from Dew. They love their wonted places to feed in, and it they change
their Habitation, they are not willing to fly abroad for meat, wherefore it is best to
keep them in the same Countrey. If they seed on Tithymal, and taste the juyce of
it, they fall into a scowring, and therefore it any grow thereabouts, it must be pulled up by the roots, and the bees must be cured with the shell of a Pomestanate pounned, sitted, and mingled with their Honey, and sharp Wine. You shall cure their
Lice with the boughs of an Apple tree, and of the wild Fig tree burnt to make a smokes
but their dark fight must be cured with the sume of Origanum, Florent.

The way to get Bees.

When Eces are about to swarm (which is wont to be when there are many young ones, and the old bees will send them forth to live of themselves: as the Sabius often aid when their Children became very many.) There are two signs that alwaies use to appear before. One is, that some daies before, especially in the evening, many bees will have about the hole of the Hive, like Grapes, hanging in heaps one uportanother. The other is, That when they are now about to flye forth or have attempted it, they make a vehement noise, as Souldiers do when they are about to March; Those that come forth first, slye in fight, waiting for the rest that are to follow and are not yet ready. When the bee-keeper observes them do this, he casts some dust amongst them, and tinkling with a Kettle, he assoulded them, and makes them stay. Not far from thence he rubs a bough with balme or Erithace, or some things the bees love: when they settle, he brings a Hive rubbed within with almost the same delights for bees, and setting it near to them, he makes a little smoke round about them, and so forces them to enter into their new Colony, being once gon in they stay there; and are so well pleased with it, that should you set the Hive next to them, they sail come forth of, they will choose to remain in their new habitation. M. Varro.

How Bees may be carried to other places.

If you fell your Pees, or for any other cause have occasion to carry them to some other place, you must do it gently in the night, binding up your Hives in skins, to be at the place you go to, before day. For thus you shall neither disturb these Creatures, nor spoil their Combs. Florent.

That Bees may not flye away. Bees will not flye away if you fineer the holes of their Hives with the dung of a Call newly Called. When the fwarm is lettled, and dwels in the Hive, take the King or Queen (call him which you pleafe,) gently by the Wings, and crop off the ends of his Wings, for whilst the King stays within, the bees will never depart. Bees will not flye away, if you bruile the leaves of the wild and Garden Olive tree together, and about the evening annother their Thives with the juyce, or elfe with water and Honey, both the Wals and the Hives. When the bees are young, you must fet them meat in Balons, Honey, Wine, wherein is Thyme and Savory, full of flowers, that they may not be suffocated. Others bruile Raylins, and mingle a little Thyme toit, and make Lumps, and with thele they feed the Swarms very well, when they flay at home, and are hungry by reason of heat in Summer or cold in Winter; but when ten daies of the Spring time are past, you shall drive them forth to seek their meat with the Imoke of dried Ox dung; and you shall cleanse and purge their Hives, turning them up and down : for the friell of their filth makes them fluggish, and Spiders Webs hinder them. It there be many Combs in the Hives, you must take forth the worst, least the bees grow sick for want of room. But you must not take above two combs from one Hive, for that would make them lean and weak. Didym.

The best time to take the Honey and Combs is, when the Pleiades rise, that is according to the Roman account about the beginning of May. The second time to take them, is at the beginning of Autumn. The third time is, when the Pleiades set, that is about Ottober; But there is no set daies for this, but as the Combs are in perfection. For if you take the Honey forth before the Combs be compleated, the bees will.

四五日子日至日

not endure it, and they leave working for thirst. The same thing they do also if you be too covetous and take all they laboured for, away from them, and leave the Hives quite empty. For you must leave them a tenth part, both in Summer and Winter: but in Winter you must take from them but one third part, and leave them two thirds to live on. So they will have plenty to subsist on, and they will not grow careless for want. But you must drive them forth with the smoke of Ox dung, or esse with the sum of the male will e Mallows, and he that takes the Honey must smeet himself with the juyce of them, to prevent the Bees stinging him. Balme also rubbed on is good, and so is the flower of the Mastick tree. The same.

That he that takes the Honey may not be strong by the Bees.

Torreste Fenegric meal, and pour upon it the juyce of wild Mallows with Oyl, and make all as thick as Honey; annoint your face, and all the naked parts of your body very well with it, then sup your mouth full of it, and spirt it three or four times into the Hive. Also set on fire dried Cow dung in a pot, and let the smoke of it enter into the small dore of the Hive about half an hour, then take away the pot, and hold it higher on the outside, that the smoke may siye about the Hive, and so you have done your work for that busines; Likewise you shall root out the nests and cells of the Droanes, if you mingle Barley meal with your Ox dung. Paxamme.

You shall know whether Honey be mingled by casting it into the fire, for that which is falsified will not burn clear. Diophanes.

Of the Secrets of Drones. Chap. 17.

If you will take away the Drones, when the evening begins, belprinkle the infide of the coverings of Veffels with water, and about day break, open the Veffels, and you shall find the Drones cleaving to the drops of water. For they being alwaies filled with Honey are thirsty, and having an infatiable desire after water, they will not depart from the moyslure. And therefore it were easily to destroy them all, that not one should escape. They are great, lazy, and without a sting. Democrit.

Of the Secrets of Washs. Chap. 18.

Annoint your felf with the juyce of wild Mallows against the stinging of Wasps.

If a man annount himself with Oyl and the juyce of wild Mallows, or have the Plant it self in his hand, the Wasps will not touch him; and if he be newly stung that the sting is lest behind, the juyce or Oyl only will help it. Mizald.

Of the Secrets of Flies. Chap. 19.

For Flies.

Berytim the Grecian taught Mento drive Flies away with this whip. If faith he you ficep Hellebour and Orpiment in milk, and sprinkle the place where flies come, with that, you will either kill or drive them all away. Allum poudred with Origanum, and mingled with milk, will do the same; what things soever are annointed with this mixture, are secured from flies. Also Bays bruised with black Hellebour, and insused in Milk or Honey, and water is good for this use. For with the sprinkling of this, they are killed as with venome, or esse they will flye away and never come again.

All Infects are driven away generally by five means. Either hindering the breeding of them; so we use to destroy Locusts Eggs: Or we hinder their coming, by shutting all windows and places close, because slies cannot well endure dark, close places. Some things do plainly drive away and kill Insects, as those two extreams do; namely fire, and especiall the slame, and extream cold. Hence any sharp savour,

and

VIII

alog i

TO:

ない

西西 西西

は近り

N-100

Charge Charge Site

die.

100 I have

dite

the

Sec.

200

自

NX

in.

and extream bitter, as Vinegar, or decoction of Bays, wild Cucumber, white Hellebour, Coloquintida or Lupins will do it. Some things do it by a propriety of their tent, as Brimstone, Vitriol, flowers and leaves of Elders, both Corianders, Horns and Hoofs. Some things do offend them many waies, as Rue, Verdigreafe. The Ancients used two things very commodiously against them all, which are now forgotten by Men of our times, that is Pitch and Lees of Oyl. Pitch defends from the Ayr, and Lees of Oyl from living Creatures. I observe that amongst sweet sents, Storax by its smoke will drive away almost all Insects. Cardan.

To congregate Flies.

If you would make flies come together into one place, make a pir, and bruife Role Laurels and put into it, and the flies will all come to it. Anatolius.

To drive out of your boules Flies, Spiders, Scorpions, and Such like. Burn a Houps Feathers in the room, so many as you please to make a smoke, all those Infects that smell the sent will be gone and never come again. Alexim.

Against Flies.

If you will not have Flies come near to your house, put Sizing and Opium, and Lime together, and white your houle therewith, and the flies will not come in. Albertus.

That Flies may not trouble Oxen.

Flies will not diffurb Oxen, if you boyl Bay berries in Oyl, and annoint them with it, and they will never fit upon any Cattle, if you smeer them with Lions fat. Anatolins.

That Flies shall not trouble Horses nor Mules.

If a man wet the hair of Horfes and Mules with the juyce of the leaves of Gourds at Mitifummer, it is a great wonder flies will never moleft them. Cardan.

To kill Flies.

Hellebour with Milk or (weet Wine, and a little Orpiment infused together and fprinkled, will kill flies; and if you beat Allum and Origanum with milk, and fmeet the place with that, they will not fit upon it. The fame,

For Fleas.

Cummin well chewed in your mouth will make a juyce, that if you annoint your face, hands, and whole body well with it, if you can, they will never trouble you; for this lent is a great enemy unto them. And if you fprinkle the Windows with Wine, wherein beaten Cummin feed is infused, dores, wals, and pavement, fleas will never come into that Chamber, avoiding the fent thereof. And it you would also drive flies away from the house, take Savory, Elder leaves, and Cummin, of each what is fufficient, mingle them, and boyl them with water, and befprinkle this well about the house and wals, and the flies will never come there. But you must leave no meat there; for then they will come to the meat and not care for the lent. Alexim.

For Gnats.

If you hold a green moift Hemp bough near unto you, when you fleep, Gnats will not trouble you. Democrit.

Another. A Horse hair stretched out near the Gate, and over the middle of the house, will destroy Gnats, and never suffer them to come in. Vitriol and Nigella expell them by their smoke. If you bind a Sponge, wet in sharp Vinegar near your head and feet, Gnats will not touch you. Rue soked, and the house besprinkled with the water, will drive them away, so will Fleabane, boyled and the house made wet with it. The smoke of Galbanum, Brimstone or Cummin will do the like. Ox dung burnt about the wals keeps out Gnats. The same may be done with a fixt part of I-nula, and Purple shell sish two drams burnt, and the Blankets smoked therewith. A Sponge wet with Vinegar hanged near the dore, will gather all the Gnats thither. Gnats will never trouble him that layeth Hemp under his bed. Steep Rue in water, or boyl Fleabane, and sprinkle the house with the water, and the Gnats will not enter. So will the Imoke of Bdellium keep them off. Democrit.

ik

di

If drownd Flies be put under warm after, they will revive, and Bees drownd will

revive in juyce of Nip. Corn. Agrippa.

Of the Secrets of Weevils. Chap. 20.

To kill Weefils.

Take Brine, Garlick, of each what is needfull, boyl them, and with this Erine be-

Another of the same Author.

Take Sagapenum, Lees of Oyl, Castoreum, Savin, Brimstone, Harts horn, lvy, Galbanum, of each what is needfull, and make a smoke with them.

That Mites may not burt wheat, and that Mice may not come to it.

Make a Paste with Lees of Oyl, adda little Chaff to it; you must mingle them well together, daub your whole Granary thick with this Clay, after that befprinkle well with Lees of Oyl, all the place that is dawbed before, when it is dry, lay in your Corn cold into it. Caro.

Of the Secrets of Locusts. Chap, 21.

Against Locusts.

If Locusts come in clowds, let all men keep close within doores, and not be seen, and they will flye away beyond you. But it before you see them they come suddenly, they will touch nothing it you sprinkle things with bitter Lupins or wild Cucumbers boyld in Oyl. For they will presently die. Also they will pass over any Countrey where they come, if you catch Eats and hang them up upon the highest Trees. But if you catch some Locusts and burn them, they will be giddy with the sent, and some will die, others will fall down and may be killed, or will be destroyed by the Sun. You may drive away Locusts if you make pickle with them, and dig pits and sprinkle that pickle there. For before the day be past, if you come, you shall find them in the pits saft asseep, and I leave them to your wit how to kill them then. Locusts will touch nothing that is wet with Wormwood, Leeks, or Centory steeped in water. Democritus.

# BOOK IX.

s, fleas will never	of the	Secrets of	Plants.	State Chamber	wherein
(In Genera	ill, of thefe is spoken	, Chap.r.	wil nim	Mountain the hord	H CO AWA
reserved wastilue	rience. Dur your	Sever come	Generall,	Chap. 2.	oland all
Secrets of	mo) adr rol area cof	Trees ; in	comerce	Cof the Garden	Chan
Plants both in	of the wholes	DUNCTURE THAT	in Specially	of the Garden, of the Woods,	may if
and Spe-	1	content of		Cof the Woods,	Chap 4
lliw obciall,	White set 200	Shrubs 5	lap. S.	formit flaction	AHA.
Colla Car I coll	of the parts, See	the Mark,	A. Turning	San par Siring	deltroy
- wedshire for	Roots, Chap. 6.	is (oked, and	N .nov	12 Will DOC 12510	feet, Gn
cieto, Oxdang	tool of the Control	rall, Chap.	7-10" mis	frive them away	ties, will a
- long axila of	Leaves, in	Inclan	prout Grat	out the wals icc	dagogud,
De of the harris	C. will cather !	שב לווכ מפר	r hanged r	- will Vincer	Seconda o
to Kue in water,	Flowers , in		9. rismal		Gnats W.
Services.		11 61	A CHILD STREET	icidanc, and ign	T VADO 10

rietat. Rerum.

II E

E WE

III be

Mal.

Date

W.

を

100

中国日

20d

m

TÉ:

WI-

Speciall, Chap. 11.

Speciall, Chap. 12.

Shrubs, Chap. 14.

Plants, Chap. 15.

of Seeds, in Speciall, Chap. 16.

Speciall, Chap. 16.

of Wood, Chap. 18.

Of the Secrets of Plants in Generall. Chap. 1.

Generally feeds fown when the Moon increaseth will make Plants greater and with less taste, as on the contrary when the Moon decreaseth, that is from the full of the Moon, the Plants will be smaller and sharper tasted: hence I think it proceeds that great fruit are seldome so well relished and sented as smaller use to be. Card. de va-

How to make barren Plants fruitfull.

If a Plant be wholly barren, Aristotle adviseth, that the root should be divided and a stone put into it: for if the bark be thick, a temperate heat will make it fruitfull.

To preserve Plants from blasting.

Hartshorn and Ox dung burnt, will, as some say, keep Plants from blasting. Card. de Subtilit.

If Plants be molested with Wormes, they must be purged with a Brass Nail. Brass leaves a constant bitterness in the Plant, so doth Ox gall sprinkled upon the roots: for Wormes are fed with sweet things, and that gall is most bitter. The same.

Men say that the bough of a Nut tree gnawed with ones teeth, who first chewed Lentils, will kill the tree if it blossome. There is no other reason for it, than as if at these times the Plant should suffer violence, or the pith of it should be hurt within the bark: and the reason is plain, if Quick lime should be stuck into the principall part of the root; some likewise think, that if Bean Pods be laid about the roots, that they will hinder many Treessrom growing. Moreover you will kill Plants or Trees if about the Dog daies you bore them through with an Auger as far as the Pith, and cast in Oyl of Peter and Brimstone: for being hurt in the Summer they dye the some? Likewise if you cut the bark round at that time, they will wither away. It is most certain that the life of the Tree lyeth either in the bark or the pith: and both these are to be found in the root, body, and boughs, if therefore you cut unprofitable Plants at these times, and strew Brimstone and Ashes upon them, they will dye. The same.

Linseed put into Raddish roots, and presently set into good earth well dunged, will produce a Plant like unto a Dragon. The taste thereof will be like Salt and Vinegar, and therefore it is much desired in Sallets, for if you have that, you need neitheir Salt nor Vinegar, as I was told by one of the chief of the Kings Gardeners. Mizaldin.

Of the Secrets of Trees in Generall, Chap. 2.

You must dig about the Trees you set every Moneth untill they are three years old if you will have them grow suddenly. Cato,

西湖

智智品

1000

200

Hi.

¥H

M

的報信即即

1

18

照 於 題 阿

智智是百日日

西京田

20日日 10日日

To make Trees fruitfull.

Role feeds with Mustard feed, and the foot of a Weefil hanged amongst the boughs of a barren Tree, will make it exceeding fruitfull as some say. Mizald.

That all Trees may bring fruit much bigger, then ordinary.

Take an old plate of rufty Iron, and make it like to an Ox horn, that at the sharp end it may have a hole. Which being washed on the inside with pickle, put into it the Kernell of an Apple, Pear, or Peach stone, or of any other stuit, so that the part of the Kernell which begins to bud, may be toward the hole; then in the bottome fasten another plate very close, that it may bud no other way than through that hole. This being done, moysten all outwardly also with the same pickle: Then in September or Offober plant it, that the earth may alittle exceed the Iron : for when the Kernels inclosed begin to feel the moisture, and by degrees are moultned sufficiently : they will shoot forth their roots and sprouts, creeping here and there, and bending fo long in the place, untill they pass quite through; because the roots being by nature hard and fharp, creeping here and there, will prick, untill by help of the Earth that eats through, and makes the plate thin) they make holes that the roots may come forth. But the plant by growing and wandring about, will draw into it felf the tafte of the Brine, and the colour of the Iron; And when the Iprouts are forced to come out, they joyn together, and must necessarily glew into one, that of many fprouts one great branch is made, and by confequence must needs bear greater fruit than ordinary, which will be pleasant to behold. Alexim.

That fruitfull Trees may be made better.

The Lees of Oyl mingled with water, cast about fruitfull Trees will make them

Of Engraffing of Trees which is done under the bark, and into the stock. There are three waies of Engraffing, and one of them properly is called Sciencing, the fecond is called Infoliating, and the third Inoculating. Therefore Trees that have thick Rinds, and are full of juyce, as the Fig-Tree, Cherry-Tree, and Odive, that draw much moyfture from the Earth, are to be Engraffed near the Bark. But you must before you Engraff them, have a Pin provided of strong wood, that you may by little and little let it in between the Rind and the Tree, that the Bark may remain unbroken. For this is chiefly to be observed : then by degrees drawing forth the Pin, put in the Twig. This way is called Infoliation; But in Trees that have thin Rinds, and are dry, namely, fuch as have their moviture, not in the Bark, but within the Pith, as the Citron-Tree and the Vine, and all Trees of this fort that divide the moyft middle part, and lend forth shouts; this way is called Engrassing. But in both the forefaid waies you mult make a compendious Engraffing, that the Twig that is to be Engraffed may not dry up with too long delay. You must take your Graffs from the best and most vigorous and fruitfull Trees, cutting them off with sharp crooked Knives, from those parts that respect the North side; and they must be tender, and light, and full of Buds, having two or three tops: but at the bottom all united, they must be as thick as your little finger, and of two years growth: for Graffs of one year foon shoot forth, but they are unfruitfull; you must sharpen your Graffs at the but end with your Knife, as we use to cut a Pen to write withall, yet heed must be had that the pith be not dissolved, or diminished. The Graff must be fet in after that posture, that the Woddy part may joyn to the Wood, and the Bark to the Bark, and the Graff must be scraped and sharpned of equal magnitude to the cut made, and the hollow part it must be thrust into; wherefore it must be pared two fingers breadth. After the Engraffing you must take nothing from the Graff but leave it fo, only you must cover the place with Clay and Lome, close stopped in; Yellow Earth is unfit for this purpole; for it burns the bodies of the Trees. Engraffing is so needfull, that if a man shall Engraff shoots of Trees into the Trees themselves, they will be more lasting and better. Moreover the Graffs must be taken at the end of the Moon, about ten or more daies before you Engraff them, and laid in a Vessel well closed and stopped, that they may not evaporate and breath through. The Graffs must be shut up close, but that which is Engraffed must be ready to sprout; Wherefore

II

alghs

面面

Sec.

m

Wherefore you must take your Graffs ten or more daies before. I must tell you the reason why we do not presently Engraff the Graffs. For if the Graff being yet hot and moyit, thould prefently be fer into the Tree, the Graff must needs farink alittle before it unites, and so there will be some void space between the Graff and the cleft of the Tree whereinto it is let, to the Air will enter at the hollow places, and will not fuffer them to grow together. But if the Graffs fome daies before be flut up in into a Veffel, they will fhrink in the Veffel, as they would do after they are Engraffed, and after that when they are Engraffed, the bands will not relax, nor the Air enter, but they loon unite. Moreover the Graffs must not be set in when the North wind blows, but when the South wind; for it is plain that Rainy weather is good for Graffing, but ill for Infoliation: you multiurther know, that after the Autumnall Equinoctiall, untill the Winter Equinoctiall is a fit time to Engraff; also after the blowing of the West wind, that is from the seventh day of February, untill the Spring Solffice. Some say the best time for Engrassing is, presently after the rising of the Dog star, and again in Summer under the heat of the Dog daies. But if the Graffe be brought from a very far different they multiple carried in some Vallation Graffs be brought from a very far distance, they must be carried in some Vessel, and fluck into Clay, and the Veffel must be close stopped, that the wind come not at them,

and they shall evaporate in carrying. Florent.

Of Engraffing that is done by Inoculation or Emplastring.

Inoculation is fitly and well performed before the Summer Solftice. And I have Inoculated about the Vernall Equinoctiall, upon a clear day, when the Trees first began to bud, and it hit excellent well. The Tree must be cleanfed, into which the Seience must be inoculated, that is from its superfluous sprouts, and Moss, leaving the best and most hopefull boughs, into which you mean to Inoculate. Then you must take a Sprout of the most fruitfull Tree, that is of that Year, and of that, the Bud must be Inoculated in an exact place of the Stock prepared : but you must perfectly fcrape off the Rind: but the Wooddy part must be lest untouched and persect; For this is held to be very needfull. The best way is, to Inoculate the Bud that comes from the Twig, into the Eud of that Tree which is to be Inoculated, for that being cut upon the Stock, and the other fet into that, they will foon grow together. Also you may without a Bud make Infoliation upon some other part of the Stock, upon forme smooth place. The Barks of both Stocks, must be of equal thickness. So soon as they joyn. I presently cut away what is above the place, where the joyn, that it may fend no nourishment but into that only, that is joyned with it. But when the Twigs Intoliated have gotten three leaves, let the bands be distolved and taken away. And I oftentimes have not only Intoliated the Bud it felf, of one years Twig alone by it felf, but Heft the Bud unhurt upon the Twig, and I have (craped away the Bark that was behind the Bud, and when the wood was made to appear, as we ule to do with a writing Quill, and cut as it ought to be, Infoliated the Bud with that part of the Wood which remained, and I obtained a more fruitfull Tree by this Infoliation. Moreover it the wild Parcot the boughs be Engraffed into, they will bring twice as much scuit. Didym.

To remove and transplant Trees.

What concerneth planting of Trees, they must be fet at a handsome distance one from the other, that when they grow, they may have room to extend their boughs. For it you fet them thick, you can neither fowe under them what you might, nor will they be fruilfuil, unlest you pull up some between. When you will transplant them, before you attempt that, you must diligently mark what winds they lye open to, that you may Plant and set them in the same posture. When you do that, you must at the bottome of the Trench cast in bundles of Vine Eranches as thick as your Arm, so that they may lye alittle above the Earth. For in Summer, with little labour, you may water the roots by those boughs. But the best way will be, the Year before you will Plant, to dig your Pit, that the Earth may be well soked and prepared by the Rain and Sun, and fo it will foon take hold of what is let. And if you would make your Pits, and fet your Trees the fame Year, you shall dig your Pits at least two Moneths before, and afterwards you shall heat them with burning of Straw; and

1000

FOUR POOR OF THE

W.

新祖 所名 B · あ · 5 · M

the larger and opener you make the Trenches, the better fruit will your Trees bear. You shall open your Trenches like to a Furnace, that the bottome may be larger than the top, so the roots will have more room to spread : and cold in Winter, and heat in Summer will enter in at a narrow hole. But generally you shall so dispose your small and great Trees, that the weaker be not pressed by the stronger: for the weaker cannot be equall for strength or bigness, and it grows great in an unequall time. Moreover great care must be had, that after great Tempests and cold injurious times of the Year, you do not Prune or cut your Trees, especially those that bring fruit : and further that one Tree may not drip upon another, when the wind doth blow, especially it they be of different kinds : and that you do not open the roots in Summer against the Sun, or that the Sun may beat upon them, or any man take the tops of your Trees, pulling them down too hard with his hands, and that Cattle eat them not, for they will not grow afterwards, chiefly if they be young. All Shrubs before they be Transplanted must be marked with Sinoper; that when you fer them, may look the lame way, as they did where they first stood. Other wife they will fuffer wrong by cold or heat in those parts where they are set contrary to the places they flood in before in other ground. Wherefore the same Coast of the Heaven must be kept in the Transplantation, that the Northern parts may not be cleft, ftanding opposite to the South Sun; or the Southern parts of the Trees chil, being turned toward the North. Most men command not to Transplant any Tree under two Years, nor yet over three Years growth, and they think you must take heed that the roots wither not by too long delay: and that Trees ought not to be taken up from the North parts, or from that Climat of the Heavens as far as the Sun rifing in Winter, whilft the winds blow; or that their roots should be exposed to those winds, for that will kill them, and the Husbandmen will not know the reason of it. It is greed also to bring a great deal of that Earth where the Trees grew, sticking to their roots: and bind them all about with Turst. They must be watered so oftasit Rains not, and great heat continues, for so they will increase better, and be more fruitfull, and yield more pleafant fruit. Mizaldus from Columella, Cato and Pliny.

If you would prevent Blasting and Milldews ready to fall upon Trees; You shall burn much straw if you have it, or else pull up the Grass of Orchards, Gardens, or Fields, with Shrubs and Bryars, and burn them in many places; chiefly on that side the wind will blow: for so Disphanes writes, the mischief at hand may be diverted. Berstim in his famous School of Greeks Geoponicks, when he saw these gather in the Air, he would he saith, presently burn the less horn of an Ox, with Oxes dung, and so he made much smoke round about the Orchard or Field, and laid this against the wind. Apuleim writes, that the smoke of three Crabs burnt with Ox or Goats dung and Chass, is a present remedy. But if the Blasting prevents you; Berstims saith, you may repaire the loss thus. Bruise and insuse in water the roots or leaves of wild Gourds, or Coloquintida: and before the Sun rise besprinkle those plants that are Blasted. Fig tree or Oke ashes will do the same, insused in water, and besprinkled as before. Apuleim saith it will be good to stick some Bay boughs in great quantity, and to plant them about your Orchard or Field: for as I oft observed, all Blasting and danger will overpass them, and be gone; which is very frequent in dewy places and Valleys where the winds come not very much. Mizsid.

Against corruption that especially befals Vines, Plins bids us burn three live Crabs hung to the Trees or Vines. The Greeks against Frosts in Orchards, set Beans within and without. The same.

If any Tree be fick, you must pour to the roots of it Lees of Oyl, equally mingled with water. Also some say the chief help is, to pour about the Tree Dregs of Wine, or water of the decoction of Lupins, or to sow Lupins about the roots. Didmus and Pling.

WIL.

1. 海南部

自星

ethe

Fini

to the

120 the same

All

a your self the self

and . 197

11

10

in

For decayed fainting Trees. Ha Tree be flarved and faint, it will become more juycefull, if you dig about the roots and flock, and pour in stale Urine of a Man, or Beasts Pass. Paxin.

That a Tree may hand unbirt.

You shall preferve any Tree found and free from diseases incident to Trees, if you fprinkle Ox or Bulls gall about the roots, or laying the stalks of Beans or Pulfe about them, or the Stubble of Wheat to cover them, and fo catt the Earth over them again. Mizald.

Against the best of the Dog-daies, and mortification, ar rottenness.

If a Tree be tired with the heat of the Dog-daies and fo be endangered to mostifie, you must bid them that serve you pour to the roots three measures of water of three Fountains: yet so that the Moon hinder not the remedy. Or wreath about the stock of the Tree round, the Herb Symphoniaca, which Apuleius calleth Henbane, or Apollos Herb. Or make of that about the bottom of the stump a bed. If the Tree be mortified, and assonished as it it languished of a Consumption, annoint it with an Unguent, and you shall see it revive as it were. Democrit, and Mizald.

That Birds may not fit upon a Tree. That Tree will never be touched by Birds which hath a bundle of Garlick hanged upon the boughs : or is Pruned with a Pruning Knife that is Imeered with Garlick. Democrit.

For barren Trees.

If a Tree bloffome abundantly but brings no truit; if you drive a post of Oake or Beech into a hole in the root, and cover mover with Earth, it will grow fruitfull again. Zorossfer writes that Bean stalks cast about the toots will help it. Columella bids to bore a hole through the Tree, and to put into the hole a green stick of the wild Olive Tree, for so the Tree will grow more sertil, as if it had taken in more fruitfull seed. M. Cato thinks that you should mingle Oyl Lees with an equal quantity of water; and to pour that round about the Tree. If it be a very great Tree one Amphora of the mixture will be fufficient; if the Tree be smaller, you must pour according to this proportion in reason. If the Trees be fruitfull, this mixture will make them better. Africanus bruised well Purslane and Tithymale, and announted the stocks of Trees with this juyce, that they might thrive and bear more fruit, and fometimes he added Pigeons dung unto thefe. Mizald,

For Trees that let fall their fruit.

If Trees drop their fruit as it they were fick, and cannot hold them to maturity. Sotion a diligent Garden of Greece, and skillfull, pulled up Darnel which is called wild Tares, by the roots, and made a wreath of them, and wound them about the flock. of the Tree : or elfe he bound Sea Crabs about it with the fame Tares : or compaffed it in with a Hoop of Lead. Moreover he rid the Earth from the roots, and bored a hole in it, and beat in a Wedg into it made of the Dog-tree, and cast Earth upon it. Some lay the roots open, and cleave fome of the thickelt of them, and into the clefts they put a piece of a Flint, then they bind it, and cast in the earth upon it. Palladine Imeers the Tree with red Earth or fresh Lees of Oyl mingled with water, or elle he hanged a River Crab, with a sprig of Rue, or a bundle of Lupins upon it. The Same.

For Trees that let full their bloffoms or leaves.

If bloffoms or leaves fall from Trees, you shall help them thus, as you may find in the Greek Husbandry of the Quintilii; dig about the roots, and lay the stalks of Beans Recped in water about them, a great measure about a great Tree, and a small measure about a small, and so shall you cure the falling of their biosiomes and leaves. The Same.

Against Wormes of Trees. If Wormes hurt Trees, Florestius teacheth to defend them thus : Gring Torra Lemnia, called Sigillata, and Origanum with water, and with that mixture annoint the roots; or plant Squils round about. But if you drive in Pitch-Tree stakes about a Tree, the Wormes will dye or fall away. Hogs dung mixed with Wine will pre-

800

四部

姐.

西古艺

Ž.

域 HE 曲

floo

西西

51

serve a Tree from Worms, as Didymus writes in his Husbandry ; if you often cast it about a Tree, Pigeons dung may do the like laid about the naked roots. So will Buls Gall often cast upon the same : for thus a Tree will not soon grow old, nor will it easily breed Worms. Palladius pours on for three daies the Lees of old Wine. Mizaldiu. You shall fee more helps against the diseases of Trees, Book the fixt.

That Cattle may not burt Trees.

It is certainly reported that Crabs, and also Sea Crevice bound about Willows, and hanged also upon other Trees, will keep Cattle from hurting them : that proceeds partly from their ill form, and partly from their filthy fmeil : for all Cattle abhor the ill smell of a dead Creature, and sometimes of a living, if it be of the same kind. Cardan.

To destroy Trees.

To destroy a Tree, cut the Bark away round, for every Tree dyeth that is spoiled of its Bark : but some sooner, some later, as the Oak soon, and the Tyle tree, but the weaker Trees dye later. It is also to be considered, what times we do it, for in February and March they will dye presently: but in Winter strong Trees are longer dying. But the Cork must have the Bark pulled off that it grow not worse. So the weapon of the Sea Ray stuck into any stock of a Tree will kill it, and a menstruous Cloath laid to the roots, especially of a Wallnut Tree as Democritus writes. The Same.

To root out Trees.

You must bore a hole in the Tree, and pour in Boys Urine, or an Onyon, or thrust in a Myrtill Wedg, especially when it blossoms; or ridding the Earth from the root, you must lay on Dittiany, Beanes, or a menstrous Cloath; for so the Tree will conforme and dye. Some bore into the Pitch, and put in Quickfilver. Democritim shows how to root up a Wood; by Lupin meal one day steeped in the juyce of Hemlock, and sprinkled about the bare roots.

To kill Trees.

Pour common Oyl upon the roots, and the Trees will foon perifh, or make a hole as far as the Pitch, and pour in Quicklilver and Oyl, stop the hole with Wax and Chalk, and the Tree will foon wither. Fallopine.

That Trees may not be burt by Cattle.

Cast at least ten River or Sea Crabs into water for eight daies, shut them in, and let them stand in the Sun in in the open Ayr for ten daies, frinkle of this water upon those Trees you would have preserved for eight daies, and you will wonder at the virtue. Dogs dung mingled with most stinking Urine, and sprinkled on round, will do the fame. Democritus.

# Of the Secrets of Trees of Gardens. Chap. 3.

An Apple Tree of all Trees is most subject to Wormes, that is, to be eaten by them. ASea Onyon laid about it, will preserve the Tree from them. If they come by nature, Buls Gall, or Hogs dung mingled with Mans Urine, and poured to the roots will destroy them. But if they be hard to destroy, the Bark must be digged into with a Brass Pin, or scraping Tool, and rended, untill the point of it rake upon the Wormes, and drive them from the place: but where there is a place ulcerated, you must stop that up with Ox dung. Moreover if the best Apple Tree Plants be fet into the ground, their roots being annointed with Buls gall, that only their Tops may be extant above the ground, they and their fruit will be free from Wormes. Mizald. out of Pallad. and Anatol.

That a Tree may bear abundance of Apples.

If you would have an Apple Tree bring many Apples, bring about the Trunk of the Tree, a foot above ground an open Pipe of Lead cut; and when the Apples begin to bloffome, and the Trees to flourish, take away that Circle of Lead, do this yearly that the Tree may be fruitfull. Mizald.

XIV.

百百百里

, CE

TOD

Ton

TO

201

That an Apple Tree may not break with the weight of the Apples.

Because Apple Trees and many others use to be so tall with fruit, that they are in danger to break, and some boughs are torn off, you must prop them up with forks strong enough to support them. The same.

For Apples that fall.

If Apples drop down, cleave the root, and thrust in a stone and that will hold them fast.

For barren Pear Trees.

If a Pear Tree be barren and languishing, you may cure it, as Isaid before for other Trees. Many when the Tree grows great, use to rid the earth from it very deep, and to cleave the root near to the Truck of the Tree, and to drive in a wedg into the cleft, made of the Pine Tree, Beech or Oake, and then to cast in the Earth upon it. The same.

That the Pear Tree may not bring bard stony Pears.

If the Pear Tree bring forth stoney Pears, the Husbandry of the Quintilii bids

us to uncover the lower roots of the Tree, and to remove from it what hard earth we find there, and lifting fresh Earth, to lay it in the place of the former, adding dung to it; this will help exceedingly if you do not ceale from watering of it. The fame.

That a Pear Tree may bring abundance, and pleasant fruit.

If you would have your Tree bear more and more pleasant Pears, bore a hole in the stock next the root, and knock in a wedg of Beech or Oak; as Diophanes bids us: or else pour Wine Lees upon the naked roots.

A remedy for a sick Pear Tree when it blossoms, or that is troubled

with Wormes.

If a Pear Tree be fick when it blofloms, you shall help it by ridding the Earth from the roots, and pouring on old Wine Lees for three daies; and then cast the Earth on again. If a Tree and its fruit be tainted with Wormes, if you annoint the roots with Buls Gall, or Ox Gall often, they will all dye, and will never breed again. Mizald.

A remedy for a fick or barren Quince Tree, or any way amifs.

If a Quince Tree be fick, pour on Oyl Lees equally mingled with water, upon the roots: or temper Quicklime with Chalk and water, and fineer it about the flock of the Tree. It it be barren, Worm eaten or otherwise ill, turn to those things I have already set down for it in Generall and Speciall.

Aremedy for a Plum Tree, that faints, and is not fruitfull.

If a Plum Tree faint, and be not fruitfull, Oyl Lees equally mingled with water must be poured upon the roots, or Ox Pils, or Mans Pils only, that is stale, and equally mingled with water or Ashes of the Furnace, especially made of Vine branches. Falladim.

Against Worms that eat a Plum Tree.

If a Plum Tree be hart by Wormes or Ants, it must be annointed with red Earth

and Tarre.

A remedy for a Cherry Tree corrupting.

If you find that it begins to corrupt by realon of too much moyfure, you must make a hole in the body of the Tree, to let that moyfure forth; if there be Ants, pour upon it the juyce of Purslane, mingled with half as much Vinegar: or annount the stock of the Tree when it blossoms with Wine Lees. Pallatim.

That Cherries may come rare and betimes.

It will bring Cherries rathe, if before it bloffoms, you lay Quicklime to the roots, or hot water be often poured upon them; but the Tree will foon wither alter it.

If a Man Engraff a Vine upon a black Cherry tree, it will bring Grapes in the Spring time. Florentinus.

Y 2

That

100

I.

fy

京の

松

H IS

101

That a Mullberry may be more fruitfull and bring white berries.

Some write that the Mullberry Tree will be more fruitfull and Taller, if you

make a hole quite through the body, and put in two wedges, here of the Turpentine Tree, there of the Mastick Tree. If the Mulberry be Engrassed upon a white Poplar or Inoculated, it will bring white betries. Beryim.

To make a Peach tree flourish.

It will grow more pleafantly, if as foon as we have eaten the Peaches, we let the frome of them, leaving fome part of the fruit upon them. Florent.

If a Peach Tree feem to waste, you must mingle old Wine Lees with water, and pour that upon the roots, and often throw on fresh water, and water it in the evening, and making shades before it, defend it from the Sun that dryeth it too much, and it will be good also to hang upon it a cast skin of a Snake. If Worms trouble it, you shall kill them by mingling Ashes with Lees of Oyl, or Ox Piss with a third part of Vinegar. If hoar Frosts oftend it, lay dung to it, or Wine Lees mingled with water; or which is better water wherein Beans are boyled. Broom bound to it is profitable against all Inconveniences, or else Broom hanged upon the Boughs. Mizald.

That Peaches may not fall.

If Peaches drop off, uncover the roots and drive in Pins of Turpentine or Mastick wood, or make an Auger hole in the middle of the Tree, and drive in some pins of Willow. The same.

To make one fruit of a Peach tree, and a Nut Peach. You shell compound a Peach and a Nut Peach by insition, which Husbandmen call Engraffing, as when you take new fruitfull shoots from the Peach Tree and the Nut Peach, and such as foreshew great hopes of prospering well, marking them round about two fingers breadth, that the Buds may be placed in the middle, fo you shall with a sharp Knife take off the bark from the wood, cleave these in the middle, that being joyned close, they may grow together, and the place where the cleft was, may not be seen, but that it may appear one bud; Engraff one of these on that part of the Tree that seemeth fairest, and most likely, cutting away the rest, that they may not draw away the nourishment, that it may be sufficient for every Graff: open the bark that the Knife may not hurt the wood; and cut round fuch proportions as the bud requires, and fit it in so exactly, that it may equal the part cut away: bind it about so that you hurt it not: you must defend the cleft with Clay and Lome, laying something upon it that the Rain do not fall into it, so it will grow, and the fruit will be of a middle kind retaining the nature of the Peach, and the stone Peach, for it will be like to them both, which the Trees severally did never afford. So Pomegranates may be sweet upon one side, and four on the other. And Disphanes bids us Engraft Apples upon pleafant Pear Trees, and fuch he calls Mirapidia. And Apples are Graffed with Quinces, and they produce most gallant Apples called by the Athenians Melimella, as Diophanes also writes. Likewise severall kinds being mingled, as Citrons with Lemmons, and sweet Oranges with sour, will produce half fweet and half four; a Peach compounded of a red bloud colour and white; fo are your Honey Apples, and the rest brought forth by a various way of increafing. The litme.

An Almond Peach.

Al'o with great diligence a fruit is produced, that outwardly is like a Peach, but it tasts inwardly like a sweet Almond, which we may well call an Almond Peach. Take a twig from the Peach Tree, and if you Engrasse this into a sweet Almond Tree, and the bud that springs from thence be Inoculated into another, and you do this three or four times, you shall have a Peach that inwardly hath a sweet Kernell. An ingenious Artizan may compound many such things; it sufficeth me to have shewed you the way. The some.

The Medlar Tree being old is often troubled with Worms, which are greater and different from Wormes of other Trees: they must be cleanled with a point of Brass.

all a

Por

100

270 臣自

m

ndi

is of

Of

Brass, and Oyl Lees, or Mans Urine that is stale, or else you must pour on Quick-lime, but sparingly, that you hurt not the Tree. The water of the decoction of Lupins can do much to this purpole Mizald, ex Pallad.

That Medlars may not drop, nor Ants be troublesome.

If Medlars drop down, cut a piece from the root of the Tree, and faften it into the body of it. If Ants trouble it, you shall kill them with Synoper temperal with ashes and Vinegar. The fame.

How to help an old Nut tree.

If you would help an old Nut Tree, water it thrice a Moneth for a whole year with Lee. The Same.

How to make bitter Almonds fweet.

Theophrafim faith, and Pliny from him, that of bitter may be made fweet Almonds. if you dig about the Rock, and make a hole about the bottome of it, and wipe away all the foul matter that fals down. Africanus feem to warn us of it in his Georgicks writing thus; of bitter you shall make sweet Almonds, if you dig about the Trunk, four fingers from the root, and make a hole, by which the juyce may yearly pals forth, untill fuch time as the Almonds grow fweet.

That the Almond tree may bring abundance of fruit.

If an Almond Tree continueth to bear leaves and no fruit, bore a hole in the body near the ground or rather near the root, and stick a Pin of a fat Pine Tree into it, and pour on mans trine, and then cover it with Earth, or fo flick in a Flint, that the bark may cover it close. Also it will yield more fruit, if an Iron pin be knocked into the Tree, and when a hole is made, an Oken pin be forced into it. Mizald. ex Pallud. Theophraft.

Against hore frosts of the Almond tree.

Where there is fear of frofts, before the Almond Tree flourish, dig round about the roots, and lay them open, mingle very small white stones with Sand, lay them there, and when the time comes that it should bud, dig them again, and remove them thence. The fame.

That the Fig tree may not lose ber fruit.

Stop Rams horns about the roots of it, or scarify the body of the Tree where it fwels most, that the moysture may run forth. The same.

Against Wormes of Fig trees.

If the Fig Tree be troubled with Wormes, we must set a bough of the Turpentine Tree, or stalk of the Mastick Tree, with the Fig Tree, the top being turned upfide down. Quicklime ffrewed at the roots or put into hollow parts of the body will destroy them. Some pull them forth with Brazen Crooks. Others rid the roots of earth, and they pour on Lees of Oyl or old Urine : Bitumen and Oyl are good allo. The Same.

That the Fig trees may bold their green Figs.

That Fig Trees may hold their green Figs, do all things as I skall say concerning the Olive Tree; and this besides: When the Spring comes, ram in the Earth well and the green Figs will never fall; the green Fig Trees will not be rugged, and will be more fruitfull. Care.

That the Olive tree may bear her fruit.

If the Olive Tree bear not fruit, rid away the Earth from the roots, then lay ftraw about them; Also add as much water as Oyl Lees together, then dig about the Olive Tree; for the greatest Tree four gallons and a half are sufficient of that mixture; . leffer Tees must have a reasonable proportion. If you do this to Trees that are fruitfall, they will never be the better, add therefore no ftraw to them. M. Cato.

### Of the Secrets of Trees that are wild. Chap. 4.

To root out wild trees.

Steep Lupin meal one day in the juyce of Hemlock, open the roots, and pour this in, Or about the Dog daies bore them into the Pith, and caff in Oyl of Peter with brimftone. Democrit. and Plin.

di

Pa

60

01000

18-18

Of the Secrets of Shrabs. Chap. 5.

Of Engraffing of Vines.

He that will Engraff a Vine, must chuse a thick stock, that can receive one or two branches; some Engraff within the ground descending about half a foot deep, and they make their Engraffing almost in the lowest part of the Vine; Some Engraff upon the ground which is best; but what is Engrassed above the ground seldome knits, being still shaken with the wind. But if we must needs Engrass above, by reason of too much smoothness below; you must have a stake prepared, and bind that to it which is let above, to provide against the winds. Some Engraff near the top of the stock. If you Engraff a Vincinto a Cherry Tree, you shall have very early Grapes; for at what time the Cherry Tree uleth to produce her own fruit, the will bring Grapes also, that is in the Spring. The time of Engraffing is the Spring, when the lce is past, that when the Vine is cut, it may yield neither much liquor nor very watry, but that which is thick and clammy. The twigs that must be chosen to Engrass, must be round, solid with thick buds, chiefly from the Arms of the Tree. Two or three buds are sufficient for a branch : but if it be to be covered with Earth, then three or four. Moreover it is not convenient to cut above two twigs from one branch to Engraff withall: for whatfoever is left after the first seaven buds, is unprofitable and barren. But new twigs will grow together faster that have some part of the twig that was of the year before. Nor do we presently Engrass twigs taken from the Vine, but after they are cut, we cover the Wound, and lay them in a Vessel, that they may not evaporate, yet before they begin to bud, and whilst they are yet shut, we must Those that are Engraffed into the Earth, at the bottome of the Vine, Engraff them. will be fet in faster, lifting up the Earth withall for their nutriment, but they will be longer before they bear, as other Twigsplanted into the Earth. But those that are Engraffed higher will hardly fasten, being alwaies shaken with the winds : yet they will fooner bear fruit where they do grow. Those twigs that are set high above must be smooth and plain, as thick as ones Thumb, but you must make the roughness of it Imooth with a sharp Pruning Knife. Moreover the Graff that must be set in, must be taken away two fingers and half in length upon one fide as we see Men cut Writing Quils, so that on one part the Pith may appear unburt, and on the other side the bark. The whole Graff must be set in as far as it is pared, that there may be no space void between the Stock and the Graff, and if it gape, it must be filled up with Lime and Potters earth, which will hinder the keeping of the moysture that is in it. Moreover the part of the Stock which concerns the cut, must be bound about with a band : it must be single, and no knots in it, and then it must be smeered over with clammy Earth. Some mingle Ox dung with the Clay. Those that are thus bound we water their band with a Sponge about twilight in the Evening, in the greatest heat of Summer. Eut when it begins to bud, and is about four fingers long, you must fasten a Vine prop near it, and bind it to keep it safe from the wind. When the twig is encreased, you must cut away the band with your Pruning Knile, to free it from being kept too ftreight, and the moysture may pass from the body to the branch. But when the Moon is in the Waine, you must cut your Grasts to Engrass: for fo they will be stronger. Some Engraff not only in the Spring, but after the Vintage. For then the Vine hath more force. Florent.

Of Engraffing by boring a hole. I think the best way of Engrassing is by boring a hole : for the Vine wherein the Engraffing is made, will then not remain idle, but will also bring fruit, and the Graff that it nourisheth increaseth also, the Vine being nothing endamaged by the boring of it; nor is it pressed by binding. Engrassing by boring is made thus. Fore a hole in the Stock of the Vine with an Auger called Gollien, and cut off a branch of the best Vine that groweth near, and put it into the hole, it must not be cut off from an old Vine, for so the twig will live, nourished by its old parent, and will also joyn into one with the flock. that receiveth it, but will not perfectly unite untill two years. Then thefore after that the feat is made, you must cut away the Twig that Ilk

CHIL

10

中国のはは

200

rid

ini

m1

はははいるははは

was taken from an old Vine, as far as it holds of its former Parent, and cut away with a Saw, the stock of the Vine into which the Engraffing was made, so far as it sticks forth above the place boared. And for the suture the Engraffed twig shall remain to be a part of the principall Vine.

That she same Bough may have divers Grapes, that is, severall, some white,

You must take two different Twigs of diverse kinds, and cut them through the middle, observing this that the clest come not into the buds, and that no part of the pith fall out; and you must so joyn one unto another, that the buds may fall into one, and touch as near as can be, that two buds may become to be as one. Then you must bind the twigs fast together with Paper, and wrap it over with a Sea Onyon, or the most platinous earth, and so plant it, and after three or five daies past, water it, untill it begins to bud and grow. Didym.

That a Vine may bring late Grapes.

You must take away the boughs that first spring forth, and others will breed in their places. Take great care of the Plant, and it will bring forth new sprigs, these coming to maturity, will be late to bear Grapes. Wherefore put those boughs into Earthen vessels with holes at the bottome bored through, and cover the upper part diligently, and bind the vessels to the Vine, that the winds may not shake them. Figrentinus.

Some make Grapes without stones thus: They cut lightly and equally that part of the twig that they mean to set into the ground, and with an ear picker they take forth all the pitch: then they set the twig bound about with moyst Paper. But it were better if all the part of the twig that is to be set under the earth, were set into a Sea Onyon and then Planted. For the Sea Onyon is good both for the Birth and uniting of it. Some cut the Vines that are already fruitfull, and they pick forth the pith of the boughs with an ear picker, as much as they can, taking it forth very deep, not cleaving the twigs as I showed, but leaving them entire, and they pour in the juyce of Cyrenian Laser dissolved in water, or new wine boyled thick, and they bind the twigs round to the roots, that the juyce may not run torth. Every eight daies after they pour in the same juyce into the branches, untill they bud, you may do the same with the Pomegranate, and Cherry, if you would have them both grow without stones. Democrit.

It is manifest that the Theriacall Vine is good for many things, and especially for the bites of Serpetis. I shall shew you the way to make it. The boughs of the Vine that we would plant, we cut the lower part of them three or four fingers, and taking forth the pitch, we put into the twigs the confection called Theriaca, then we wrap up the eleft parts in Paper, and plant them. They that would be more diligent in this matter, put the antidote into the roots also; we may make a purging Vine the same way, if we'll put Hellebour into the cleft twig. But you must know that a branch taken from a Theriacall Vine to be planted, hath not the same force: for it saints, being transplanted and removed or Engraffed, namely, the antidote with time being evaporated and gone. Wherefore the antidote must be scasonably smeered about the roots. Florentinus in his Georgicks.

That a Vine may not breed Lice, nor Catterpillars, nor be endangered by Lice.

Annoint the bark with Bears fat, and the Vine will breed no Lice: or annoint the pruning Knives, with Bears greafe, and let no man know it, namely those, you will prune the Vine with, and neither Lice nor Ice will trouble the Vine. But annoint the Knives with Oyl, wherein there is Garlick bruised. But if you boyl in Oyl those Caterpillars you find upon Roses, and annoint your Knives with that, the Vine will suffer no hurt by any other living Creatures, nor yet by hore Frosts. Or annoint your Pruning hooks with Bears grease, or the bloud of Frogs. Or whet your hooks on a Whetstone that is first smeered with Oyl and Ashes. Vine branches burnt and mingled with Vine drops and Wine, and see in the middle

of a Vineyard, will fuffer no Wormes to breed there. Aphricanus.

Lay dry dung in divers places of the Vineyard, according as the wind fits toward the Vineyard, and where you fee Frost lying upon it, burn your dry dung. The smoke that ariseth thence will disperse the Frost. But those Vines that are most easie to be scortched by Frosts, must be pruned latest, (because pruning moves them to bud) and so they will put forth later; As therefore Horsetail, so the Vine will little sear Frosts, because as I suppose, it springs up late, when the Sun is of some heat. Some set Beans in Vineyards, and they think that will preserve their Vines from

Frosts. Diophanes.

Against Frosts of Vines, a remedy of the same Author

If it fall out that Vines are hurt by frosts, and it is plain that the Grapes are spoiled, they must be cut, and that very short, that their force may continue. So the next year they will make amends for the fruit of the former year. Some by experience in Birbraia affirm, that when frost is suspected, it is good to cast about with the wind the Ashes of the Tamarish tree, and if that cannot be had, of any tree whatsoever, for the Ashes falling into the buds of the Vines, drives away the frost that is ready to fall down.

Against Blasting of Vines.

Whenas you see blasting gather in the Ayr, burn immediately an Oxes left horn with Cow dung, and make much smoke round about the field as the wind sits, that the wind may drive all the smoke toward the blasting; for the smoke will disperse all ill Ayrs. Apuleius saith, That three burnt Sea Crabs with Ox dung or straw, or Goats dung, will sufficiently help by their smoke. Berytim.

Cleave the stock with a paring Knife, Saw, or Oaken Wedg, which is best, and put a stone into the clest, to keep the parts of the stock as under, and pour into it old Urine of a Man, about four heminas, so that by degrees it may run through all the stock, that the roots so watered may be recovered. Then cast in dung mingled with Larth; But they that put the stone into the stock must dig and turn away what is about the roots. The time to do this business is in Autumn. Democrisus.

You shall know Vines that are assonished.
You shall know Vines that are assonished, because their leaves are very dark and red. You shall help them it you make a hole in the stock with an Auger, and put in an Oaken pin into the hole, or if you break away alittle of the root, and thrust in a stick and east Barth about it. So shall you help your Vine. Others water such Vines, with Sea Water; Some annoint these and all others however they are affected, with Oyl and Bitumen mingled together. Others as they sound by experience in Bitbynia, how they ought to help Trees that are mortissed, penetrate into the stocks with pins. Some pour Mans Urine upon the stock and roots. Cassianus.

You shall cure a Vine that is sick with Ashes of Vine boughs, or Oak, mingled with Vinegar, and spread about the body of the tree. Mans trine is exceeding good also powred upon the roots. But some cut up sick Vines hard by the ground, then they lightly cover them with the Earth that lies about them, mingling a little dung therewith, and when the tendrels bud forth, they root out the weak ones, and maintain the strong ones, and also the next year chusing the most sit shoot of those that that are left, they take away the rest. Demageron.

For sick Vines.

Vines that weep much, so much as one can hardly believe, cast out that which is not distributed into the whole body of the Vine. We must therefore cut the stock with a pruning hook, and make an Ulcer or hollow hole in it. If this do no good; we must also cut holes in the thickness of the roots, and we must seeth Oyl Lees to half, and annoint those wounds therewith. And we must annoint the hole that is under the cut, without also, for this is approved to be much the better. Some

kli

D

de la la 500

阿

heat

from

E REE

Pinc Visi

T.br

印刷

hom

i, a

221

ald

盐

WILL.

dis.

lik

175,

ile

WI

For weeping Vines.

For weeping Vines.

For weeping Vines, which you shall know by their whitish and dryish leaves, also they have large broad branches that are tractable as Thongs. You shall cure these with Ashes made up with Vinegar to annoint them about the bodies, and sprinkling it round about the stock of the Vine. Also the Vines themselves must be smeered with Vinegar and Ashes made up to an Unguent. Some pour on Sea water upon the roots. Some take care to cut off the tops of the boughs, and to hinder it that way. these Vines are called by the Greeks Rhyades, because by reason of their weeping they contain no fruit. The Same

For Vines that corrupt their Grapes.

Some Vines there are that will corrupt their fruit fo foon as it is new come forth, before the Clusters can be fed together, and come to maturity. Such are to be cured with leaves of Purslane. Others mingle Barley flower with the juyce of Purslane, and smeer that about the stock. Others annoint last the Cluster with Purslance. Some cast four heminas of old Ashes upon the roots, or elfe Sand. Varro.

To foresee whether a Vine will be good and finitfull, or bad. Take one fingle Grape between your fingers from the Clufter gently. thing leap forth, it shews fruitfullness. Some promise that if there be much Corn, then that all most fruit shall abound. Moreover we conjecture that Wine will be good and strong, if there be many showers in the Spring-time. The same is foreseen when thowers are constant, Grapes being at that time about the bigness of Tares, and are yet fower. But Rain that comes about the time of the Vintage, will not only make watry Wine, but ill and unfavory Wine. Democrit.

Of the Secrets of Roots. Chap. 6.

To make Rape-roots exceeding great. Rape-roots will be very great, if the Plant be taken forth of the earth a finger deep, and then the Rapes be more gently covered in their furrows, only caffing the earth upon them. Cardan.

To make a Raddish sweet. If you defire sweet Raddishes, you must for two daies before, steep the Seeds in Honey and water, or juyce of pressed Grapes, or water and Sugar, and when they are dry low them. Florentinus.

To make Raddishes greater. If you defire to have greater Raddishes, take away all the leaves, and leaving only the tender stalk, cover it often with earth. Pallad.

For field fleas that hurt Raddiffes. Because Raddishes are often burt by field fleas, the way to keep them safe from them is to fow Tares amongst them. Theophraft.

That Garlick may grow freet. Garlick will be more (weet, if in planting of it, Olive stone Kernels be mingled with them, or if the Cloves of Garlick be gently bruised, when they are set in the ground, or Lees of Oyl be added to them when they are planted. Sotion.

If Garlick be let in the ground and dug up again, when the Moon is under the horizon, it will quit its bad fent, and they that eat it shall never spoil their sweet breath, Sorion and Pallad.

How to take away the ill fent that comes by eating of Garlick. The ill fent by eating of Garlick is abolished if you car raw Beans after it; Others cat a Beet root rofted in the embers after the Garlick. Didym.

To make a Leek grow monitrous great. If you prick the head of a Leek with a farp quill or reed, and hid a rape or Cucumber feed in that hold, the head of the Leek will swell so great, that it will seem a wonder. Mizsld.

Against theill sent of Lecks. He that eats Cumminfeed first, shall never breath forth the stinking ill smell of Lecks, though he eat Lecks in abundance, for the eating of that takes away the ill-Icne of this. Sotion.

Rack

袖

图 图

古の

四日 日日

西田

To counterfeit a Mandrake.

You must have a great Bryony root, which is often fold by Impostors to foolish Women, and by Juglers; upon this with a sharp edge of a Penknise carve the form of a Man or Woman, adding the privy parts. When you know it is perfect, prick with a Bodkin the groins or places of hair, and put in Millet seed or some other small feed into it, which shooting torth may be like unto hair, and then digging a pit, leave it there so long, untill it hath gotten a certain skin over it, and sent forth its small roots like hairs. The same.

## Of the Secrets of Herbs in Generall. Chap. 7.

Por Herbs will not be bitten by fleas, if you mingle a few Tares with them when you fow them. But this is chiefly convenient for Raddish and Rapes. Others ule a more natural help, fowing or planting of Rocket therewith, and especially with Coleworts, for these are most obnoxious to fleas. Anatolius.

Steep Vine tree Ashes three daies in water, and then besprinkle the Pot Herbs therewith, or smoke them with Bitumen and quick Brimstone. Also there will be no Caterpillars if you steep the seed in a Lee of Fig tree Ashes before you sow it. Caterpillars already bred are to be destroyed with Piss and Lees of Oyl equally mingled, and boy led on the fire, and sufferd to cool again, and so sprinkled on the Pot Herbs. But if you take the Caterpillars of another Garden, and boyl them in water with Dill, and sprinkle that water cold upon Pot Herbs, you shall destroy all

Caterpillars that are there. Anatolius. To help Herbs.

All Pot herbs are generally helped if you fow Rocket feed near them. Fronton.

Goofe dung diffolved in pickle sprinkled upon Herbs will kill them for Goose dung is very offensive to them. The same.

## Of the Secrets of Herbs in Speciall. Chap. 8.

Lettice will spread it self broad if it be sowd very thin; or when it hath a branch, let that be cut gently, and a Clot of Earth laid upon it, that it may not run to stalk; for it being restrained by that waight, when it cannot run up high, it is forced to spread abroad. Mizald. Florent. Columes.

If you would have handsome Lettice, two daies before you take them up, bind their leaves, that is the upper part, that will make them white and fair. Also Sand strewed upon them makes them white. Florent.

You shall make Lettice low, that hath its leaf turned round, and the stalk like an Apple; our Countrey men call it, Apple-wise, or Cabbage-Lettice, if you transplant the root, when it is grown a hands breadth high, taking the Earth from it, and daubing it with Ox dung, and making a heap about it, you water it, and when it groweth bigger, and the plant springs forth, you cut it off with the edg of a Knise, and an Earthen pot not pitched be over it, that it may not grow long but large. The same,

You shall make Lettice sweeter, if you keep down the sprout, and make it come forth, by refreshing the Earth about it. The same

Lettice will come forth well fented, if you pur Lettice seed into Citron seed, and so sow it in the ground, the same may be done if you steep Lettice seed some daies in sweet water. Florent, and Mizald.

That Lettice may have many tasts and formes.

Take Goats or Sheeps dung, and though it be but small, yet make a hole in it, and empty it carefully, and put into the empty place feeds of Lettice. Cresses. Bable 1

Rocket.

# IX

Pitt

THE 000 Rocket, Radish, or what you please, close and thick, and set this not above two small hands breadth deep, strewing first some fine tender dung under it, then heaping thin earth about it, water it by degres, and when it is spring forth besprinkle it with water, daily strewing dung upon it, and when it runs to stalk, use far more diligence and you shall have Lettice grow together with the other seeds were set with it; Others break two or three small Bals of Goat or Sheeps dung, and mingle the seeds with them, and they wrap them all in a small linnen cloath, water them and set them in the Earth, and using such care as is needfull, they produce a Lettice of divers forms and tafts. Didym.

To make a Lettice grow from many feeds.

If we pull away the leaves of Lettice that are next the root, and in each space, we hide a feed, as of Bafill, Rocket, Creffes, and the like, mingled with dung, there will fpring from them all, a crowned Lettice stalk. Palladim.

That Beets may be white and larger.

If you would make Beets larger and whiter, cover their roots with Ox dung, and as with the Leek cleave the sprout, and put in a broad stone or Tile-sheard. Solion.

To make Cabbage excellent for tafte and big nes.

You shall make Coleworts great and of singular taste, it you first of all fow them in a Parinip, and then it you cut away the small branches that come forth of the Earth, and fuch as rife up very high, casting sresh Earth upon it, that nothing may flick forth, but the very top; being often drefled and dunged it will thrive the better, and will bring up a branch of greater increale. Maild.

That Smallage may be with very broad leaves and criffed.

Smallage will grow very great, if you bind into an old wollen Cloath as much of the feed of it, as you can take up with three fingers : and then covering it with dung, you presently water it; Likewise Smallage will be very great, if you dig about the roots, and cast straw there, and water it. But it will crisp, if the seed before it be fowed, be gently bruiled in a Mortar, and then it be roled with a Roler. Florent.

Suddenly to produce Garden Smallage or Parsty.

Let the feeds be of one years standing, and when Summer comes, steep them in Vianegar, let them stand a while in a warm place, then open the earth loose, and put them in, and mingle burnt Bean stalk ashes with them ; then sprinkle alittle Aqua vita upon them, and having often watred them thus, cover them with a wellen cloath to keep in the heat; fo in a very short time in few houres they will spring out of the ground; remove the Cloath and water them, and the stalk will come forth longer, and will make men wonder at it. The fame.

That Sparagus may grow in great plenty.

If you would have plenty of Sparagus, fill the furrows with wild Rams horns beaten very small, and water it; Some say contrary to this opinion, if the horns be left whole, not broken in pieces, but bored through and fet, they will bring forth Saragus. Didym.

To have Sparagus to eat all the year.

If you defire to have Sparagus all the year; when you gather the Sparagus, cut prefently the root upon the superficies of it, for the Plant being thus handled will bring forth Sparagus again. The fame.
That no bind-weed may be in the Vineyard.

That no bind weed may grow in a Vineyard, take Oyl Lees, and purifie them, put two measures into a brass Cauldron, and boyl it at a gentle fire, stir it well with a stick, untill it be as thick as Honey; then take a third part of Bitumen, and a fourth part of Brimstone; beat both of them severally in a Mortar; then strew them very fine into the hot Oyl Lees, and mingle them with a stick, and boyl it again in the open Ayr. For if you boyl it in the house, after you have added the Bitumen and the Brimstone, it will boyl over, when it is as thick as Birdlime; let it cool, an-noint the head and body of the Vine with this, and no bind-weed will run about

Z 2

Book

西西西

OCCI

ESS W

1000

Etoss

Two Two

Hill

max.

whi

WEAT HOCK

fori

古地地を大い

bear the Box part with the the total

Some report, That if with a Copper fork dipt in Goats bloud, you dig up Grass, it will never grow again. Cardan.

Of the Secrets of Flowers in Generall, Chap. 9.

To make Flowers and fruit come forth Suddenly. Chule what flower you please, it is all one, for it will do the same with all. If you will have a Rose before its time, about Otiober, set Quicklime about your Earthen veffels into the Earth, well fifted with a Sive, and mingling dung with it made foft, you shall twice aday cast hot water upon it, and if it be windy or rainy weather, bring the pots into the house, and at night carry them to stand in the open Ayr. When cold frosts and Winter showres are gone, and the Ayr is pleasant, fet them in the Sun, if the day be clear. When time requires it, and the Spring begins to come, and the Bud offers to sprout forth, pour on hot water; for it delights in continuall and eahe watring; fo will that come out first which is the last of the Spring flowers. You must consider that if the Winter be mild, it will bud before the time, and if the South wind blow, and is not cold, and bringing Snow with it; (as Theophraftus writes) When the force of growing, and the fertill moysture is affoarded it, some-

Tomake Spring or Summer flowers keep untill Winter, If you bury Plants with their roots, amongst Wine Lees, of which the pils are taken away, or elfe in Horfe dung often renewed, thefe will bring you most gallant flowers

times of it felf, fometimes from the refidue of the humour, whereby fruits fpring

in Winter. Mizald.

out. The same.

Of the Secrets of Flowers in Speciall. Chap- 10.

To keep Roses feesh. Chuse Roses and other flowers, not when they are fully open, but when they begin to open, wrap them in liquid Pitch, and cut a Cane and put them into it, and bury them in the open Ayr, in a place that is steep, least the Rain falling down should hurt them; or cleave a green Cane, and put the Rose or slower into that, and take care to make the cleit unite again, fo you shall rejoyce to find that you desire. Or else thus. Make an Oaken vessel, fill it with flowers, and Roses that are not yet open; let it be well covered and Pitched, that no water may enter. Let this down into a Well, or Ciffern, or Brook of running waters, for there they will corrupt lefs, and they will continue long fresh, being faut when all others gape wide, stick the stalk into an Apple, or steep it into Vinegar, setting it in the Sun. The fame.

You shall keep Roses fresh thus: Take Wine and Salt what is needfull, and pour them into an Earthen pot, then fill the pot with Roles you would keep, (but you must gather Rose buds not open) put a cover upon the Pot, and set it in a Cellar. When you would use them, open the Vessel and take them out, and set them in the Sun, or an Oven, that they may open, and you shall have as fair sweet Roses as if they

were new gathered. Gaspar Schwenckfeld.

To make a Rose sweeter. Roses will smell sweeter if you Plant Garlick by them, for such things as languish by cold, are recreated by heat. Didym.

To bave Rofes betimes. If you will have early Rofes, you shall dig about them two hands breadth, and water them with hot water morning and evening. The fame.

To have Roses every Moneth.

He that defireth to have Roses every Moneth, must plant, dung, and water them every Moneth : but this cannot be had in Northern Climats. The fame.

An early Rofe. Early Roles are procured otherwife, either planted in Earthen pots or Baskets; and deal with them, as I shall shew you to deal with early Gourds and Cucumbers. The Same.

IN

100

dt.

You

oth

日前日の

let

To keep Roses fresh and green.

You shall keep Roses fresh and lively, if you put them into Lees of Oyl, that the liquor may fwim above them. Others pull up green Barley with the roots and all, and put it into a Vessel not pitched, and they put buds of Roses into that, cover and keep them there. Others cast green Barly upon the pavement, and lay Roses not yet open upon it. The same.

That a Rose may spring forth in January.

If a Role-tree in the middle of Summer be watered twice aday, Democritus faith it will bring forth Roles in January.

That a Rose may grow when Apples do.

If you Engraff and inoculate a Rose spring into the Bark of an Apple Tree, Florencia nus writes, it will bring Rofes when Apples are ripe.

To make white Rofes.

When Roles begin to open, Imoke them with Brimstone, and you shall have them

That Roses and Jasmin may be yellow. Didymus.

I shall shew how by Insition Roses and Jasmin may be made yellow : because Broom flowers are the yellowest of flowers; we strive to make Roles and Jasmine as yellow as they; and fince Broom is not to be Engrassed by Twigs, or Infoliation, therefore we plant the Rose near to the Broom, and we transplant it with its natural Earth, for they will grow more willingly in their Parents bosome, than with a step Mother; and we make a bole in the Plant, and when we have cleanled the hole, we scrape it all about and set it in, and fasten in with Clay wrapt about it, and bind it. After this when it is restrained by the growth of the flock, we must separate it from the root, and cut off the stock above the Engrassing; fo will the Rose very handsomely grow yellow, and so Jasmin is so comely and shining with yellow colour amongst us, that it will dazel ones eyes. So it pleaseth us on all fides with divers colours that it is joyned to. The fame.

To make a Rose green, yellow, and blew. It may be done Now let us see if a Rose can be made green, yellow and blew. It may be done us. On the outside we cleave the stalk near to the roots, as we do Roses, and all the branches of it, and we thrust in plenty of colours, for green, Verdigrease, for blew, Indigo, or a stone so called, for yellow, Saffron, but they must be made into very fine pouder: yet take heed that you put in no Orpiment or any venemous colour, for that will destroy the Plant; after this dung and dawb it in, and it will colour

the flower carrying nourishment with it.

To colour Roses or Gellistowers in a short time with divers colours.

Take the fattest Earth as much as you please; dry it well at the Sun, untill it may be made into very fine pouder, then when it is put into some Vessel, plant some slip of a white flower into it; But take care you wet not the Earth with any other water than with these that follow; wherefore if you would make white flowers red, take Brasil Wood cut very small, as much as you need, and boyl it in water untill a third part be confumed, or a fourth part, and the water will be red; with this twice aday water the Earth Morning and Evening cold : this must be done so long untill the Plant begin to grow; namely, for fifteen or twenty daies. If you defire green ones, take instead of Brasil ripe berries of purging Thorn; if yellow ones, take untipe berries of purging Thorn; if black ones, Gals and Vitriol, and boyl them in water, water the Earth therewith as Haid before. But take heed you leave them not abroad in the night, because of the dew that it will easily suck in. But the flowers will not be perfeetly died, but partly will have their naturall, partly an artificiall colour, mingled of them both. If you would have them of three colours, in the morning water them with one coloured water, and in the evening with another : and the next day water the Earth died with another coloured water in the morning, and with another fort in the evening, fo that morning and evening they may be watered with two different colours, yet fo that the fides may vary: which will be done if you do not pour on the water in the evening on the same fide of the Earth you poured it on in the morning; and so this Plant with its own naturall colour will have three colours, and

此儿

You

日本 100mm 1

MARIE TO STATE OF THE PARTY OF

For

priorite TOUR ME

with O

POE É EVE kio.

The Ty.

la

TINT

of this many more may be produced. Alexins Pedemontanus.

That the crown Gellislawer may be made blew. Cut Succory or Blew-bottles, but the wild Succory is best, that is old, thick above, an Inch broad near the root, and cleave it in the middle, that in the Center of it you may flick a shoot of the flower, pulled from the root; bind it on with a Twig, and heap about it Earth with putrefied rotten dung; fo it will bear a flower like the Blewbottle, which your eyes will be very much pleafed with. So if you flick into the root of wild Bugloss any white flowers sprig, you shall have a Purple flower, and tending afterwards into a light red colour. The fame,

That a Gellistower may have stowers in Winter.

If about the Calends of October you bury the Plants of Gellistowers, or Violets, or fuch like, in a heap of Grape stones, the hurks being taken from them, or in Horse dung often renewed, you shall have most pleasant flowers in Winter, the same may be done with Strawberries and Melons, but they must be defended from outward cold:but they often dye with their offspring. Card.

That Gellislawers may bring divres flowers upon one branch.

I have feen one sprig bear a Snow vvhite flower, a Purple coloured, and Checkwerd, which is wont to be done either by Art of dresling, or by the truitfuliness of the Earth changed often. Yet I knew many do it, by flicking many leverall feeds of Gellislowers into a Sheep or Goats trundel, or a broken Reed, or a thin rubbed linnen Cloath, Artificially covered with Earth and dung, for these seeds grow all into one root, that fends forth branches with variety of flowers. Mizald.

That one Plant of a Violet may bear the colours of all forts.

If you would have one Plant of a Violet represent flowers of all their colours, put all their feeds into a thin Reed or voorn Linnen Cloath, and buty that in earth very well dunged. I have often tried it with great delight, and you will vvonder at it as much as I did. The fame.

To make Lillies Purple coloured.

If you yould make Lillies Purple coloured, take ten or twelve of their [mall stalks and bind them together, and hang them over the smoke : and they will fend out of their stalks small roots like little Onyons; When therefore it is time to Plant them, steep these stalks in the dregs of black Wine, untill, when you take them forth they appear like a well died Purple colour. Then Plant them, and pour upon each of them a sufficient quantity of the Wine Lees, and the Lillies that grow of them, will bring Purple coloured flowers. Anatolius.

Tomake red Lillies.

You shall make a red Lilly, if you your Cinnaber between the rind, taking heed that you hurt not the small round knots: If you will put in any other colour, you may have them of what colour you please. Florentinus.

That Lillies may keep fresh a whole year.
Lillies will keep fresh all the year, thus. You must take them branches and all, not yet open but shut, and put them into new earthen vessels, not pitched, then stop the veffels, and lay them up, and fo they will keep fresh all the year. If you would in the mean time use any of them, set them in the Sun, that being warm they may open. That Lillies may flower some at one time, some at another, when you plant their roots, set some twelve singers deep, some eight, some fix, and you shall have Lillies a long time; you may do the same with other flowers. Anatolina.

Of the Secrets of Fruits in Generall. Chap. II.

To have early Fruit.

That you may have early Fruit, vvater them often with hot water, fet them in the Sun, and foster them with Piccons and Horse dung, or with Lime, such as can endure it, as Cherry-Trees, and by degrees cut off all superfluities and unprofitable

117

ts of

No.

nn

On the contrary, if you delire to have late fruit, you must do contrarily; leave them in the shade, and covered over with abundance of leaves, cut off the fruit and boughs that are come forth already, before they be ripe, for they will bloffome again and bear new fruits to ripen these in Winter, inclose them in Earthen pots as they mang upon the Trees. The Same.

That fruit may be sweeter and smell more pleasant.

You must steep the kernels three daies in Water and Honey, Sheeps milk, or Water and Sugar, as the Autients did, and when they are dried in the Sun, fet them, and the fruit vviil be fweeter. If you would have them fmell fweeter; vvet the feeds or Kernels in Oyl of Spike, or juyce, or diffilled Role Water, diffolving Musk and Civet in the Water, when you have wet them awhile, dry them, and fet them, and the fruit will small very sweet, that you will wonder at it, that the fruit should come to pleafant fented from thee feeds that drank in that fweet fent, but if you break the tops of the feed, let them remain in it but a fhore time, Florent.

To make all fruit greater.

If you would have greater fruit : bury an earthen pot full of vvater about the roots, bend the bough with the bloflome upon it, and bring it down into this pot of vvater, fasten it that it may not stir, the pot must stand in the Earth all stopped about the bough, that the spirits may not evaporate a so when the time comes that the fruit is ripe, you shall have huge Apples, and greater than ever grew upon the Tree, the the bark being to thick : for the moviture that the Sun and the Ayr draw from them, is preserved in the pot, and the vapours arising augment and increase the

That fruit may have what fashion you will.

Frame in Wood the form you would have, as great as when the fruit comes to perfection, it will be; put Gyp diffolved in water about it, near the thicknesse of your little singer, divided two waters; Take off this form from the Wood when it is dry, (and it will dry suddenly,) you shall do it easily if you first annoint the Wood with Oyl. Bind this form taken off, that is hollow, made of Plaister, and divided in two parts, sast about the fruit that is growing, and is about half the naturall bigness already, leave it so untill the fruit come to its just magnitude. You shall have your fruit the same fashion that the Wood was carved, also you may Write into it it what you please : that you may say truly. Grow, and express my Titles on your skin. Cardan.

That finit may have a purging quality. If you put about the roots Hellebour, or wild Cucumber, or Scammony, effecially the roots of Plum-Tree or Cherry-Tree, and much more of the Vine, when you take the earth from the roots, their fruit will have a purging quali-

ty. Caro. How to make fruit, compounded of severall fruit.

In the monftrous compositions and transmutations of nature, there is no better vvay then to do it by Engraffing. I have enough commended it, but I shall hereafter commend it much more : when as by a mutuall complication of divers fruits, and indiffoluble convinction is made, and shews the reason of the wonder. And if some Man may think Institions to be laborious and almost impossible, you shall case your labour, and help the imopflibility by prudent care, and let not ignorant Huf-bandmen and Gardners diffwade you from that which experience proves to be true: and remember what the Ancients have left behind them : that a Fig may be Engraffed on a Plane Three, or a Mulberry; a Mulberry may be Engraffed on a Cheltnut, a Turpentine Tree, and vyhite Poplar, and vyhite Mulberries may grow from thence, Chestnuts upon Nuttrees, and Oakes. The Pomegranate rejoyceth in diverfity of Adulteries, and will be Engraffed upon all; the Cherry will grow upon the Peach and Turpentine Trees, and the Peach and Turpentine upon the Cherry-Tree, The Quince upon the Barberry; the Vine will bear fruit upon the Olive Tree, and have Olives that are Olives and Grapes. And Florenting reports that he

\$10X

fopt

25 9

nest when when when the same

PE B

百分片在丰田等日子

始

faw such with Mamins Maxieus, which tasted right like Grapes and Olives together, the Myrtill will grow upon the Willow, and so will the Pomegranate, and others there are, which it is worth confidering, far more difficult than these. Columella thinks all forts of sprigs may be Engrafted into any kind. Hence comes the composition of all fruits, and adopting of them all, and hence they produce unusual fruits. The same.

That fruits growing may take all forms and impressions.

If you defire to counterteit the head of a Man or of any other Creature, you shall make the bigness of the fruit, when it is perfect in Potters Clay, or soft Plaister, that will dry, and carve it with the point of an Instrument, that you may cast out the Pattern, and joyn the frame together again. If the forme be of Wood, make it hollow within, if of Clay, when you have baked it, and the fruit are of good growth, shut in within these Earthen patterns, the sruit, seaving an open place for the stalk, and bind them sast with a strong Twig, that the forms do not open as the Apples increase, and that from the first begining of them, and when you have got them to grow there, and the fruit is come to its sull bigness, it will take such figures as you were pleased to carve; and this is especially to be proved upon Gourds, Pears, Quinces, (as Democritus saith) Pome-Citrons, Pomegranates, and mad Apples. I find it written by the Quintilii; If you cleave a Cane long-wise, and make hollow joynts within it, and shut into it young Gourds or Cucumbers, they will run all along the Cane, Wantonly, wandring along, and silling up the Cane after the same manner. If you put a Gourd between two Dishes pressed together, you shall have a star round Gourd, and it will take all figures as you will sorce it to. If you put it into a case of Earth after the flower is sallen away, it will turn it self into the sashion of a Serpent.

Appricanus and others.

How fruit may bave no stones nor kernels.

It is an old faying of the Philosophers: and chiefly of those who have set forth choice Principles of Husbandry; if in setting of Twigs, or live roots, you take out the Pith sirst with an Earpicker or bone-Knise, that the fruit will have no stones nor shels about the kernels, because that which breeds them is of a hard substance; But the Arcadians are against this Opinion; Every Tree say they, may live, and have something taken from it; but if the Pith be taken away, it will not only not bring sorth sruit without stones, but it will dye and bear no fruit at all; and their reason is, because that is the moystest part and most vitall; for the nutriment, which the Earth affoards, runs through it for the maiotaining of every plant: for the pith is as it were the life, and the nourishment runs through it, as through a Conduit pipe; that appears by Twigs that the pith is taken from, they will bend and turn round, untill they be quite dry: and this the Ancients did utterly sear. But we that approve of Theophrassus his rules and experience, are of the former opinion, and it is very prositable and usefull. The same.

Of the Secrets of smaller Trees or Shrubs in speciall. Chap. 12.

Early Pears, Apples, Quinces, that are sweet, are not to be taken, Figs, Tubers, and Junibes with their boughs are to be chosen, but all unripe, but not very raw; those that will fall, must be parted from them; you must search diligently if they be sound, and not bruised with your hands. Burn about the branches that are cut off, scalding Pitch, touching them alittle; for else they would sooner corrupt, then wrapping them in Hemp or Hurds, cover that round with melted Wax, and being so covered, but them down into Honey, when they are all let down severally into the Honey, keep them so, that they may not mingle, nor touch one the other: for one will corrupt the other; when they are covered put on the cover of the Vessel, and skin of leather over that, so you may keep them green all the year. So all Apples may be kept in Honey that are laid up for a long time. The same.

Apples will last along while that are gathered in their perfection, you must pull them

COLLX

15 00gs.

coo.

Mall I

TO DE

titiol.

tach.

eick,

n Cari

II.

mud

Cyca,

torth

this

t, 111

Y DOX

ente-

BBK

mil

HUR

TY 900-

an:

them with your hand, and that warily, that you bruile them not. Wrap them all leverally in Sea weeds or Sea moss, that they may be fully covered, and then put them into raw Earthen pots, put also Sea weeds between, with the stalks of the Apples that they may not touch one the other; put covers upon the pots, and set them in a high cool lost, where they may have neither smoke nor any ill sent. If you have no Sea weeds, put the Apples severally into very small Earthen pots, with covers, and set them up. Some wrap all the Apples single in Potters Earth, and dry it, and set it up. Apples will be kept found also, laying under them Nut-tree-leaves. But it is better to wrap the Nut-tree-leaves severally about them. You shall keep Apples allo, if you put them fingle into Earthen pots that are Waxed within fide, and cover them close. Apples will not corrupt laid in Barley : you may keep them also Take an Earthen veilel not glazed, with a hole in the bottome, and fill that with Apples pulled with your hands, not bruifed, nor old, and ftop the Veffel close with Butchers Broom, or with some other thing, and hang this upon any Tree, and let it alone all the Winter, and the Apples will remain as they were first put in; which I have also found by experience. Apples are also kept thus, Wrap every Apple severally with dry Fig-leaves, then cover them over with white Potters Clay, and being dry, lay them in the Sun. Wine Lees will also keep them fafe, and they will preserve Wine, which all Men may wonder at. For Apples put into a new Earthen por, and the pot being let down into a Vessel of Wine, that it may swim in it, and the Vessel be well dawbd about, the Apples will be tresh, and the Wine fweet fented. Also they are laid into hollow Coffers with fine flocks, and they are fo preserved. But Winter Apples are best kept in Corne. Apule in

Apples must be gathered about the Autumnall Equinoctiall, according as the Climat, Ground, and Tree is by nature, and not before the fifteenth day of the Moon; as Pliny writes: You must be carefull with your hands in gathering them, that you neither bruise nor hurt them, and you must separate all fallings, corrupt, rotten, wormeaten Apples, from the sound. They will be best preserved upon boarded flores where no smoke comes, nor ill sent in a cold room, and windows open toward the North: which must lye open in clear daies to let in the light; shutting out the South winds: for the South winds are far more hurtfull to fruit then the North: for those do make the Apples wrinkled and ill savoured. They may be kept also in a cold dry place upon straw, as Varro writes. Wherefore they that make Apple-losts must take great heed that the windows be toward the North, that the Ayr may come to

blow upon them. Mizald.

That Apples may hang long upon the trees.

Command the boughs to be bended inwards, that the ripening juyce may not fall into them; they will be kept fafe against the flattering blandishments of Summers heat. This way chiefly are Pomegranates kept, least they should chap and be spoiled. The same.

That Apples may represent any form.

Wrap in Gyp, or figular Clay any Image you please; and cut it into two parts so exactly with a fit Instrument, that the parts may again be well united together: then bake the forme in a Potters Furnace, and when the Apple is come to half its growth, shut it up in these frames, and bind it in fast with strong bands, that the Earthen patterns may not be pulled one from the other, by the Apple that increaseth within them. And when it hath filled up their hollow places, the Apple will represent such figures of living Creatures, whose shape and postures you were pleased to fancy and Carve within. This holds not only for Apples, but also for Pears, Quinces, Peaches, Citrons, Pomegranates, Oranges, and all sorts of Apple fruit. Mizaldia from Appricanue.

If you cover Apples with boyld Gyp made up with water into a liquid body, and with your Instrument make marks in the Plaister, when the Apples come to their full growth, and you gather them, you shall have those markes apparent in the Apples.

6 R WILL!

HID

Ex,

both and Tro

fion

BIT

102

西京河南 四

五百 看 五 五

To make Apples fiveet.

If you defire sweet Apples, diffolve Goats dung in Mans Pifs, and old Wine Lees, and pour that upon the roots, Mizald.

To keep Apples from rottennels, inneer the body with the Gall of a green Lizard: and this is a prefent remody against Ants. The same.

If Apples fall, cleave the root and drive in a stone that will hold them. Apprican.

Water the Tree with Pifs, and the fruit will grow red. Some make Apples red upon the Trees, thus. They force Stakes into the ground, and they bend the boughs that have fruit, and bind them to those Stakes, not shaking them, and they fill ditches that are near, or Veffels with water, making their conjecture that the Sun beams. at noon thining into the water, may fend back a hot vapour, falling by refraction upon the fruit, and may make them red and well coloured. Some fer Roles under the Trees, and fo make the fruit red. Berytim.

Anather.

VII you Engraff a branch of a Citron or a Pear into a red Mulberry, the Apples that grow from thence will be red, to the Rose Apple that is bloud red was first made. The Same.

How Personay be made red and marked.

A Pear Engraffed on a Mulberry will bring red Pears, Tarentinus. To mark Pears with what marks you lift, you shall learn before concerning Apples.

How Pears must be gathered and keps. Pears must be gathered as Apples were, and with the same observations, namely, upon a clear day, with a gentle hand, that they receive no hurt, parting the fallings and corrupt Pears from the found, when the Moon decreafeth, and the Sun fhines hot. When you have done this faut them up close in a glazed Vessel, and turn the mouth downwards, and make a fhort pit to hide it in there, about which water may run continually. Others fay they will be excellent well preferved, if you annoint the stalks or boughs with Pitch; and so hang them up. Others keep them in sweet Wine, or boyld Wine, or baltard Wine, that swims above them in the Vesicls. Some hide them in Ditches. Many wrap them up in dry Walnut leaves. Others bury them severally in Wine Lees, that they may not one touch another. Countrey Men keep them in Chaff and Corn; Some as soon as they are gathered hide them in well glazed Pitchers, and covering the Veffels mouths with Potters Earth, Gyp, or Pith, they bury them in the open Ayr, or cover them with Sand. They are kept beft, as all other fruit in Honey, if they do not touch one the other. Mizaldus, Democrism, Palladias.

How to mark Quinces. · Quinces will represent any Creatures, if they be put into forms and patterns to grow there. Democritus.

How Quinces must be gathered and kept.

You must gather your Quinces very ripe and sound, in a clear day, the Moon decreating, and being wiped, in a new Vellel with a large mouth, they must be the gentlyer laid at a diffance one from another, having first all their heary down rubbed off. Then when they are laid up almost as far as the brims of the Vessel, they must be so kept close with Floops or Twigs, that they may be easily presed down, least when proyflure is put to them they should rife up. Then fill the Vessel up to the top with the best and thinnest Honey, that every Quince may lye under it : But you must take heed that you lay no raw Quince into it, for it will grow so hard that it will be good for nothing. I hear that some cut the Quinces first with a bone or worden Knife (because they fear Iron) in pieces, before they put them into the Honey : also they take out the Kernels which they think hurts the Quince. A thing ridiculous rather than to be believed. Some did put their Quinces gathered and choice into Vessels of sweet Wine, and shut them in, promising that the Wine should be the better sented for it. IX

icus

Some shut them into a new pot swimming in a Wine Vessel, and they smeet the vessel round. Some keep them wrapt up in Fig leaves. Many lay them in Chests, wrapt up in Hards and Flocks. Many in Saw-dust, Millet, Barley, or Oats, will preserve them sate along time. But they must not be laid up in a house where Summer stuits and other tender fruits use to be kept: for they will spoil them with their sharp sent, and make them perish. Some keep them in Fig or Walnut tree leaves. Others smeer them over with Potters Earth, and dry them in the Sun, and hang them up, and when they need them they wash off the Earth. Many do severally lay them in wodden Cosses, upon most dry wood, in a most cold place, where no smoke nor ill Ayr comes: that the slowers may be upward, and the stalks downward, and take care one may not corrupt another: then laying between them some Poplar or Firr Tree Saw-dust, they lay on a cover made of Clay and Straw, that the wind may not come in. Mizaldus, Democritus, Cato, Varro, Collumella, Palladdius, Pliny.

You shall have Plums without stones, it you cut up a small Plum Tree two foot above ground, and cleave it down to the roots, and scraping out with your Knise the pith of both sides, you presently joyn the parts divided, and bind them fast together with a band, and cover the top and sides clete with dung, Clay, Wax, or defend it with a wet Paper. When one year is over, the scar will be made, and the sides will be grown saft together; Engraff this Tree with Sciences that never bare fruit, and the Plums will have no stones: be they Plums, Cherries, Peaches, Medlars,

Dates, or stony Dog tree fruit. The fame.

How Cherries may be made without stones.

If you would have Cherries without itones, cut the young Tree to two foot, and cleave it down as low as the roots, and scrape out with your Instrument the pith of both parts, presently joyn with a band the parts that are divided, and dawb the top and elests with dung: after a year the parts separated will joyn: Engraff that Tree with Twigs that never bare fruit before, and so your Cherries will have no stones. The same.

To make white Mulberries.

If you will have white Mulberries, Engraff them into the white Poplar tree, and the betries will be white. Benytims.

How Mulberries must be laid up and kept.

Mulberries laid up carefully in a Glass vessel, will keep a long time, being soked in their own juyce, or Wine close covered: so they be not overripe, seeble, and falling away. The same.

That Peaches may grow with figures and inscriptions upon them.

You shall make Peaches with inscriptions thus. When you have eaten the Peach steep the stone two or three daies in Water, and open it gently, and take the Kernell out of it, and write something within the shell, with an Iron graver, what you please, yet not too deep, then wrap it in Paper and set it; whatever you write in the shell, you shall find written in the sruit, some do the same in a true Almond with the like success. Democrit.

You shall make Peaches red planting Roses under them, you may make the sruit red another way. For if you set the Peach stone in the ground, and take it up after seaven daies, (for in so many daies it will open of it self,) and put Cinnaber within the stone, and setting of it again, you take great care of it, you shall have red Peaches thereby. May be if you will put in any other colour, you shall make the fruit of the same colour. The same.

That you may make huge great Peaches, Almonds, Nuts, and the like, you shall take three or four Kernels out of them, which you shall joyn so fitly together, that they may seem to be all one body. These being joyn'd, and if need be, tied together, you shall put into some vessel sull of earth and dung well mingled, and so plant or

世里

KET

颇

Vit.

ut

di Va

WI

日月日

政治治治の

野田田中田

fer them. But the veilel must have a hole in the cover, through which the forone may be forced to come forth, to will those Kernels joyn into one Tree, which in its due time will produce exceeding large fruit; some do not put the Kernels into a vessel, but into a Pipe or Cane sull of Earth. But if you defire to get such great fruit a far more easie way : You must chuse those Peaches out diligently that appear small and languishing, and that will be a burden to the Tree with too much abundance; that the juyce of the Tree may be disposed to bring up the rest. For so the quantity of juyce being carried to the nutriment of a smaller number, will supply them with pienty of nutriment and make them greater. Mizald.

That Peaches may come forth without stones.

We may produce Peaches without Itones, by a new way of Engraffing. We let near the Willow a Peach Tree, in a rich moyst ground, otherwise help it by watering of it, that the Tree may swell, and may afford superfluity of juyce to it self and to strong sprigs graffed upon it. It the Willow as big as ones Arm be bored through in the middle, leaving the head of the Peach Tree, we must cut off all the shoots, and we bring this through the hole of the Willow stock; we stop the hole diligently with Lome, and we bind it with a band; a year being over, when they now grow together, that they make of two but one Tree, we cut off as much of it as grows above the hole bored where they unite, that the nutriment may not be carried thither and that the juyce may be called away from the place of Engraffing, and that the other Tree may be bent by the fruit growing upon it, or elle bending the head of the Willow like a bow, and letting it into the ground; and when they are united, the Peach Tree being cut off, and the Tree transplanted and covered with Earth about it; fo the Peach Tree being married to the Willow, with wonderfull delight will bear Peaches without stones. The fame, Another.

You shall bore the Stock of the Tree through beneath, and cut out the pith, and knock in a pin of the Willow or Dog Tree. Aphrican.

That a Nut may not bring forth Woddy fruit.

If the Kernell bringeth forth hard woddy fruit, the bark must be cut round, that the noxious fault of the movilure may be drawn away. Some out off the tops of the roots. Many make a hole in the root, and knock in a Box wedg, or a Copper or Iron nail. Mizald.

You shall have naked Nurs without shels, if you break the Nut shell, and keeping the Kernel unhurt, wrap it in Wooll, or in green Vine or Plum Tree leaves, that the Kernel being covered may not be eaten by Ants, and so it must be planted. Florentimes saith the same of an Almond, if Ashes be daily cast about the stock and root, and the same holds in all other fruits, that have a shell above the Kernel, if they be planted the fame way. Aphrican. Another. I gery noet good contractor

Dig a pit where you intend to plant a Wallout Tree, and put into it poudred Earth, and plant there the feed of Fennel Gygant; when it is grown up, open it, and into the pith of it put in the Kernell of a Nut without a shell, and stop it fast with Wax, and so you shall in a long time have the fruit you defire. So we may make a Peach, which they call Tarentina, or Moinfea, when the fiell is very brittle and tender, and may be eafily broken in ones hands; often water this with Lee for a whole year, and cast Assess about the roots, as Damageron sheweth; and also boring the Tree quite through, you shall make hard stony Nuts very tender. So you may do with a Hazel Nut, and an Almond; before it blossome, scrape the earth from the roots, and for some dayes pour on hot water, and the Nuts will be tender as Appricance saith: but the former way it will bring a Kernel without a shell and so soft, that it is rather covered with a skin that is tender, then with a shell, that you may eat both together, and this ferves for all fruit that are covered with a thell. The fame.

To make bitter Almonds sweet.

You shall make bitter Almonds I weer, if you bore the stock square, the depth of a small hand breadth, and let the juyce run forth yearly, untill the Almonds be sweet. Some do better digging about it, and casting Hogs dung and Piss to it, and then laying Earth upon it, they water it every year untill the Almonds be sweet; but every Tree that bears Almonds being cut off in the body will never bring fruit; But you shall make a tender and sweet Tree of a hard and bitter, if you lay open the stock as far as the roots that are in the furface of the ground, and water them daily with hot water, before they fend forth blofloms. Aphrican.

That Almonds may have prittings upon them.

Break an Almond fiell carefully, that the Almond within may be kept entire, and opening the fiell, write what you please upon the fiell, and binding it up again, plant it wrapt in paper, and covering it with Lome, lay upon it a heap of Hogs dung. The fame.

That Pomegranates may not cleave.

When you plant Pomegranates put flint stones first into the pit; but if they be planted already, plant fquils near them; for these by a naturall contrariety will not suffer the Pomegranates to chap. Likewife if they be planted with the head upwards they will not cleave. Aphrican,

That Pomegranates may be Sweet.

Dig about the roots and heap on Hogs dung, and laying Earth upon it, water it with Mans Urine. Or, the Trees will have the sweeter fruit thus: It the roots of the Tree be daily watered with Utine, Goats dung, and old Wine Lees. Paxammand Anatolina.

To make Pomegranates grow without Kernels.

If you take from the Tree, as in the Vine, the apparent part of the pith, and coyer the Tree that is cleft, and after a certain time you cut away the supereminent part of the Tree, that hath now fent forth a branch, the Pomegranate Tree will bring fruit without Kernels. Aphrican.

To make Pomegranates more red.

If you would make your Pomegranates redder, you shall water the Tree with water mingled with Barbers Lce. The fame.

To know how many kernels a Pomegranate will have.

Open one Pomegranate and count the kernels, and as many as you find there, think that every one hath just as many. The same.

To augment the kernels of the Pomegranate.

You may augment the Pomegranate kernels thus, that they may feem to be wonderfull, fet a Pomegranate Tree near to a wild Cherry Tree, called the Dog Tree, and bore a hole through the flock of the Dog Tree, and draw the Pomegranate Tree through the hole; when three years are past, you shall separate it from the roots, and shall then cut off the Dog Tree where the joyning is, that it may not draw away the juyce from the Itrong Plant Engraffed into it, and that it may ferve nothing more than the Graff: for thus will it bear fruit, whole stones will be like the stones of the Dog Tree fruit, of excellent talke, and more fair then ordinary. The fame.

It is reported that Pomegranates will grow wonderfull greatness.

It is reported that Pomegranates will grow wonderfull great, if an earth Pot be buried about the Tree, or be so fitted that the bough with the flower may be shut into it, bound to a flake that it flye not back again, and the Pot be covered that no water may come in; for in its time it will feafonably bear Pomegranates of the fame bignels; and fashioned after the figure of that Pot or Vessel you bring it into. Mizaldus, from Gargilius Wartiall.

That Pomegranates may be kept green upon the tree.

When Pomegranates are ripe, before they break off, the stalks they hang by are to be twifted, and then they will continue fresh upon the Trees all the year. Palladius. Pliny.

Book

ないは、日本

HI WELL

Windows and the state of the st

五品出

4

How to make abundance of Pomegranates.

You shall have abundance of Pomegranates, if the juyce of Tithymal, and Purflane be equally mingled, and the stock of the Tree be dawbed with it before it bud. Pallad.

To make Pomegranate kernels white.

Pomegranate kernels will be white, if you mingle with Potters Earth and Chalk a fourth part of Gyp, and for three years together you ftrew this kind of Earth about the roots. Gargilius Martial.

To keep Pomegranates for uses in Winter.

omegranates will be preferved for Winter, if you gather them with a gentle hand, that you burt them not with hard touching of them, then dipping their stalks into unboyled and liquid Pitch, when they are cold hang them in order. Some dip them all over in the Pitch, and when they are cold they hang them up. Also if you gather them whole and steep them so long in Sea water or scalding brine, that they may drink in the liquor and be wet: and then hang them three daies to dry in the Sun, (but they must not be lest abroad in the night) and after that hang them up in fome cold place: when need is you may put them into fresh water. Others wrap them in Potters Clay, and when they are dry, they hang them up in a cold place, and at their need, they put them into water, and wash off the Clay. Some wrap them severally in Hay, or stalks, and with Clay and Straw they dawb them thick; and fo they bind them to ftrong great boughs, that the wind may not ftir them. Some lay them at a diffance one from the other in dry Sand; or hide them in a heap of Corn in the shadow untill they wither. Mizild. Berytim and others.

That a Pomicitron may grow with a pil ure upon it.

You shall make a Pomecitron like an Image, or to a Mans face, or any other living Creature, thus, with Gyp or Clay you cover what you please, and when it is cold you cut it into two parts with some sharp Instrument, that the fore part and the hinder part may fit and joyn again, then when it is dry you bake it in a Potters Oven. And when fruit are come to half their bigness, you must bring those formes round a-bout them, and bind them fast on with bands, least as the fruit grows bigger it do not pull the formes one piece from another, and so the fruit will take the representation of what is carved in the forms. Aphricanus,

How Pomecitrons are to be made red, and the middle of them sweet.

If you will have red Citrons, plant a Graff of it upon the Mulberry Tree, and the Citrons will be red. Palladins saith, The middle of the Citron will be sweet, if the stock be bored with a flant hole from the bottome, yet so that it come not forth on the other fide. So the moysture must be sufferd to run forth untill the Citrons be formed; then the hole must be filled up with Clay. Some affirme that the same thing may be done, if the kernels before they be fet, be freeped in Sheeps milk, or in Honey and Water, or Sugar and Water. Mizald.

How to preserve Pomecitrons.

If you dawb about well a Citron with Gyp made into a Plaister, you shall keep it found a whole year; Citrons hid in a heap of Barley will not corrupt, Sotion.

To bave Citrons all the year. You shall observe this way to keep Citrons all the year, which is peculiar in Affiria, and frequent in many places; When it is time to gather them, cut some part away from the Native branch, checking the luxuriouincis with your Knile and leave a part. where you cut it off, by the naturall fertilness of the Tree, it will affoard more Pomegranates, when those are grown great, you may gather the former, and delight your self with a new production of them. The same.

Write what you will upon the Fig tree leaf that you would Infoliate, and the Figs will grow with that Inscription. Democrit.

How to make Figs come early. Figs will beripe before their time, if you lay near the root Pigeons dung, Pepper and Oyl. The Same.

me

TO US

003

When you plant the Fig tree, lay at the roots black Hellebour bruiled with Tithymal, and you shall have Figs will loofen the belly. The same.

Take divers branches, and binding the boughs first together, that are of the same age and duration fet them in the Pir, dung them, and water them. When they begin to bud, bind again both the buds into one, that they may grow up to one flock, and after two years, if you think fit, transplant it, and you shall have Figs of two colours. Some do the same thing more securely thus: They bind the seeds of two divers Vines in a linnen cloath and plant and transplant the same. Leont.

That Figs may last. Figs will continue good along time, if they be hanged in Baskets in an Oven, whence the bread is taken forth, and then put into a new unglazed earthen pot. But you must gather your Figs with the foundation and stalk they hang by, and sprinkle them in the Sun with pickle and Oyl scalding hot together, then put them into a Velfel, and lute it well, but they must stand one night before open to the dew, and after that you must put them into the Vessel. Paxam.

Figs may be kept fresh, if they be so laid in Honey, that they neither touch one the other, nor yet the veffel, which must be carefully covered with a cover, each having its hollow Coffer made, and that gourd-like Coffer being afterwards hanged up, where neither fire nor imoke comes : but they must be gathered with their stalks: for fo they will continue found the longer. Apprican. Pallad.

That Olives may grow fweet. Take a Sextarius of Oke ashes, of fresh Quicklime a third part, mingle them well, adding a little water that they may mix the better to moulten them into one body: When they have so continued two houres, put this into some worden vessel with a hole in the bottome, well working it, and pouring upon it three or four Buckets of water, and let the Lee drain through the hole; If the Lee will not make two Buckets full, pour on two Buckets of water more, that you may take two Buckets of the Lee. When you have done this, take green fresh Olives that are not corrupted; then when they have stai'd so long in the Lee, untill they sink to the bottome, or the flesh will come with your teeth from the yellow stones, cast them into cold water, changing the water three or sour times; Take great care they do not stand without water: because they will suddenly grow black, and will lose their natural colour and taste; This seems to be preternaturall, and therefore is very pleasant to behold, that both the leaves and fruit shall retain their Native colour. But they must be left three or four daies in fresh water. Yet if the water be changed four or five times aday, they will be sweet in two dayes, that you may earthern with Salt and Vinegar. This being performed, pour pickle upon them, and so also in two dayes they will be fit to eat. But observe this, that the Olives which did not touch the water, will have a more tender skin, and are more pleasant to eat. But if they did touch it, they must be steeped the longer, and yet they will never be so delicate, because they will have a more sharp skin or cover, although they be green and very fair. Moreover Olives may be otherwise provided. Put dry Olives that never were put into water, into pickle for one Moneth, and then into new pickle for fifteen or twenty dayes, and lastly into one stronger pickle, and they will be sweet. But this way is seldome uled. Alexins.

Of the Secrets of Shrubs. Chap. 13.

When we see Cherries in the Spring, we wish then for Grapes also, and we may have them, as we collect from the sayings of Tarentinus and Pamphilus. When their Gum cealeth to run forth, that the Tree may not grow rotten and Worm-eaten, caule the hoary down that goes about the Tree to be scraped away, for this will much hinder the Graffs. Make an Infition which some call Infoliation, for so it will more ea-

BOOK !

Calla

geth

世の

日を記

in the

Base

been sheet Very qual took

am

13

200

the

fily joyn together. Then open the bark of the Tree, and drive in a thin strong wedg between the bark and the Tree, but gently with a light hand in the levelling of it, that the band of the Bark be not hurt, then taking out the wedg, a sharp spring of a black and fruitfull Vine must be set into it, and bound tast; so in the Spring at the usuall time when Cherries are ripe it will yield Grapes, when it is sorced to draw away the nutriment of the stock it is set into. The same from Tarentinus and Pamphilus.

This is done by dividing the branch that is to be fet equally, and putting a stone betwixt to keep them as a further from the very top; then you must scrape out all the Pith on both parts with an Instrument of Bone, in that part above, or else in that which must be set under ground: or else make it hollow as deep as you can, then bind it close with a strong Twig of Osier, or bind a wet Paper tast about it, and in sat Earth make a hole and set it into it, and bind it sast to a stake knocked down, that it may not be wrested up and down, so will the clest grow together as before; and it will be better, if as far as the branch is made hollow, you thruit in a Sea Onyon; for this will joyn it like glew, and moysten it with its moysture, and softer it by its heat, like an Engrassing; the same also will tall out, if in setting the branch you take forth all the Pith. Democrit.

That the same Vine may bare clusters of white Grapes, and black stones.

That the same branch of a Vine may bear a white and a black Grape, at once, and that in the same Grape some stones may be black and some white and both divided; Take three or sour handfuls of divers kinds and colours of Vines or else more, that will easily grow, and bind these equally together very close, and put them into a Pipe or a Rams horn, that they may stick forth at both ends, underneath unbind the branches, and set them in a Pit of well dunged earth, watring them untill they grow and shoot forth; But when two or three years are past, when they are all grown into one stock, break the Pipe, if the horn be already wasted: when they joyn saft, saw it off, and cast Earth poudred fine upon them, and let the fat Earth cover the stock, and when it shoots forth again, leave one shoot, and cut off the rest, least if all be left, the stock cannot nourish them all; then will one Vine rise up by the joyning of all these branches, and will bear Grapes of divers colours. The same.

Let the branches be one black, another white, and when they are pruned off, they must be slit in the middle, taking heed that none of the Pith sall our, and so joynzgain the parts divided, that both their buds may sall together equally, as if they were but one : then bind them very close, and with clammy earth dawb them sast, and for three daies water them often, untill from both one Sprig may sprout forth, and bear Grapes, and they will be of fundry colours and kinds. Didym.

About the Vine that is full of Grapes, dig a ditch in a shady place three foot deep, and two foot broad, and put in Sand, and stick Rods there, whereby you shall daily help the branches that are sull of Grapes, and bind them to them, that you hurt not the Clusters, yet that they may not touch the ground, you shall cover them so, that showrs may penetrate and come at them. Berytim.

If you will have Grapes smell sweet, the branch must be set in the ground, and all sweet smelling things must be cast upon it, or some Unguest or Persume that we would have the Grape smell of, and it must be steeped awhile in water of the same sent, and drinking in the moysture it will yield a Grape smelling like that.

Paxamus.

That Hens and Birds may let the Grapes alone, give them the betries of the wild Vine to eat; for the like thing almost will befall them that befals Men that eat sour fruits; that set their Teeth on edg. Cardan.

That Washs shall not touch Grapes or other fruits.

Take Oyl into your mouth, and spurt it forth upon the Vines and Grapes. Demorit.

# Of the Secrets of the fruits of Herbs. Chap. 14.

How Gourds may be made long, great, and thick.

Take the feeds from the Gourds between the top and the middle, and fet them upwright, dung and water them. If you defire to have them very great, take the feed from the middle of the Gourd, and turning the too downwards, let them in the ground Collumella, Palladine, Pliny.

That Gourds may be broad and large. Would you have your Gourds broad and great, take the feeds from the bottome of the Gourd, and turn the upper end downwards, and fet them in the Earth. The fame.

Gourds will have no feeds in them thus. So foon as a Sprig of the Gourd shoots forth, or of a Cucumber, fet that into the Earth, as you fet Vine branches, that only the top of the branch may be above the Earth, and when it is increased, let the same again, and so the third time, and cut off what springs from it, about the middle, and above the Earth, and leave only the third sprout, and you shall have Gourds and Cucumbers without seeds. Likewise you may produce the same without seeds, if three daits before you sow them, you steep the seeds in Oyl of Sesama. Quintil,

To have early Gourds. You shall thus make Gourds and Cucumbers grow quickly: put sisted Earth into Baskets, or old Earthen pots, and mingle dung with it, making it moyft. Do this before the usuall time. Plant the seeds when the Spring begins, and when the Sun thines hot, and the flowres also are moderate, let your Baskets in the open Ayr, and about Sunfet, bring them into the houle and cover them. Do this daily, watring them when need is; And when the cold and Ice are perfectly gone, fet the Baskets or Vessels in the ground that is well manured and sitted, that the brims may stand e-quall with the ground, then take all other care about them. If you take away their thoots they will the sooner bear fruit. Quintil.

How Gourds and Cucumbers may be made of divers formes, and with

Gourds will be changed into what form you please, if you make Vessels of Earth, and fet them about them when they are yet young, and bind them in, for they will fill up the formes and the Characters. Wherefore also if a Cane be cut long-wayes, and the Pith taken forth, and joyned together again very close, and a Gourd that is small put into it as it grows, it will increase and fill all the length of the Quintilim.

How Gourds are made purgative. You may make them purgative, as also many other things, if you steep their feed a day and a night before, with Rheubarb, Agarick, Scammony, Coloquintida, or other purgative medicaments, and fimples, fowing them afterwards. The fame.

How to preserve Gourds. You shall preserve them thus : Cut them when they are tender, then pour scalding water upon them, and all night cool them in the open Ayr, then put them into Barp Brine or Fickle, and let them lye, they will fo last long. At this day all the Winter time, they are hanged green upon the Roofs and Planks of houses, and are so kept by our Countrey-Men, and are pleafant to be eaten; and especially those which are called Citruls. Quintil. Mizald.

If in Summer you loke their fresh leeds in Mans bloud, not of a weak, but found, young, yellow haired Man; for that hath in it a more hot and effectuall virtue, change it often, that it may not confume, but it must remain uncorrupted, let them. Hay in that for one week, then dry them in the Sun, and making small holes in fruitfull finely poudred Earth, fee them in; take heed you turn not the wrong end upwards; It will not be amiss to pour in Quicklime under them : then watting them with hot water or Aqua vita, the branch will come forth; cover it with woollen Cloathes, scaft the heat flye away that rifeth; when it feems to creep along, you B b

Book

四四

1015

1000

mental service formation of the control of the cont

gtis

Tik

11/20

旅時

may may

UMin

Wh forest

hines viding

to hos Sans

and place force

tous

Wite

Witt

1000

W

must set something for it to fasten to, being ready to fall it self, and it will increase to a huge multitude, yet it will in short time leave this life, it hath gaind, and dye; The same may be done with Melons and Pompions. The same.

To make Cucumbers and all fruits grow late.

If we would have Cucumbers and all other fruit come late: we know they all fear colds and Ice and cold Rains. Wherefore Plant the feeds in the Summer, heaping dung about them, fo they will refift the cold, and not be killed thereby. Also they will continue in force otherwise. Set them in a Pit, and let the Pits be so teafonable, and cover them well on the top, that the Sun and the Winds can do them no hurt; also the vapours arising from the water do help them much to make them continue in good condition. Or set them in a place that is clear and well dunged. If you would have truit of Blackberry-bush, or of Fennel-Gigant after the Autumnall Equinoctiall, you must cut them up close by the ground, and make them hollow, and with a wodden stick you must thrust in dung between the Pith, and you must put in Cucumber seed; hence will fruit proceed that no cold will kill. The same.

You may make Melons smell like Roses, if you set the seed with dried Roses, and plant them one amongst another. But you shall make them sweet, if you steep their seed in Milk and Honey, and when they are cold, you plant them. Florentinus.

That a Hartichoke may not be prickly.

Hartichoks will not be prickly, if when you set the seeds you rub the sharp top of them flat with a stone. Or if we cut Lettice into pieces, and set with each seed one piece of Lettice, so will Hartichoks grow very smooth. Varre.

How to make Hartichoks sweet Sented.

You shall procure sweet sented Hartichoks thus: you must three daies before you set them, steep the seed in some sweet siquor or juyce, and then dry and set them. For they will have the smack of that siquor they take in. They will smell like Bays, if you steep them with Bay leaves, or thrust one seed into a Eay berry, and so plant it. The like experiment serves for other things. Mizaldm.

How to make Hartichoks Sweet.

Hartichoks will grow up fweet, if the Seeds be steeped in Milk, Honey, or Sugar and Water, or Aromatick Wine, and be dried again and set into the Earth. The same.

Of the Secrets of Seeds in Generall. Chap. 15.

How Seeds may be defended against cold, Frosts, and heat.

If there be any fear leaft the Seed should be scorched with Frosts, cold, or heat; they may be covered with Straw, Rods may be laid overthwart them, and Reeds upon the Rods, or else Vine branches, and Straw uppermost. The same.

How to keep Seeds unbort in the ground.

If Seeds to be fet in the Earth, be a little before steeped in the juyce of Howsleck, they will be not only kept sate from Birds, Ants, field-Mice, and other Robbers of them, but also the fruit that springs from them will be much better. Mizald.

That Seed Sown may be kept Safe.

You may preferve all fafe that is fowed, if you gather Sout that is in your Chimnies, the day before you fow, and mingle that with your Seed: or sprinkle the Seeds with Purslane-water, that all night they may drink in the moysture. Mizald.

That Birds [hall not prey upon Seed.

Plin; faith there is Garlick in the fields called Allium, which is profitably oppofed against the spoil that Birds make, which dig the Seed out of the Earth, if it be
boyled, that it may never grow again. All Birds that seed on this will be giddy, that
you may catch them with your hands: Aphricanus for this purpose boyls alittle
Wheat or Barly in Wine, or insuleth it mingled with black Hellebour, and he sows
this abroad round about the Gardens or Fields: and this will free all Seeds from
Birds. But he bids that you should hang them up by the heels upon a Pole, when

VOU

den li li

ali

you catch them dead, or drank. Nor doth he omit the decoction of River Crabs, with which if you fprinkle the Seed, (it is a ftrange thin.) no Birds will touch it; and what fpringeth from these Seeds will last safe from the injuries of all small Creatures. Some happily do only sprinkle some of this decoction upon the Plants. This I and my friends have tried above a thousand times, but it must be at a set Period of the Moon. Mizald.

To free Seed from ever being bitten.

Some bruife the leaves of Cypress and mingle that with the Seeds, and they commit that mixture to a well prepared and danged ground, and so they free from being bitten whatever grows from thence. Others mingle with the Seed the stravings, scrapings, filings or parings of a dry Elephants or Harts horn, or steep that, and sprinkle the insulinon upon the Seed. Some steep the roots of wild Cucumbers a whole day and night in water, and they sprinkle the Seeds therewith, twice and the next day after, they cover the Seeds with Straw, and set them into the ground. Hence they suppose they will prosper better and be more safe from all dangers. The same.

Take no fewer than ten River or Sea Crabs, and put them into a Veffel full of water, and let them in the open Ayr, that they may stand ten daies assuming, after this all Seeds that you would have to remain fate in the ground, sprinkle with this water for eight dayes, and when eight daies are past, repeat it again, untill the Seeds grow up as you defire. You will wonder at the proof of it; for what sever springs from those Seeds will not only drive away Cattle from them, but all Beasts in generall.

Mizald, Pallad. Apprican.

A prediction of fruitfull time.

What concerns the foreshewing of fruitiullness or barrrenness of any Seed, that is sowed or to be sown, you shall proceed thus by the experience of Zoroaster, and the old Egoptians; twenty or thirty daies before the rising of the Dog Stat, you shall sow a hittle of each Seed, in some place well fitted for it, the Seed being fresh and good, dividing and setting out their places, only for a tryall of them, and if the weather be very hot, water them seasonably a that which is sowed upon dry ground will spring forth more commodiously, and before the said Star ariseth cosmically, will shew it self very oportunely. This being done, you must carefully observe, when the Dog Star is risen, which of these Seeds sown came forth safe, good, and in a flowrishing condition, and remaind so; and of that you may foretell, that it will be fruitfull and plentifull that year; but that which sprang not forth, or that came forth saint and languishing in the plant, you may believe will be unprostrable and barren. For it is most certain that the mad fiery Dog star doth by its extravagant heat hurt some Seeds, and not others. So that this Star that is hot and dry by nature doth give to us a foresight for the suture year, for all sorts of Seed, what will be hurtfull and what beneficiall to us. Zoroaster.

A prediction of plenty. The However this be, I will not let pass a most handsome way to presage and foretell, what will be unfruitfull and scant. Which Virgil would not conceal from the world from the Nut-Tree; yet some ascribe it to the Almond-Tree.

Consider when the Nut-Trees much abound

With blossomes, in the Woods, if finit is found

To follow in great plenty, Corn will be

With Wheat abundant as Nuts on the Tree.

But if the shady leaves abound much more:

This fils with Straw and Chaff the Threshing-store.

of the Secrets of Seeds in Speciall. Chap. 16.

Wheat will increase out of measure this way : Pouder Saltpeter and the from

B b 2

HE STATE OF THE ST

100

(版:

of Saltpeter, and mingle that with thin Earth, and so cast it into the heaps of Corn. This will also keep Wheat fale and unhurt. Aphrican,

Tokeep Meal fafe.

Meal will remain fafe for a time, if you bruile fat Pine tree boughs and cast that into it. But some bruising Cummin and Sale equally together, and making dry lumps thereof, put them into the Meal.

How to preferve Barly Safe.

The dry leaves of a fruitfull Baytree will keep Barly fale and good, and all Ashes efpecially of Bay tree wood put to it; Likewise the Herb Howsleck dried, and Calamint mingled together with Gyp, and so mixed with the Barley. Others put a Veffel full of Vinegar and covered with a cover, in the middle of the Barly. Damag.

To keep Beans Safe. Beans (prinkled and moylined with Sea water will take no hurt but remaine good. Didym.

That Beanes may ripen well.

Beans will ripen well, if you steep them in Niter and water the day before you set them. The Jame.

That Chich Peafon may be greater.

Some take a great deal of care more then needs, who defiring to have Chich Peafon greater, they steep them with their shels before hand in Water and Niter. Florent.

To ripen Teason betimes.

If you will have early Chiches, fet them about the time of Barly. The fame.

That Lentils may grow sooner and better.

Lentils before they be fowed, Imeered with Ox dung that is dry, will be better and come forth fooner. The fame,

That Lentils may grow greater.

Lentils will Wax bigger in their podes, if they be lowed, having bin loked in water with Saltpeter. The Same.

Tomike Lupius freet. I will the public

Lupins are made (weet with Sea-water, and River-water, steeped three daies therein : when they begin to be tweet, dry them, and lowe them, and this is given to Cattel with Chaff for good food.

That Pulle may be easily boyled.

When you low them, mingle Saltpeter with the dung; for fo you shall make them fit to boyl. If this fucceeds not, and you would have your Pulle boyl fuddenly, cast a little Mustard feed into the por, and presently those that boyl will dissolve, whether you boyl flesh or Pulse. But if you cast in roo much Mustard feed, they will all boylaway. Democrit.

Of the Secrets of Wood. Chap. 17.

That Wood may not burn with fire.

Wood and Planks smeered with Allum will not burn, nor posts, or dores, or beames, if they be wet with Verdigreafe; fo that a hard Crust be laid upon them, and Allum, and White Lead Ashes be plentifully mixed with painting. Archelaus the Generall under Mithridates gave us an example hereof, in a wodden Tower he kept against Sylla, which he strove in vain to set on fire, as Casar did a Castle made about the River Po, of Larch wood. As Pliny faith.

Many rare things to paint Wood diversly, which Carpenters make use of, to adorn and make their Tables with Checker-work,

and rare Figures.

In the Morning take fresh Horse dung, yet moyst, with straw, as much as is sufficient. Lay upon this, some Wood overthwart, and set some Vessel underneath to receive the moysture that drops from it. If you cannot in one day draw forth as much as you need, you may gather more the next third and fourth day, untill you have enough; then Strain it; and add to every measure of that liqour, of Alum, and

四年 四日

110

THE .

DELT

15

01

Gum-Arabick, of each as much as a Bean; Temper in that liquor what colours you please, and make divers Vessels, if you would have many colours. This being provided, put pieces of Wood into the Vessels, and fet them by the fire or in the Sun; afterwards when you would use them take forth some pieces, and leave the rest there, for the longer they stay in the Vessels, the stronger colour they will have; so you shall have Wood of divers colours, some clearer then others, some brown, some of a middle nature, and no art can ever wash these colours out.

A way to make Ebony Seem naturall. All kinds of Wood may be made like to Ebony, especially the harder Wood, which are brighter, as Box, Cedar, Mulberry, both white and black, and these are the best of all Wood for this purpose, but the black Mulberry is best; Take there these kinds of Wood, and for three dayes put them in Allum-water, in the Sun, or near the fire, that it may only heat: then boyl them a while in common Oyl, or Oyl of Sesama, wherein there is of Roman Vitriol, and Brimstone, of each the quantity of a small Nut; for the longer they are boyled, they will be the blacker, so they be not boyled too much : for then they will be burnt and brittle. If they be rightly boyled you never faw any thing more handlome. The fame.

#### BOOK, X.

Of the Secrets of Mettals.

In Generall, of which, Chap. 1.

Metals in Liquid, as Quickfilver, Chap. 2.

true Metals and pure or per-Sgold, Chap. 3.

those either or hard, and feli, as Silver, Chap. 4.

those either or impure, barder, as Sraß, Cap. 5.

Iron, Chap. 6.

A, less perfett, fofter, as Tin, Chap. 8. Antimony, Chap.9.

Brimfone, Chap. 10.

Pertaining to Metals, burning, as Vermillion, Chap. II.

Orpiment, Chap. 12.

Chrysocolla, Chap. 13. not burning, as are Salt, Chap. 14. Glaß, Chap. 152 | Chap. 152 | Chap. 152 | Chap. 153

Of the Secrets of Mettals in Generall, Chap. I. wash porter and

To transmute Mettals into Calx and water. Those Mettals that are changed into water must be first calcined, (they are made so in Furnaces, with Salt, or else pouring Vinegar upon them, or Salt joyned with the matter whilst it boyls.) Then by water, the Salt being removed, or else being infufed and beaten with the liquid Brais; also Metals turn into Calx by Salt and fire or by

water of separation, or else being attenuated and united to Quickfilver, afterward beaten with Salt, then the Quickfilver is removed by fire, and the Salt by water. Cardan.

Hore brittleness is taken away from any Metal. Make it into a Calx, andput it under dung; afterward do thus; when they are red hot at the fire, that they may be quenched, or projected when they are melters, let them be put in Aquavue often distilled, or use about them Rosin or Tupentine, or the Oyl of it, or Wax, Suet, Euphorbium, Myrrh, artificiall Borax used by Goldsmiths, to make them melt quickly and to fodder them together. For if a Metal be not malleable, unctuous bodies will ofttimes make them fofter, if all thefe or fome of them be made up with some moy sture into little Cakes; and when the Metal yields to the fire by blowing with the Bellows, we cast in some of them, or make them thick like Mild, or clear, then set the Metal to the fire, that it may be red hot in burning Coales, take it forth, and quench it in them, and let it so remain half an hour to drink them in. Or annount the Metal with Dogs greafe, and melt it with that, it will take away much of the brittleness of it, and so it may be Hammered, and wrought under it, whereas before, if it were knocked, it would flye into many pieces. The fame. To reduce Metals into a body.

But if you would reduce Metals into a body, because being turned into a Calx, they are not easily joynd together again, I thought fit to teach you this, because it is frequent to fall out to in our operations. These things retain that force, Chrysocolla, Argal, Alum, yelks of Eggs, Salt, Alchali, Ammoniacum, Saltpeter, Sope: with all thefe, or some of them we make Bals, and in a melting pot, where the Calx is melted, they are cast into it at the fire, and the Metals will return to their former condition: when you know that this is done, then take them forth: yet this is worth observing; that if the Calx be of Gold, it must be reduced by yelks of Eggs, and fuch like things; but Silver is reduced with Argal: but Lees of Oyl is best for this; that when bodies are reduced, they may not want their Lustre, and naturall colour, but may appear more shining and bright. The same.

To draw the more noble Metal to the outside. Now I am about to thew you, how a Man may draw forth the more noble Metal to the superficies, as the ignorant Chymists imagine : for they think the parts that lye in the middle may by their Impostutes be drawn forth, and only the worst of the Metall shall be left within. But they are deceived, because in the superficies only the more lose remiss parts come forth, and only alittle Quickfilver is called out : for all the things that are the ingredients of the composition are corroding, they leave the harder parts, and only polish and make white : perhaps they are perswaded by the fight of old Meddals, where they find pure Brass withinfide, and Silver upon the outfide: but these were Soddderd together and beaten with Hammers, and then coyned with Images; but that is now a very hard thing to do, and I think impossible. But thele are things that polish : common Salt, Allum, Vitriol, Quick-Erimstone; and for Gold, only Verdigreale, and Salt Armoniac: when the work is to be done, they pouder some part of them, and put them with the Metal into the melting pot, and they lute the Earthen Crucible well, and cover it, and leaving a small vent hole, they fet it first at an easie fire, and let it burn there, and that it may not melt, they do not blow the fire with any Bellows: when the burnt pouders fink down, which they know by the Imoke, they open the cover and look into it, but the fire is kindled under the Metal more strong, untill it grow red hot, and when it is red hot, they dip it into thole pouders: or elfe they put it into Vinegar, untill it were clean, and having wrapt the work that is Incered, in linnen Cloaths, they hold it in an Earthen pot of Vinegar, and boyl it along time, then they draw it forth, and cast it into Piss, and then they boyl it with Salt and Vinegar untill there remain no foulnes, and all the filthy Ipots are taken away with the medicament : and if you do not thus find it to be grown exceeding white, do the lame work once again, untill it be perfect. Or elfe you may proceed in order thus. Let the work boy! with Salt, Allum, and Ar-

西西 100 (0 me and he

phil, a

congr

i you

CHETTE

THE REAL PROPERTY.

HE ME

quent

then forth which andt umo lated COLET 00 5

red; Whi

OLID

parts of sales and sales a

itgr

可報

coc

土

417

世中本

古田田

是 其 祖 程 日 自

gal, with water in an Earthen pot; when all the outside is white, let it stand a while; then let it boyl with equall quantities of Brimstone, Saltpeter, and Salt, and let it hang three houres in the middle of them, and not touch the sides of the Vessel, then take it forth, and rub it with fine Sand, untill the venome of the Brimstone be gone: then again boyl it as you did before, and it will grow very white, that it will defend it self against the fire, and not be resulted for counterfeit; you will find this profitable if you do it well, as it should be, and you will be glad, if you will not abuse it to your own destruction. The same.

You shall make Metals and stones look like Gold thus. Take sale Armoniac, white Vitriol, of each a like quantity, Rock Salt, and Verdigrease, three parts of each; make these into very fine pouder, and cover all over with them, any Ring, Stone, or Metal; After that put them so into the fire for an hour, and take them forth and quench them in sresh Piss, wash them, and wipe them. This was an experiment of an ingenious Artisicer. Cardan. Mizald.

An Elixir, or Cerat to transmute Metals. Take first of all, of Brimstone extracted from the same species, be it for white or red, and grind that well a whole day or two upon a Glass body, and loke it with the distilled Oyl of the same kind; for white, four days, and five when you dry it; grind and foke it, and roft it between two Veffels, and do it fo, so often, untill you have made it like unto Wax; then take it as an Elixir, and pour upon every two parts and half of that, four parts of Quickfilver of the Metal whence you drew your Sulphur, and work every species with its own species, and every kind with its own kind, and do not change them; for if you do, you will erre. Also let your Quickfilver be congealed with the water of the Metal; joyn both these Cerats together, and grind them well with Oyl, grind them a long time, and let them to burn at a stronger fire: for this will harden them : then grind them well, and put falt Armoniac upon them, which was rubified with the fire of the Metal, and afterwards let it drink it in well, and renew it every day; fetting it in dung, for this will dissolve it into red water like unto bloud; Let this congeale in a Glass Vessel at a small fire, and when it is coagulated, grind it well, and let it drink in water of Housleek; and dissolve it, and then coagulate it, doing this thrice: for you shall have a Cerat, that if you cast it up-on Silver, it will be changed into Gold, or project it upon both kinds of Lead, or upon Iron, and it will transmute them into Gold. And this is the way to colour red; now you know this. But the way to colour white, is quite contrary to this: Which is, That you must take of the Quicksilver of that, or white Sublimate four parts, and of the white Brimstone three parts, grind them well, and cast upon them, of white falt Armoniac extracted out of the stone two parts, and grind that well, and let it drink in fufficiently water of falt Armoniac diffolved, and tofte it well gently, and do this three times; but every time bake it more vehemently. After this, grind it well, and let it drink well in water offalt Armoniae, and let it frand with its liquor, and put it into a Glass vessel, and bury it under ground, and change the dung every day, and do so untill it be dissolved. Afterwards grind it, and congeal it, but let the fire be very small untill it be congealed, and it become white or of an Ash colour; and when you find that colour, return to grinding, baking, and congealing, untill it be congealed and grown white : but first dissolve it, that it may run like water, and be not a Lump, or troubled, and you shall have a Cerat very white. Cast one part of this upon 10000 of red Copper, and it will be made Silver. This is the opinion of them, that have worked with Quickfilver and Brimstone : But they that work with Quickfilver alone, proceed thus. Take Quickfilver fublimate fixed, and of Quickfilver diffolved, equall parts, grind the fixed, and let it drink in the diffolved, and grind it well, and bake it alittle; do this untill it have drank in all the diffolved; then grind it, and let it drink in the diffolved by grinding it untill it grow like Marrow, and so long let it drink in, untill it hath drank in its own quantity: and bake it between two Vessels, with a strong fire, and if it smoke, return to grinding it again, and sublime it again, untill it will be dislosted in the lower Vessels

wil

bok

(050

bon afir tra

京の

ma

200

med

mp

di

gio

the in the mal

for then it will be well done, and fend forth no fmoke. Project with this, and it will make a good colour : afterwards let it drink in its own vvater, and grind it well and diffolve it. It will diffolve in a finall time, afterwards congeal it; and project of it upon vvhat body you pleafe, and it vvill vvork vvonders, chiefly upon from a for it will loften that, and turn it into good Silver. But fuch as work with Bringftone alone, work thus; Take of the whited and fublimed, four parts, and let it drink in its own vvater : or vvater of Quickfilver. If you defire to have it only with its own vvater : do with it as you did and alter not, and you shall make Lead, Tin, and Brass, good Silver, and so shall you do Quickfilver in its season. But you must know that Quicksilver is congealed in both kinds of Lead : also prepared Brimstone is congealed in Iron. You shall know how, because it is a great Secret; The vvay of operating is with falt Armoniac, to take of that distilled and the Cerat one part, and let it drink in its own vvater grinding it ftrongly; diffolve it, and if it be hard to diffolve, let it drink in its own vvater and grind it vvell, so it will diffolve : and when it is made clear vvater, make it congeal in a Glass veffel by a vveak fire, in the Sun, or upon hot Embers : and this is a huge Secret : and thefe are the four waies of making of white. But to make red, you must put for every white thing a red thing, and grind, let it drink in, and bake it, dissolve, and congeal it; it is in this all one with the former. And if you unite Quickfilver and Erimstone, and prepare them with falt Armoniac, it will be excellent : and if you joyn Quicksilver and Brimstone, and salt Armoniae, and prepare them with their vvaters, it will be good. Wherefore give God thanks. Rhasis in his Book of Ex-To guild all Mettals.

Take liquid Vernish, one pound, Turpentine, Oyl of Linseed of each one ounce,

mingle them all well, and keep them for ule. Alexim.

Some report that a Candle lighted of Mans fat, and brought to the place where the Treasures are hid, will discover them with the noise; and when it is near them it vill go out. If this be true, it arifeth from Sympathy: for fat is made of bloud, and bloud is the Seat of the Soul and Spirits, and both these are held with a desire of Silver and Gold, to long as a Man lives; and therefore they trouble the bloud; As therefore there is an Antipathy between a Wolfskin and a Sheeps skin, though they be both deed, to here is Sympathy. But a Spaniard found our Treatures better without a Candle. Wherefore there is no more certain reason of things, than when they are directed by Principles of Prudence; which are next to naturall Principles, tetched from far : but other things that are taken from propriety; are either false or very rare. As that is, that a piece of Bread cast into the Water will swim directly over the body of a Man that lyeth drowned at the bottome. But to return to my former History. I must search out the truth by a Generall Method. If therefore this Candle be shaken by reason of Gold, Silver, or Jewels buryed under ground, it is reafon it should be moved also by Treasures above ground, and by this vvay such things are enquired into. There is indeed one fort of Loadstone that will draw Silver, if then a small piece of Steel were touched with that Loadstone, and were let so that it might turn about, it vvould turn to Silver, especially a great deal, though buryed under ground. This must be an excellent stone, but I never saw such an one. Another way is taken from the found; for it finks down most commonly, and where there is an emptine sit vill refound. And again where a Wall is over thick : that is a token that something is hid there, and this is easie for those that take heed to it; which others cannot imagine. Also some places are tryed with long Steel piercers: fuch things are done by Candles. Cardan.

The way of the true Art of Calling for Meddals, and all other Formes that are meanly extant, to cast them of any Metal, Cry-

First of all you must have Earth ready wherein to imprint your Formes : which fince it is diverfly made: I shall set down divers kinds, and of them the best: that if all cannot be had, we may use them that can be got. But know this first, that of

171

TOTAL Y

of Est.

100

those we shall set down here, we may use them severally, or some mingled, or else altogether; for they are all the best. The head of the whole Art is, That the matter we make use of, be very fine, and almost impalpable; because Pictures are more cleanly expressed in it : also it more easily receives all forts of Metals into it, without corruption, and it is better mingled with the Magistral, and being dryed will grow harder. Lastly, It will serve for many meltings, that you need not break it after the first melting, and so be constrained to make a new Forme. But to express Pictures in Lead, any Earth will fuffice, so it be very fine, and well moulded with the Magistral, as I shall shew you.

The first Earth fit to Cast Metals.

Take the stone Emeril, wherewith all kind of Armour is polished, as much as you nced, let it be finely beaten, and made red hot in the fire, as I shall teach you underneath, then wet it like paste, make Forms of it to express Figures with; These Forms will remaine good many years, if they be carefully preferved : and if they should be broken they must be poudred again, and mingled with the Magistral; for so they will continually grow better.

The Second.

Take pieces of Pots of Clay of Valencia, or of Trequenda, in which Pots Glass-ma-kers use to hold their melted Glass in the Furnace. And it will be better to take the bottome of those pots, or else the pots themselves, from the middle to the bottome, casting away the Glass that sticks about them. Or if these cannot be had, take those that can. Take therefore new Chrucibles of the Goldsmiths, as many as may equall the weight of those pots I spake of before : brusse all these to pouder in a Brass Mortar; then grind them with water upon a Porphiry stone, and then by baking it again, make the pouder small, as I shall shew you presently, let it be kept in Leather bags, or in wodden Boxes, that it fly not into the Ayr, being lo fine. The Third.

Take the shels of Limpius, or of Sea Squils, shels of Eggs, of each alike quantity, make them red hot in the fire, and as I said before of Potters Earth, let them be often ground, and kept the fame way.

The Fourth. Set the filings or scales of Iron, or both of them very clean and pure, in an Iron Helmet into the fire, or in some other firm substance, pour strong Vinegar upon them, and let them stand in the fire eight houres; Then pour on more Vinegar, and let it be made red hot in the fire, afterwards grind it, do it again, as I said before, and

The Fift. Take a Pumex stone red hot and sour times quenched in Vinegar one part, filings of Iron two parts, mingle them, and make them red hot in the fire, as before, then grind them leverll times, and lay them up as the former.

The Sixt. Take the burnt bones of a Weather, especially of the head which are best; then grind and fift them, as much as you need, fet them in some Iron vessel so long at the fire, untill they be very red hot, then put as much Suct to them as you can hold in your hand; ftir them well with an Iron that the Suct may burn with the pouder, then leave it so at the fire half an hour. This done, take it from the fire, grind it, make it red hot in the fire, moysten it; when you have done this again, it will be very fine and perfect.

The Seaventh. Take Cuttle bones burnt, poudred and fifted, what is sufficient, and do this as Ieven now said of the Weathers bones. This Paste is also made of a certain Earth brought from Tripolia; also of Vine Ashes, of burnt Paper, of dry Horse dung burnt, of Bricks, Bolearmoniac, red Earth, and such like, which will never melt nor stye in the fire, nor make any scales or crusts, but finely receive any impressions.

The way to reduce the foresaid Earths to such fineness, that they can hardly be felt.

Take the foresaid Earths, or Pouders, which first bear very fine and sift them, and

Secrets of Casting Meddals.

Book X.

del Res

COS

25 1

two.

10 日 日 日

Cas

WE 100

はない

you

Œ :

DAD

胡

TIC CC

4

W

四四四

ti

190

then set them in the fire in some strong Pot, untill they be red hot, and then grind When you have done this fix times put that inthem again with water or Vinegar. to a Glazed Porringer, pouring as much water upon it, that it may I wim four fingers. breadth above it; mingle them alittle with tome flick, that the water may be troubled; then let it stand alittle, and pour off the water by degrees into some clean velfel; when this is done, pour iresh water upon the matter, and mingle them as before untill it grow muddy, then let it rest alittle, and pour it off gently to the first water you poured off. This you must do so long, untill all the fine pouder be carried away with the water. And if any gross pouder be left in the first Porringer, beat it again as before, and add it to the former water fet afide. All thefe things being dispatcht, leave the water fo long, untill the pouder be all fetled to the bottome; then pouring the water gently off, dry the pouder; then once more beat it finely, and lift it through a fine hair or very thick Silk or Lane Sive, and you shall have a most pure pouder,

which you must lay up in some Vestel close stops, that it flye not away.

The Magifted water, as they call it, to temper the forefaid ponders.

That the forefaid ponders may be temper'd, formed, dryed, and flick together, and not flye, or fall into pouder, such a water, called a Magistral must be provided, which is this. Take common Salt what is sufficient, wrap it in a wet linnen Cloath or put it into a Chrucible, and let it amongst the hot coles, or else in a small pot well Luted, where you can blow the fire with Bellows strongly for an hour; when it is cold grind it, being bearen small, put it into a Glazed Earthen Pot, and pour as much common water upon it, that it may fwim above it four or fix fingers breadth, and mingle it fo long at the fire, untill it be diffolved; and being cold, strain it twice through a fine wollen Cloath, which is called filtring. The use of this water is to movsten, and to make the Earth tough, as I shall tell you underneath. This Magistral water is made also of whites of Eggs, if they be well beaten with a Fig Tree stick, untill they froth; and when they have stood so all night, strain the water that is under the froth, and keep it for the pouders, to make them like paste. This water is better, because the Earth is made more tenacious, and the formes more express and more fine. Wherefore some add to the former water of Salt some of this water; others add Gum water, as their judgment and practife makes them think most con-

Of things that must be ready for the Art of Casting.

Since that the work of a good Workman cannot be perfected without the proper Tools, it is necessary to thew you what Infruments are needfull for this Art. First, You must be carefull to have Coles ready of fresh Wood, that is hard and dry, as also Chrucibles without flaws, and cracks, nor white nor black, but Aft coloured; Moreover some thick Paper must not be wanting to ventilate the Chrucibles. Also a hollow Cane to blow out filth out of the Chrucibles. Also a crooked Instrument to take forth Coles from the Chrucibles; alfo a Prefs, wherein the Forms which they call Stafetæ may be prefled; that the Metals melted may be more fitly poured in. To these there must be two or more Plates, polished and light, of Nut Tree, Oake, Box, or Brass, between which the Formes may be held fast, and turned. There must be two or more Plagets of Wool ready, by which those empty spaces in pressing of the Forms may be filled up. There needs also a Rule and Compass to measure, and see forth certainly the proportion, of the Forms and Pipes, the Metal must run through. Further there must be an Iron, like a Spade, but with a sharp point, and cutting on both fides, that the wayes of the Forms through which the melted Metals pals, may be made clear. If you want this, do it very carefully with your Knife. You must have also alittle Oyl, and Turpentine, wherewith Paper, or some Cotton Threads must be made wet and fet on fire, that the Forms being now dry within, may be very well imoked thereby, to make the Metal run the better. But because sometimes the hollow places are too much filled with fmoke, that they are made uneaven, you must have a Hares foot by you, both for other uses, and also to wipe away the Sount; There must be two brushes also, one with thick Bar Wyer strings, another with havre; such as they make Combs clean withall, wherewith the work before

泰

m.

Vet-

fore

212

in the

HH

WY.

3 10

η.

0:

虚 •

以 地 放

器

and after casting must be kemmed and cleanfed,

The way to melt and Cast Meddals.

First take that Meddal you would Cast, and put it into Vinegar, to which is added some Salt and burnt Straw, then wash it, and tub it well with the foresaid hayre Brushes, then wash it with water, and dry it with some clean Wollen Cloath. This being done, place one part of your Frame, namely the Female, upon a Plate of Oake or Brais as I faid : and so that the middle part, namely that which joyned to the other, may lye looking downwards, whatever you mean to cast, bethey Meddals or any thing eife, you must first cleanse them, and set them in a right passage to that way, through which the melted Mettal must run, especially if it be but one Meddal. But if they be two, let them be placed to in another Forme, that there may be a place left in the middle for the Metals to run in by ; But if there be more Meddals than two; each must have a passage made to it, that may carry from the mouth or middle Pipe, the Metal to every Medals impression. This being done, take of the foresaid Earth as much as you please, and being well sisted, put it into a very large Dish, pouring upon it by degrees the Magistral water, untill it be made so moist, that crushed between the hands, it will not flick, but like dry flower, it will fland with a print of the hand closed together; when this is thus moulded, put it upon the Meddals in the Forms, and pressit on well with the fleshly part of your fingers, and then with your hands, which will be better done, if you put the other plate above it; after that with some cutting Instrument, and a Rule, let the Earth that sticks about the Forme, and is superfluous, be carefully and equally taken away. This being done, a Wollen Cloath must be laid upon it; then a Plate, and so closely the Forms must be turned with both hands; then taking off the upper Plate, if any thing flick it must be well and lightly taken away with a Hares foot. After this the other part of the Forme must be taken and filled with the same Earth, and it must be pressed well down as before, and made equal with an Iron Instrument; then with the top of the Instrument, the upper part of the Forme must be listed up alittle, and be taken cleanly off with your hands, fo that the Meddal may be taken forth; and if it cannot be taken forth eafily, it must be lightly lifted up with a thin point of a Pen round about, or else with the point of a Knife, striking it cross wayes, that thereby it may be taken off from the Form against it. But if the Meddal do not appear perfectly printed, it must again be pressed in a Press between two Plates. All these things being dispatcht, with some crooked Knife that cuts, with Rule and Compass, the Pipes being divided, must be dried at the fire, and by and by with Cotton wet in Oyl and Turpentine, and set on fire, they must be smoked : and if any superfluous sume be left, it must be taken off with a Hares foot. But if you would pour in your Metals, put the Forms between two Plates with a Cloath into a Prefs, preiling them alittle: then pour in your melted Metal, if it be Silver or whited Brass, it will be known by its brightness and clearnels; but if it be Tin, it will burn if you cast Hards or Paper upon it; and it will flore excellent well hither and thither, if it be not Tin; for then you must cast in a hundred part of Sublimate, and an eight part of Antimony; for fo it will not only run well, but will be a harder Metal. Moreover when the Forms are cold, you must take out your Meddal neatly and keep it; And if you would cast another, you must smoke your Forms again, and then press them under the Press as I said before, and this must be done as often as you would cast more Meddals. But if the Forms feem yet sufficient, and fit to pour in more Metals into them, they must be kept in some dry place; but if they be broken, they must be poudred again, and so the pouder will be made better, as Isaid before. Again Meddals be they new or old, must both be boyld, and put into the white water, especially if they be not of Tin, as I shall shew underneath.

To make Meddals of liquid Chalk with a Pencill, which is far eafier than with the former Forms, but thefe are not only niefull for one times nor are there any things made with these much finers

and they cannot again be touched by the Pencill. Take a fine clean Meddal, well washed and dryed as I said, then annoint it with

Book

odsta

102 to 14

moto my de

WALLE

AHIM

imi

日 日 日 日 日

inti

Ti

walk part a This doop wars fo fa

Book.

Bu

they

Dit

and bere

Col

Oyl, and with the following mixture, which is this : Take the forefaid Lutum Sapientia, dried in the Sun or at the fire, and made into very thin pouder, and fifted, as much as you need; then make this moyft with common water, annoint the other part of the Meddal: then dry it, and again annoint it with the forefaid Lute, but somewhat thicker, and dry that. When you have done this sour times or oltner; the other part likewise that was first announted with Oyl, must be announted fo that the whole Meddal must be covered over with this Clay, especially if to take forth the Meddal you would not divide the form in the middle. But it otherwise, before the other part of the Meddal be annointed, the Clay that sticks to the Meddal must first be sprinkled over with Cole dust, that the other part being added to it may not stick to it, but may be casily taken away. When you have done this, moysten the other part of the Meddal also with the foresaid Lute, do it on with a Pencill, and that being dried, lay it thicker on, and dry it, and do this four times, or do it as you did, when you made the first. But before the Lute be well dried, you must lightly cut away the superfluous parts with a Knife, that they cleave not together; I mean the parts of that were strewed with Cole dust; But when it is well dried, those joynings must be lightly lifted up with a Knife, that the other part of the Forme may be taken off from the Meddal. When that is taken away, then take away the other which will be done if you strike the Clay lightly with your Knife, the Meddal hanging downwards; All this being ended, take both parts of the Form, and first make a hole on both fides, through which the melted Metals must run; then with some I-ron Wyer, bind the parts well together, and bake them in a Furnace, or in burning Coles, until the Coles be burnt out. And if they should be baked before the parts be joyned, it is no matter, so the parts be afterwards well bound together with a Wyer. But when you would poure in the melted Metals, put them between two Plates, or in a Press, and pour in the Metal, when it is cold take it forth, and you shall find your Meddal gallantly cast. If the work he of Silver, it must be whited as I shall your Meddal gallantly cast. If the work be of Silver, it must be whited as I shall thew hereafter; if of Tin, it needs no whiting; if it be Gold it must be coloured with Verdigrease and Piss, but Meddals neither of Silver or Gold are to be cast in Chalk Forms, but in the former Frames. This Lute being thus prepared, Meddals may be otherwise and more easily Cast, namely thus; Take that which must be formed, and let that be made with Wax and Turpentine mixt, by and by thrust that Wax into this Chalk or Lute, as I said, then make a hole: after that set it at the fire, so that the hole may be in the lowest part, through which all the melted Wax may come forth. This being done, pour in the melted Metals. Alwaies obferve this, that the Formes, however they be, must be hot when you pour your Metals in.

A white colour for Meddals, and to white other works, and also to polish

Take Meddals or any ancient work, or new, and lay it upon fire Coles, tutning it so often, untill they be of an Ash colour; then with a cleansing brush of Brass Wyer, when it is well cleansed, put it into the following water, which is thus made. Take Sea water or common Water what is sufficient; white Salt one handfull, Argal, Allum, of each a quantity. Mingle them and boyl them in some Glazed Vessel; Is the work be Brass to be whited sophistically, take of Silver leaves one penny weight, salt Armoniac one ounce and half, Salt peter two drams and half. Mingle them and put them upon light fire Coles, in some covered vessel, but with a hole in the middle of the cover, so long, untill all the smoke be vanished, when they are cold beat them very sine into pouder; when you would use them, add one ounce of this pouder to the former water, and boyl it one half quarter of an hour, then put in your Meddals of other works. This being done, pour the water and the works also into clear water, and rub them with Argal and the other Ingredients less in the bottome, very well; lastly, wash them with cold water and dry them.

四十二日 中国 日本日

阿拉西西西山

ye.

ull

distant the same

TI TI

Of the Secrets of Quickfilver. Chap. 2.

The congealing of Quickfilver, with the fwell of Metals.

To congeale Quickfilver with the fent of Metals, and chiefly of Lead, is performed thus. Purific your Lead, and separate it from Dross, when it is melted cast it into a hole, when it begins to be cold, thrust in the sharp point of a stick and pull it forth again, and cast in sloting Mercury, and it will congeale. Beat it in a Mortat, and do u often, when you have made it hard, melt it often, and pour it into lair water, doing it over again so often, untill it be hard and will be hammered. This is no unprofitable thing. The same.

There is another way to congeale Quickfilver in an Iron Helmer or Dish, cassing water upon it in which Smiths quench their Iron, and add to it twice as much of falt Armoniac, Vitriol, and Verdigrease; and let it boyl at a very strong fire, alwaies stirring it with an Iron Spatula, and it the water be consumed with boyling, pour on more hot water, that it may not boyl over; so in six hours you shall have it congealed, then with a linnen bag, or piece of Leather, press it forth forcibly with your hands, and what you can press forth must be congealed again, untill you have congealed it all, so put it into a Pressers earthen pot with Fountain water, taking from it all dress and filth that is useless, and mingle it so in the same pot, and thir it, untill you have it clear and well washed; Set it three nights abroad in the open Ayr, and it will harden for the Test. The same.

Take Verdigrease, common Salt, of each two drams, pouder them, and mingle them well, put them into an Iron Skillet, pour water on them, and let them boyl so long until the water be purged, and clean, then put into the Skillet Quicksilver one ounce, boyl them again, stirring them still with an Iron Spatula, take them forth, wash and dry them well; Aster this take Tutie one part, and root of Turmerick one part and half, beat them fine, and make fine pouder of them untill they grow black; This done, lay that black pouder with congealed Mercury one row above another, stopping the vessel, and well Luting of it, then set it six hours at the fire again, alwaies heaping on Coles, until the Skillet be red hot. At length they will melt, and so shall you have Mercury like to Rhenish Gold. One of an old Germane written Eook.

But if you would give the Tincture of Gold to Quickfilver congealed, and to do it handlomely, breaking it into small pieces, you must fill a Crucible with that, and the pouder of Cadmia, one upon another in order, there must be a mixture between them, of Pomegranates, Pils, and Raysins, and Cyperus roots of India, called Turmerick, beat these fine and wrap them together, and put them in, Luting the vessel, and drying it in the Sun, or by the fire, then set is on the fire six houres, that it may be red hot, then blow it six houres with Bellows, and force it untill it run, and when it hath run, let it cool all cover'd with Coles, and you shall find most shining coloured Gold. The same.

There is another way to fix Mercury, and congeale it with Brass bals. Make two round Brass half Sphears, that they may penetrate one into the other, and that there be no vent; put into them Quickfilver with an equall quantity of white Arfenick, and Argal well poudred and fitted: Lute all the joynts without, that they breath not forth, so let them dry, and heap Coles upon them, and cover them six houres. Lastly, Make allred hot, then take them forth, and open the Ball, and you shall find it all congealed in the concavity of the Brass ball, strike it with a Hammer, and it will fall down, melt it, and cast it forth, and it will be of the colour of fine Silver, and will be soft, white, and malleable. Or otherwise. Put a Brass cover upon an earther pot, and kindling the fire, you shall find the Quicksilver strangely heaped upon the

cover.

bok X

Total ments

cover, and it will be congealed more strangly: Others do it with Iron, Steel, Silver, and also Gold, and they use divers wayes; It is good to know some of them, and it will do no hurt to remember it. The same.

To congeale Quick filver with Ogl.

There is yet a way to congeale Quickfilver with Oyl, and I find that many have done it so, yet it retains something, and is a very ingenious way. Make a vessel of Silver, red Arsnick, and Copper, like a Jugg, and cover it well with a cover, that nothing breath forth, fill it with Quickfilver, and Lute the joynts with some Lute, the white of an Egg, or Rosin of the Pine tree, as it is usual, and hang them into an Earthen pot sull of Linseed Oyl, and let it boyl twelve houres, take it forth, and strain it through Straw or Leather, and if any be not congealed, renew your work again, and let it congeal; If the vessel should be long in congealing, as much as you find of the weight of the Copper and Arsnick to be lost, you must make good: you may know that by the weight, and so use it. The same.

To fix Quickfilver congealed. Now I come in order to thew you fome wayes of fixing; for thele alwayes follow congealing, and sometimes retain more or less parts. Wherefore the fixing of coagulated Mercury proceeds thus, and there is reason for it. Provide an Earthen Crucible that will endure the fire, and put into the bottome of it, the fcrapings of Elder roots, preffing them in with your hands, and fitting them, then make another lay of Chrystall Glass, beaten in a Mortar, and fifted very fine, then another lay of Pepper, Ginger, and Cinnamon, then put in your congealed Quickfilver, then fill the Veffel with the same pouders in a preposterous order, cover it with a cover and Lute it, and fet it awhile in the Sun, that it may grow white : So turn the Veffel, and putting an eafie fire of Coles under it, and let it be red hot a top one hour, and underneath afterwards, and it will melt, and you shall find pure silver. If any other thing remain, it will flye away, being not congealed, and of all the wayes that ever I saw, this was the best, and succeeded best; you may try them all, or else it fixeth into that body, that it was congealed into. There is another way of fixing Quickfilver, that is not less profitable, you may use it if you please; pouder Saltpeter and Argal very fine; putting fire to it, it will flame and burn, and what remains turns into water, and the moysture will flye away with an easie fire, and the Salt that remains, must be min-gled with three parts of Artificiall Chrysocolla burnt, (for it burns like to Alum) and two parts of falt Alcali, wrap up that which is congealed in a ftrong veffel, put fire a-bove it, then about it, laftly, beneath it, every fix hours, and they will fix some parts of the congealed body. The same.

The fume of Metals, especially Lead, will congeal Mercury. Cardanus.

The may to prepare and harden Quick silver, that it shall be malleable and may be wrought into many Formes. Of which Silver innumerable Statues are made at Vicuna and

Newstade in Germany.

Melt Lead and whilst it is hot pour it into a round vessel, and press in a round stone, to make a hole, cover it with a Linnen Rag and put Mercury upon it, and leave it in hot Embers untill it be hard, then breaking the Mercury into small pieces, cast them into sharp Vinegar, and boyl them a quarter of an houre: or let the pieces of Mercury broken boyld with the juyce of Bugloss, alittle Vinegar and Oyl as I said before, for this is the way to kill it; Having done thus, add falt Armoniac two drams, Vinegar half a measure: leave the Mercury in a covered pot well Luted, eight or ten dayes, that the Vinegar may take away from the Mercury all the dulness; after this set the Mercury in the fire in a Luted vessel round about, untill it grow red hot by degrees and crack; Lastly, Hang the Mercury in a pot with Brimstone at the bottome to cover it, and Lute it, and set it into the fire, that it may grow hot by degrees, and the Mercury may receive the smoke of the Brimstone, do this for a moneth once aday, and the Mercury will run and be Hammer'd. Wilhelm and Marrine the Chymistros Frederick the Emperour.

To

DOCKY

15 702

L you

follow

oug.

E Blots

tlyd

r,mi

ing an un,z

S Was

phat

na kis er put-

emin-

n)zd fin-

int:

till

五日日 日日日 日日

To make Quickfilver of Lead.

To take thin Plates of Lead, put them into a Glass vessel, placing common Salt between them; then cover it very well, and leave it nine daies under ground, and you sball find Quickfilver. Fallopius.

The way of Mercury Sublimate or Quick filver that Chymifts and

Goldsmiths ufe.

Take Quickfilver one pound, put it into a wodden diffi, add alittle Vinegar and Saltpeter; mingle them well, and kill it; then add common Salt beaten half a pound, Safepeter poudred fix drams, Alum burnt and poudred one pound and halt; mingle them well, and fur them into a Luted Retort, up to the neck; and adding above it a Limbeck, distillit in Ashes, first with an easie fire, untill all the moysture be come forth, which must be kept. For it is usefull for divers things, chiefly to insuse Quickfilver. The moysture being drawn forth, augment the fire continually, untill the Quickfilver feem white, that is, untill it feem to fwim above the dregs, like to white Bread. If you would have it afcend higher, as far as the neck, put Paper about that part that appears bare outwardly : then augmenting the fire more, you shall see it ascend by degrees, and the Mercury come up to the very top like a Bell; when they are cooled, and the Limbeck is taken off, take away the Retort, and make it clean on the outfide, least being any where broken the Silver should be defaced. Lastly, Break the Retort to come at the Silver; yet so that you be not hurt by the smoke. This way you may provide pieces of two hundred pound weight in one Recort, so you observe the due proportion of things. Moreover pound the matter, that is, the dregs left in the bottome, and diffolve them in fealding water, and ftrain them; then boyl them, and dry them; There will remain a matter like Salt in the bottome, mingled of Salt and Alum. This Saltpeter is good to sublime new Quicksilver, adding to it Vinegar, or instead of Vinegar, the water distilled by subliming. Moreover the forefaid Quickfilver fublimed with Alum, or Vitriol, may be eatily fublimed again, if for every pound of the Silver fublimed, you add Salt or burnt Alum, or Quicklime half a pound, and then put them into a Retort to sub-lime, as before. The sooner it sublimes the fairer and better it will be, and the oftner it is sublimed, so much the sooner and better it will be done. The Alchymists that follow Geber and Dr. Thomas, and other Philosophers, take fometimes to much labour in subliming it, that they make it fixed. Some have sublimed it a hundred, fome two hundred times: yet lost all their labour; which will certainly fall out, because they ever added the dregs, namely, Salt, Vitriol; or Alum. And fince it is the nature of fire, to stay and bind things, that would flye away, it is plain, the oftner they were fublimed, the harder they would be. But that part which by degrees was ftopped, being alwajes mingled with the dregs did never appear. Wherefore they did not confider the causes and wayes as they ought, and they saw the sublimate wanting by little and little, they tather thought it flew away, or wasted in the fire, than that it was mixed with the dregs. When then any Man will proceed Philosophically to fix sublimate, he must three or four times sublime it with Salt or Alum burnt, or Quicklime, or Vitriol, as Ifaid; for fo it will be purged not only from all Earthly matter, but from all superfluous moy sture. It is purged from earthly matter, because it remains in the bottome of the Retort, with the other dregs that is with the Salt, Alum, and Vittiol: and from the superfluous moysture, because partly by evaporation, it is resolved with the Vinegar, and partly by often subliming it doth in some wise get the nature of fire; and these are the chief causes to fix it; for those two are the principal, or rather the only parts of fixation. And in this Propofal, I understand nothing by a thing to be fixed, then to be boyled or baked, and to have so great affinity with the fire, that it will flye no more, nor wast in the fire. Wherefore when it is three or four times sublimed as I say, it will sublime by it self without the addition of any other things, to often untill it remain fixed in the botrome, and will not flye not diminish with any force of the fire. But if you would prepare it fooner and eafier, proceed by this most fecure and philosophical way: namely, they being sublimed three or four times, as I faid, add the fourth patt of

B00%

mix di

Bit

kitz hai,

200

STATE OF THE PARTY OF THE PARTY

- 0

and Wa

ink ish

Alm

mi

no

お の の 所 に 下 に

ha

智

世界の

most pure calcined Silver, as I shall teach you in the proper place, which being excellent well mingled and fublimed, mix altogether, namely that which is fublimed, with that which is left in the bottome, and pouder them, and fublime them again. This must be done so often that it will alcend no more, but stay at the bottome in the most vehement fire. And so it will be perfect, white, clean; will melt, and is penetrable. And if any one would make a greater quantity, and cannot add a fourth pare of the best Silver, let him take some part of that which is three or four times sublimed: to which add a fourth part of pure Silver, and sublime it as I said. These things being done, take this fixed Silver, and add to it of Quickfilver, fublimed before, but not fixed, three parts, and mingle them, and sublime them as Isaid, untill it doth remain fixed. And if yet you would make more quantity, add again three parts of that which is not fixed, and do as before untill it be fixed, and so proceeding continually untill you have quantity enough. This is a better way then to sublime it altogether once. Because of times what is volatil is made fixed, and what is fixed volatil, which Philosophers commend, for it is so made more fictorun, more penetrable, and of greater virtue. And all the secret consists in this way of subliming, as I now faid, which way the chief Philosophers, and excellent Geber, followed; only they keep it very close, whether it should be sublimed; though he cals it Quicksilver, yet be understands something else, which though it have some similitude with Quicksilver, yet it is apparent, it is brought to some more perfect degree by nature : as for example, Paste is made of meal, not by the first way, but being reduced to more perfection. But this high Science can proceed from none but God, who doth not grant it unto all, but to whom he please, and takes it away also, as all Philosophers grant. Alexin.

To call forth Quick filver from a body. Oyl of Brimstone, if a body be loked in, it will call forth the Quicksilver forcibly. Annoint your body with it presently after bathing. Hollerim.

And it is admirable, that one who is annointed for the Neapolitan difease, if he hold a Gold Ring or Meddal in his mouth, and roul it up and down with his Tongue, the Quickfilver that enters into his body by the Unction, is drawn away by the Gold, and cleaves to the Ring, and it will not be restored to its former brightness, unless it be put into the fire. Lemnius.

To extract Quickstver out of Lead. You may also draw Quickfilver out of Lead thus : Cast the thinnest filings of Lead into Aqua vita, that hath no superfluous Fleagme, adding thereto some Argal and Salt, or that may be as much as one half of it, and let the water fwim one quarter above the Lead; cover the mouth, and for one moneth bury it under the dung, then take it out, and in a Glass Retort, that it may not ascend with difficulty, putting fire under, distill it, and you shall see the Quickfilver ascend in drops : when you fee these marks, increase the fire, and receive it : Or otherwise you may get more Quickfilver an eafier way. Let an Earthen pot befull of small holes at the bottome, let it stand in another Earthen pot, and stop the chinks close, set the pot into a low hole in the ground of the same bigness, tread the Earth round about it only with your feet, but fill the upper part half full with Quick-Lime that never felt water, then put in your filings of Lead beat thin, and fill up the total again with Quick-Lime, that the Lead may be placed in the middle, and cast upon it Boys Urine, then fet a cover on the top, and stop close all chinks, make a vehement fire above it, and cover it all over, for a wholeday, for by the force of this violent fire, the Quickfilver will drop down through the open holes in the bottome, into the veffel underneath, and will be a fixt part of the Lead. The fame.

Mercury, or if you will Quickfilver, may be fixed, and receive a Tincture the fame way, Take Saltpeter, and Romane Vitriol, of each three drams, put it into a Chymical veffel, to draw forth the water; cast away the first and keep the last; that is, the water that drops when the Limbeck is red hot; you must keep this diligently without any blowing; The use is this; Take the best Mercury purged as it should be

Cia,

201

M NE

STATE .

THE PERSON

one ounce, Brimstone two ounces, and of the foresaid water three ounces; Let them all stand untill the water grow clear. Distill this again with its sediment, and at the bottome of the Limbeck you shall find Mercury, fixed, red, compleate; I heard of one, to whom I told this Secret, that he without distilling the second time, made Mercury to be as I said now; but that it was too high a red colour, yet the body of it was to hard and fixed, that neither fire nor Hammer could prevaile against it; as he tried. But if that good Man had asked me seriously, he might easily have learned at one boyling to have that colour exact and full; he that hath any ears to hear, let him now prick them up, and only give me thanks for such a Secret for nothing, and let him freely give part of his gains to the Poor. Mizald.

Work and rub very well twice or thrice, purged Quickfilver.

Work and rub very well twice or thrice, purged Quickfilver with falt Armoniac and Pils, and afterwards with Salt, I shall speak of underneath; alterwards rub it again twice or thrice with Pils, every time straining it through a Linnen cloath. This being done, put the Quickfilver into a Crucible, and set it at a temperate fire, and when it is hot, put in burning coles, and when you find that it changeth the colour of the stame of the fire, increase the fire by degrees, until the stame be blew; then heap on fire apace; and blow well with Bellows, you must be diligent to do it. And if you see it to be fixed, and will not smoke at all, take it from the fire, and you shall have excellent Silver; the Salt is thus made. Take common Salt what is sufficient, dissolve it in Fountain water, then filter it; boyl it again, untill the Salt appear in the bottome, use it as I said. Fallopius:

Quickfilver purged from filth is put into a Viol, and is dissolved upon Embers with an equal weight of Aqua forth, then by degrees it is distilled off in Sand, untill a roll pouder remain in the bottome, that is afterwards put into a dish, and is gently feet to heat at the fire; or esse in an Earthen Glazed Porrenger; the strongest burnt Wine is sometimes poured and burnt upon it: this being burnt, the pouder is soked in Rosewater, and then dried, after that it is again mingled with Wine, the Wine is burnt upon it, and then it must stand in a hot place to dry. Some dissolve sour ounces of Quicksilver in six or eight ounces of Aqua fortis, distilled of Saltpeter and Alum of each alike quantity: then they distill off the water untill the pouder be dry, and they burn it gently in a Porrenger, and they keep it in a hot place, least if it take moysture, it should return to its former state.

Oyl or Balsam of Quicksilver.

This is done when Quickfilver is purged in the Calx of the Lees of Wine dried: and then is sublimed by Vitriol, Saltpeter, and Alum: after that it is digested in the spirit of Wine rectified, untill it turn to a thick fatness. Hence a Liquor is drawn, and in Sand it is forced with a vehement fire, untill the moysture distils forth like to Milk; it is then poured on again, and the whitest and sweetest Oyl, void of all corroding qualities will come torth; which is the best Oyl of all Metals. If Gold be digested with this, and congealed afterwards, a most excellent Magistral or Elixir may be made, as some say with it. Paracelsin.

## Of the Secrets of Gold. Chap. 3.

If you defire to augment your Gold, if it be made into a veffel or any thing else, and the weight doth not answer the bigness; rub the Gold with Quicksilver with your hands, or singers, untill it drink it in, and sticking to the superficies, make the weight as you would have it: then prepare a strong Livirium of Quick-Brimstone and Quickslime, and cast it to the Gold into an earthen pot with a large mouth, and putting a sew live Coles under ic, let it constantly boyl so long, untill you see it hath gain'd its colour, then take it forth and you have it. Or else from yelks of Eggs, and Gold Lytharge distil water at a strong sire, and quench red hot Gold in that; But if you would have every one to increase, here is an excellent Secret; if you do it rightly, you shall make your Gold weighty enough, and it will not hurt the fashion nor inscription;

Book

日日

日本

四甲 nth

200

make the second of the second

with

10日 日

you got to

D

FOO TEE

臣出

100

tod

inscription, but be diligent. Prepare the most red Salt of old Tiles, that is with us to be fold in most places, and the pouder of Vitriol, and strew this upon your velfel, you shall pouder Silver with Aqua fortis, or Lime-water, or some casie way; then again strew the pouder upon the Gold, fill the vessel consusedly, and stop it, let it to the fire eight houres, and do not blow with your Bellows, take it off, and renew your work with the pouders without the Calx of Silver, and fill it up. If the Gold lofe its colour, you shall regain it thus. Make a Pap of Salt peter, falt Armoniac, Vitriol, and pouder of Bricks with Urine, rub your Gold all over with this, and put it into the fire. There is another way to wash it, as some use; Let it boyl in Vincegar, salt Armoniac, Verdigrease, and Argal, that will recover the colour which is lost. If it shines too high, and you wish a colour more moderate, the remedy is, that being wet with Pifs it may cool upon a red hot place, fo you shall burn Vitriol with it to make it most bright: put it into a vessel covered with Coles, let it boyl untill it change into a most bright shining colour do not turn this Secret, I was unwilling to discover, unto an ill use. You may with the parings of Brass sullfill this work otherwise, this will supply the place of Silver, and make it weigh too heavy. You may do it otherwise; quench old Bricks red hot in Oyl, then beat them to pouder, and mingling them with Quickfilver, grind them upon Marble, and put them in a Glazed vessel upon the fire: draw forth the Oyl, and making your work red hot, and quenching it in this, it will augment the weight of it. But otherwise and more perfectly will Gold be augmented; if you melt two parts of Brass with your Silver, and then beat it into small thin plates. In the mean while prepare a pouder of the dregs of Aqua fortis, namely of Saltpeter and Vitriol, and in a strong Chrucible lay a plate and the pouder to augment the Gold confusedly together, untill the Chrucible be full; Laftly, Lute the mouth of it, and let it fland at an cafie fire twelve houres, take it away, still renewing the same, untill it come to the perfect weight. The Same.

To increase the weight of Gold and Silver. Water distilled in Chymical vessels from Mans dung, will augment the weight of Gold and Silver. Mizald.

To draw Goldont of Silver.

Chymists seek to draw Gold out of Silver. It is not a little, but you may pay for your charge and gain by it, yet not much. The way is this. The small filings of Iron must so long stand in a melting pot that will endure the fire, untill they dissolve: then by degrees strew in Artificial Chrysocolla, the Goldsmiths nie, and red Arienick, and after you have strewed them in, cast in an equal weight of Silver, and purge it well, in a strong Test of Ashes, and when all the dregs are taken away, then put it into water of separating Gold, and the Gold will fall down to the bottome of the veffel, take that. I have not found any truer way, of a great many, and more gainfull and laborious; spare no pains, and do it as you ought to do, that you do not fpend your time to no purpole. The Same.

Tomake Gold. Take Quickbrimstone, and Saltpeter of each alike quantity, beat them both severally; after that mingle the pouders, and put them into a Glass well Luted Retorts, let it stand in a gentle fire two houres, after that increase the fire, untill the smoke cease; after the smoke, will a flame come forth of the neck of the Glass, and it will ascend by Cubits or Arms two or three, and when the flame ceaseth, the Brimstone will remain at the bottome, as it were white and fixed; then take it forth, and receive the faid fixed Brimstone, and as much falt Armoniac, and pouder them all very finely and mingle them; then fet them all to sublime, first making an easie fire, and then a stronger, untill it alcend four houres, take forth the sublimate, and incorporate all, both the sublimate and the dregs, and sublime them again as at first, untill fixtimes, and the Brimstone will remain at the bottome of the vessel: take it and pouder it, and lay it upon Glass or Marble in a moyst place, and it will turn to Oyl; pour two or three drops of this upon one duccate melted in a Chrucible, which will be Oyle, lay it on Marble, and it will congeale; of this put one part

四次四

100

sa

ich cot

ott

100

10

upon fifty parts of purged Mercury, and it will be the best Gold. Carvan a Spa-

An excellent way to multiply Gold.

Let this be handled to the glory and praise of God, which sollows concerning the transmuting of some some Metals. And first I say that Silver of it felt is true Gold, and it wants nothing but to be concocted perfectly; therefore provide three ounces of fine Silver, and make a Test of two parts of Vine Ashes, or Wood, well burnt and washt, and one part of Hares bones, or Oxe bones well burnt, that they may be white and made into fine pouder, mingle them with the faid Ashes, and sprinkle water upon them, afterwards make your Coppel in a strong earthen Dish, or in a hole in the ground, equall to which there must be this heap well polished made smooth, and well dried; Then melt your Silver in the faid Coppel, and cleanfe it well, and make it refined, that your Silver may be good as any tryed upon the Coopel. Then take your Silver fo purged, and beat it into thin Plates, of the thickness of two sheets of Paper or thereabouts; after that you must have common Sale prepared the way that follows. Take an Earthen pot and fill it with Salt, afterwards keep it in a Stove, and make round about it, and over it a strong fire of Coles, for four or five houres. And then let it stand as long as you please to coagulate, and put out your fire; after this take your Salt when it is white enough, and put it into some other vessel, with a great quantity of clean water, and let it all melt a whole day, and move it often to make it melt the fooner. Atterwards take the Tongues to filter with, and diffill by degrees the faid diffolved Salt into another veffel; then take a Glazed Earthen Diffi, and put into it the distilled water aforesaid, and set upon a small fire, and coagulate it by dregrees; afterwards you must have a plain very clean Tip slice to gather your Salt as it congeals, and keep the Salt, for it is prepared; after that take your Silver, prepared and beaten, as Isaid before, and you must have two Barbers Basons, and in one make a bed of your Salt, and then one of the Plates of Silver, and after that of Salt, and fo by turns, untill both your veffels be full, after this joyn one to the other, and Lute well the joynts; then you must have a wind Furnace, made at your discretion, which must have a Grate of Iron, upon which set your vessel covered all within a heap of fire Coles; that it may be alwayes fire-red for five houres, and upon your Furnace there must be a Cap or covering of Iron, which must cover it all over, and at the bottome or fomewhat higher it must have a small vent hole. And when the time of your matter is past, take away the vessel, and let it cool; after that take your matter, and fet the Salt to drying, and take your Plates and you shall see them grow black from their impersection. Wherefore rub them as well as you canto hinder their darkness; after that, put them again with new Salt into your veffel, as you did, and fet them into your Furnace, do this lo often, untill you find your Silver to have no more blackness, and so is your Silver prepared to do your business. Then melt it, and make a long polished Rod and weigh it, to know exactly how much you have, make fixty equal parts of it; then take as much fine Gold as you have Silver, and purge it this following way. Take Bayfalt somewhat dry at the fire, but not too much, then take a Brass Mortar or some very smooth thing, and pouder the said Salt in it; then get as many old and red Tiles as you can get, and beat them very sine and fift them very clean; after that take two parts of your Tiles to provided, and one part of your forefaid Salt, and mingle them well; then take the Gold aforefaid, and beat it into thin Plates as you did with your Silver, and take two veffels, as you did for the Silver, and make a bed within of your Cement, and then another of your Plates, &c. untill they be both full, then joyn the Basons together, and Lute them well, and fet them in a very hot fiery Furnace for twenty four houres. And the first eight houres let the fire have a cover to moderate the heat of it, and the eight houres tollowing, take off the cover of the vessel; and the last eight houres make the ftrongest fire you can; and in all the said times you must keep your vessels red hot, as you did with the Silver; then take your Gold, because it is prepared, and weight it, and see you have equall weight with the Silver. Then you must have a vessel made of the best earth well polished; melt your Gold in it, then put into it your piece

of Silver aforefaid; and to the first tryal you shall put in a piece of black Smalt, or Enammelers Anmil, as broad as your Chrucible, holding down your matter at the bottome, and it will melt, and it will preferve your matter from diminution, after that your vessel must have one cover to cover it; and at the bottome of the said cover, there must be a little hole called (Buhat) which shall stand higher than the fire, whereby you may know when your matter is melted, and through which you may continually every four and twenty houres put in a piece of your Silver; after that shut it with a small stopper of earth; and forget not that your matter must be alwayes melted day and night; and be certain that all your prepared Silver will be converted into pure Gold, when it is cast into it. And so you may make your projection infinite. This is Probatum; and remember that under the Grate you must pur a Platter for your Furnace, or earthen Difh, leaft if the veffel fhould break, you should lose too much of your matter. Rayaundus Lullius.

How to carry away Gold and Silver privately.

Diffolve Gold and Silver in water of separation, or being diffolved, make them black, then melt Gold with Lead, Silver with Pitch or Sand, and so you may fafely

Cardan. transport them.

Water to part Gold from Silver.

Take Saltpeter eight ounces, Vitriol four ounces, Brimstone one ounce, pouder and distill them, and keep the water for ofc. When you will use them, put in the Gold and Silver, and the Silver will refolve into water, the Gold into Ashes, strain the wa-Fallopius. ter from the Ashes.

Water to part Gold from Silver another way.

Take Saltpeter one part, Liquid or Rock Alum three parts, half a part of Sand, dry all diligently, and purge them, and distill them at the fire in Glass Limbecks. That which comes forth first is kept by it felf, and when the veffel looks red, increase the fire, and another water will come forth, which ofttimes joyns with the former, but it is thus parted. Take a small part of the water drawn off, and put into it of the finest Silver a half penny weight, that is, twelve grains, and then fet it so long upon the Embers untill it melt. This Silver will fend to the bottome dregs like to Lime, take them out; what remains of pure water, mingle with all the water extracted, and then it will fend the same seces to the bottome again as before; take away thole, and you shall have all the water most pure, and more fit to dissolve Silver, and all Metals except Gold. Cardan.

To Separate Gold from Silver. You shall part Gold from Silver thus; annoint the body of any thing Guilded with Linleed Oyl, and sprinkle upon it the pouder of salt Armoniac and Roch Alum; then when they are all hor, quench them in the water, and the Gold will remain in the water. From a skilfull Goldsmith. Mizald.

Liquor or potable Gold.

Plates of Gold purged by the royall Cement, or Stybium, will resolve into pouder by the green Liquor of Salt : then they must be so long washed in distilled Rain water, untill you can perceive no more Salt remaining with it. Or it you defire to do that fooner, the plates of Gold must be covered in Plates of Lead, and must for four and twenty houres be Cemented, (as they call it,) and they are ground fine untill the Calx of the Gold be very pure. Afterwards pour on as much Spirit of Wine upon the washed pouder or purged Calx, that it may swim above it six singers breadth; and the joynts of the vessel being well stopt, steep them in water temperately hot, or Balneum Maria, for twenty or thirty daies. Then pour forth a yellow liquor, leaving a white pouder in the bottome, and the Spirit of Wine by a Glass Viol, with a cover, is gently parted from the yellow liquor of Gold, in a Bath; Laftly, The fame Liquor of Gold being extracted, it must be elevated to the highest degree, that is, it must be five times forced through a Retort, and this is the absolute preparing of the Quintessence of Gold, which is the chief Secret in Chymistry. Paracelfus.

Potable Gold. Leaves of Gold must be distilled with Spirit of Vinegar, and parted, and

阳 他等 the or rides

野田田 the 10 fom! best

Th tex ing in

in a Gi stine Heat

bell Control of them to them to the first to

THE GO

三

SEE

西西西西西

fle

Wie.

dis

di

W. L.

M

TO.

kt 2-

1200

in the

900

日日

中山

N. C.

tx

gt

then digested a Moneth with prepared Aqua vita, untill a juyce appeare, whereof one Scruple is the Dole with some other Spirit or Liquor. Andernatus, Paracelsis.

Fill a vessel with the best red and black. Wine, and set it into the coldest water; then you must have two small Sawcers of Gold, into one whereof that must receive the other, put in small sine. Linnen Rags, and so it is set into the Wine: when these are lighted, the one Sawcer is presently put into the other, and left there untill they are all burnt. When the vessels are cool, and the Ashes removed, the Oyl is collected, and this is repeated so often, untill there be enough gathered. Lattly, All this Liquor is put into a Viol, and is distilled with a cover in hot Ashes. Many use this tor Potable Gold, and keep it for a Secret. And this way we may draw Oyls from other Metals, as from Silver, for diseases of the Eyes; from Brass, for diseases of the skin. Paracellus.

This is the way to make Oyl of Balfam of Gold, which Paracelfus cals Butter or fat of Gold; which being taken inwardly, or announted outwardly, will cure all malignant Ulcers, even an Elephantiafis, and all kinds of Leprofic; and in brief, he fayes it will do more then the mind of Man can conceive. It is thus, A dram of fine Leaf-Gold is to be mingled with half an ounce of Oyl of the Pine tree, and put in a Glass to digest for a Moneth; then the Oyl is washed, and the pouder remaining at the bottome of the vessel is given with Honey. Or better thus, Mingle one dram of fine Leaf-Gold with fix drams of distilled Oyl of Mastick, let them ferment thirty daies in Horse dung, then the Oyl is washed with hot water, and the Gold hath Spirit of Wine poured upon it, and stands to digest twelve dayes; afterwards it is dissibled in Balneo, untill the Gold stay in the bottome of the vessel like Butter, which is thrice a week annointed upon Ulcers; and also it is good for Limbs that are contracted, and any way weakned. Andernacus from Paracels.

Aurum vita, or precipitate with Gold. Take two ounces of Quickfilver purged by most thatp Vinegar and Salt, of the best Oriental Gold made into very thin Plates one dram, they must be mingled in a three cornerd Chrucible; some barb arous people call this an Amalgama; this is poured into cold water, and if any of the Quickfilver remain, that is preffed forth through a skin, and washed with Salt and Vinegar, untill there appear no dregs, taking care in the mean time that the quantity of the Quickfilver be not diminished. If it should be, it must be so augmented, that for one dram of Gold seaven or eight drams of Quicksilver may be remaining. Then put them into a Luted Retort, and pour on of hot water two ounces, and fetting on the cover, bring it forth again by hot Sand; when they are all cold, pour on again the same water, and distill it off as before; do so five times, and then the pouder will be red, which they call Aurum vita, or Gold precipitate commonly; alterwards the same is put into a Porringer and covered, and is fet amongst red hot coles, untill it be red hot; then it is taken forth, and when it is cold, it is moyftened with Rofe-water, and then dryed again. The Dole to young Children is a half penny weight; but to those that are of years, a penny weight. It cures the Plague, the Pox, Leprofie, Dropfie, and other hard Difeases, it openeth obstructions of the Bowels, cures those who have taken Poyfon, it cures malignant Ulcers inwardly taken, or outwardly with Unguents, and Plaisters that cleanse, and is happily applyed to sordid, malignant, hollow Ulcers, but not to such as run over the body. Andernaem ex Paracelso.

The way to ponder Gold.

Take Leaves of Gold what you will, put them into a Chrucible or Test at the fire, then take Quicksilver sour times as much, and put that likewise in another Test or Chrucible to the fire, but not near, but only that it may heat, but the Leaves of Gold must stand so long at the fire, that they begin to be red hot, but they must not melt: This done take the Chrucible from the fire, and mingle the Quicksilver with the Leaves of Gold, mixing them a while with some sick, then suddenly cast them

into

前即

thus;

MIN

GE 008

point pilot

despiration of the policies of

Die;

Ant

Will

( M

into a dish full of water, and make an Amalgama; But it you will do it otherwise, grind the Leaves of Gold with the Quickfilver upon a Porphyr stone, untill they be well mingled, and grinded; then wash them twice or thrice with common water, if you add a little Vinegar or juyce of Lemmons, you will do better, for they will mingle sooner and better; Therefore take this mixture however prepared, and press it through a fine Linnen Cloath, that some part of the Quickfilver may come forth, or press it through a white skin of a Doe or Lamb, which is best, then what sticks in the skin must be ground with live Brimstone first poudred very fine, so much, that it may not exceed half the mixture. Then put all insome Iron Crucible to the fire, the vessel being very close covered, and leave it so untill all the Brimstone be burnt, and what remains be yellow; when it is cold, wash it in a Dish sull of water so often untill it look like Gold, and keep it for use. When you would use it, add as much Rosewater to it, or common water, in which Gum Arabick is dissolved, as you need, mingle them, and make a Golden Liquor to write or paint with. And when you have written or painted with it, rub the Letters lightly with some Tooth, which cannot be done with other ground Gold, that all Painters use. Alexim.

Take Leaves of Gold and grind them in a Glals Dish with Julep of Roses, and stire them with your middle singer, that they may mingle exactly: then put them upon a Porphyr or Marble stone, and grind them well again, pouring water to them by degrees; after that take it away, and put it into a Dish, washing the stone well with water, that you may have it all off; then wash the Gold well with your singer, and when it settles to the bottome, take away the water gently, and pour on more water that is hot, and wash it again, and do this so often, untill the Syrup of Roses be clean washed from it, and the water is no longer sweet; then the Gold must be dried and put into some Glazed vessel upon hot Embers untill it be exceeding hot, and come to its natural colour; when this is done, mingle that with Gum-water, and make a Liquor for use. The same.

If Gold have lost its colour, you shall thus renew it; make a thick substance with salt Armoniac, Vitriol, Saltpeter, pouder of Bricks and Piss, cover the Gold over with this, and set it into an easie fire; It will be done far easier, if the Gold boyle so long in Vinegar with salt Armoniac, Verdigrease, and Argal, until it recover the colour lost. I had not this for nothing, yet I impart it to thee freely, as I do many things besides. Mizaldus.

Take poudred Bricks and Saltpeter of each one part, wet with Vinegar what is sufficient: put them into a Crucible, that it may be half full, then Plates of Gold, and so fill it, making one lay above another; yet take care that one do not touch the other. Then stop the Crucible and Lute it well, that no vapour may come forth, place the Crucible upon a stone not above a handfull high, and compass it about with stones that are not very hard, untill the Crucible will receive no more. Then put under a strong fire twenty sour houres, and you shall have Gold purified. Out of a Germane Author.

Of Secrets concerning Silver. Chap. 4.

An old History of Silver turned into Gold.

A certain Moor in the Countrey of the Moores came to a Smith, and brought unto him twenty pieces of Silver to put into the fire with a Crucible when they were melted, the Smith that dealt in Brass cast a pouder upon them he had from the More; It was a green pouder, making a yellow smoke in the fire, and the Silver was turned into Gold, and the Smith sold that Gold to a Goldsmith at the price of the best Gold. The Smith returned and gave the Moor the Money: then the Moor taking pitty of the Smith said unto him, I will teach thee to make this pouder; Take calcined or poudred Gold, burnt Brass, Croens Maria, of each one ounce, salt Armoniac rubbisted, three ounces; elsewhere there is added, Vitriol rubified one ounce; dissolve the

出事

DINO. Vac

tad lie

1001

ST IN

di win

t, ani THE P

cdess

Date to

Liquic

LE WILL

2 ores

orie la

itt tit

to many

1073

TEN Z

如那

101/5

が

the falt Armoniac, and with that diffolyed in Cerate, that is, with the water of it wet well the faid pouders of Gold, Brafs, Vitriol, and Iron, or Crocus Martis, grinding them well upon a Porphyr or Marble stone, and so grinding them along time. When the pouders have drank in all that Saltwater, fet them in a Glass Viol with a long neck in Horte dung one and twenty daies, changing the hot dung every tour When it is well dissolved and turned into water, congeale it in a Furnace uponhot Embers in some Glass Viol, when it is congealed, put one part of that upon ten parts of fine prepared Silver. Note that if any part remain undiffolved, grind it again with the water of falt Armoniac, untill it be all diffolved, do this that you may not look your Gold, ever renewing the wetting of it well with the water of falt Armoniac. But if you again diffolve the matter congealed, and do all things in order, as before, one part will give a Tincture to twenty parts, and so you may multiply it, as oft as you pleafe; for every time you shall augment ten. I faw that Smith at Toledo, and he told me this, and to an old Kinfman of his, and the Smith was an old Man, and I and my Mafter did work as abovefaid; Gold must be so poudred with the fume of Lead, or with water, wherein Lead hath been often quenched; or thus; Melt Lead in a Veffel that hath a small hole in the top, the bigness of a Crown, and put the Crown of Gold fo upon it, that the fume of the Lead may come to it upon one fide, then turn it, and when you have done to, fornetimes the Gold will be poudred; But burnt Brals must be calcined with live Brimstone, and before it be mingled with them, it must be washed with fair water, or with water and Salt, untill the water come clean away from it. The Crocus of Iron must be made with Vinegar at an easie fire that it may be red; It is done thus. Put filings of Iron into firong Vinegar, let it be clear red Vinegar, let it in the Sun two or three dayes, then pour off the Vinegar gently, and keep it, and pour on more Vinegar on the fi-lings in the Sun, and do fo untill all the filings be diffolved, or is brought into very fine pouder, and again dry all the Vinegar up in the Sun, fale Armoniac must be dis-folved by cold and moyst, or by hot and moyst. Take two parts of it dissolved, burnt Brass one part, Crocsus Martis one part, falt Armoniac the quantity of them all; dissolve the falt Armoniae, and soke the pouders in it, by long grinding of them, then put them in hot Horse dung fiften dayes to dissolve, you may dissolve them in a pit; often changing the dung, being hot, then coagulate upon hot Embers gently. One part of this congealed matter will give a Tincture to ten parts of prepared Silver. And it you dissolve them the second time, doing all things as was foresaid, one part will Tincture twenty parts, and to you may increase it. This was out of the Practicks of Master Odomar.

That Silver may be fo truly Tinttured into Gold, that you would think it to be true Gold indeed.

Make a mixture at the fire with one part of filings of Silver, and three parts of Quickfilver, let it ftand upon hot Coles in a Glazed vessel, until so much Quickfilver flyeth away, as exceeds the Silver; then pouder falt Armoniac and live Brimstone, equall for weight with the Silver, and fer this in a Glass vessel two houres upon hor burning Coles, untill the force of it sublime the salt Armoniac, the live Brimstone, and the Quickfilver, and they flick to the neck of the veffel : break the veffel, and keep the Silver of a Gold colour, being as much, or more in weight than it was at first, and presently provide such a water; Take Roman Vitriol with twice as much red Cyprus Vitriol distilled, which they call Coperas, let it be the best, (for hence depends the whole business,) so of Saltpeter three times as much, and a third part of Verdigrease, a fixt part of Vermilion, and distill water from these in Glass Stils, two parts of this must boyl with the Silver you kept at a gentle fire twenty four houres; then increasing the fire of distilling, make all the moysture evaporate, and what remains at the bottome, must be put with the Calx of Chrysocolla, into an earthen Test, or melting Crucible, with the mouth lest open; then Lute it well, and set it on a melting fire, and you have it; for the Silver looks like Gold, and will never lofe its colour, nor change it, but being exposed to all tryals, will lose very little of its lustre or none; so will it represent the colour of Gold perfectly and gainfully. Now remember-

日本日本日本日

who have

Les

**多海道湖** 月星

who

の報

you as I

WOO

Dis

fan

REB

幼

remember burnt Brass made with Stybium, that being melted with half Silver, will make period. Gold colour, as you may see. If you mingle it with Gold, it will give a better colour and stand some proofs. Another way to do it excellently; Mingle the congealed with Quicksilver in a Helmer, as I said, with a third part of Silver, you shall find your Silver of a Gold colour: melt it with half Gold, pour it into an Earthen pot and pour Vinegar upon it, and let it boyl six houres, and the colour will rise; but you shall lastly try it like Gold; namely with common Salt, and pouwill rise; but you shall lastly try it like Gold; namely with common Salt, and pouwer of Bricks, adding some Vitriol; and so will your Gold be purged from dross, and will stand all tryals, and will exceed the second, and proceed to the third degree. The same.

To colour Silver. Take good red Wine Vinegar, and put the filings of Iron into an Earthen Crucible of Raviax, then take Vinegar wherein the fixt part of it of falt Armoniac is diffolved in it, then put it upon the forefaid filings, that it may fwim over them two or three fingers breadth, afterwards stop your vessel, and set it upon small Embers for eight daics, and ftir this twice or thrice a day with a ftick, and it will be all red or Vermilion, or bloud colour; after that strain and cleanse it well, and add fresh Vinegar as you did before; and do this fo often untill you have enough of this Vinegar, and before you do this, or fo foon as it is done, take one pound of Quickfilver fublimed, and one pound of falt Armoniac, and grind it to pouder and mix them together, fublime them thrice together, and every time mingle them; that which afcends with that which remains in the bottome; and your Mecury will remain black at the bottome of the veffel; and the falt Armoniac will ascend high in the veffel; After that mingle the faid Mercury with the same weight of the filings of Iron, and fet them upon Marble, and they will dissolve into water, when this matter is dissolved, cast it all into red Vinegar, and stop the vessel, and let it three dayes upon a genele heat, afterwards purific it by filtring of it, and put it into an Alembick, and fe-parate the moysture from it in Balneo: after that upon Ashes in a Furnace receive in another Glass receiver, as you do Aqua fortu, the Oyl that comes from it, or the Vermilion water, and keep it by it self; put fresh Vinegar upon the sees to dissolve them, then filter that, and congeale it in Balneo, afterwards by Embers separate the red Oyl, and so put it to the other, and repeate this so oft untill all be separated, then keep it; forget not when this is done, to mingle your falt Armoniac with fo much Quicklime, or put it upon Marble, and it will distolve into water, take this and mix it with a third or fourth part of Saltpeter; So make Aqua fortie, and by a Limbeck distill the water upon Ashes in a Furnace : in this Aqua fortis dissolve the purest Leaf Gold, as much as you can diffolve; Then take your red Oyl, and if it be one pound put half a pound of your water with Gold Leaves to it, and put them into a Viol, upon warm Embers, for four and twenty houres, then by a Limbeck, congeal them in Balneo, and after that fet it to putryfie in hot Horfe dung, in a Viol of Glass, close flopt, for fifteen dayes : alter that congeal it like to Honey; and take fine white Silver Cemented, and annoint it with this Unguent on both fides, and put them into one Crucible, bed upon bed, untill it be full, and to ten ounces let there be one ounce of this Unguent, and shutting and Luting the Crucible, set it in the heat sour dayes : after that make a melting fire, to melt it all, and you shall have Gold to twenty four Carats, and if it please you not, beat it again into thin Plates, and annoint it as before, and if the colour be too high, do not put on to much of it, and to your Silver will be perfect. (This Note was in the Margin,) Take one part of filings of Iron, and one part of burnt Brafs well washed, salt Armoniae the quantity of them all, let them all boyl well together, then dry them upon hot Coles or Embers, or in the Sun, and make them into pouder, and project one ounce of that pouder upon three ounces of fine melted Silver, and it will appeare to be Gold. Alfo one part of fine Gold, one of fine Silver, and one of melted Brafs together, make Gold of eighteen Carats with one of butnt Brass melted. Burnt Brass is made thus; Take filings of Coprer one pound, Quickbrimstone a fourth part, mingle them, then put this into a Crucible, and cover it with a Tyle, and Lute it with Lutur SaTOT

da

a Vi.

di.

Hack effet;

一

go.

min

ric

int

m,

pientie, that no vapour may come forth. Then put the mouth of the Crucible downwards, and cover it with Coles, and let it stand so some houres, then take it from the fire, and you shall see burnt Brass, wash it as you should. Raymundso Lulling.

Take Quickfilver three ounces, set it into a Glass Retort very well Luted, unto the fire, until it grow very hot, with which one ounce of Leaf Gold must be first mixed, then take it from the fire, and add to it salt Armoniac one ounce, salt Ellebrot half an ounce, Borax two drams, Quickfilver purged two ounces. This being done, shut the Glass very well with Hermes his Signet, that nothing may breath forth, and set it at a Furnace of fire three dayes continually; then take it from the fire, and when it is cold open the Retort, take the matter out, and pouder it very fine; this is called the Philosophers Elixir: and when you would make Gold, take the finest Silver five ounces, melt it at the fire, and then put to it of the said Elixir one ounce, and it will turn it to Gold. But salt Elebrot is made thus. Take common Salt purged, salt Gemma, salt Alkali, of each one ounce, pouder them, and add to them juyce of Mints, juyce of Clove-Gellishowers, of each two ounces, Spring-water two pounds, mingle all very well; and it is done. But Lutum Sapientia is made of the best Lute, dry and sitted, and mingled with whites of Eggs. Lastly, Quicksilver is purged with the sharpest Vinegar, wash it three or sour times, and then strain it. Fallop.

To guild Silver:

Silver vessels cannot be covered with Gold, but by the help of Quicksilver, to whom only it is obedient and tractable. For resusing all other Metals, it will adhere to Gold only as its most familiar friend, and sticks willingly unto it, hardly to Lead, more hardly to Iron, and to Brass but meanly. Lemnim.

Would you turn Silver or any thing else into a Calx, do it thus: make a mixture of the filings of Silver, and three times as much Quickfilver, then with common Salt upon a Porphyr Marble, you must grind them well, when you see they are perfectly united, put them into a Retort that they may ascend the easier, set this to the fire, and by the force of it, drive out the Quickfilver by the Pipe or Neck of it into a receiver; what stayes at the bottome of the vessel, wash well with fresh water, still pouring on more, untill no Salt is perceived, and all bitterness be gon from it; when the water is sweet, it will be turned to Calx. There is another way to do it: dissolve your Silver in Aqua fortis, as Goldsmiths use to do, and pour in Springwater, wherein there is common Salt, so the Silver will fall to the bottome of the Glass; draw forth the water by a Tongue, or Pensils, and set the Calx in a Crucible upon slaming Coles, take it away, and wash off the Salt with fresh water, which you shall do again and again untill all be gone; and the manner of washing must be as I shewed before, so you shall turn Silver into Calx, and soften it like Wax. The silings of it mingled with Mercury sublimate, and put into a fit Glass vessel, and set upon the fire, that the fire may drive forth the Quickfilver, you shall find at the bottome of the vessel sixed Silver like Wax, fit for Jewels, keep it in a little Box. The same.

That is strang that some say the melt Silver.

That is strang that some say there is a kind of Silver no Bellows will melt; and when Men had done all they could with it, they were taught by the examples of their Pious Predecessours, that those vessels wherein Silver was wont to be melted, had Silver above, and Coles at the bottome, and had holes bored through the bottome, add with Bricks on the tops of Mountains when the winds blew, they melted that Silver, and afterwards with Bellows they purished it again in small vessels. Cardan.

Some with Salt and old Potsheards, hold Silver beaten into thin Plates in the fire, to draw some moysture from it, and to thicken the parts that make it light. But you

Book

日祖公母母

Will Will Both

pet E

2011 1000

Vir

for beir

THE SEC SES

to to

twi be

100

Ou

四日日

shall do it more readily thus : Beat Silver into fine Plates, and strew on by turns Cinnaber and Mercury Sublimate, in a vessel will endure the fire, and Lute and bind it last with bands, that it breath not forth, compals it all over with Coles, and keep it in the fire twelve houres, then take thefe brittle Plates forth, and put them into an Ash Copel red hot with fire, into melted Lead : and with strong blast of Bellows, force out the Lead into a Receiver, which will draw out with it all the drofs, and will leave the Silver pure behind: all Men call this probation by the Copel, because it purgeth away all that is not good Silver. If you find it not weighty, do the fame thing often, untill it be as heavy as Gold; we can also otherwise augment Silver. Pour strong distilled Vinegar into a vessel, pouder Stybium and filings of Lead and fift them, what stayes in the Sive must be pounded in a Mortar again, to fift it finer, and then put into the distilled Vinegar, and hid under dung untill all is dissolved, then fet the veilel to the fire, and often quench what is within, or elfe draw forth the water from it, and it will be the same thing. Geber saith that made with Brimftone into a Calx, and then reduced to its body, it will get much in weight. The Same, To diminish Silver or Gold.

Now remains to flew how Silver and Gold may be diminished not spoiling the fashion or Stamp. Many do it by Aqua fortis, but that makes the work full of knots and rugged. But do it thus. Strew pouder of Brimstone upon the work, and set a Candle to it round every way, or burn it under the work, that will burn and confume it by degrees, strike with a Hammer on the contrary side, and the outside will fall off, so much as you please, as you think fit to lay on your Brimstone. The Same.

To blanch Silver. You shall white Silver thus : Take salt Armoniac, Roch-Alum, and Alum Plumosum, falt Gemma, Argal, Roman Vitriol, of each alike quantity, pouder and mingle them, and diffolve them in fair water; then let Silver boyl in that, fo long as you need, and you shall see your Silver wonderfull white. Out of the Secrets of a certain lover of those that make Gold. Mizaldus.

To make vellels as if they were Silver. Quickfilver mingled with ftrong Vinegar, will make vessels like Silver, if they be annointed therewith. Mizald.

Water that will make Silver of a Gold colour.

Take Saltpeter two pound, Roch-Alum five pound, pouder, mingle, and distill them, keep the water for use. When you would use it, let your Silver melt in the fire, and pour it into the said water, and quench it, and it will be like Gold in colour. Falopius.

Water to diffolve Silver. Take Roman Vitriol one pound, falt Armoniac five pound, Saltpeter four ounces, Vermilion three ounces, pouder and distill them according to Art.

Of the Secrets of Bross. Chap. 5.

To guild Brass. Brass being burnt you shall thus make it look like to Gold, make an Aqua fortis of Vitriol, Saltpeter, Alum, Vermilion, and Verdigreale, let the burnt Brass dissolve in it, and bring it to a body again, it will be much of a Gold colour, it is also made blewish, by often strewing into it Silver and setting it to the fire. The same.

But if you would turn Brass like to Silver, or else Copper, as Children often use to do and Juglers, that vessels may presently look like Silver; this is the way to do it. Mingle a like quantity of falt Armoniac, Alum and Saltpeter, and with a little filings of Silver, fet them unto the fire, that they may be fire hot; and when they leave (moking, firew on this pouder; or elfe wet with your spittle, and rub them with your fingers, and they will feem like Silver. The fame.

To white Brafs exceedingly.

If you grind falt Armoniac and Egg-shels together, and distil water from them with Chymical veffels, and quench red hot Brass in that, it will be very white. Alto Quickfiver drawn from Antimony, doth very well white Copper, if it be projected upon, or elfe rubbed on, which the Antimony it felf in the Mines will not do, called by Pliny, Vomica, of perpetual Liquor. Mizald.

That Braff or Copper may look like Silver.

If falt Armoniac, Alum and Saltpeter, be mingled of each a like quantity, and with a few filings of Silver be fet to the fire to be fire hot, when they ceafe to Imoke, the pouder of them but strewed on, or rubbed on with spittle upon Brass or Copper, will make it look like Silver. The fame.

To dry Braß like to Silver.

Take Agna forth one ounce, cast into that a penny weight of Silver, first beat thin with the Hammer, and then cut into small pieces, and put it to the fire in a vessel untill the Silver turn to water: Then take it from the fire, and add as much pouder of white Argal, as may drink up all the water, and make a lump of it, and rub any Brafs work with it, and it will be white as Silver.

To melt Copper quickly.

They that will have Copper foon melted and ductile, they add Horse hoofs to it when they melt it. Mizaldus had thus from an Italian, and a certain expert Founder.

To make Verdigrease.

Take the filings of Copper made into very fine pouder, as much as you please, wet them with old Pifs, and falt Armoniac, then dry them in the Sun, then wet them again, as before until it look green, do this so often untill you have Verdigrease enough. Out of a German Book.

Otherwife.

Annoint Copper-Plates with Honey and burnt Salt, then leave them to hang in Vinegar two weeks under dung. Om of a German Book.

Otherwise. Or take Copper-Plates fairly polished, then grind Vitriol with Piss upon a Porphyr stone, and with that annoint your Copper all over, and dry it in the Sun, the Plates being dryed and put into a Glazed Pot, must be set upon a strong sire, for two houres, that they may be red hot; In the mean while, take off the cover and fee the smoke that comes forth, and when you see it black, take the vessel from the fire, to cool it: Take forth the Copper-Plates, pouder them in your hands, and if there be any you cannot pouder, begin your work again, untill they will pouder. This being done, wash your pouder in hot Water or Urine in a Bason, and when the matter fetleth at the bottome, pour off that black stuff swims on the top, and dry the rest in the Sun; Take of this pouder one pound, and of Argal brought to a Calx two ounces, grind them well severally, mingle them, and dry them. Put them at last into the foresaid Earthen Pot and put fire under, and heaping on Coles, untill

Out of a German Book. A way to prepare Copper, so that it may be like to Gold, and may be

you fee a green smoke; then uncover the Pot, and draw forth the best Verdigreate.

wrought very well. Take Copper, Lapis Calaminaris, of each half an ounce, Tutty two drams, make the Copper red hot, quench it in Pils, doing it twice: do so with the Lapis Calaminaris, and Tutty. Take half an ounce of the diffolved Copper, adding to it Honey one ounce, boyl them untill the Honey look black and be dry, that it may be poudred, afterwards the Honey being beaten with the Lapis Calaminaris, and the Turty, let them boyl again at the fire, untill the Copper be melted, and fo it is done. Our of a Germane Book .

To give a Tintinve to Copper like to Silver. Take Quickfilver sublimate, salt Armoniac, of each what is sufficient, boyl them E c 2

Book

cally. ngid ngid

whi

in the

位明

2011

Emt

open and white

Ayr,

kan

COPO Per Per

MINT

Stee

T

母母

Y

m Di

かん

in Vinegar, in which quench the Copper first made red hot, and it will be like Silver. Fallopina.

To make Copper Soft like Silver. Take burnt Brals, and melt it with Borax in a Crucible, after that extinguish it in Painters Oyl, as the French call it, and lay it on an Anvil, and by degrees beat it plain eafily, then boyl it again in a Crucible, and quench it in Painters Oyl, and do fo five or fix times, that it may be fost enough, and that is the fine burnt Brasstou-nite with Gold, and you may put in half more then you can of other Brass, and the Gold will be fairer than with other Brals. Raymundus Lullius.

Of the Secrets of Iron. Chap. 7.

To give a Tindure of Gold to Iron. You must burn in an Earthen Pot Plates of Iron, putting live Brimstone between them, and Lute the Pot well; then take them forth and they will be brittle; Thirdly, put them into a Pot with a great mouth, and pour in sharp distilled Vinegar, and for them forth in the Dog dayes, if they come not to the redness is required, fet them again in the Sur, or in a bath of boyling water, until they wax red, draw it off with a Tongue, or pour it into some other vessel: Then add Vinegar again, and do the same so often, untill all the Iron be dissolved; Let the moysture evaporate in a Glass still, and the pouder that remains in the bottome, cast upon Silver or any white Metal will make it feem like Gold. The fame.

Take common water three pound, Alum two ounces, Roman Vitriol one ounce, flower of Brass one penny weight, salt Gemma three ounces, Orpiment one ounce, mingle them and boyl them, but when they begin to boyl, add Argal or the dregs of Wine, common Salt half an ounce, let them boyl alittle while, then take them from the fire, and with that water give a Tincture to the Iron, then put it into the

fire, then polish it. Alexim.

To make Iron like to Gold. Take Linfeed Oyl three ounces, Argal two ounces, yelks of Eggs boyld hard and pounded two ounces, Aloes half an ounce, Saffron five Grains. Turmerick two Grains; boyl them all fometime in a new Earthen Pot, and make Oyle to Dye Iron. If those Ingredients spoken of be not well covered with Oyl, add more Oyl, and let the Iron be first well polished, and the colour will be Gold. The same.

A water to cover Iron with Leaf Gold, or with Gold diffolved with Quickfil-

ver, which Goldsmiths use to gild Silver with. Take Roman Vitriol one ounce, Alum two ounces, falt Armoniac one ounce, bring them into the finest pouder, and boyl them in common water, where with when the Iron first made clean and polished is Dyed, add to it the Leaves of Gold, then dry it at the fire, and polish it with a Bloodstone, as the manner is : But if you would gild Iron as Goldfmiths do, with Gold diffolved in Calckfilver, add to the forelaid water, flower of Brass one dram, sublimate half an ounce, mingle them, and when they have boyl'd a while, let the Iron boyl in the same water; It the Iron be fo great that the water cannot cover it, let it be well rubbed with the fame hot water, and so let it be made hot in the fire, to receive the Gold diffolved with Quick-filver. Now how to do this I taught before in the precedent Book, in the Chapter concerning poudring of Gold. Moreover when the Iron is covered with Gold, it must be smoked at the fire, by a Candle, or with Brimstone, as Goldsmiths do, or with Wax, as they do in Germany, which is far better. The fame.

To make Ironer Silver look of a Brafs colour, which is far the best to gild upon, and will longert hold the colour of the Gold.

It is most certain that Gold laid upon white Iron or Silver, will not appear to well as it doth upon Brafs, for that fo loon as any of the Iron begins to be discovered or the Gold to be worn off, the colours of Iron or Silver flew themselves, but in a red colour it is not fo found out: Wherefore some skilful judicious Men cover Wood or any fuch matter, not with red frone, as most Men do, but with a yellow or Gol-

cin

AMA

OW1

TOD.

ni k

松

den colour: For though the Gold in time may vanish away in some part, it is not so cassly known as when it is laid upon red or white. This also would be convenient in gilding Iron or Silver. But to pass over this, Ishall shew you how to make Iron or Silver seem like Brass. Take slower of Brass, Vitriol, salt Armoniac, of each what is sufficient; bring them into very sine pouder: boyl this pouder half an hour in strong Vinegar, then take them from the fire, and put in Iron or Silver, covering the vessel very close, so long untill it be cold, and so your Iron will be like to Brass, and most fit to be Gilded. The same.

How to soften Iron.

Iron will be mollissed with the juyce of Bean pods, or of Mallows, if you quench it in them, and not in in Water, but to make it malleable, it must lye abroad in the open Ayr unpon the ground: Rain will soften it, because it is of an earthly nature, and the Sun melts it, because it is moyst, the fire consumes the sharper part of it, which is as it were venome to it. Wherefore being often fired, it is laid in the open Ayr, and so softened as any thing that is tractable. Also Iron Wyer if it be put into fire, and made red hot, and then suffer'd to cool of it self, it will grow so ductile, that you may use it like a Cord to bind any thing. Carden.

Soft Iron is Engraven thus: You must paint upon the Iron what you desire to carve upon it, and a Pestel of Lead is set against it, then with a Hammer that part is knocked which you would have beaten together, that which must stick forth is received by the Lead and doth not sink down; thus Men make curious Pictures of Animals and Plants, that you would think they were wrought in Wax with sharp Penknives. But if you quench red hot Iron in cold water, it will grow hard and brittle and not ductil at all of necessity, for the cold water compels the fire that is within, and soon consumes the inbred moysture of the Iron, which being taken away that made it ductil and soft, it must needs grow brittle and hard.

To take rust from Iron.

Oyl of Tartar will suddenly take away rust from Iron, and make it bright, and it will also take away spots from the face, and all filthy Pushes that deform the fore-head and Chin, by its abstersive quality.

Alexius.

To cleanse Iron.

Aristotle in his Meteors, teacheth how to cleanse Iron, saying, Iron often put into the fire is cleansed, and the earthly part of it goeth to scales, the nobler part into Steel.

To change Iron into Steel.
The Pomegranate shell will change Iron into Steel.

Distil Earth-Wormes, and apart, distil also Turneps, and roots of Pompions; mingle those waters equally together, and wet your Iron therein, the Iron will grow harder if you put it twice in. Nostradam.

The finest filings of Steel are first washt in Spring water from all soulness, and then dried: afterwards they are steeped in the strongest Vinegar three or four dayes, then they are dried and put into Earthen Dishes, and it is burnt in the Furnace with most vehement slame, untill it grow as sine as pouder of Saffron, in the mean while you must take forth the Dish, and sweep of the finest with a Feather, and then set the

Dish into the Furnace again. Anonymu.

Take Vervin and beat it with stalks and leaves, press the juyce forth through a Linnen Cloath, and keep it in a Glass for use. When you would make your Iron hard, mingle the juyce of Vervin, with an equal part of Mans Urine, who is lusty. You may add also the juyce of that the Latins call Curculio, and the Germans Engerlin: Make that part of the Iron red hot which you would harden and dip it into these juyces, until there appear Golden spots, and if it be yet too blew of colour, you shall know by that it is not yet hard enough: or quench Iron in the distilled wa-

Common Co

in the

中的

them.

TH

for:

NA PER SE

inche

sma gup!

an.A.

**5110** 

mil

mut,

MU

nitro mist

E WIL

dil thing

post ma'

Falls

tita

it on of the date Gill

ON THE

200

bes

THE PARTY OF

社の社

型台

nh

ter of a Turd. Some diffil water of red Snails, and quench their Iron in that. Out of a German Book.

To fosten Iron.

Receive in some vessel or Bason Mansbloud, set it aside untill the thick bloud sink down, pour off the watry Whey of it, and keep it well for your use. Afterwards take a Pencil, and with this Whey smeet over weapons made hot, to drink it in, and they will be soft. Out of a German Book.

Take clarified Honey, fresh Goats Pifs, Alum, Borra, Olive Oyl, Baumal, and Salt, of each what needs; mingle all these together, and dip, and quench your Iron therein. The same.

Another.

Lay upon Leather shavings of Horn and salt Armoniac, sprinkling Piss upon them, wrap the Iron in the skin, that the Iron may burn the skin, and so it will grow solt. The same.

Quench it in cold water, that will harden it; and if the colour of the edg be blew; know the Steel is come to its perfect colour. The fame.

You shall make Steel soft with a Lixivium of Oke ashes, and unslakt Lime, prepare the Lee, and strain it two houres; cast your Steel into this Lee, and let it stay there sourceen dayes, but it you would have it hard as before, quench it in cold water. The same.

Another.

Take falt Armoniac, Quicklime, of each what needs, add alittle more of Venice Sope, mingle and stir them well, leave the Steel in Moss, that it may be made moyster, and let it be in the Lee three or at most but four hours; then by degrees pour forth the Lee. This way serves only for small pieces of Steel, but you may soften great pieces it you put them into Cow dung, Alum, and glew moystned with Vinegar, as I said. The same.

Water of bruised Earth-Worms pressed through a Cloath, and mingled equally with juyce of Raddish, will make the edges of Knives and Swords so hard, and also of other Instruments, that are dipt twice or thrice therein, when they are Forged, that they will eatily cut other Iron like Lead. Mizaldm had this from a certain Sword Maker at Paris.

## Of the Secrets of Lead. Chap. 7.

You may thus easily Tincture Lead like Gold; burn Brass, and beat it small in a stone Mortar, and sist it, also Chrystal Glass, and then Leaves of Lead, strew these one upon another in order, and fill a Crucible with them; that the burnt Brass may be at the top and the bottome, put fire gently to it, then melt all with blast of Bellows; When it is cold, take all dross away, and do this work three or four times, and it will be coloured; then take Terra Cadmia that is red and finely poudred, and mingling Raysins, dry Figs, and Dates together, put them into a vessel, then put Cyperus root, or Turmerick to them; strew in order the half coloured Leaves of Lead, and cover the Pot, yet let there be a small hole through the cover; applying a gentle fire so long, untill the moysture be breathed out, then blow hard with Bellows and melt them, and cast them into a Rod, there is no Gold like it. But the Cadmia Terra will be made Purple colour thus. When the silings of Iron are red hot in the Crucible, strew in salt Armoniac, stir it, and cast it into a Mortar and grind it, then put it sour times to the fire, and cast it at last into a vessel, and pour on upon it sharp distilled Vinegar for one Moneth, and let it lye in Horse dung, take then the Vinegar away, and often with the dregs wet the Terra Cadmia and it will be reddish, use it for other things. There is another way to give it a colour: Take the Crocus of Iron I speak of, and put into a Mortar an equal weight of Vitriol, bloudstone

量

KIT.

Bo.

成立

tad ind

20世世

stone and Brimstone as much of each, of Orpiment one third part and half, of Terra Cadmia rubified a fixt part, cut them all into very small pieces, and set them into the fire in a sie vessel, until all the moysture siye away, use more fire afterwards, and the sorce of it will sublime all, one part of this cast upon four of Lead, will make them like Gold. The same.

A Secret of the Philosophers to make Gold perfett from Lead.

Take half a pound of Mercury of the Philosophers, and two ounces of their Brimstone; mix them so together, that nothing of either may appear, but a black pouder from them both: put this into a narrow mouthd Glass, and let it into a Furnace in an Earthen Pot between with fifted Ashes, as you know. Let not the Ashes come as high as the matter, and for eight dayes at first make an easie fire, that the Spirits may not afcend, and if any do afcend in thefe eight dayes, bring them back again to that in the bottome of the veffel, breaking it; and so every eight dayes, after the matter is made, which will be black, and so breaking the Glass, grind your matter and lay it up in another Glass veffel; and do so every eight day, untill you see the matter of an Ash colour : then take away the Ashes one fingers length, so that there may remain but two fingers of the Ashes, and let it in the fire, and let it stand so long there, untill the matter bered; and when you fee it red, diminish your Ashes one finger more, and so consequently, untill it be as white as Snow, and which will afterwards return to a red colour. Take one ounce of this Medicine, and project them upon eight ounces of Lead prepared, and the Lead will become black, and hard as Iron; and when it is so hard and black, cast one ounce of it upon three ounces of Lead, and it will turn yellow; and when it is yellow; cast one ounce of it upon eight ounces of Lead prepared, and you shall have perfect Gold, praise God for it, and give something to the Poor. Mr. Odomar.

To make Gold of Lead, Take purged Lead one pound, falt Armoniac in po

Take purged Lead one pound, falt Armoniae in pouder one ounce, falt Elebrot poudred two drams, Saltpeter in pouder half an ounce. Put them all into a Crucible in a vehement fire two dayes, then take it away, and you will find perfect Gold. Fallopius.

To make Gold out of Lead.

Mix Cyprus Vitriol one pound, with a pound of Fountain water; first filter it, then distilit in a Limbeck, and keep the water in a Glass for your use. After this put one ounce of Quickfilver into a Crucible in the fire, and when it grows hot, add to it one ounce of the best Leaf Gold, and take it from the fire. Then take one pound of the best cleansed Lead melted, and mingle the said Gold and Quickfilver well with it at the fire, with some Iron Rod, and when they are all well mixed, add one ounce of the toresaid water of Vitriol, and let them cool, and you shall have excellent Gold. But your Lead is cleansed thus; Melt your Lead at the fire, and pour it, and quench it in the sharpest Vinegar, melt it again, and pour it into the juyce of Celandine, then again into salt water; next into Vinegar, mingled with salt Armoniae, and last of all, pour it into Ashes, alwayes melting it hist, and it will be excellent well cleansed. Fallopius.

First melt it in a Crncible, and pour on the weight of it in Quicksilver, and it will be as pouder, then wash it well with Salt and Vinegar, afterwards with water, untill all the blackness be removed, then dry it, and mingle it with common Salt burnt, and calcine it for four dayes and nights at a fire, with a clear flame, afterwards wash it as before with those things, untill all the blackness be gone, then melt it, and bring it into a body by Running of it, so are they purged from dross. After this to a Marc of Lead so purged, you must add five penny weight of fine Gold, and to Tin, two and half of fine Silver, and it is necessary that this Ferment should be mingled with Quicksilver, and made so fine, that it can pass through the middle of a double Cloath. After this put it upon the fire in a Crucible, and make it hot a little, untill it hath taken all in, then put it into one These (I think it is a vessel) at a good fire, stirring it with an Iron Rod, untill the Ouicksilver stye away, and the Lead remain; calcine it till

Book

then nois

Me I

世

当時の

and Box

md

1000

HEO:

18

then

2070

positive de la constitución de l

dec

Lead a quarter of Vitriol rubified, and half a quarter of Ocre, (D'ocre) one ounce of Tutty of Alexandria, and half a pound of Quick-Lime, pounder them all together very finely. After that calcine them feaven dayes in the flame, then reduce them into a body with Saltpeter, Euphorbium, and Rohn, and take what is fine, and you shall have Gold or Silver. And for Tin, take half a pound of Quick-Lime, and one fourth of white Calamine, Allum (aeriall) one fourth, do as I said before, and it will be perfect. Observe that Lead may be specially made without the help of the Gold to serment it, thus: Take Plates of Iron, finely beaten, and make them so often red hot, and quench them in red Wine Vinegar, and in Wine, once in one, and once in the other, that the scales may come off, and they may be purged as Copper and Vermilion. After that make an Amaig ama of them, with Quicksilver, and do as I said, of Gold and Silver, and you have it perfect. Raymundus Lullius.

To turn Lead into Tin.

Lead hath such affinity with Tin, that we may easily turn Lead into Tin, and this is done by only washing of it; for being often washed, that the earthly parts may be washt away, we see it changed into Tin: for that Quicksilver that reduced it to its purity, and made it clean, is alwayes remaining in the Lead, or part of it, whence it casily makes it found and turn into Tin. The same.

To calcine Lead and Tin.

If we would turn Lead and Tin into a Calx, let the Tin melt in some veffel, and cast it into some very fine Salt, stiring it with small Hazel stick, to separate the parts that cleave to it, and make them turn into Grains like Millet feed, or when it is melted cast it through some narrow passages of a Sive into cold water, and you shall make as it were small Worms, do it again untill you have made them very thin. pour the pouders into scalding water, so often changing and straining the water untill it hath conquered the Salt, and is grown Iweet. All the Salt being washed away, then put it into an Earthen Pot, and put it into a Brick-Kiln, or Potters Furnace for three dayes, and you shall find it all turn'd to a Calx, or otherwise like small Grains, as Geber teacheth. Let it melt in an open veffel, with a large mouth, taking off the top still with a crooked Iron, taking off alwayes the outward skin untill you have it all in Ashes. Then put it in a Crucible, and set it in a Furnace, and opening the stopper, fee if it be turned into a white Calx. Or otherwife; in an Earthen veffel, fenced and well Luted, melt your Lead, stirring it with an Iron Spatula, fix houres, that it is turned into pouder, and needs not be done again; cast this into a Pot, and set it in a firong fire of Reverberation for twenty four houres, and you shall find it white; fift it through a hair five and keep it. The fame.

Tobandled melted Lead with your bands.

It you annoint your hands with the juyce of Mallows or Mercury, you may handle melted Lead without any harm, so you do it with a quick motion. Alexies.

Of the Secrets of Tin. Chap. 8.

To draw a Spirit from Tin.

The filings of Tin must be put into an Earthen Pot, with an equall part of Saltpeter, above this you must place seaven or more earthen pots, with holes through, and stop all the chinks with Clay or good Lute; you shall set a Glass vessel with the mouth downwards upon the top, or an open Pipe, with a Receiver or Porringer under: then put fire to it, and you shall hear a noise when it grows red hot, the Shirt slyes away in smoke, and you shall find it compacted in the hollow of the pots, and at the bottome of the Glass above: do not spend too much in siling your Tin, but into half so much Quicksilver pour in your melted Tin, then beat it with a Pestle, and you have it presently, and the Spirit will sooner slye, and you have your Quicksilver fixed. If you shall make a hole through the side of your Earthen vessel, you may cast it in by degrees more commodiously, and then stop it.

r then

Myan

5,22

Mr. and

of the

60 Ct-

K.and

質な

min

Tay to

non

patts

mit

HAGE

122

To take away the ringing and fofiness of Tin.

Tin is like Silver, and they are much of one colour, and flick together. Tin is naturally of that colour, and serves to white other bodies, but it breaks and makes them all brittle, except Lead, and he that knows how to mingle them, hath obtained no small skill. We shall therefore try the best we can to counterfeit Silver, which we shall easily do it we take away the hindrances, namely, the Ringing of it; to wit, the dulness, the Lead colour and the soltness: for it is melted before it be red hot, and flicks to the fire, and runs prefently. Thele are the tokens to know it, nor are they joyned in the middle of the lubitance of it, but we can take thefe away as being but accidentall. And first, I will show you how to take away the ringing and fortness of the Tin; Some say that will be done with Ashes, Quick-Lime, Oyls, and distilled waters, if it be melted and quenched therein, and also with boyling of it. But you shall do it so more perfectly and commodiously. After that the Tin is melted at the fire, cast in some Quickfilver, remove it from the fire, and put it into a Glass Retort, that hath a great round belly, and a very long neck, and is crooked, let it be red hot in the fire, and by the force of it sublime the Quickfilver, that it may hang in the neck of the vessel, and may deteend in drops untill it be all gone; The Tin remaining at the bottome, do this in the same order three or four times, untill like kee it will not Ring at all; But you shall do it better this way: reduce it into a Calx, as I shew'd you before, that it may blot out that unfixed, and sugitive quality of the Quickfilver, or rather of the Brimstone, which is the cause of it; and it it be not done after the first and second time, do it again the third time, for bringing it into a Body by fit means, you shall have your defire, and it will grow so hard that it will sooner be red hot in the fire, than it will melt; for a vehement fire consumes the moviture of the Quickfilver, which makes it to melt to easily, that it will be more difficult to melt it in the fire, untill it be red hot, but this appears more in Tin than in any other Metals.

To take away the deaf found from Tin. If you would take away the deaf noise from Tin, because it is fost of it felf; it makes no great noise, for it yields to the stroke, but joyned with other Metals it grows more hard and founding; but herein confifts the bulinels; for it is stubborn and refuseth to joyn with any but only Lead, and it maketh them all brittle. But you shall perfect it thus: Let it dissolve in Aqua fortie, to Silver rightly purged is mingled with Lead, or any other thing, only by force of the water, and the vessel. must be hot at a gentle fire, and the water by reason of the heat will flye away, then when it is dry take it forth, and put it into some other vellel, pouring on Aqua ferthe again to long, until they are totally united and joyned together, or both from the Calxare joyned in water; for there is made (as it is faid) a mixture of Spirits and of bodies. If it chanceto look dull, melt it, and loke it in the juyce of Sowbreed, fo you shall have it sweet, founding, bright, and excellently white. Also Tin may be mixed with Silver and other Metals, by the means of Quickfilver, which I perceive some have found out and counterfeited very fine Silver. They mingle Silver with Tin melted with Quickfilver, and they continue it long in the fire. and then take it forth, and being brittle, they put it into a Potters Crucible, and hold it in the fire twenty four houres, or under hot Embers.

To turn Tin into Lead.

One may eafily turn Tin into Lead, if you often bring it into a Calx, and especially if you put a convenient fire to it in reducing of it: for losing its whisting, it will be easily turned into Lead.

Of the Secrets of Antimony. Chap. 9.

To draw a Spirit from Stybium.

You may draw a Spirit from Stybium, (which the Druggists call Antimony) this way; grind it very small with hand Mils, then put into the fire a new Earthen Pot with live Coles about it, and make it red hot all over, and put into it by degrees Antimony, and twice as much Argal, four times as much Saltpeter, finely pour E. f.

Book

曲

INTS!

din din

main facility

東京では 2 mm は 1 mm が 日

Wa

四世世四四

山山

300

功

pa

dred, when the smoke ceaseth, set on a cover, that the smoke which rileth may not flye away: take that away at length, and cast in more untill the whole pouder be burnt, then let it stay a while at the fire, draw it away, and let it cool, and take off the dregs a top, and you shall find Quicksilver at the bottome, which the Chymists call the Regulus, it is like to Lead, and is easily changed into it, for (faith Dieserides) if you burn it alittle more it will turn to Lead. The same.

Take crude Antimony two pound, or three, grind it very fine upon a flone, then put it into an unglazed Dish, and stir it an easie fire; that so it may be purged alwayes working it with an Iron Spatula, or an Iron Ladle, untill it begins to grow as it were into heap, then take it away, and grind it upon a stone as before, then set it to the fire again, and do this ten or twelve times, calcining and grinding of it, untill the pouder grow of a whitish colour; Then put it into a Crucible, with an ounce of salt Armoniac, and put a cover on, and set it into a strong sire, and cover it so with Coles, that the Coles may be three singers high above the Crucible; so it will melt and be boyl'd sufficiently in half an hour, then take it our, and pour it forth into a Brass Bason, and let it cool, and you shall have transparent Glass of Antimony like to a Jacinch: you may give it from three grains to nine, with the same proportion of Gum Dragant, and a sufficient quantity of Sugar, either in Troches, or Electuary, or Pouder. I have used this often with great success for the Colick, and for Feavers.

Antimony made into very fine pouder, and put into a Glass Retort, and insused in the sharpest Vinegar, is to be set upon an easie fire, untill the Vinegar is made of a red colour; This coloured Vinegar must be poured off into another Receiver of Glass, and new Vinegar must be poured on untill it hath drawn the same Tincture; now these percolations of the Vinegar, and pouring on of new, must be so often repeated, untill the pouder will yield no more red colour. The Vinegar collected must be distilled at a gentle fire, untill the redness beginning by degrees to condensate, seems to stick to the Limbeck: then cool the vessels, and serment this red Liquor sources dayes in hot Horse dung, untill it come to persect Oyl. One to Gelner.

Of the Secrets of Brimstone. Chap. 10.

Brimftone Sublimed.

Brimstone purged from all dross, is mingled with calcined Vitriol, and torrested Salt, and put into a vessel, and is forced with hot Sand, untill yellow flowers appear. If you do this often, the flowers at last will be white, which given alone, or else reduced into Oyl, are a remedy for many diseases. Anonym.

Take the Oyl of clear white Turpentine, distilled with Spring water, either in Balneo, or in a Copper, what is sufficient, and as much slower of Brimstone very well ground upon a stone, that the Oyl of Turpentine may swim two singers above it is mingle them well in a Glass vessel, then set them in the Sun, or in an Oven, or in Balneo for some dayes, untill the Oyl have drawn the Tincture; Then gently pour the Oyl into a Viol; again pour more Oyl of Turpentine upon the Brimstone, and digest it again in Balneo, and pour it off, and do this sour or sive times, untill Oyl is no more coloured by it; all the Oyl collected must be distilled in Balneo, and there will remain a Tincture at the bottome of the Retort, a remedy for several Maladies.

If you want Oyl of Brimstone, draw it forth thus: You must have a concave Glass, with a wide mouth like to a Bell, when you have Luted it, hang it by the I-ron foot with a Thread, and let the large mouth be downwards, that you may receive the Oyl that drops from the brims of the Bell. In the middle of this place a vessel of Brimstone, of Earth or Iron, then set it on fire, and as it burns, put on more

TO.

35

dix

tois

其技

more fresh Brimstone; for while it burns, it will be consumed, and the smoke that riseth from it to the bottome of the Bell, with moyst vapours gathers into a body, and turns to Oyl, and so fals down.

Another that admits and detains fire.

Take live Brimstone that never was tryed at the fire, and mingle it with an equal quantity of Oyl of Juniper, and by the fire in a Glass Retorr, draw forth the Oyl, and use it at your need. The same.

Of the Secrets of Cinnaber. Chap. 11.

The way to prepare Cinnaber. All that delight in Secrets of Metals, do confess the Art of making of Cinnaber but only in small quantity, as two or three pound; but in France and Germany they make great Lumps which they bring into Italy. But fince they keep this close, I shall discoverit for the publick good. Take Quickfilver nine parts, yellow Brimstone two parts, some take three, others four, some again take as much as or Quickfilver. For to Paint, the plenty of Brimstone doth no hurt, but rather makes the Cinnaber more red, but for other things, three or four ounces of Brimstone are enough for one pound of Quickfilver. The Brimstone must be set in a Dish, or some large Earthen Pot unto the fire to melt, when it is melted, take it a little from the fire; then putting the Quickfilver into some Cloath; it must be by degrees added to the Brimstone, pressing it through the Cloath, and alwayes stirring it untill it be very well mingled, and cold. When they are well mixed and coole, take forth the matter, and pouder it very fine, and sist it to pouder, take as much of this as you please, and put it into a large Glass Retort, covered with Lution Sopientia. But the Retort must be but a quarter full; Then let the Retort into a Furnace upon Ashes, and boy! them three houres at a gentle fire, afterwards increase it. But if you would make a great quantity, add gently fome more pouder, alwayes ftirring it with some stick, as the Retort stands upon the fire. But that it may be done exactly, you must have a Tunnel stand in the Gourd Glass, through which there must be a Staff put, in the upper part, Imeered about with Lute, that when the Staff is put down it may flop the mouth of the Tunnel, with which continually the matter may be stirred and mingled. Then the pouder being first boyled at the fire for five houres, untill all or fome part of it be fublimed, put in two spoonfuls of fresh hot pouder, lifting up the Staff that it may be put in, and then letting it down again. The Staff is put into it, to make way to cast in other pouder, and were it not so, the mouth of the Gourd Glass would be so stopt up with pouder, by reason of the subliming of it, that no more could be put in. And in this consists all the Art to make pieces as big as you please. Should the matter be cast in all together, then before it would be sublimed, the very Glass and Furnace would melt, wherefore it must be cast in by parts, that when the first part is baked and sublimed, sticking about the Glass, another part may be added, and baked at the bottome of the Glass, untill it grow red as the first did, and stick to the Glass. Thus continually casting in pouder, a huge mass of Cinnaber may be made, with a hole in the middle, made by the Staff; and if you would ftop the hole, draw forth the Staff, and put in more pouder; then stopping the mouth of the Glass, bake it to long, untill the pouder also in the middle be sublimed, stick and fill up the hole. And this is the best way to make Cinnaber, and untill this day unknown in Italy. But observe this, That you mult sometimes move the Staff, and lift it up, that the pouder stick not to it, and stop the hole of the Tunnel, also if the fire be great and continuall, it will do no hurt. The same,

When Cinnaber is well ground with water upon a Porphyr stone, and dryed again, it must be put into some vessel of Bone or Glass, and thrine must be poured upon it, and so lest for some time, for the matter will fall to the bottome; then by degrees pour off the thrine, and by degrees pour on new thrine, when you have done this eight or ten times, it will be well purged, this being done, take whites of Eggs distolved in water, first well agitated together, pour that water upon the Cinnaber, that

and II

きる

which

19962

them

entition to control to cold the cold c

it a select with the select the s

that it may swim above it a fingers breadth, and then stirthem together; then when it hath settled, take off the whites of Eggs by leasure, and put on fresh, and do this as often as you did it with Pils, this is done onely that the noysome smell of the Pils may be carryed away. When all this is done, add fresh whites of Eggs, mingle them well, and make a Liquor to Write, and Paint. This Liquor must be kept elose in some stopt vessel, then when you desire to use it, you must stir it with a stick, and it will be kept and not corrupt. Alixim.

Of the Secrets of Orpiment. Chap. 12.

To Sublime Orpiment.

First grind your Orpiment as small as you can, and put it into a Glazed earthen Pot, and pour in Oyl, that it may swim above no less then nine Inches, alwayes stirting it with a stick, that it stick not to the bottome; when it is dry pouder it, do the same work with Vinegar and strong Lee, at last put the pouder with Argal, Quick-Lime, and silings of Brass, into a vessel of Glass that is long and vaulted, but you must not fill it to the brum, but as far as the middle of the Glass, Lute the belly well on the outside, and dry it in the Sun, that it may endure the fire: set it in the Furnace, but shut not the mouth that the Spirits be not strangled; and that it may evaporate, let there be a gentle fire at the bottome of the vessel, and so let it be augmented fix houres, and by degrees let it be made red hot, and by the force of it, let the volatil part siye to the vaultings of the vessel, and there being turned into white silver, let it remain; break the vessel, take it out, and keep it for your use: The same thing happens in the descent, for it sals down with more ease; but if there be any, heavy bodies, mingle them with the lighter, that they may ascend the more easily, this way other Metals also may be sublimed. The same.

Orpiment must be ground with a double weight of Saltpeter; then it must be set in a Crucible upon Coles in the open Ayr, and there it must be made red hot; the Chymicks that sit by must put in Orpiment, and let it melt at a gentle sire, untill it will boyl no more; then again he must cast in as much, and let it boyl'as the former; he must do this so often, untill he have cast in enough, and now the Saltpeter being consumed, he must for sour or sive houres make the fire stronger, untill the Orpiment melted at the bottome stands like Butter, and being cooled in the Ayr groweth white; after this it must be bruised, and ground upon a Marble, and in a moyst place, resolved into moysture; and lastly, This Liquor must by Art be distilled in a Limbeck. Thus Oyl of Orpiment annoynted with Honey, extenuates all thickness; and with Turpentine, cures the Leprosie, It is good for Ulcers of the fundament, and those we unds are hard to be cicatrized. Paraeelsm.

Of the Secrets of Chrysocolla. Chap. 13.

How Chryfocolla called Borax must be purged and increased.

That we now call Borax, the Ancients called Chrysocolla, there were two sorts of it, the Natural and Artificial, as Dissorides and Pliny say. They used this in some Medicaments, and to joyn Gold as they do to this day; for there is a vertue in it to melt and consolidate a Metal suddenly; we use it to melt the filing of Gold and Silver, and to bring them to a body, and many Women use it to clear their skin, and to beautishe themselves, because it doth no hurt to the teeth nor skin; The Ancients had a green Chrysocolla, which now can neither be sound nor prepared. Some at this day have one that is white, and another black, which perthance comes near the green of the Ancients. The white is in long pieces, and nervous, like to Alum, that many are deceived, or they deceive others; For set upon the fire it boyls, and instats, and remains afterwards, white, spungy, and brittle like to Alum: but those that are skilfull know the difference between Alum and Borax, three wayes; first by the tast, for Alum tasts sharp, and is astringent, but Chrysocolla hath no such taste, but hath almost no taste at all, that it is a mean, between Oyl and Whey; Wherefore many Impostors to deceive others, put pieces of Alum into Oyl of Almonds,

mi

te let the tall t transport

是 問 題 目 国 者 后 母 首

and Whey of Milk, some also add Honey or Sugar, to bring down the sharp aftringentest taste of the Alum. Others melt the foresaid things at the fire, adding Salt-Peter, Soda, of which is made Alum Catinum, or falt Alkaly, and Argal made of Wine Lees: then in a cold place they make little flones, like to Chryfocolla, but they differ a little from them; for the stones of Chrysocolla are long, of Alum fquare; Secondly when Alum is burnt at the fire, it leaves much burnt matter, fo that it is more than it was before, but Chrysocolla leaves very little after it is burnt; The third way to know Chrysocolla from Alum is, that Alum neither melts, nor confolidates Metals to well as Chryfocolla, for though it do in fome fort melt them, that happens by the vertue of the Saltpeter, falt Kaly, and Argal, which help in part to make them melt. Moreover it may be known by this, that Saltpeter put into the fire, cracks and sparkles; Some make little stones of the foresaid mixture, dissolved in Whey, and congealed, but they are falt in tafte, clear, and too violent in melting. Wherefore when they would confolidate Gold or Silver, they at the fame time dissolve them both, that which conteins Sugar in ir, makes spots alwayes upon the Silver or Gold. Also some compositions are made, which though they have force to confolidate and melt as Borax hath, yet they differ in forme and tafte, I shall tell you some of them a little after. But to proceed to true and perfect Chrylocolla, which is found in our dayes; I say that in former times there were wont to be brought from Alexandria, small vessels full of a certain sat, that had small stones in the middle of it, this was called the Paste of Chrysocolla, which the Arabeck writers, and some of the most Ancient called Nitre of Alexandria. Now it is brought also from the West, I know not why, whether it be made there, or in some other place, namely that it is brought from India, because in former dayes there was great want of it here, for at that time one ounce of it was fold for a French Crown, and now a Man may have a pound at the same price easily. The way to make it in those places is this; Men find in the Mines of Gold and Silver, and Brass also, a certain water which (as I have seen and tryed, of it self is fit and perfect to consolidate and to melt Gold or Silver, I found the like in upper Germany, where there is the like water, which the Inhabitants do not know of; Some take this water with the feces, and boyl it awhile, and being strain'd, in time it will congeale into small stones like to Saltpeter : But because these stones cannot continue so but dissolve, they add to those stones together with the dregs lest in the bottome, Hogs grease, or the sat of some other Creature; This being done, they go to the Mines, and there they make a large Ditch, and they lay a soundation at the bottome, and some such matter upon it, and upon that thele imall flones I speak of, then again they lay a bed of fat, and presently upon that these stones, and so they proceed to what height they please, alwayes laying one upon another, yet so that the last bed be of that far matter: there they leave it open some Moneths; though most Men do these things at home in the ground, or in large vellels. But when they are minded to fell, or to fend their vellels to some other parts, be they great or small as they will, they fill them with that matter together with the stones, and they call this the Paste of Chrysocolla, or Borax; also they send from the foresaid places Chrysocolla, and the stones without the foresaid Paste, but prepared the same way I said, because for these thirty yeares more of that Artificial Borax was brought, than of that fat matter; because in Italy they knew not how to use it, nor to repare, and puryshe the small stones: Wherefore they made almost no use of it, but in distillations, for to make Women fair; But of late a certain Venetian, and a Woman also that he taught, began to break and make that up again, and they gain'd exceedingly by it, untill by degrees others had got the knowledg of it, though some knew more and some less, and very sew knew how to make it as good, which way I shall here lay down exactly. Take therefore this Lump, namely that which contains many fmall stones in it, and is not at all rancid; for that rankness is a fign it is old, and that the small stones are diminished, and for the most part confumed : then to ten pounds of that Paste, pour in one half Bucket of warm water, and put it into some earthen vessel, and work it well with your hands, and mix it as you do Bread; which when it is done, firain it well, and take:

bok X

A有品品品

erborn BEEN

noi w

THE PERSON NAMED IN

Galan Galan Galan Conso und Lo

Repuil und Vi

inc Wi

manth pelin C Telan finite good! Th

ide,

of the

and to

YOU

SER RE

Out the stones left in the five, and put them into a Kettle, pouring Oyl of Olives upon them, as you use to do in making of Sallets; then when they are well purged in the Sun, and smeered with your hands, put them into a bag and mingle them well, as they do Sugar-Plums, and keep them in wodden Boxes as the best Chrysocolla. If you defire to multiply them, and to make more, take that strain'd water, and boyl it at a gentle fire, untill it be boyld to a perfect confection, taking off the dregs and fome carefully; you shall know three wayes when the consection is boyled, first, if a drop of water put upon the fire do not dilate : secondly as you know Syrups, if it stick in the Paper : and the third is, if a small Cord dipt into it, and drawn through ones fingers, do rub sharply against the fingers. When it is boyled, take the Kettle from the fire, and cover it well with a fit cover, that no filth fall into it, then bury it in the Founders heap, and cover it all over with Bran, and thick Cloaths, a Coverled or Blanket very close pressed upon it; you may also pur under hot dung for eight or ten dayes. When that is done take it away, and you shall find a certain fat, or crust in the superficies of it, take that off, and lay it aside, you shall find also some things like to pieces of Ice, which you must take forth also, and put into another vessel, and wash carefully with water, and dry in the shade. This being done, mingle those stones remain'd in the hair-live with these last, and mix with them, white Alum made of Wine Lees, but not that which is wont to be laid for a Pattern, (for that is nothing worth) but of the best, six pounds, Saltpeter eight ounces, common water three Buckets, and let them at a gentle fire, skimming them well, untill they are pelectly boyled, as before. When that is done take it off from the fire, and fet it aside untill it be well fetled, then take one Bucket and half of this water, fet it at a gentle fire, and when it begins to boyl, add of the forefaid fat, crust or skin, taken away before seaven pound and half, and boyl them, what is needfull, as before; Then take them from the fire, and put them into some wooden vessel, and place cross wayes the vessel close Staves, and at the four corners of the Staves bind a Cord to each, but that the Cords may hang strait down, bind a piece of Lead to each of them, and so let them down into the matter, yet that they hang four fingers above the bottome; this is done to make the matter stick to the Cords. This being performed, you shall lay it up close as you did the other : But this is not put into a Sack, that is a pit, but when that must be taken away that sticks to the Cords, it is Imeered with a Feather dipt in Oyl, and the rest that sticks to the Kettle must be fprinkled with Oyl. Moreover the stones to be taken forth must be no smaller then Hazel Nuts; thole that are lefs, must be left in the water, and boyld again, as before: and this must be continued untill all the water be turned to Chrysocolla. But note this, that to the first Mass that is to be dissolved in warm water, you must add the quantity of a Ciche Peale of Hares runner, that the rest of the parts of the Chrysocolla, may the better coagulate. Alexius.

Of the Secrets of Salt. Chap. 14.

Salt Alkali.

Make a Ditch, and lay Wood cross it, and put under them a heap of the Herb Kaly, and kindling the fire, make the herb run in drops by the liquor that comes from it. This Liquor at last congeals and turns to Salt Alkali, that is in colour partly black, partly Ash coloured. It is sharp and falt and corroding. John Banhinus.

Haw to Sublime Salt Armoniac.
Salt Armoniac is sublimed either with scales of Iron, or cleansed Sand, or by Wine Lees dryed and reduced to Salt, thus: Grind falt Armoniac with an equal quantity of scales of Iron; and put it into a vessel, and first with a gentle fire, and then with a stronger you must follow it, untill it be red hot; and keep that degree of heat twelve houres, then let all cool, and take out what is sublimed, and with as much prepared Salt force it up again, as you did before: do this so often untill the Salt be as white as

BOOK.

Buix

purgoi purgoi purgoi

Fatt,

西世

1000

DW

4 201

19/14

四 本 本 中 市

4,504

A THE

I

TO THE

Etion

of this

cach

MOL

nf ix

I that

de

II ME

fithe

tylis-

25. 15

("and bribes the the district of the control of the

# BOOK, XI,

Of the Secrets of Glaß.

The manner of Annealing and Painting upon Glass. Sthere have been of late years many Arts invented, and others, that in a manner lay rude and unregarded, through the industry of our times are grown to full perfection : So I make no question on the other side, but divers by our Idleness and negligence are utterly loft and forgotten. That I may alledg one intead of the reft, I would know what Lapidary, or any elfe could shew me the Art of Casting that Marble whereof we see many fair and beautiful Pillars in Westminster, Lincolne, Teterborough, &c. and in many places whole Pavements, as in St, Albanes Abby, Godmanchefter, Scc. furely I think not any. And what hath been in greater request then good workmanship in Glass, when scarce now any may be found, (except some few in London, and they perhaps Dutch men to,) that have but the ordinary skill of Annealing and laying their Colours? Verily I am perswaded it our forefathers had known, how little we regarded either their Devotion or reft in Painting Glass Windows, they would have spared their Money to some better purpose; nay, if we would in many places imitate them to farre, as but to allow our Churches and Chappels Glass, that were well; where many times you shall see whole Panes (whereof some have carried the names of their Devote and Religious Founders; others the Royall Coats either of our Ancient Kings of this Land, their Allies, or of the Benefactors and Lords of the place, Monuments many times of great importance,) for want of Repair, partly been beaten down by the weather, partly by over precise Parlons, and Vicars, (as one in Northampson-shiere did in his Chancell, the Arms of King Edthe Windows stopt up with Straw and Sedge, or dambd up quite. A regard I confess hath been of these abuses had, but I fear me a great deal too late. The best Workmanship that may be seen in England at this day in Glass, is in Kings Colledg Chappel in Cambridg, containing as they say, the whole History both of the Old and New, Testament. The next to that in Henry the seaventh's Chappel at Westminster, the one finished, the other wholely built by the said Religious King. There are many good Pieces else in diverse other places, as Canturbury, Lincolne, &c.

There be fix principall Colours in Glass, which are Or or Tellow, Argent or White,

Sable, Azure, Gates and Vert ; Black, Blew, Red, and Green.

Your Yellow is made in this manner. Take an old Groat, or other piece of Silver of the pureft and best Resined that you can get, then take a good quantity of Brimstone, and melt it, when you have done, put your Silver into the Brimstone melted; and take it forth again with a pair of Pliers or small Tongues, untill it leave burnings then beat your Silver in a Brazen Mortar to dust, which dust take out of the Mortar, and laying it on your Marble stone grind it, (adding unto it a small quantity of Yellow Oker,) with Gum Arabick water, and when you have drawn with your Pencill what you will, let it of it self throughly dry upon the Glass.

Another sair Gold or Tellow upon Glass.

Take a quantity of good Silver, and cut it in small pieces. Antimonium beaten to pouder, and put them together in a Crucible or melting Cruse, and set them on the fire well covered round about with Coales for the space of an hour: then take it out of the fire, and cast it into the bottome of the Candlestick, after that beat it small

Note when as you take your Silver as much as you mean to burn, remember to weigh against it six times as much Yellow Oker as it wayeth, and seaven times as much of the old Earth, that hath been scraped of the Annealed work, as your Silver weighed: which after it is well ground, put altogether into a pot, and stir it well, and so use it, this is the best Yellow.

B00\$ 1

DE STANSON NO.

GEE STATE MENTE

Bille

start.

Amm

theBu

YOU!

Th

dat a mate!

foten

hand girita

mit

func

To

With Gale

fire

Who

then

tit,

No.

the for

but

di

tha

Grind Chalk and red Lead, of each a like quantity together, temper them with Linfeed Oyl, lay that on when it is almost dry, lay your leaf Gold on that, when it is quite dry polish that.

An excellent green upon Glass.

Take a quantity of Vertgreafe and grind it very well with Turpensine, when you have done, put it into a Pot, and as often as you it warme it on the

A fair red upon Glass.

Take a quantity of Dragons blood, called in Latine Sanguis Draconis, beat it into fine pouder, in a Mortar, and put it in a Linnen Cloath, and put thereto ftrong Agus vita, and strain them together in a Pot, and use them when you need.

To make a fair Carnation on Glass. Take one ounce of Tin Glass, one quarter of Gum, of Jet three ounces, of red Oker

five ounces, and grind them together.

Another Carnation.

Take a quantity of Jet, and half as much Silver feum, or Glass Tin, and half as much of Iron feales, a quarter as much of Gum, and as much red Chalk as thefe weigh and grind it.

Argent or Silver is the Glass it self, and needeth no other colour, yet you may diaper upon it with other Glass or Chrystall beaten to pouder, and ground.

Sables or black.

Take Fet, and the scales of Iron, and with a wet feather when the Smith bath taken an hear, take up the scales that flye from the Iron : which you may do by laying the Feather on them, and those scales that come up with the Feather, you shall grind upon your Painters ftone, with the Jet and Gum water, to use it as your Gold before.

Another black.

Take a quantity of Iron scales, and so many Copper scales and weigh them one against another, and half as much Jet, and mix them well together. Before you occupy your Iron scales, let them be stamped small, and put them into a clean fire-shovell, and set them upon the fire till they be red hot, and they will be the better.

The manner of Annealling your Glass, after you have laid on the colour. Take Bricks and therewith make an Oven four square one foot and half high, and when you have done, lay little barres of Iron overthwart it, three or four, or as many as will ferve; then raife that above the barres of Iron one foot and half more, then is that high enough. When you purpose to Anneale, Take a Plate of Iron made fit for the aforesaid Oven, or for want thereof take a blew stone, such as they make Haver or Oaten Cakes upon, which being made fit for the aforefaid Oven, lay it upon the crofs barres of Iron: that done, take flakt Lime and fift it through a fine Sive, into the Oven, upon the plate of frone, and make a bed of Lime, then lay your Glass which you have wrought and drawn before, upon the faid bed of Lime; then fift upon the faid Glass another bed of Lime, and upon the bed lay other Glass, and lo by beds, you may lay as much Glass as the Oven will contain : providing alwayes that one Glass touch not another. Then make a soft fire under your Glass, and let it burn till it be fufficiently Annealed : it may have (you must note) too much or too little of the fire, but to provide that it shall be well, you shall do as followeth.

Toknow when your Glass is well Annealed. Take to many pieces of Glass as you purpose to lay beds of Glass in your Oven; or Furnace, and draw in colours what you will upon the faid pieces, or if you wipe them over with some colour, with your finger only it is enough : and lay with every bed of your wrought and drawn Glass one of the faid pieces of Glass, which are called Watches, and when you think that they are sufficiently. Annealed with a

pair

证的

T With

Ditie

olt:

lato

Agre

Ohr

utu

中面

te you

desa

betie

and

smi-

thin

akft

mit

Take Take

TOT

品品

提品

00

明

ha

pair of Plyers or Tongs, take out the first Watch which is lowest, and next to the fire, and lay that upon a board untill it be cold, then scrape it good and hard with a Knife, and it the colour goeth of, it hath not enough of the fire, and if it hold, it is well Annealed.

When you would occupy any Oyled colour in Glass, you shall once grind it with Gum water, and then temper it with Spanish Turpentine, and let it dry as near the fire

as may be, then is it perfect.

These colours are to be used after one manner, you may buy or speak unto some Merchant you are acquainted withall, to procure you what coloured Beads you will, as for example, the most and perfectest red Beads that can be come by, to make you a fair red, beat them into pouder, in a Brazen Mortar, then buy the Goldsmiths red Ammel, which in any case let it be very transparent, and thorow shining : take of the Beads two parts, and of Ammel one part, and grind them together as you did your Silver, in the like fort may you use all other colours.

The way to work Glass is this; the boyled pieces of Glass of all colours. (Those that are made at Venies is exceeding fair,) are put to a Candle; when you have made them as thin and as fost as you please, prefently set them as they should be, and fosten them, and break it off, or extend it; for speed this must be done with both hands. The greatest difficulty here is to begin, and when you have learned the be-

gining to attain to the perfection of this Art. Cardan.

To make Glass fost.

Glass will be made soft chiefly by Lead, it is made tenacious by long boyling, you must first reduce the Lead and Metals into a Calx; for the more impure part is confurned, and the dark part, and the force of it remains in the Glass. Cardan.

To divide Glass.

To divide Glass, wet a Three with Oyl and Brimstone, compass the place about with it, light it, and do it again untill the place be very hor, then prefently tye the Glass about with another thred wet in cold water: and it will break in that place as if it were cut with a Diamond; but this takes up much time, also it is done with a Wheel of Brass, and by the Emeril. Cardan.

How to foften Glafs perfectly.

If Goats bloud, and Ashes of Glass be in equall quantities put into Vinegar; and then distilled by a Chymical vessel, and the Glass be steeped in the distilled water, it will become pliable and draw out like Wax. But it will grow hard again, and turn to its former nature, if you put it into cold water, or it be washed in it. Out of the Secrets of an Ingenious Artificer. Mizald.

Another way yet.

If you boyl Glass in Goars bloud and juyce of groundlel, or steep it therein, it will be as fost as Wax or Clay, that you may frame what you please with it, but if you dip it into cold water, it will be as hard as before, Geber and Albertus.

To make Glass green.

Green Glass is made of Fern Ashes, for it contains some Salt in it, as Kaly doth; and thence it is better made. Gardan.

To make Chrystall run.

Pouder and fift Chrystal through a very fine Sive, with half as much Salt of Ar-gal, and make little Bals of this, and let them stand in an unbaked Earthen Pot, in a red hot Furnace, all night, and not melt; it will fitly melt afterwards in a veffel, when all the drofs is purged from it; if perhaps it be dreggy it is discovered to be falle; for it must be transparent and clear, and if you add more Salt to it, it will mele the fooner; fome are wont to prepare Chrystal otherwile, that it may melt the sooner, and so it will be more fit for service. A great Iron Spoon is to be well Luted, and the broken pieces of the Chrystal, are put into it and fet into the fire, untill they grow ted hot, then they are to be quenched in Oyl of Argal, and this is to be done to of-ten, and then they are to be poudred in a Mortar, that the pouder may mele

Book

1100

Metal

in:

Loo

YETY

THE S

日本

Din

100

Att,

60

OIL

ini

西川

おおお

Die

all

you also

N S

ma

mi

60 16

bits

11

拉,道

tt

W

日田

m

00

是甚多

the better. This is used to counterfeit Jewels. The fame.

To joyn Glass.

The white of an Egg beaten and mingled with Quick-Lime will joyn the broken pieces of Glass, and all earthen Pots, that they cannot be broken there, by reason of

the clammy tenaciousness thereof. Mizald.

Take Liquid thick old Vernish, and joyn the pieces of Glass therewith, joyn them well, and bind them together, that they may not dissolve. Then set them into the Sun or an Oven for many dayes, until the Vernish be very well dryed; scrape away finely with a Knise what sticks without, and they will be excellent well glewed, so that no mousture nor any thing else will ever unglew them; but there must be care taken, that no liquor that is over hot be poured into the Glasses. Alexens.

Take Verdigreale what is sufficient, and incorporate it with liquid Vernice, and

ule it. Rofcellus.

Take red Lead, white Lead, Quick-Lime, writing Vernish, of each half an ounce, all must be finely pourred, and incorporated with four whites of Egges. Roscellus.

Take liquid Vernish, white Lead, Balearmoniae of each what is sufficient.

Another.

Take whites of Eggs what is sufficient, alittle Verdigrease, mingle them for the fameuse.

Take Verdigrease, red Lead, liquid Vernish, of each what is sufficient, mingle

Glew for Glaffet.

Take common Salt diffolved in common water, fifted Ashes of each one ounce, Meal of the best Wheat two drams, mix them for use. Refeellus.

Take Harts Horn, beaten Bricks, Greek Pitch, scales of Iron, whites of Eggs, of each what you need, mingle them. The same.

Another for Glasses and Exthen Vessels.

Take Quick-lime, Bones of Animals, white Lead, of each one ounce, red Lead two ounces, Verdigrease, Argal, of each two ounces, beat all these into most fine pouder, and mix them with liquid Vernish. The same.

Take Lime, white Lead, whites of Eggs what may fuffice, mingle them. The

Take Glals beaten, Quick-Lime, Milk of Figs, of each what needs, mingle them. Roscellus.

Take new Wax, Greek Pitch, Mastick, Frankincense, pouder of Brick, of each one part, grind what must be ground, and mingle them at the fire. The same.

Another.

Take Quick-Lime poudred, liquid Vernish, whites of Eggs, of each what is sufficient: grind them together upon a Porphyr stone, and make Glew for stones.

Take Mastick half an ounce, beaten Glass, white Wax, pouder of Brick, of each half an ounce, mingle them all well at the fire, and make Glew for stones. Rescellus

The Composition for Looking-Glasses.

Those that are called Steel Glasses are made of three parts of Brass, and of Tin and Silver one part, with eighteen parts of Antimony. Some and very many leave out the Silver to save charges; Those make Plates of Tin one pound, Brassathird

part,

MAL

4, 10

STED X

4 22

DE ED

XUX.

हैं। व

Th

Part, and when they are incled, they add Argal one ounce, white Orpiment half an ounce, and boyl them on the fire so long as they smoke; Then they make the Metal melted twice, into long Tables, and when they are hot, and plained with the grounds of the Gum of the Larch Tree, and Vine Ashes, they strain them into Looking Glasses: after this they work the Glass fastned to a Table with Glew, very smooth with Water and Sand; and after that with Emeril, or pouder of Pumex stone, and a fourth part of the Caix of Tin. But Silver Glasses are mingled with less labour, because Silver alone, as fit to performe what we defire of Glasses is more splendid, and there is less sear of breaking it. Gardan.

Glaffes that Men make in thefe dages make Men feem young.

Glasses that make Men look young, are such as show no rinkles, and have some red mingled with them; Moreover those Glasses show no rinkles that are not exquisite, and yet are clear, and such they seem to be, and are sound out by chance, and by Art, that some will make Men appear ten years younger than they are. The same,

How a thing may feem to be multiplyed. Amongst those sports that are carried about, that Glass is no small pleasure, that fet to the eye, makes us fee more commodioufly. For of thefe things that deceive our fight, a more convenient way cannot be found, than in the Medium, (for that being changed alrare changed) wherefore that must be prepared of more solid Glass, and that is very thick, that it may more fitly be brought to the plains and corners, whereby we would increase the number of any thing; but in the middle of them the Angles must have a mark fit for the eye, to disperse the fight that it may not behold the true Object; when therefore these severall plains are prepared, if you hold them to your eye, and defire to fee a face or Eye, you shall see it all Eye; if a Nose, all Nofe; fo it is with the Hands, Fingers, Armes, that you shall not see a Man but Briaren, that the Poets speak off, who had a hundred hands, if you look on a piece of Money, you shall see many pieces, that you cannot touch the true Money, but you will be deceived, and it is better to give it than receive it : If you see a Galley. a far off, it will feem to be a whole Navy. It you look upon a Souldier in Armes, you think you fee an Army Marching, and every thing feems double, Men feem to have two faces, and two bodies, and fo are made divers wayes of fight, that one thing may feem to be another, all these things are apparent to those that feek for them, and make tryall of them. The fame.

If any one defire with plain Glasses to seem with his seet upwards, and his head downwards, (although that way of representation be proper to concave Glass) yet I shall indeavour to do it with plain Glasses: you must place two good plain Glasses long wayes, that they may stick together, that they may not nimbly remove here and there, and may make a right Angel; when it is well prepared, hold it against your face long wayes, as it is made to cleave together; that in one Glass half, and in the other the other half sace may be seen, then you shall turn the Glass on the less or right side, looking directly upon it, and your head will seem to be turned, and when according to their breadth they shall divide your face, you shall see your Figure so, that your head will appear beneath, and your feet above: If the Glass be large, the whole body will seem to be turned upside down, this comes by a mutuall and manifold restlection, for it slyes from one to another; that it will seem to be turned

cd. The fame. A Glaft to discover Secrets. and move of himom to all

The Composition of a Glass to see hidden things in, is made thus. Joyn two plain equals Glasses of Chrystal made by Art, (such as are made at Penier, that will not be fouled so much as Steel Glasses will;) exactly, that they may to a hayr stick fast long wayes, and that it may turn about an Axeltree like a covering, so that the superficies of the one, may with the superficies of the other sometimes make one plain Glass, and sometimes a solid, right, obtuse, acute or what you will; then hang up this Glass alost, directly against the place where any thing lyeth lad, that the face of the Glass may be perpendicular from above the plain; but the moveable saccos G g 2

BOOK.

時間は

my !

北京

man of it

300 3 2,00

古田

divo

400

5080

mit

bed

inda

NII.

the G

inE

whi

報報 前

the Glass, must be placed opposite against the length of the place desired: then what ever shall be done in that Chamber, if there be light, when you turn about the moveable Glass, that it makes an equal Angle, which you may judg by your eye, whilst you find what you seek for, for you shall see all things; If the place you desire to see be above the place you are; you must hang the Glass in a higher place. Cardon.

AGlass to see things done afar off in other places.

By the same reason, if you would see what is done as or five miles off, where there are wals between, as where a City is besieged; hang the Glass in a high place, perpendicularly, or equidistant to the horizon, it must be very large, and you must have another Glass in your hand, that the face of it may respect the other (not lying quite with the face upward, nor yet raised perpendicularly) which hangs above; then by degrees go farther from the first Glass, strait forward against it, and by little and little, sometimes bend to the left or right hand, untill you see the place plainly in your Glass, then scarce stirring it from its Situation, you shall see all things that are done there; and there is no other hindrance of this, as I said, than fire Engins of the Enemy. The same.

A plain Glass made of many, wherein the Image of one thing shall ap-

peare to be many. Prudent Antiquity invented a Glass made of many plain Glasses, to which if one thing were opposed, you might see many Figures of the same thing, as we find by Prolomy his Writings, and the making of it is this. Upon a plain Table or place where you defire to fet up fuch a Glass, place a half Circle, and divide this equally with paints according to the number of the figures, firetch forth firings to them, and cut off the ends; then raife up Parallelogram plain Glasses, of the same breadth and height, glew them fast together, and let them that they may not be pulled afunder, as they are joyned long wayes, and raifed upon a plain superficies; lattly the Spectators eye must be placed upon the center of the Circle, that he may have his fight uniforme to them all, and in each Glassyou shall see a severall Image, and placed round about, as you often lee in dancing or upon a Theatre; Therefore they called this a Theatricall Glass; for all the Lines from the center fall perpendicular upon the fuperficies of them, wherefore they reflect upon themselves, and so they bring the Images to the eye, each Glass lending forth its own, lo by turning it, and placing it diverfly, you shall see divers Images in divers Posturs. The same.

A Glassis made to see many things with: for by opening and shuting it, one singer shall shew to be above twenty, you shall make it thus. Raise two Brass or Chrystal right Angled Glasses upon the same Basis, and let them be in one and half proportion, called Serquialtera, or in some other proportion: and according to the outside of multitude they must be fastned together, that like to a Book they may be shut and opened very sitly, and the Angles may be varied, as they use to make them at Venice; for if you look with one sace, you shall see many more saces in them both, and this the closer you shut them, and make the Angle less, but opening them wider the saces will seem less, and as the Angle is more obtuse the sewer saces shall you see. So pointing with your singer you shall see more singers, and the right side shews the right side, and the less the lest, which is contrary to Looking-Glasses, and this sals out by mutual reflection, and reverberation, whence ariseth a change of the Images. The same.

If you would fee your back, you shall do that with two plain Glasses, which the greater they are it is so much the better. You shall place the first behind you, between lying flat, and standing upright, in a middle posture, and the other in a higher place than you stand, between lying flat and standing upright, before your face, and you may very well see your back parts. Remember also, for example, if you place a Ring on the Glass that is opposite to you, and that the Ring it self be a Glass, as if a Saphyr be set in it, you shall see in the Glass the Picture of the Ring, and your Image will seem like the Jewel in it: this sals out by reason of manifold reflection; the same is done by two Glasses, and far more wonderfully by three. Gardan.

A Glass to fee your Belly and Throate.

But if you would fee things that lye deep, and obscure, as your Belly and Throat, or a dark Chamber, place a great Glass vessel full of water direct against the place, and the light behind the vessel, that the vessel may stand in the middle, in a right Line, between the light and the place, which you desire to see; then taking away all other light, place your eye where you may not hinder the light of the vessel, but yet may look into the place, and you shall see all as it it were a clear light. The same.

There are Glasses that show many faces, as consisting of many plain Glasses. But these are very well known, that is worth admiration, which with one superficies will represent many Figures. I had a plain square Looking-Glass, that showed both my ears doubled, as it the second were the Image of the first; also it was farther off: that made me believe that there was a plain Glass in Spain, that would show the Image double, one of the face, and that the nearest, like the true face, and the other as of a dead Man; the same reason serves for both, I will demonstrate the reason of

it, that we may know the thing, and know how to make it. For they that fee such things are terrified, not only with the strangues of the thing, but also with the Image it self. For those hinder ears seemed very pale, now because these singers were paler, and not so lively, and conspicuous, and like to the former Images, it is manifest, as in a double Rainbow, the latter is the representation of the former. But how comes the restection? for we do not alwayes see two Rainbows, and but in sew Looking-Glasses two Images. Wherefore let the eye be A that which is seen, B the Glass, C, the meeting at equal Angles in the point C let the concurs be with the right Line, and B, perpendicular in D, where also B, will be seen; since therefore B, and A, are very much inclined, because A, B, C, differ but little from the superficies of the Glass, the refraction is in C, because the Glass is not exactly plain

the Glass, the refraction is in C. because the Glass is not exactly plain in E. wherefore E. is higher than C. wherefore F. will be seen higher above D. But what shews higher and under an equal Angle, is thought also to be farther off, where-

fore F. will appear alfo after D. Cardau.

To see in plain Glaffes things that are afar off, and in other places. Thus a Man may fee fafe and fecretly not suspected, those things that are done afar off, and in other places: which could not be done otherwise; but be diligent in the fituation of your Glaffes; Let there be a place fer in the house, or elsewhere, whence you defire to behold something, and at the Window or over against a hole, place a Looking-Glass, very upright, just against your face, or if need be, fasten it to the Wall, moving and inclining it every way, untill it will represent the place fought for, which looking upon it, and coming near to it, you shall obtain : and if it difficult, with a quadrant or fome such Instrument, you shall not be deceived : and raife it perpendicularly upon a Line, cutting the Angle both of reflection, and meeting of the Lines, and you shall clearly see what is done in that place. So it will fall out in diverle places. Hence it is, that if it cannot be conveniently done with one Glass, you may see the same thing in many Glasses, or if the Object visible be lost by reason of too great distance, or be hindred by Mountains and Wals between, you shall set another Glass above, overagainst the other upright upon a Line, which may divide a right Angle, if you do otherwise, it will never come to pals; thus you shall see the place defired : for one lending the Image back to the other, the Image that is ten miles off, and often reflected, will five into the eye, and you shall fee what comes next : while the Image is produced in right Lines, the turning of places and wals cannot hinder the visible Object; the making of it is easie; Thus it is usuall to convey Images; But if you defire otherwise to see any thing that stands high and upright, which you cannot fee, fer two Looking-Glasses fast together long wayes, as Isaid, upon a pole; or top of a Wall, fast, that one may stand higher, and may receive the Object, and the other fastned to a Rope that it may be fiely moved when you please, and when at fight it makes sometimes an obtuse, sometimes

Book

田村田村

and fine

如

gin!

Sibility and

DIV

西西

Disco

bay WII

tini

おおいる

W. WIN

日記

an acute Angle, as there thall be need, whilft by the Line of the thing feen, by meanes of the second Glass the fightes reiracted, and the Angles of incidence and reflection are equall; and if you leck to behold high things, raile it higher, if low things, let it lower, untill it makes refraction to your fight, then shall you lee it : if you have one Glass in your hands, and look into that, it will happen the more casily. The other lights, place your eye Where you may not mind at the light of the vetter, may took miss the place, around the well or the Guided At them light. The f

There are some have made Glasses that shew as many faces as there are houres in the day, Prolim, as my witnes. Also part of the Image declared part of the houre, Let then there be a square right Angled, a third part longer than it is broad, and is must be divided into twelve equal fquares, A. B. C. D. E. F. G. H. K. L. M. N. by the fame reason make a Glass divided, by so many spaces, and upon them the highest vaile in A. B. and in B. than in C. and in C. than in D. to that it may touch the Glass. Let there be the fame proportion between E. F. R. and L. that A. hath to B. and F. and G. B and L. to M. as B. hathro C. and G. to H. and M. to N. as C. hath to D, but let the parts of the vail be fo diftinguished, that the higher may by degrees be removed upon the lower, as first from A. to G Bithen both parts of the vail, from B. to C, lastly all the parts into D. Whence it comes, that as the weight is heavier, it will be car-H ried about in a shorter time, that in the time of removing, they may be equally add therefore Clock-Wheels to all the three

Iquares, that there may be three Wheels, and in each of them the differences of eequation, as it is in the Planets, that the motion may be the swifter for the shorter Wheel, whereby the weight is more increased : fo it will fall out that after the first fquare, the fecond will be uncovered, and after that the third, and in each feverall faces, that for the number of houres and parts, fo many faces and parts of faces will be feen in the Glafs. But all thefe things are easie to be feen in Clocks unequall houres ufed by the Romans: for the Wheel that turns having an Axeltree upon which it moves out of the center of it, it will move to much the fwifter in that part next to the Axeltree, by how much the Axeltree from the lame part, is removed from the

center of the Wheel. Cardan.

In Tomake a Glass hall thew nothing but what you please

Alfo a Glass may be made, that one may look into it and not fee his own face, but fome other Image he cannot tell how; you shall fasten a plain Glass upon a Wall, cipon a plain erected perpendicularly, and at a known portion of the Angle, let the head of it be inclined, over against; cut the Wall at a certain quantity of some Pi-Gure of Image, and oppose it against it, according to the quantity of the portion, and cover it that the beholder may be ignorant of it, and it will feem the stranger, nor can be understand it. The Glass in a place appointed will refract the Image, that between the fight and the Object by the Glass, there shall be a reciprocall stroke, there place the eye, add you shall find the place as I taught you before; wherefore he that looks into the Glafs coming to it, he shall see neither his own Image, nor any thing elle, but when he is right against it, and comes to the place appointed, he shall fee the Image of the Picture or fome other thing, which he cannot fee elfewhere. The Vanient a noon algreen some on the

HOVELL The one looking into a convex Cylinder Glafs, may fee the Image of same-

opini out and to out on wheel thing hanging in the Ayr.

Alfo a round Pillar like convex Glass or half a cylinder of le, (which I think makes little difference) may be fo placed in a house, or some place appointed, that it shall represent clearly the Image of something hanging in the Ayr, which is very Trange. If you defire to tee it, make it thus. Make fast a segment of a Cylinder in the middle of the house, right up upon a Table or Tripode, that it may stand perependicular to the ground, then place your eye at fome hole or chink frimewhat di-frant from the Glass, and let it be faitned that it may not remove here and there; then break the wall overagainst the Glass, and make it like to a Window. Let it be made TEE

uzion

Marit Marit

The same

O'C I

CORTE.

sand

MIN

西湖

d to for

Ini G.

chip.

out o

tem.

c then

BUC

DOM:

SWAL

OTH

DOTT ID

at, in

in ric

orPi-

cuon,

frida,

CONT.

芸芸

think.

群

made like a Pyramis, and let the cone of it be within, the Basis without, as it is wont to be done there, place the Picture or Image, that you may see it with your eye, but let it be reslected by the superficies of the Pillar Glass; that the picture placed without the cannot be seen through the hole by the eye, may seem to hang in the Ayr, which is strange to the Spectator. Also a Pyramidal convex Glass will do the same: i you set it so that it may represent the same Image: it will be done also another way as I shall shew underneath. The same.

That by a sphericall concave Glass an Image also may seem to hangin the Ayr.

Also the same Image may be more easily seen to hang in the Ayre by reflection, than in a convex Cylinder, by a concave sphericall Glass, but more strangly in a segment of it; for it will feem far from the Glafs, whereas it appears in the center of the You shall place that in some obscure place, and when you are a little removed from it, you shall see your head turned downward, but do you with fixed untwinkling eyes look upon the center, untill you fee without the Glass a reflexed Image hanging in the Ayr, parted quite from it, to long as the beames of your fight pals through the center of the Glals, you shall see an Image and apparition in the Glassalfo, the nearer you come to it, the greater it will be that you will think you touch it with your hands. If the legment of the Glass be great, no Man can cheose but wonder: for it he comes nearer, he will be frighted by the Image, and nose will feem to come and hit against note : but if any one draw a Sword against it, he will think another comes against him, and thrusts him through the hand that he will pull his hand back, and if when one bends, another holds up his fift behind him, he that looks into it will feem to take a box on the ear, will be afraid, and turn afide his face. That you may more easily find the center, use this Rule, that you may not divergto Mathematicks. With a piece of Paper, or Wax, take the compals of the fegment, that you may bring a string from both sides, and cut it in two parts perpendicularly, and in the Lines that meet or femidiameters, you must necessarily find the center, which may be known in all concaves. There are also many experiments of concave Glaffes which I shall set down in that which follows. The fame.

The representations and operations of concave Glaffes.

The center of a concave femicircle being now found, it will be easie to know all the differences, because by that all the rest are regulated and known. If then you will fee your head downwards, without the center of the Glass, look into it, it must have a head, and your head will form downwards, and your heels upward presently. if it be not a perfect half circle; but only a fegment of it, you may the more easily fet it into a head, and you shall fee the huge faces of great Bacchus, and your fingers as thick as your arm; Askins (as Senera layes) made fuch concave Glaffes to reprefent his Image greater, than it was, who was a great example of luft, and so disposed his Glaffes, that when he was buggered he might observe all the motions of the buggerer, and by a falle relemblance of a great Prick, he might pleafe himfelf. But letting passthis, that which is the right side seems on the left, and the left on the right; and holding the Glassa little from you, your face will feem greater then nearer to the center: you shall see two faces and four eyes, if you move a large Glass, or your head, but in a small Glass you cannot see them together. When the eye is in the center, it will fee nothing but it felf, when you are past that you shall see two faces, and two heads turned uplide down, to long as the Line passing through the center may strike upon the distance between the eyes : but all things will seem to move the contrary way : the Spectator without may fee by two Axeltrees of his eyes, that all things shall appear double, as ofttimes it happens many wayes for a thing to be doubled in appearance. So also let the Glass lye upon the ground, or upon some Table, and let the distance be moderate, and let them look one upon another : the Mans face will feem long and narrow, crushed together, and very ill favoured. But fuch a Glass hath this excellence above others, that it will burn a great way, and that very ftrongly. But he that defireth to try it, must hold the Glass against the Sun beams when they shine, and he must place Tinder, or some thing that will take fire in the place of the center, which is found out by removing it further and nearer it, and

par de fan

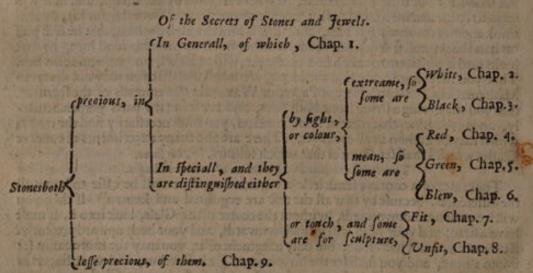
0

明明日間

the conus of the light shews it self, add sets the suel on fire. If it continue long, it may melt Lead or Tin, yet I remember that I have read that the beams have melted Silver and Gold. The greater segment it is of a greater circle, the surther it will burn. The same.

A fegment of Chrystal hath the forces of many Glasses, that it will represent many formes, and those turned upside down, as concave Glasses, also Men with but one eye, and others with sour eyes. Also in it appear many beautifull colours worthy imitation if it were possible, especially whilst it is held long-wayes against the Sun; but held to the eyes, then especially where Trees and Fields are, it shews the beauty of the Heavens, Crowns, Rain-bows, Tapistry spread every where, most orient colours, Red, White, Green, Blew, Golden colours and all mingled and most delightfull colours. It shews another shape of things against it above, as if there plains upon the tops of Hils. Also it represents the horizon, and the Countries with a vast distance and pleasantbeholding of them, for it doth not hurt but refresh the sight, but it must be a great segment and most pure Chrystal.

#### BOOK XII.



Of the Secrets of precious Stones in General. Chap. 1.

Jewels are counterfeited many ways, but those are all reduced to three wayes; The first of these is common, to put the colour between two plain pieces of Chrystal, with transparent Glew, when these are Glewed, the Jewel is set into a Ring, that the place where they joyn may be hid; this is a base vulgar way. But the greatest fraud is, and it is not common, but the Author whereof was Zecolinus Medalanensis, who took a small shiver of a true stone, as for a Carbuncle of a Carbuncle, of an Emrald for an Emrald, and it was little worth by reason of its weak colour, whereof there was great plenty and ever will be, as there will be of such Impostors; under this he set an equall thick Chrystall stone, and he joyned them salt as he could wish Glew very finely, putting between them the proper colour, as bright red for a Carbuncle, green for an Emrald, blew for a Saphyr; and to hide the joyne, he set it into Gold, whereby also all suspicion of stand was taken off. For it is storoidden in the more noble Cities to set a counterfeit Jewellin Gold. In this way of cheating there wants nothing but the authority of him that sels it. The joyning lyeth hid within the Gold, and by reason of the thinness, the colour makes it beautifull; the upper most superficies being of the true stone represents the lustre of a true Jewel. This wonderfull Impostor coulned Jewellers themselves, untill his fraud was sound out, and then

then he fledfor it, and was condemned to banishment by all the more noble Cities, and thus by too great a quantity of Gold, he prostituted our City to shame in all parts; yet this was no contemptible Villany, for a Jewel worth three Crowns of Gold, was ofttimes sold for three hundred Crowns, and many times for more. The third way to counterfeit Jewels is far more nobler, and not so much condemned, Art and Nature only contending together. A Jewel is changed in a Jewel by help of the fire. A clear Saphyr, but yet of a weak colour, is set to Gold, and put into the fire by degrees until it grow soft, the Gold is red hot for two or three houres, then the Jewel is taken off, and suffered to cool by degrees, and it will be a Diamond: for the stone remaines, and no File will touch it: all the blew colour of it also vanisherh. Wherefore we seek for Saphyrs of the faintest colours: for they are the basels, and they sooner turn into Diamonds and more perfectly. He that first found this out grew very rich in a short time; but when it was discovered, there is yet gain to be got by it; for it shines very much by reason of the hardness of the Saphyr. Some with Sea water make a baser and softer stone a fair Diamond. Some do not bake the Saphyr in Gold, but only in the fire, wrapt in Clay, and so it succeds well enough; But note that fire must be put by degrees about a cold stone, and again when you have done your work, you must let it cool by degrees; for to take it suddenly forth of the fire is not safe. The fault is, if there remain any print of the blew colour upon the stone. Cardan.

You shall thus prepare matter to counterfeit precious Stones. Fill a bladder with many whites of Eggs, mingled and shaked together: then put it into boyling water to boyl a long time; and when you take it forth, lay it up to dry in a place where no dust comes, untill it be grown as hard as Glass; After this divide it into pieces, and presently after that, cast them into what waters you please to Dyethem of full perfect colours, that they may feeth there, and drink in the colours you desire for a yellow. If you would have a Topas, dissolve Saffron in water; for a Carbuncle, the scrapings and dust of Brasil; and so for the rest; A very gallant Invention, and easie to be made, that I gain'd of an experienced Artist, and thought sit to communicate to thee, but not with that mind that thou shouldst deceive any one. Mizald.

You shall thus make precious stones of all colours: Bake in a Potter or Glaziers Oven the hardest whitest Flints you can get, untill they will be finely poudred. One part whereof being sisted through a Hair-sive from the Chalk, or otherwise, must be mingled with three parts of red Lead, and Lead purged from the dross, and put so into a Goldsmiths Crucible, but not to fill it up. A little of the silings or Leaves of fine Gold must be added to it, if you would contered a Topaz or a Jacinth; or a little of the filings of Steel for an Emrald, or some Lapis Lazuly, for a Saphyr or Amethyst: and so for other colours; then mingling all together well, they must be set into a very strong fire of reverberation as they call it, so long untill they melt, and are as thick as Honey. Let it stand in the same fire untill it cool of it self, then break the Chrucible, and you shall find a very gallant matter, to make stones off to be cue by a skillfull Lapidary into what formes you please, and polished, and lassly by a cunning Artist to be set in Rings. Some burn Flints and beat them to pouder with an Iron Pestle and Mortar to make an Emrald, in Copper for a Topaz, without mingling any other colour. It for the pouder of Flint you would use calcined Crystal poudred, you shall have all things more fine, persect, and harder, as I have proved a hundred times. Mizald.

To make double Stones, such as they make at Millan.

Take Gum of Mastick, and beat it with some colour and Oyl, and a little Wax, and water also is need be to colour it. This being done, take two pieces that are equall, of Chrystal polished by the Wheel, of what forme and bigness you please, yet so that the upper piece be thinner then the neather piece, and let them be glewed as close together as the Nail is to the Finger on all sides. Put the lowermost of these upon burning coles with a fire Pan, untill it be very hot, then stick the foresaid co-

En Car

自然の名名

nd Pot

Cra

2日日

pas

四四四日

YE,

地面

tion

500

子子

ch

班

中部

100

DE LO

母母母母母母

西田田南南 五江四

loured Gum upon the point of a Bodkin, and lay it upon this lower most stone that it may melt and run, and so Tincture it as well as you can untill it be sufficient, then presently put the upper part that is the thinner very hot upon the other, and so it will joyn perfectly, without any thickness, and will be all transparent. Then set these Jewels in Rings with a Leaf of Gold under them for Rubies, green for Emrals; but I shall shew in its proper place, how to make Leaves of all colours. Alexim.

To make Jewels shine.

If you would have a Jewel for to shine,

Seek, for a polish'd piece of Marble sine,

Under the Stone, the Jewel must be got;

With little water-file you burt it not;

The harder t'is, the more t'wil shine I wot.

Arnoldus de villa nova.

The way to cut Jewels by the same Author.

If you with Iron hard stones would divide:

Or he that would use Iron Tools are tri'd,

To cut those Stones which Kings love above Gold,

Who held Romes government in times of old,

Let them hear what I have found out by care,

That is of great price, singular and rare.

I sought a large Goats Piss, and eke his Blood

That sed sometime on Herbs, for that was good;

I warm'd the Blood, which helpt to cut the stones,

As Pliny shews, amongst the Roman ones.

He writ of Arts, the people did approve,

And by his skill in Jewels gain'd their love.

Who knows stones wirtue, he will love them more,

By knowing them, than ere he did before,

## Engraving of Jewels.

Thus for to cut your stones, make Iron bard,
For he that will divide stones, is debard,
If that he knows not how the time to find,
The point to temper, when Goats seek their kind.
That is the season, for only the fat,
Of a Goat is thought best, and good for that.
For if hot Iron, quenched be therein,
It presently to harden deth begin. The same.

\* What Images and Inscriptions ought to be Carved upon Stone.

What Inscriptions and Figures should be made upon stones to procure the happy influence of the Heavens upon us, remains now to be spoken of; and how they must be fitted to them, and a Rule for to take and chuse them in season. Upon an Amethyst there is ofttimes Engraven a young Man carrying a white Rod in his hand, with a Hat on his head, and wings on his seet, and sometimes holding a Cock in his left hand, whom all know to be Mercury; nor doth it differ from the virtue of that stones from hence it promiseth wisdome and understanding to them that carry it with them, since the nature of it is very subtile. Upon Agats we find Engraven Scorpions, Spiders, Serpents, and other venemous Creatures, sometimes a Man pursuing Serpents; and Men know that to be Assenting the Celestial Serpent catcher; wherefore it cures venome, and the biting of Scorpions: it is found in the River Achates in Sieils, where the greatest Scorpions are bred, and by those stones are the Serpents of that Province destroyed, and nature repairs this defect by their virtue. Also upon a Bloudstone, there is inscribed one carrying a Snake: I have read that the Magicians amongst

amongst the Persians gave counsel to their King, that he should carry this stone with him, and they hold it good against poylon, as Haly writes. Upon the Jasper they Carve offtimes, Lions, Cocks, Eagles, Victories, Trophies, Brigandines, sometimes Mars, sometimes an armed Souldier treading upon Serpents, and having a Buckler about his neck; a Man suitable to the virtue and hardness of that stone; Sometimes they make a Man a Warrier, a Conqueror and invincible. King Nechepson, for the pain of his stomach was refreshed by the virtue of this; he commandate ded a Dragon to be the Inscription, putting forth his Sting; upon a Loadstone is often seen the Figure of the Bear called Orsa Minor, because it seems most to be in love with the Pole-Starr : for Iron touched with this, turneth toward the North Starr, and it makes it capable of its forces, as being Saturnine. In the stone Selenites, the Picture of the Moon is alwayes found, and he that carryeth it about him bound with a Silver string, and is ruled by the Moon; Upon the Saphyr many Figures of living Creatures are Engraven, that it may cure the diseases of them; upon the Jacinth are Lightnings and Thunder, that it may preferve those that wear it from them : Upon a Cornelian are fundry Figures very diverle, by reason of the diverse virtue and operation of it, that stone is easily found, and easie to be Engraved. Whence we have a report that the Children of Ifrael in the Delart Carved multitudes of them. I have now given you examples how upon severall stones that are set, fit Inscriptions may be made of Heavenly configurations for their virtues. Some also make Rings of Metals to fet the stones in, addicted to that Planet, that they may contract an ea-fier faculty of operation: as of Saturne from Lead, Sun from Gold, Moon of Silver, that Saturne may become Solar or Lunar, which I suppose must needs profit much.

Elections necessary in carving of Stones.

But some say they receive greater virtue from Heaven, to communicate it, if they be Engraven at let and convenient times; for fo they are animated, and configurations do more flow from the constellation or Star into them : and this lay for the ground and root of all thefe things : for if you would procure love, you must Engrave in fit and friendly Afpects: if you would increase hatred, use ill destroying Afpects for your season, and when you know the affection, so chuse your time: For if Men will make the Image of Saturn or Venus, they expect untill Saturn be under Aquarius or Capricorn, but Venus must be under Taurus or Libra, and the truth will appear. In the Engraving of them we find the Sun in Leo, the Moon in Gancer, and Mercury in Gemini, and Virgo; So they do inscribe the figure of a Lion or a Crab, when they see the Sun and Moon in Leo or Cancer, and they do it presently. But they take the chiefest care that the Moon be free and far from all Impediment, as from Mars and Saturn, and from the Suns combustion. Moreover they consider, not to do it when her course is void, but when shee increaseth and moves swiftly, and hath not too great a heel, (for these are ofttimes the terms of missortunes) they will feek her in a happy scituation, in a fortunate Trigonal or Hexagonal Aspect, ascending in the Eastern point, or in the Meridian, not in the descending part, she must not de-cline, for then the Planet mourns and is stupid, the Diurnall signs must ascend in the day, the Nocturnal in the night, that the may the more eafily recover them, and may bring no Impediment; On the contrary you proceed prepofteroufly, if you intend to breed hatred or weaknes; when they feek to Inferibe the figures or the figns, you shall find that they do it as much by the following Triplicities. For the first Triplicity confilts of Aries, Leo, and Sagitarius, whereof in the day the Sun is Lord, and in the night Jupiter, but in the twilights the cold Planet of Saturn; and by such figns and cold Interiptions they cured cold difeates, as Dropfies and Palfies : fo according to the other Triplicities they Inscribe the other figns to cure other Infirmities. But I will not omit that which Men of all ages testifie, that the virtue of them will fail and be loft, wherefore those that our Forefathers made are now worth nothing, as we shall find. The fame.

1918

that

giron

E, 22 Was

in the

MI W

Book and ble as Gill, on Gill, on Gill,

Mas

はは、一切の

dien lewi

ZE

Of the Secrets of Jewels in Special, and first of white Jewels. Chap. 2.

To try a Diamond.

A Diamond doth differ so much with a Loadstone, especially an Indian Loadstone that laid by it, or as Albertus hath it, under it or above it, by the opinion of tome Men, it will not suffer the Loadstone to draw Iron; and if it take hold the Diamond will put it off again. By this means you may know true Diamonds from false, which are many now adayes. But we can find no such experience in our dayes, unless it be so that all Diamonds be false. Mizald.

How to counterfeit a Diamond.

First provide Crystal, and set it in a Crucible in a Potters or Glaziers Furnace all night, quench it in water, then pouder it very fine and grind it, and mingle it with falt of Argal, and with water make Pellets, let them digeft all night, remaining in a most vehement fire red hot, but yet not melt, then take them forth, and put them into another vessel, which will better endure the fire, let them stand in that two daies, and you shall have an excellent Diamond. The same.

A colour to be put under true as well as false Diamonds. Take the smoke of a Candle covered with a Bason, and mingle that with Oyl of Mastick, which in the hollow of the Ring must be set under the Diamoud. Alex.

How to polish a Diamond. It cannot almost be worn by any other thing than the pouder of it self, nor polished it is fo hard. Cardan.

To counterfeit Pearls. You shall counterfeit Pearls thus : Take the white stones out of the heads or eyes of Fishes, cleanse, dry, and pouder them, and with whites of Eggs well beaten, and the froth taken away, mingle them, and stir them so long, untill they come to a Paste, or thick lump; make small Pearls with this, whilst the matter is soft and tractable, and with a Hogs bristle make a hole through them; then dry them, and boys them in Cows Milk, and in a private place farre from the Sun and dust, dry them again, until they be perfectly hard. This you shall see will please you. Mizald.

Take clean Eearth, such as Potters make Pots of, make round Pearls, with a hole in them, of what bigness you please. Then dry them in the Sun or which is better in some Furnace; for so they will be harder. When this is done, wet them with Bolearmoniac lightly with the white of an Egg, then cover them with Leaves of Silver, being first wet with water, when they are dry, polish them with a Tooth, and they will be Orientall. Then take some bits of white Parchment, and wash them in warm water, untill the water grows fomething thick, then ftrain it finely, and when you would use it, remember it must be hor. When this is done, fasten each Pearl through the hole of it, with a Needle or Bodkin, yet fo, that you ftop not the hole, then plunge it into that water where the Parchment was diffolved, and draw it forth presently again, and turn it to all parts of it, that the Glewey Liquor may run equally about the Pearl; If it feem not great enough, dip in the Pearl again, fo will the Silver whiteness shine better, through this thin Liquor, that the Pearl will seem to be natural. And if you compare them with the natural Pearls, they are fairer, as

How to diffolve Pearls. To dissolve Pearls, wash them being whole, and strain the juyce of Lemmons twice or thrice, then put them into it, and set them in the Sun, in five or fix dayes they will be diffolved, that their fubstance will be as thick as Honey. They may also be diffolved in diffilled Vinegar. Cardan.

being more round and clear. Alexius.

Hore to make a Calcedon. When you put Crystal into the fire to melt, mingle a little of calcined Silver therewith, let it flay in a Furnace twenty four hours, to one part will thine between, and another will be cloudy and dull. The fame.

yl di

a rya

, and

田山

Of the Secrets of black Jewels. Chap. 3.

To counterfeit Amber.

You shall counterfeit Amber thus. Take Chrystal beaten into very fine pouder, and whites of Eggs, excluding the Cock-Treads, and beat them, and take off the froth so long, untill they be resolved to water; mingle the foresaid pouder with them and work them together, adding a little Sastron finely poudred, if you desire to make yellow Amber; then cast all these into a hollow Reed, or some Gut, or some Glass Viol, and put them so long in scalding water, untill you find they have got a solid hard consistence, take them out, and grind them upon a Marble, and make them of what Form you please, if you will make little Beads for Ave Maries, or Hilts of Swords, make the holes before you let it dry, after that set them in the Sun; you may also mingle what colours you will, and counterfeit such precious stones as you desire very handsomely. But then the matter must be strain'd before it be boyled, that the body of the Jewel may be transparent and clear. A Secret of an Ingenious Artificer, a friend of mine. Mizaldus.

So shall you imitate Amber, if you melt Mastick in a Pot and strain it, to cleanse it from silth, that it may shine the clearer, then mingle a little Turmerick root with it, and make forms; So if you put into melted Crystal, Argal crude, made of white Wine, and put all into a vessel with the mouth Luted, and keep it twenty sour houres in the sire. The same.

Amber may be handled with your hands like Wax, and made into what formes you please, if it be cast into melted Wax skimmed. For so it will become so soft and tractable, that you may conveniently use it for Seals, or other things which you defire to make. Mizaldus had this of an Ingenious Lapidary, and Caster.

Of the Secrets of red Jewels. Chap. 4.

Some make a Ruby after this manner; They take Salt called Alkaly four ounces, pouder of Crystal three ounces, and of the beatings of scales of Brass, (as they call it in the Shops of Italy,) half an ounce, and of Leaf Gold six grains, all must be mingled and melted in a Goldsmiths melting Pot in a Reverberatory. When the Crucible is cold and the fire abated, it is broken, and the matter must be taken forth, and given to a Lapidary to forme and polish; and then delivered to a Jeweller to set it in Gold, you may try the same with any other colour of a stone, until you shall receive a various Method and a multitude of wayes from us concerning these things Mizaldus.

If you would make counterfeit Rubies; Take Gum Arabick, Alum Succharimum, Roch Alum, of each one part, mingle them and boyl them, in common water, adding a little Verzinum cut in finall pieces, Alumen Catinum what is sufficient, (for the more you put in, the darker will the colour be, let drops of Mastick be Tinctured herewith. After this take two pieces of Crystal that are equall, and totally polished, in what forme and magnitude you please, yet so, that the upper piece be the bounds of the under piece; Glew them, and joyn them together in each part, as the Nail to the Finger; Put the undermost of these upon an Iron Shovel, and set it into the fire untill it be hot, then take the foresaid Tinctured Mastick, and put it upon the point of a Bodkin, and lay it upon the hot Crystal, that it may run so much as you think sit; by and by lay the other piece, namely the thinner, being hot upon the other, and it will Glew sast to it without any thickness, and it will be a transparent Jewel all over. Alexim.

But to make a Carbuncle the Greeks call a Pyropus, we a Rubine, and others that are more brown called Garnats, you must do thus, to make it also send forth a Pur-

战

tion

(03%

how

COS.

Sep 5

拉四

10 E

TOBO

fin,W

White

tyti

CCTV md hers,

cold

che

deca

Th

YO

R

to

ple Splendor, or feem with a more lively Skarlet red within the whole body, and if you make it clear, it will be wery well pleafing and perspicuous. Put Chrystal into a strong Crucible to melt in a Furnace, add to this a little red Lead, and let it stay there twenty four houres; the next day take it forth, and let it cool, then pouder it in a Mortar and fift it, and add thereto a very little calcined Brals, let it again into the fire, and when it is melted, add to it a little of this pouder; keep Tin melted three dayes in the fire, and mingle the yellow of it that will fall to the bottome, that that filth may never (wim above it any more, and ftir it with an Iron twenty four houres, never cease but stir it, untill it grow cold, so will all these stones look red, more weakly and wanly, as you pleafe. The Tame.

To counterfeit an Amethyst. If you would counterfeit an Amethy, take Salt called Alkali three ounces pouder of Crystal four ounces, filings of Brass half an ounce; let them all meltina strong fire in a Goldsmiths Crucible, and when the matter is cold take it forth, breaking first the Crucible. Mizald.

How to make an Artificiall Jacinth. Put Lead into a strong Earthen Crucible, and set it in a Glassmakers Furnace, let it stay there fix weeks, and it will be like Glass, and of the colour of a Jacinth that is naturall, and you will be very glad that it cannot be discerned from a true Jacinth, this is accounted the chief amongst these things. The fame.

How to counterfeit a Chrysolite. A Chrysolite shall be made thus; mingle with melted Crystal a fixt part of scales of Iron, and let the Crucible that is strong to endure the fire, stand in a vehement fire for three dayes. The Same.

To thicken thin Balagii. Balagii as thin as Paper may be made thick after this manner; Take the best Chrystal Tinctured of the colour of Balagii, and one grain of Mastick, and upon the point of a Knife or stick hold it to the fire, untill it yield a drop like to a Pearl, with this joyn the Chrystal with the Balagium, for that drop joyns without a body, nor doth it change the colour; deliver this to be polished, beautified, and last of all, to befet into a Ring; and it will be very fair, as if it were all Balagium. Alexim.

To counterfeit Coral. You shall counterfeit Corall by this ingenious way; Take the scrapings of Goats Horns, and beat them together, and insule them in a strong Lixivium made of Ash wood for five dayes. After that take it forth, and mingle it with Cinnaber distolved in water, and let it to a gentle fire, that it may grow thick. If it be of the true colour of naturall Corall, you may make it of what forme you lift, dry it, and polish it according to Art. Mizuld.

How to melt Corall. Corall will dissolve in juyce of Barberries as Pearls in Vinegar, of which Liquor one spoonfull exhibited cures the dysentery. They both are aftringent and cooling, and stayes excretions of bloud, strengthening a loofe and decay'd stomach, as Dioseorides and Galen, and all Phylicians fay.

## Of the Secrets of green Jewels. Chap. 5.

You may make an Emrald thus. Burn the best Brass three dayes in a Furnace, take it forth and beat in a Mortar and fift it, the vellel must be again set with Oyl into the Furnace: and flay there four dayes at a weaker fire, with twice as much Sand, that Glass is made of, when it is hard in the vessel, keep it at a more gentle fire twelve houres, and you shall find it thick and green, most pleasing to the light, that it will allure your eyes to behold it. The Same.

How Emralds and other precious Stones are to be made. Take Salt Alkali what is sufficient, and diffolve it in common water, then strain it through a Cloath of Wollen, and dry it, and then again dissolve it in water as at first, and dry it. When you have done it the third time, ponder it, add to it ChryTXT

原品品

是是是

y iour

Krad.

TO DO

tont,

tiales

nets her

City:

WIL.

Y, DOZ

4 00

Good

W 00-

stal beat into fine pouder, and sifted by the Apothecary, two ounces and half, Salt Alkali two ounces, flower of Brass insused in Vinegar and strained one ounce, put them into some new well Glazed vessel, well Luted about and close that no vent come forth, when it hath stood in a Potters or Glassmakers Funace twenty sour hours, take them out, and make Artificial Jewels of them like to the most precious. Alexim.

Whites of Eggs mingled with unflakt Lime, and long bearen with pouder of Saffron, in a Moneths time will grow so hard that they may counterfeit a Topaz, if they be put into a round frame to dry, and then taken forth to polish, and Artificially set into a Ring. Mizald, bad this from an Italian.

Haw to counterfeit a green stone.

A green stone is counterfeited thus: Melt a Crystal, and add a tenth part of Iron to it, and one part of Brass twice calcined for twelve hours, mingle them, at the fire with an Iron Ladle, without intermission, and it will be like an Emrald. If you desire it of a clearer colour, mingle a fixt part of calcined Lead and Tin; after stir it, and leave it in the fire twenty sour hours, when the vessel is removed from the fire, when it grows cold it will a be green. The same.

How a blew is counterfeised.

If you would make a blew stone, put into melted Crystal, a dittle of that Earth which I shall tell you of for the Saphyt, mingle it well, stirring it with a Rod, whilst it drink it in, leave it so for twenty four hours, then mingle it wit an equal quantity of calcined Silver, keep it in the fire as long as you did before. The same,

Of the Secrets of blem Stones. Chap. 6.

Some say that Turky stones set into Rings, if a Manfall from his Horse, will receive all the hurt and be broken into pieces, and save the Master: but they add, it must be given to you for a gift. This stone is clear as the blew Sky. The proof of it is, that it will seem greensh in the night, that the part from you and that in the bottome is black, that it hath veins in the lower part, that it is light, and not very cold; lastly, that Lime dissolved and laid upon it, will appear blew, and receive the colour of the Jewel. And when it is so, it will not be transparent nor a Jewel, for the file will touch it; also set near to the fire the colour is increased, but it faints and decayes by the moysture of your hands. Cardan.

The Tincture for a Saphyr is easie, thus: Put into a Furnace poudred Glass, with that blew Earth which Potters call Zaphyron, half as much mingled with it, let it stay to in a strong Crucible three dayes, and it is done. The same.

This Secret of Stones seems to be common, because all use the same way almost, and I dislike it not: but when I have set down the way they use, I shall shew you one far better. First of all they take the filings of Iron or of Gold: but the most use sings of Gold, for they think it more fit for this purpose, because it is dearer; but they are deceived, for filings of Iron are far more fit for it: They put these filings in a Crucible into the fire, untill it doth not melt, but only is grown red hot, then they bury in it Saphyrs that are of a faint colour and white, and they leave them not there very long, then they take them forth (and if they are not come to the true colour of Diamonds yet) they put them in again, and this they do so often, untill they come to the persect and true colour. This done, they fet them in Rings, having first annointed the beasil of Rings with the foresaid Tincture. Alexiur.

Take white Emmil, commonly called Smalt, finely poudred, filings of Gold or Iron, of each one part, mingle them; then take a Saphyr, and wrap it in fine Emmil made with Spittle into Pafte, and dry it well at the fire; After this bind the Saphyr with a thin Iron Wyer laid into the fire to make it pliable, that you may tak-

Book

Who

日本日

out at from

mit hou

All the time the

m

200

品品

抽

ing the Wyer in your hand draw the stone out of the fire; thus being bound about you must lay it into the said Iron filings and red hot Emmel, and let it remain there awhile as I said before, then take it forth, and if the colour be not yet perfect, put it put it in again, untill it be perfect as it should be. The same.

To turn a Sapbyr into a Diamond.

If you please to change a Saphyr into a Diamond: find out a Saphyr of a weak colour, that it may be almost white, cover it over in filings of Iron in a Crucible, and when it is red hot at a most vehement fire, but yet it must not melt, spare not to look to it, least you hold it in the fire longer than you should, when it comes to a perfect colour like to a Diamond take it forth and use it. The same.

How to Soften a Diamond.

A Diamond, that (as Pliny faith) will not break upon an Anvil, will grow foft, and almost melt in hot Goats blood, so the Goat sometime before drank Wine, sed on Parsely, or Siler Montanum. Albertus.

Of the Secrets of Tewels fit to Engrave. Chap. 7.

How to make a Sardonyx white.

The white Sardonyx which others call Cameum, if you like it, and defire to imitate it, do thus. Beat small a great deal many of those Fish shels, that are small, and Women use to adorne their faces with the colour of them, for Ornament sake; put them into purified juyce of Lemmons, and for ten daies cover them in dung, and grind the washed mixture with the white of an Egg upon a Porphyr stone, and make it of what sashion you please, dry it, and set it into a Ring you like. The same.

To make Cameum Stones or the Sardonyx.

Take white Sea Cockles finely poudred, as much as you please, put them into juyce of Lemmons, and filter them five or fix times through a Wollen Cloath called a Filter, strain it that the Liquor may swim three or four fingers above it, and leave it forten dayes in a veffel well covered. Then pour forth the juyce gently, and wash what is left in the bottome with Fountain water; then grind it excellently well upon a Porphyr stone, with whites of Eggs first diligently beaten; But when the matter is Liquid as you would have it, and fit to receive impressions, take hollow frames and smeer the inside of them with sweet Oyl of Almonds, and in those patterns forme the matter, as if it were Wax. But before you take it out of the formes, the forms must be carefully clapt together, especially on that part where the figure must be made upon the plain side: Wherefore when the Impression is made, it must be taken forth with the point of a Knife, and laid upon a Paper in the Sun untill it be dryed; But when you would joyn it with a black Crystal, or to a Cornelian, or to fome other stone, take a grain of Mastick, fasten the grain upon a Knife or Wodden Pin, and put it to the fire : and when you fee the Gum begin to drop, you must have the small Picture and the little stone hot on that side they are to be joynod, by that Mastick now melting, for being cold, they can never be rightly joyned. And if you would have the said matter Dyed with any colour, when you have taken it forth of the juyce of Lemmons, you may mingle any colour with it tempered and ground with the white of an Egge, but the colour must be very fine, otherwise the matter will neither be solid nor fit to receive an impression, but he that knows well how to do this by practice, may counterfeit very rare things, not only in Carmenian and other small Stones for Rines, but also in all other kind of Imagery, as well convex as concave. Rings, but also in all other kind of Imagry, as well convex as concave. A-

By what Art Jewels are Engraven,

Jewels are Engraven and pierced through by a wonderfull Art. The Art is this: A great Wodden Wheel is compassed about with a Cord, and with the same Cord again about a little Wheel, which is above the great Wheel, as you

bout. Cardan.

TEXT

ADDE:

TAPP

2 物社

DOC to 2012

Tit.

CEN A

THE PARTY OF THE P

日日日

N.C

200

000 100

#

POU SE

fee them here described upon one side. Wherefore so great a part of A. B. C. which is A. B. as great as D. E. F. is wholy carryed about, the small Wheel G. isturned. Wherefore as often as A. B. is contained in A. B. C. to often in one turning of the greater Wheel, which you may call H. the small Wheel D. E. F. will be turned about. Wherefore what proportion of magnitude there is wherein H. is wheel'd about, or C of the Axeltree to the circuit of G, such will be the proportion of the number of revolutions of G. to the revolutions of H. Therefore G. will be turned about with most violent force, because it turns in a very short time: Wherefore the Axeltree G. K. will penetrate, and break, and diminish Jewels; For that purpose Teeth being made upon G. which shall carry about the Axis of the other Wheel taking hold of the Teeth of it: and the greater the Wheel is, the swifter it will be turned a. B



# Of the Secrets of Jewels unfit for to be Engraved. Chap. 8.

To make a Diamond of a Sapbyr. You may convert a Saphyr of a feeble colour into a Diamond, if you cover it in a heap of filings of Iron, and fet it in a Crucible fo long in the fire, untill it be red hor; when it is come to perfection, and very much like a Diamond, then take it forth, polish it, and let it handsomely into a Ring. I had this of a Goldsmith. Miz.

# Of the Secrets of Stones lest precions. Chap. 9.

We break a stone as thick as ones hand only with the fist, which we cannot break with the Hammer. You must do it thus: The stone is laid out upon a plain Board, but better upon a plain Stone, one end must stand alone, that it may lye alone without any force used to it, then it is stricken with ones fift listed up high, with that stroke it strikes upon the plain board, and breaks into many pieces. But if your fift strike fooner or later, then you touch the extreame Table of the stone, your blow is lost, and the stone breaks not. So I have broken Tiles with an easie blow, for when the end hits upon the Table, by the force of the blow, the weight Joyns with the stroke, and it is all one as if it were hit with the vehement force of a Hammer. Let the plain be A. E. the flone raised upon it C. D. and let this be forced so violently upon A. E. that the Ayr which is in the middle right under E. cannot flip away : for all motion needs time, fince therefore it flips not away it must needs break the stone; because two bodies cannot one penetrate the other, but that which is folid must be divided. Wherefore this is A manifest, that the broader the stone is, and the more equal their plain superficies is, and the higher we raife the stone, and the sharper we strike, the easier will the stone break; I have feen some set it upon a Rope and break it. Cardan.

All stones will be easily made lost, if you let them lye all night in the hot bloud of an Ox, and Weathers sat, and strong Vinegar. Mizald.

Olaus Mognus reports, that nothing will looner break stones than Hogs greafeset on fire; which is very likely, because it is moist fat mingled with Salt, and therefore the flame lasts long and sharp.

A way to make a stone that being wet with spittle shall slame. Take Quicklime, purest Saltpeter, Tutie of Alexandria unprepared, Calamira, of each one part, live Brimstone, Camphir of each two parts; reduce them all into the finest pouder, and sist them; then bind up this pouder well in a new linnen Cloath, and put it into a Crucible, then fet another Crucible upon it, and with Wyer of 1ron and Luium Sapientie fasten it well, that it may have no vent, sofet it in the Sun to dry. Then fet the Crucibles in a Brick-Kiln, or Potters Furnace, untill the matavon alliv at intiform A i

Book

西

000 did

啊

Of

200 日日

The

从

CCER

Total

tic!

以所有如

MA

出出北

W21 hor

the

日月日

lo

the

ter be burnt; then take it out, and you shall find your matter like the colour of Brick and as it should be; This made wet with a drop of water or Spittle, and Brimstone presently put to it, will flame, and you may blow it out again. Albert.

It consists of Quicklime three pound, Greek Pitch, three ounces, an ounce of Loadstone : pouder them, and bake them in an Earthen Crucible in a Brick-Kiln, then bury it in Oyl of Bayes fifteen dayes, and after that keep it dry. Cardan. Otherwife.

Take Quick-Brimstone, Saltpeter purged, of each a like quantity, Camphyr twice as much, add them to new Lime, and pouder them all in a Mortar, fo fine that they flye into the Ayr, bind them all close in a Linnen Cloath, and put them into an Earthen Crucible, well Luted with Clay; dry it in the hot Sun, fet it into a Potters Furnace, and when the Earthen veffel is baked, wherein the greatest care is to be had, they grow as hard together as a stone. Take it forth for your ule. The Same.

To take forth a Toadstone. Some take a stone out of a Toad, which the French Men call Crapandina, after this manner: A Toad is forced into any hole with a red Cloath, and exposed against the heat of the Sun, when it is most violent hot, and there he is burnt follong, and tormented with thirst, untill he be constrained to vomit up the burden of his head at his mouth; and this must be received by a vessel underneath at a middle hole of the Cave, or taken away otherwise, and that quickly, that he suck it not in again; fome obtain their purpole fomething a fafer way and more eafily: by putting a Toad into an Earthen Pot that hath many holes bored in it, and fetting that Pot in an Ant-Hill, for the Ants to eat him up; for when they have eaten his flesh, the stone with the bones is left behind, as I and many others have often tryed. Mizald.

To try a true Tonditone. The Crapandine or Toadstone, we speak of before, you shall prove to be a true one, if the Toad lift himself so up against it, when it is shew'd or held to him, as if he would come at it, and leap to catch it away : he doth fo much eavy that Man should have that stone. Mizaldus had this from the report of one of the Kings Physicians, who affirmed to bim that be fam it.

How to make divers Marble Forme You shall thus make Images and Statues of Marble: boyl the tops and the bark of the Elm and Poplar tree, and whilst it is scalding hot, put in pure Quicklime, untill it be like to Curds of Milk; then add the whitest Marble poudred and sisted, and cast this into Forms, and dry them in the fire: thus you may make very rare veffels with imall coft. Cardan.

To cut Crystal.

Hard Cryftal by this Art may parted be, Get a fit Plate of Lead, and I tell thee, Two Pins to this on both fides must be fast, Which are wont commonly the Lead to wast, Ith' middle, for the Lead doth cut alone, And to cut besides the Plate there is none These are the outward keepers of the Lead, For to direct it right the course to tread. Nor can soft Lead cut that which is so hard Unless some things be added ne'r debard, As pieces of the Furnace, that may grate And flick close to the Leaden tender Plate. And pieces of Bricks likewise can do it, If whilft you work you cast water to it: And if Goats Bloud the Crystal hard doth first Temper, it works a Diamend, to cut the worst.

Arnoldus de villa nova.

mi

oi di

u Att-C FIL

180 1,51

itimi,

How the River Pebbles are made. Stones are worn by the running of the water, and so become round, Scaliger.

Glew for to joyn Stones. Take Vitriol half a pound, Gals beaten two ounces, sharpest Vinegar one meafure, put them to the fire, untill the Vitriol be diffolved, then add filings of Iron one measure, Writers Sand a third part : mingle them well, and with this joyn the chinks of Stones; when this is done, take liquid Vernish, Linfeed Oyl, of each one part, mingle them at the fire, and dawb that outwardly on the joyning. Out of a written Book.

A way to hide things in folid bodies. Of the Fragments of the Onyx, white Lead, Egg-shels, and Wax, a Glew is made, which will hide all cracks and chinks in Marble Wals, two whites of Eggs, and other white things may be added, Gyp, and changed according to the Subject, because of these some are whiter, and some not so white; the same reason serves for Flint-stones, Woods, and Metals. Cardan.

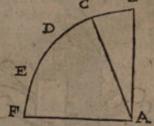
### BOOK, XIII.

The efficient canses of diverse works are, God, Nature, Art; concerning Divine and Naturall Operations, I have Treated in the Precedent Books: Now I proceed to things Artificial, which by the diligent dexterity of the hand, and cunning Industry of Men, are brought to pass; as Houses, Fountains, Cloath, and divers kinds of Vestments, and other things, the Secrets whereof I thought to defer untill now.

Of the Secrets of Houses. Chap. 1.

Buildings that may heat the Ayr much. T is manifest that Houses may be built, which even in Winter time will not a I little hear the Ayr : but these Houses must not be Erected upright toward the

center of the Earth, but that they may perpendicularly receive the Winter Sun; To give you an example, Let the House be in A. upon the plain A. F. the perpendicular from our zenith to the center of the Earth A. B. which differs from the Equinoctiall circle XLIV. parts and a half; Wherefore it will be from the Winter Equinoctial LXVIIX. parts, wherefore let B. C. F. be a quadrant, and let B. C. be XXII. parts, of which B. F. is LXXXX. parts, wherefore the point C. will be diffant LXXXX. parts from the Winter Tropick; therefore when the Sun is there, a



plain or hollow Cylinder superficies being raised A. C. will receive the Sun Beams at Noon, percendicular, make the Arc C. E. of XLVII. parts, and according to the declination of the Sun every day describe the parts, and let the pile A. C. be turned backwards, and so it shall all the year receive the Sun Beams perpendicular, that Pothearbs and fruits may be had before their time, and the Houle be made a pleafant place to dwell in. Cardan.

How Chambers may be made very rare After the custome of the Carthagenians, let the Wals be dawbed with Pitch, against the injuries of the Sea, Winds, and Weather; It is good counsel not to be neglected, though it be Pling's. But there are better Pargettings which may be numbred amongst the delights of Chambers. And with small cost they are made most pleafant, being of long continuance, and like Marble it self; thus: Work the whiteit Lime flakt in water; but beat the froth of it, which is fitteft to make the Pargetting, in a Marble Mortar a long time, temper and work it, that no Wheyish water be left, then is it most fit; make a Ruff-Cast, whilst it is fresh, and with Plaining-Tools strike it over and beat it, untill it lye thick; if it chap, amend it with handfuls of Broom, or Marsh-Mallows, for so it is well known that the chaps will be mended;

Boos

出榜

05.

AB

1200

P

the

poi noi int

日日 日 日 日 日 日

mel

田

の年記

ty

記の品

that no crack shall remain at all, when the crust is dry and thickned, melt Wax and Mastick of each a like quantity, adding a little Oyl thereto, and with that, and live coles in a Chafing dish, heat it and spread it, untill the Wall drink in all the Un-guent, and it will shine like a Glass; and be whiter than Marble, and it is chance by heat of the Dog dayes to lay on this Plaister, then cut old Ropes very small, and mingle with the Lime, for that will free it from cracks; and if you pleafe to have any Images or Carvings, either falling in or flicking forth, made upon the Wall, you shall fuddenly performe that with Seals and Prints of Gyp; indeed the matter made with Wax, thickned with white Lead, or Quicklime, dawbed on with the forelaid Unguent, will keep the Wall comely and entire for forne ages. The fame.

If you would Plaister your House, take the most Chalky Earth, or red Earth, and pour into it Oyl Lees, put in straw, let it stand sour dayes to settle, when it is well purified, cut it with a Spade, and dawb it on, so will it not rub off upon your Cloaths, nor will Mice make holes in it, nor any Grafs grow upon it, nor will the

Plaistring crack. M. Cato.

How to make Floors. When you make a Floor, lay the ground not by a Rule, but lightly beaten, and pare it, after that sprinkle it well with Lees of Oyl, and let it drink them in, then break the clods well, and level it with a Roler, or a Platter, and beat it; then again sprinkle on Lees of Oyl; when they are dry, neither Mouse nor Ant will breed there, nor will it grow dirty, nor will Grafs spring upon it : Chalk will make it very folid. Cardan. from Care.

Another. Make a Corn Floor thus : beat the Earth small, sprinkle on Lees of Oyl well, that it may drink in very much, break the Earth and level it with a Roler, or a Rammer : when it is levelled, neither Pifmires will trouble you, and when it Rains, it will not be dirty. Cato.



A Chimney that will never Imoke.

The winds beat back the smoke, and the narrownels of the Chimney will not let it come forth, or if it be narrow at the bottome it will not receive it, the winds are the chief cause. For the smoke alwayes rifeth higher within, because it is light, when it rifeth against the wind, and chiefly when there is any quantity of green Wood in the Chimncy, the imoke being driven back; that Chimney that bath holes of four fides, is freed from all winds: for there is help every way as I found out by reafon. On the four parts, East, West, North, and South, place two hollow earthen Pipes, one oppofite to the other, that one may carry upwards, and the other downwards; for it is impossible that eight winds, whereof four fhould blow upwards, and four downwards, can blow from the four principal quarters of the Heavens. And therefore the Imoke cannot be forced back; and that also is found perfect by experiment. But the widness at the bottome is no small help, fometimes the Pipes that are floping are faleft, but

the fafest of all is that, which is compassed with a Case, and beneath is not fastned to the House. Cardan.

To make a Chamber feem green.

Take a green Glass, transparent Lamp, that the beams passing through it, may receive the colour of the Medium; and (that which is of much concernment herein) mingle Verdigreafe with the Oyl, or with any liquid matter you burn in the Lamp, grind them well, that the Oyl may be green, and make your Wicks of Linnen, of Book XIII. Secrets of Gardens and Gardning. 25

the same colour, or of Cotton smeered with the same, and burn this in that Lamp the light will make all seem green that it sals upon, even the saces of the beholders. The same.

To make the Chamber and all other things there to feem black.

Win

ad

TOKE E

Vact

th, or

TYLISE

京な

Cir

nay

nt:

m.

220

digit.

antini.

each

Mingle Inkor Sout with the Oyl, or some such thing, but cuttle Ink is best, for put into a Lamp, when it burns it makes a black light. So Anaxilans made those that stood by like black Moors with it. See more of this before, Book the third.

### Of the Secrets of Gardens. Chap. 2.

That a Garden may be green and flourishing.

A Garden will flourish, if you beat claver Grass and cast it into the water and sprinkle it therewith, or water the Furrows with Fenegric bruised in water, or lay an Asses seul in the middle of the Garden. Vindanionim.

To make a quick-Hedg.

At a fit time gather the ripe Seeds of the greater Bramble called Caminum, and of the white Thorn, add to these the Seeds of brank Urline, and with Teare Meal with water infuse them all, untill they be thick as Honey : and with that mixture wet old worn Bucket Cords, or Sea Ropes, or any others that are decayed and worn, and rorten, and lay them fo, that between their threads and hayres, the Seed received may be preferved, unto the beginning of the Spring. At that time, where you will make your Hedg, make two Furrows, two or three foot one from the other, about a foot and half deep : and lay in the forefaid Ropes with the Seeds thrust into them, and call light Earth upon them, and if there be need, water them now and then; thus within one Moneth or there abouts, the tender Thorn will fpring forth and grow; you must help it : and in the void spaces of the Furrows you must plant together Thorn Bushes, that will be a most strong Fence for a Garden or Field, and a most fafe Fence against outward injuries. Others teach us to raise up an Ofier Hedg in the space between the Trenches, upon which the Thorns in the Trenches growing up, may rest themselves to strengthen them before they have any strength. Others raile a Quickfet Hedg thus. They cut Thorn Bushes that are of some thickness into pieces, and they carefully lay them into the Pits digged about a hand breadth in height, and they daily nourish and refresh them, with digging about them and watring them, if the time require it, untill they bud forth, and they begin to have Leaves, and thus they make a strong, safe, and long lasting Hedg. Democritus, Columella, and Diophanes.

If you inclose many seeds of divers kinds in Wax, or any tenacious matter, and draw it forth at length, and lay it in ground that is well dunged and manured, a wonderfull Hedg will spring forth of that heap. This was the experiment of a Kings Gardner. Mizaldus.

A water-Pot to water Gardens.

Amongst Vessels none is more admirable, and common than a water-Pot, as big as an Amphora, like to a Wine Flagon; It is with a small neck, and with holes at the bottome, like a Sive, the uppermost part hath only a small mouth. It is made of Clay by the Potters, you may make it also of any other matter; when it is empty, the mouth above being open, it is dipt into the water, and it is filled to a certain proportion; then stopping it with your Thumb, you draw it from it, and hold it on again, and so water the Garden with it, and when you will stay it from running, stop it with your Thumb. Cardan.

A Secret for Gardens that want Rain.

If a Garden want a water Pit, or Fountain, or Fish-Pond, dig your Garden three or four foot deep, like a place to set tomething in; for so will the manuring not care for drought. Wherein observe this also, that what Plant is not helped by the moyfure, you must divide that: and in Winter you must set it in ground manured toward the South, but in Summer toward the North. Mizald.

bok X

ES.

other

Hita

Th

西西

6000

STA

final

your mill

kara tina

a C

the the

野島可能者をある

You shall find what Land is good for a Garden, if it be washed in water and dissolved and leaves much Mudtherein. If a watry matter hath the upper hand, you mey be sure it is unfit and unstruitfull. It you take it into your hand between your singers, and find it to be very clammy and tenacious like to Wax, be certain it is of no worth; but before you must pick the Stones out of your Garden ground; also it must not be full of chaps, least the Sun penetrating, burn the roots of your Plants. But that Earth is temperately struitfull, which is neither too wet nor too dry: Add to these things. That ground which being newly Dug, Birds come unto, especially Crows, following the Digger; It the ground be bad, some say it may be helped, if upon barren ground fat Soyl is spread, or upon lean dry Earth, moyst and struitfull Earth.

At what time foever you please to dung your Garden or Field, you must take great care that the Wind may blow from the Western Equinoctial, and the Moon must be decreasing and dry. For by this observation the increase is wonderfully augmented. Pliny.

When your Garden is to be Sowed. I am not ignorant that some lay a Garden or Fields is not to be Sowed but when the Rain is faln upon it to water it. And if Rain fals seasonably I deny it not. But as it offices happens, the Rain fals late, though the Garden or Field be dry, the Seed may alwayes be fown, as Columello faith. And in some Provinces where the temper of the Climate is fo, they observe this Rule. For what is cast into dry ground lyeth uncorrupt as if it were in the houle : And when Rain fals, what was fown many dayes comes forth in one day; but it is in the mean time in danger of Birds and Pilmires, unless before it be fown care be taken by fuch helps as I shall shew hereafter. However it be, be fure that the Garden or Field that must be Sowed in the Spring, be digged about the end of Autumne, before the Frolt comes. And the ground that must be sowed with Por-Herbs in Autumne, or with Plants, must be turned up at the beginning of Summer; that either by the Winter colds, or Summer Suns (Hpeak of great Gardens.) the Clods may be diffolved. Also to kill the roots of Weeds and ill Herbs; And when the time of Sowing comes, which is proper to every Countrey, the Garden must be Weeded, and all such things puld up by the roots, and then it must be Dunged; When this is done, it must be made into severall Banks and Beds, which must be so ordered, that the Weeders hands may reach half over the breadth of them eafily, leaft whilft the Gardner goes to pull up upprofitable Weeds, he tread in the mean while upon the Seeds: But the greatest care is when you Sow your Seeds, that the feafon be calm, and clear weather. For when the Heavens are propirious, in moyft places the Seeds do fuddenly fpring forth where the Sun shines: and Age doth somewhat help them; And therefore heed must be taken that the Seeds be not old, burnt, mingled, lean, decayed, or adulterated: And when you cast them forth, avoid very cold Northern west er. For at fuch times it is apparent that the Earth is shut up and child, and will not willingly receive the Seed and fofter it, but in clear and temperate hot weather it is otherwife; But if there be any fear that they should be burnt by heat or cold, or Frost, the Seeds must be covered with Straw; and Rods must be laid across, and over the Rods, Reeds, or Vine branches. There are Greeks that write of Husbandry, who give countel to fow when the Moon increaleth, that is from the first quarter untill the full, whilst the Moon is under the earth. Others thinking of a more lase way, do not approve of Sowing lo foon; wherefore they divide the Moon into two, or three, or four times; labouring by this means to avoid the uncertainty of the future time : and remembring the ruftick faying of Columella, Do not fear to fow; Wherefore he that would fow at a certain time, must take care to see that the Seeds be good, and fit for the ground, the dung good, and water near; For good Seeds will bring forth good planters, good Earth, in which they are fowed, will folt them well, and make them fruitfull, the dung will make the Earth more full of Juyce, and more loofe, that the

XIII

1903

You

200

12

opti:

dec.

fish

When .

19, the

0W1

Best

Ace

部

mp

a mus

dip

For

heed

FOE I

day.

n frit

230

政學

eini ini

that

fila

200

1

ec

Rain may enter and disperse it fell to the roots, and the water as it were from a brest, will nourish and foster all. Mizald.

Arare Secret to keep Seed in the ground without any hurr.

If Seeds that are to be Sowed be moyltned a little before, in the Juyce of Houlleek, they shall not only be preserved fate from Birds, Ants, field-Mice, and other Thieves in Gardens, but what springs from them shall be much better.

A Remedy against all mischiefs and hursfull things in Gardens.

The Greeks report that Seeds will be preserved from all evils and Garden Monflers, if you lay in the Garden, the Skull of an Ass, but it must not be of a young one that never knew Venery, or if you set it up upon a Pole in the middle of the Garden: For whatever is in view of it, it preserves and makes it truitfull.

To preferve Gardens.

If a Vine be twifted and fet over against Pompions, it will not only hinder Thieves from coming in, but keeps all mischief from Gardens. Diosevides.

A fit time to water the Garden, and what water it must be.

Watring which is done in Summer, and chiefly about the rifing of the Dog Star, is wont to profit and to be much approved, morning and evening, least the water should grow too hot by the Sun, and burn the roots. But the watring then also must not be too much, because the roots will be over soked and drink too much: and you must not draw forth your water from wels that are too deep, least the cold water that is too raw, hurt the roots. But if you can get no other water, you must draw it up some houres before, and set it in the Ayr that it may be warm. You shall know how to water them by the Age of the Plants. For young Plants are not so thirsty, and old Plants desire much watring: but it must be done gently by a water-Pot, that the roots may drink in equally and not be drowned with it: for so they preserve their vegetative life which would vanish by exhalations of the Earth. Wherefore Plants must not generally be glutted, but as they are thirsty, so must water be showred on them, as nourishing them from a brest, and not drowning them. Mizaldus.

The tinkling and tinging of Bels, (be it far from superstition) or the loud sounds of Canon, that make a huge noise far and wide, are a most present remedy for noise in the Clouds, against Thunder, Lightning, and cruel Hail, that is threatned by them. For by the force of the sound moving the Ayr, the exhalations are driven upwards, and of all sides to the third Region. Also whosoever are desended by a skin of a River Horse called Hippotamus, are never touched by the Thunder. Also no Tempests can hurt them, as Archibius writ unto Antiochus King of Syria, if a Hedg-Toad be shut up close in a new Earthen Pot, and set under ground in the middle of a Garden or Field; also many Plant about the circumsterence of it the Bay trees very thick. Others hang up Eagles Feathers, or the skin of a Sea Cals in the middle of the Garden, or else at the sour corners; An Onyon doth not by its small body escape the force of Thunder, but hath by nature a force against the stroke of it. Mizald.

Some fay that a Thunder-Bolt hung at the Door, will keep the housefale from Thunder. Guliel, Gratar.

If you would prevent Blaffings and Mildews, and Smoot.

If you would prevent Blaffings and Mildews, burn much Straw if you have it, or elfe Herbs pluckt up in Gardens, Shrubs and Brambles in many places; especially on that side the wind blows; for Diophanes saith, that the mischief that is near is so turned away. Moreover the smoke of three burnt Crabs, with Ox or Goats dung, or Chaff, is a most sudden Remedy, as Applejus writes. See more Book the Ninth.

A Prognostick of all Seeds, whether they will be fraitfull or barren.

What concerns the fruitfullness or barrenness of all Seeds, either fowed or to be fowed;

Book .

世四

Sain A

be got

y02

四四四

mi

mit mit

post fire

在 如 放下 路

agma

287

bez

西西

100

fowed, the way to know is this. Twenty or thirty dayes before the rifing of the Dogftar, you shall carefully sow in some place well manured of every true Seed that is
fresh, for to make a proof, a little in spaces well divided and marked: and if the
Ayr be very hot, you shall water it in time, that what is cast into dry ground may
spring the better, and before the cosmical rising of the said Star, it may come forth
seasonably; when this is done; you shall observe diligently the Dog dayes being over, which of the said Seeds came forth safe, lively, and without hurt, and so continued: and you may say certainly that the same Seed will grow fruitfully and plentifully that year: but the other that came not forth, or else sent out a saint languishing and decaying Plant, you may perswade your self that it will be of no use, and
barren for that year. For it is as certain as can be, that the mad and burning Dogstar, by his extreame heat doth hurt some Seeds, and others not at all; From this
you may setch the Judgment of hurt or benefit for the sturre year for all kind of
Seed, for the Star that is dry and hot by nature, will foreshew and declare what is
for your use safe and good, and what shall be of no profit but hurtfull to you.

Mizalds, from Zorosser. And this is true by the experience of the Ægyptians.

Against Garden Caterpillars.

If you smoke your Gardens with Bats dung, and stalks of Garlick, taking off the heads, that the smoke may flye all over the ground, it will kill the Caterpillars.

Bury under ground a Sheeps Paunch, that is fresh and full of dung, and unwasht, but not very deep, only in the superficies, you shall find it full of these Herb-eaters, and having taken them there, destroy them. Diophanes.

Fleas will not hurt Plants, if for a natural meanes you fowe Rocket Seed amongst the rest in many places.

Against Hail that is coming.

If you would hinder Hail that is ready to fall down, carry about the Garden or Field a Sea Calfs skin, or of an Hyena, or Crocodile, and in the middle hang it up as is written by Philostratus.

Some who observe Hail coming on, bring a huge Looking-Glass and observe the largness of the Cloud, and by that Remedy, whether objected against, or despited by it, or it is displeaseased with it; or whether being doubled it gives way to the other, they suddenly turn it off, and remove it. Many more are affected with this superstition, that they compass round all the Garden with Keys of many Doors hanging upon a Gord, and they suppose the Hail will pass away with the Cloud to some other place, and do no harm there. Some there are that walk through a Field or Garden with a Marsh Snaile in their hands: and returning as they came in, they set the Snail in the same posture upon the ground, and they cast clods upon his crooked back, that he cannot turn, but may lye on his back, and lye with his sace upwards toward the Cloud swelling with Hail. Some command this to be done at six a Clock morning and evening. There were some of the Ancients, who for that purpose composed about the Garden or Field, with a white Vine, or else they stuck up an Owle with his wings spread abroad in the middle of the Field. Mizald. from Columbia, Philostrates, and many more of the Ancients.

# Of the Secrets of Garments. Chap. 3.

Take common Salt very well beaten, black Sope of each what is sufficient; mingle them well, and smeer over the spots therewith; then when they are dry; first wash them with a Lixivium, and after that with warm water, and they will be gone. Alexius.

To take off spots from Silks and other Garments.
Burn the forefeet of a Weather to ashes, and make pouder of them, and strew it upon

THE

e de la companion de la compan

med

14

if the

古山田

ooked

LIII S

-1002

成型の

the clothes, first wet in water, after that when they are dried in the Sun, wet them again with water, and strew pouder upon them as before; Having done this over again oft times, wash off the pouder very well with water, and doubtless the spots will be gone. The same.

A Sope to take all forth of spots out of Clother.

Take half a Buls Gall, one or two whites of Eggs, and mingle them well, adding burnt Allum one pound, pouder of Orris fix ounces, a little beaten Salt, and mix them, this being done, add as much white Sope, cut or feraped in, so much as may serve to make Balls, dry them in the shade, for the Sun hurts them; If you will fell them, make them of the same weight; when you would take out spots, first moysten the Cloath with cold water, and then rub it well with the soresaid Sope, then wash it off with cold water; If the spots yet appear, dry the Cloath, and then wash them as

you did before, and it takes them clean away. The fame.

Take white Venice Sope one pound, yelks of Eggs fix, beaten Salt half a spoonfull, juyce of Beets what is needfull; Mingle them and make a Mals for Balls, and dry them in the shade. When you will use them, first wet the Cloath with water, then rub it with the said Sope, wash it again off with water, and it is done. The same.

Another.

Take white Sope rasped one pound; Goats Gall; or Ox Gall, Alum Catinum, of each one ounce, yelks of Eggs three, a few Ashes; mingle them all well in a Mortar; make Balls sufe them as before. The same.

Another.

Take the Gall of an old Ox, what is sufficient, Fenegrick finely poudred one pound, white Sope one pound and half, strong Lee three measures, mix and boyl them at the fire untill half be consumed, and keep it to take forth spots. The same.

Take Roch Alum, Quick-lime of each one pound, Argal fix ounces, white Sope feraped three pound, Spring water four pound; mingle them, and boyl them awhile at the fire, then strain it and keep it for your use. When you will use it, wash the fat spots on both sides, with this liquor being hot, then wash it out with fair water; Then wash the spots twice or thrice with Sope and Water, and they must vanish. The same.

Take River Water two measures, one Ox Gall, burnt Alum four ounces, Argal burnt three ounces, Camphyr two scruples, mix and boyl them untill half be confumed, then strain it, and wash the spots twice or thrice therewith and it takes them away. The same.

To take spots from Purple colour be it in Wool or Silk, without harring the colour.

Take juyce of Saponaria as much as you please, and put it upon the spots, and let it lye so two or three hours, then wash it carefully out with hot water. If the spot be not gone, do it again; If the Cloath be not Dyed in Grain, add alittle Sope to the said juyce, and mix it well, and wash it again, and it will take out the spots. The same.

First wet the spots with three times distilled Aqua vita, then lay on the white of an Egg, and dry it at the Sun, wash it off well with cold water. It takes the spots away at twice doing. The same.

Another.

Take Alum-water what is needfull, and wash out the spots with it very well, rubing the Cloath, then wash it with cold water, and it takes them off, and chiefly if you do it twice. The same.

Take Lee what you think fit, put it into some clean Earthen Pot to the fire, untill they begin to boyl, then add Alum beaten, Argal in pouder, white Sope rasped, of

8000

いると

be 11

The

船

便由

dti 1

Wit.

山山

lus.

量

TOL BOX

cid

ktt

tik dy.

PAN TO THE PAN TO COLUMN

W

of

TO

日台

W

越越越

each three ounces, Ox Gall two, mix and boyl them to the confumption of a third or fourth part, and make water, wherewith spots washed twice or thrice and dryed again, and laftly washed with cold water will be taken off. The same,

For spots of Cloath. Take Beech Ashes what is need, with cold water make a Lee, add thereto a few Lees of Wine, and a little burnt Lome out of the Furnace, make a Lee to wash spots out of Cloaths. Out of a Germane Book.

A way to make a water that shall restore colour to a spotted Linnen Cloath.

You may prepare it thus. Take Argal four ounces, little Basons of water two, let them boyl untill a fourth part be confumed, then add white Sope rasped, and Alum each one ounce, leave it to two dayes, then ute it as you were taught before. Out of a Germane Book.

Totake Wine out of any Cloath. Take Lee made of Beech Ashes, and white Argal of each what is sufficient, fleep the Cloath in that all night; laftly wash it out and leave it in the Sun to dry. The Same.

The way to take all spots out of Crimson Silk. Make a Lee of Vine Ashes, into two small Basons of this Lee cast in Argal half an ounce, and leave it awhile, afterward strain it through a Cloath, and add Alum and hard Sope of each two drams, foft Sope half a dram, of common Salt a quarter of an ounce, as much of falt Armoniac, juyce of Celendine half as much, Calves fat a quarter of an ounce: mix all these and strain them through a Linnen Cloath. And if need be you must take the sheerings of Skarlet Cloath 3 and add Brasil Wood out small to it; boyl them a little at the fire, and strain them again through a Linnin Cloath, so you have a red water will take forth all the spots.

Take as much Vine Ashes as you please, Argal half an ounce, Roch Alum one dram, Venice Sope one dram, fost Sope half a dram, common Salt two drams, falt Armoniac two drams, juyce of Celendine one dram, Calfs Gall two drams, mix and strain them all through a Linnen Cloath; when you use it, take shorn Wool of the same colour with the Velvet, and dip it in the former liquor and rub the spots with it. Out of a Germane Book.

How to take Ink foots out of Cleath. First wash the Cloath in the sharpest Vinegar, pressing and rubbing it forth well with your hands, and then with water and Sope, and it takes them out. Isabella Cortese.

For spots of Cloath. Take Roch Alum three drams, Argal one pound, white Sope one ounce, Fountain water, pouder them, and boyl them gently at the fire in a Glazed vessel, then filter them, and wash Cloaths therein. Rosellus.

That Cloath may recover its former colour.

colour. The fame.

Take Quick-lime two ounces, Vine Askes one ounce, Fountain water two ounces, mix them. Rofcellas. To blot out spots of Ink or Wine from Linnen or Wollen.

Take juyce of Lemmons, or of Oranges or Citrons what you pleafe, wet the spots therewith, and dry them often, then wash them with cold water, and it blots them out; If the spots be from link, wash them forth with white Sope and Vinegar. Alexim.

To restore Cleath to its former colour that is decayed by spots. Take Argal calcined one ounce, strong white Wine Vinegar one measure, mingle them and fet them so long to the fire, untill they begin to boyl, then take it from the fire, and in that water wet the Cloath often by degrees, and it will gain its former

A water to take spots from any Cloath what colour soever they be Dyed. Take Ox Galstwo, Alum, red Argal of each two scruples, white Tartan four ounces, Campayr one scruple, common water two measures, pouder what is to be poudered, XIII

Marie a

TE TO

Alum Quinti Calvin

Auto.

one or

s. 66

& ma

n ilyani

北地田

in well

問い

MI

poudered, mix and boyl them untill they ceafe to froth, then add Agmn vita thrice distilled four ounces, keep it for use. If the Cloath be Purple, take a piece of Cloath like that Cloath, and wet it in the water aforesaid, and rub the spots with it very well twice or thrice, then wash them forth with cold water. But if the Cloath be any other colour, take alwayes a piece of the same colour, and do as I said. The same.

Take forefoot bones of the feet of a Weather, as many as you will, burn them well in a Potter or Brickmakers Furnace, and beat them into very fine rouder, and first heating it, strew it upon the spots in the Sun untill it grow black, and when you see that, take that away presently, and strew on more, do this so oft untill the pouder will grow black no more, and so the spots will come forth not hutting the colour. The same.

Take Oke Ashes one pound, pour on four measures of water, and let it stands of all night, when you have drawn forth the Lee, put into it two Buls Gals, and one handfull of Beet Leaves dryed, let them boyl together half an hour, untill the Leaves sink to the bottome, let them cool; after that boyl the Wool of the same colour you would Dye your Cloath, in the Lee only till it begin to boyl, and let it stand aside fourteen dayes; so will the Lee draw out the colour of the sheerings of Wool. Then crush forth the Wool, and Dye your Cloath in the Lee, and it will regain its former colour. One of a Germane Book.

How to blot out spots from Woollen Cloub.

Take a Lee made of Beech Ashes, add to it Wine Lees, and burnt Lome of a Bakers Oven, of each a little; Dip the Cloath in these as far as it is spotted, and it will take forth all the spots. Lastly wash it in fair water, and leave it in the Sun to dry. The same.

Take Alum Feeren fix ounces, crude Argal four ounces, Alum two ounces, Camphyr, Dragons bloud, of each half a dram; pouder thefe, and mingle them well in poudring them, add to thefe Buls Gals fix, and finall Bafons of Fountain water as many, mingle them together with the forefaid matter in the Skillet, and fet them to the fire untill a third part be boyled away, strain and press them through a Cloath. But if you have no Gall nor Camphyr, it is no matter, for water will suffice; But you shall fit it for use thus. With a new Linnen Cloath dipt in this water, rub the spots, and do this so often untill they be out. When the spots are gone, wash the Cloath where the spots were in hot water; But if you would blot out spots in white Cloath, take the foresaid water, adding alittle Sope, distill this, and do with the rest as with the former. The same.

That Moths may not touch Garments.

That Moths may not touch Garments, boyl Oyl Lees to half, annoint the bottome of the Cheft with this, and outwardly, also the feet and corners, when it is dry, put in your Cloaths, doing this, no Moths will hart you. M. Cato.

To make black, spots upon white skins, that they may be like Leopards,

Take Lytharge one ounce, Quick-lime two ounces, Water three measures; mingle them, and set them upon a genle fire, untill they only heat, and boyl not, then take them from the fire and stir them, and make a mixture, and make spots with this Tincture, with a Pencil made of Hogs Bristles. Then dry them in the Sun and beat them afterward with a Wand, and it is done. If the spots appear not right, do it again as before, and you shall obtain it. This colour is firme, and colours the skins: if you Dye your Hayr or Beard therewith, they will be comely. Alexing.

Albertus saith, That to be at small charges for Shooes, you may have the best, and almost everlasting, made of the back part of an Ass, where he useth to carry burdens upon: these Shooes will never wear out, for if a Man alwayes walk amongst K k 2 Stones

日本には

Sela

Ship and a should be shoul

100

leis d

Di

can

ctive

Who

Mes

National Roberts and Plant trains other Roberts and a Lee their away

N To

3日白白日日

北京

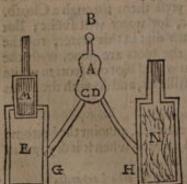
Stones or Thornes they decay not. But with too much age they will grow so hard that it is impossible to pull them on. Cardan.

Of the Secrets of Fountains. Chap. 4.

That Pits in Marshy places may have fresh water.

The fides of the Wels or Pits must be fenced with everlasting work, as when we make an Arch to build Bridges over Rivers. For fastining in Piles, we stop matter about them, beyond the place we draw forth water; So Masons may fasten and lay stones and cement in a dry place, when the waters run all about them. The way to do it is this. First make a very large Pit, suppose the Diameter to be a hundred foot, first having knockt in very long Poles, all the Mud that is in the circumstenece of the Pit, is to be drawn forth with Shovels, or Vessels, and cast on the other side the Piles. So will the Sea be kept of, and the Pit will be defended from the violence of it; when that place, the water being drawn forth is either dry, or almost so, again within this Fort drive in another rowe of Poles exceeding long, which rank of Piles shall be ten foot distance from the former, which must be filled up with the Mud digged forth: the same must be done there, or four times, untill you can draw forth fresh water.

The way to make this Engine is this, as Janelius Turrianus of Cremona, a man of great wit in all things that belong to Engines hath expressed it in the work it self. There must be had a Brass Pot, the upper mouth whereos, out of which the water must be cast is E, at the bottome thereos, there must be two holes C. D, upon which little Boards or Leather must be fastned, as in Bellows, which from the lower part must be listed up toward A. but if they be pressed together, they shut those mouths, and there must be fastned to the Pot by the mouths, C. and D. two Pipes, on the right and left side, and draw forth to E. and F, and set into the vessels in G. and H. The Vessels or Buckets must be empty, and let down into the water, having holes at the bottome K. and M, in the middle over which there must be Boards or Leather sastned as before in the Pot, that may be listed upwards, when the holes are pressed upon, and shut them also exactly. But in the Buckets there must two great Pips or Plates be set M. and N. polished by the Turner, and well Oyld, to fill the Buckets



to a hairs breadth, then with Bars and Rules they must be so fitted, that going up and down, that when M. ascends and the Bucket under it is left empty, N. in its turn may descend, and fill up the Bucket with its Pin, and sorce out the water contained in it. It being thus prepared, when out of E. the great Pin M. is drawn forth, the place E. is left empty in the Bucket, wherefore the Board or Leather over K. riseth up, and the water runs forth to E. untill the Bucket be full by reason of the first motion: In the mean while N. is pressed down, it begins to draw from the bottome by alternat motions by turns, and the Pin M. descends and when the water contained in the space E. cannot

run forth again, M. shutting to a hayr the upper capacity of the Bucket, nor descend back by K. because the Board presset upon the hole, and the more it is forced by the weight and violence from above by the water, the closer it lyeth upon the hole, wherefore the water must needs flye forth at G. for there only is passage for it, and runing up by the Pipe E. the measure of water enters, lifting up the cover into the Pot by the hole C. untill the Pot be full, afterwards when the force ceaseth from E. the Leather sals down, and the Board over C. and the Vessel A. remains sull. But in the mean while, that M. descends to K. N. riseth to the top of the other Bucket, and the Bucket is filled with water by the same reason, and when it descends again, it forceth out the water by H. to D. into the Pot, which being already sull of water, and cannot run back at C. the Board and Leather sticking more close to the hole, the

5

数

dly

tho

82-

N IN

PATE THE PATE THE

the this

NO.

ice

they

shee

S. A. State

M.

ack.

hup,

m

nis

TOX COM

如此

100

nış

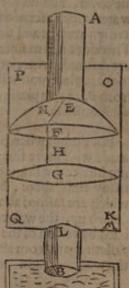
時

はい

more the water from above prefleth upon it by a fecond reason of natural motion, whereby also heavy things move upwards; the water ascending by A. runs forth at B. and thus by alternat motion, and the Pot being alwayes full, from the holes in the bottome, K. and I. as much water will ascend to B. as you please. Cardanus de Subtilitate.

Of the same kind is the Pump of Ships, whereby they Pump out water when the

Ship is indanger, by example whereof Bartholomeus Bambillus made an Instrument, which I saw at Millan, no way inferiour to the Ancients for the Workmanship, B. A. is the Pipe that is hollow within, being made of Wood turned round, faltned in with Bars and Rules, it is larger upon the upper part, than all D. M. and narrower beneath, where it is received in the Veffel C. full of water, that is bored full of holes on the fides, that the water may come in, but no small stones nor Sand, the bottom of the Vessel C. being firme, thus the Pipe may when need is , draw forth pure water out of the Veffel, and draw no stones nor Gravel, which might stop the Pipe. In the place M. where the narrower part is joyned to the broader part, there is a Leather made fast above on the part M. and a thin Plate of Lead goes over that, that when it is elevated on the part 2. by its weight it may fall down again, and cover the Pipe L. exactly, but the Pin to ftop it must be A. E. less than the breadth of the Pipe, put in the upper part where D. is, it stops the hole of the Pipe to a hair, but O. P. must be empty, at the bottome of the Pin three Iron feet must come forth to the fides of the Pipe fastned within, which you must



cover about with Leather, least they should grate upon the Pipe to wear it away, these are like to a three legel Stool : beneath they stand farther off, where F. is than where E is above. It is plain therefore, that all the space by N. is empty; and befides those Rods, there is nothing in it, wherefore the way is open from O. and P. to N. and again from N. to O. and P. for all the space above F. is empty, and there is nothing there contained but the Pin, and the Rods H. At the bottome of these Rods is the circle F. fastned to the ends of them, nor is it all empty, but only in the middle, and where the hole is left, with a Leather upon it, and over that a thin Plate of Lead, to cover it, as I said of M. so that being covered no Ayr can enter, and yet the Leather with the Lead may be lifted up toward N, and uncover the hole. This must be done thus: fasten the Leather about half of it to the circle that contains the Rods, the other half must not fasten to it, and only must exactly cover the other hole when it lyeth close to it. Again from the heads of the Rods three other Rods must proceed right forth, sticking within side to the sides of the Pipe. These a Leather must cover round, to F. the upper part, sticking to it as far as G. exactly to the sides of the Pipe within, that not so much as any Ayr can pass from K. to N. so it will be that H. will feem to be a Bucket turned downwards, for F. is the bottome, and covered all over with Leather, round in form, and it is open and wide at G. This done, so fit A. the Pin, that it may pals up and down, sometimes descending as far as M. on that fide G. of the Bucket turned downwards, and fometimes drawn up again to the place where it is now described to be. All these things being to orderd, let G. lye above M. Q. and begin to be railed, then the Ayr containd in the space H, being rarified, draws up and elevates  $\mathcal{Q}$ , by this meanes the Ayr ascends from L, into the space K, and thereupon the water riseth from B, to L, but when the Pin fals down, by pressing the Ayr and heaviness of the Lead 2. descends presently: Wherefore the water in L. must needs stay there, for opening the covering M. Q. if the Ayr thould descend, that little quantity of Ayr that is in L. above the water, would be troubled, because it can draw no other Ayr from K. by reason of the covering M. Q. but the Ayr that was contained in K. whilst it ascends by G. lifting up the

(4)

20101

Line 3

TOU

Henry

pact!

野

604

alla alla

を

000

WPF

25.00

tich

the

hetre

OUT

古い

tro dit by

and interest with the state of the state of

cover F. it flyes into the space O. and by the hole P. it gets forth, thus by often ascending and descending by G. and the Pin, the place L. is filled with water; After that G. being elevated, and by reason of the first motion that the Ayr in K, may not be diflurbed too much, the covering Q. being elevated, the water enters into the space K. untill it be filled, and with that the space H. allo, which as I said is common with K. because G. is the mouth of the Bucket, that is open, and shut no where; wherefore let it be now full, and the Pin delcends again, the water that is in H. will lift up the cover, and fill the spaces N. and O. and when the Pin is drawn up again, least the water which afcended to O. should fall back to the cover F, hinders it. Which by its own weight and the weight of the water upon it, stops the hole as fals down. Therefore it is manifest that by this Engine the water will always ascend, and nover descend, wherefore when it comes to P. it runs forth at P. the mouth of the Pipe into what place you will, and then with [mall labour you may draw as much water from B. as you please; for the Pipe being full, the Pin moves the easier. Cardanus de Subtilitate.

Pipes to draw forth water. But Pumps whereby Ships are kept dry, and also Wels, and Water Trenches are made with more fingle fashion, the reason B. and C. continuing, that Stones may not hinder the Engine, the Pin hath four pieces of Leather at the bottome, and as many near about, but about two Cubits or fomething more distant from them, which are sastned above, their length is the breadth of a hand: and as they are drawn up, the water enters to avoid vacuity : when they are descended, they are dilated by reason of the forcing of the Ayr, but by reason of the quickness, some water passeth again from above, wherefore not only by drawing, but also by pressing down the water ascends. Card. de Subtilitate.

That water may draw forth it felf.

How water may afcend as much as it descended, whilst it is helped by motion of rarefaction, I shall shew by example. Let a vessel be full of water, let the top be E. the bottome F. in which must be a Pipe, A. B. C. but C. D. must be a streight Line perpendicular to the Horizon, as raifed by a Level : Fill the Pipe A. B. C. with water, and let the water come forth by C. I fay it will draw forth all the water above the Line C. D. but nothing of that which is beneath the Line C. D. but the Pipe will hang full, and the veflel will be full of water as far as C. D. this example flews the truth of it. May be some will say this must be only to draw water, but it is not so, for be it Wine, Oyl, or Milk, the Vessel is filled with it is all one. Wherefore I must give you a reason of this experiment. Since then the water which is above C. D. is to a hair as much that afcends, as that is that is poured forth by C. whether the Pipe be larger in C. then in A. or narrower; because alwayes the Pipe is exactly full,



the water that afcends runs forth by C. but because the water is lighter in the part above C. D. than it is in C. it comes to pals because the water above C. D. defires to descend, that it may be lower than that which is in C. wherefore it preffeth the water and forceth it into the Pipe. But that which is beneath C. D. defireth not to be in C. becaule C. is higher than the place of it, wherefore it will not alcend, but the water that runs forth by C. makes no flay, being yet lower than the water contained in the Veffel; because that attraction is made only by reason of continuity, and the continuity depends upon rarefaction, which can be none

with the water that goeth forth at the mouth of the Pipe C.

Lastly, All this speculation is ended by this Argument, that all water that must draw other water after it, must be contained in a Vessel, otherwise it can make no attraction, but it is helped by the Ayr that comes to it, and that like a continued body, it may come to be equally ballanced, fince there the mouth C. is lower it will come to that, but when it is higher it will not fall down, because that which is right against the lower part as in A, will be forced to ascend to C, which is right against D.

XIII

hate,

in the

C par

1000

With the

ich by

ON THE

W.D.

TWE

ricte

de any

200 24

nim,

307.122

ingines Canci

post E

re lat

TO ES

CONT

W. W.L.

MINES.

DI NO

dott.

ethe

vinil,

ACM34

COSTO

dank

OR I

in the

世の神

dend,

7 27

tenon

Parl.

at mili

IK DE

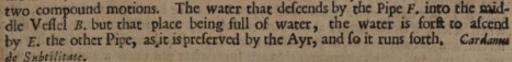
Eyl

But if the water first descend, and then ascend, as in the following Figure from A. to B. and so to E. after that it may come to C. and to D. if D. is not so much distant from the Line B. as C. from A. the place is descended from. But there must be a certain disterence of height in the several places, of A. and D. for the longer the way is, the greater must be the difference, of A. and D. according to the measure of the height. Hence grew the errors of some, who endeavouring to draw waters by a Level, made great loss and expense. In therefore every Mile, it must be a hand breadth higher than D. as in ten Miles ten hands breadth. The evident cause of this is the roundness of the water, which also may be seen in the superficies of Cups. Wherefore though A. be higher than D. by level, yet sometimes it may not be higher than the middle place between A. and D. also it was some force. But these things are almost besides my intention, yet because of the great danger, and frequent errors, I would set it down. Cardan. de Subtilitate.

Herons Engine.

Now I must speak of motion, compound of levity and gravity; for example, take the wonderfull Engine of Heron, which I have often handled; It is thus, A. is a Laverfull of water, under that is a Vessel B. and that is

a Laver full of water, under that is a Vessel B, and that is also full of water joyned to A, that from one to the other the water cannot pais; under the Vessel B. must another Vessel stand, called C and it is empty: the Pipe D. must come from B. to C. and the top of it must come almost to the uppermost Laver; there must be another Pipe F. that must ascend above the highest Laver a pretty deal, and set into the highest Laver must pass through the middle of it, unto the bottome of the middle Vessel, yet it must not be joyned to the bottome at F. whose top is set into the lower Orifice of the Laver, it must end beneath in the very division between the two Vessels, yet so that water may be carried out of the Laver by the mouth above into the Vessel C, then shall we see the water that is in the vessel B. sent forth by the Pipe E, and so continue untill all the water be forth of the Laver, that must be demonstrated how it is done by



Archimedes's Engine to draw water.

There is an Invention of Archimedes called a Screw, which Diodorus Siculus speaks of twice in his Ancient Hiltory, saying that Agypt was drawn dry by help of Archimedes his Engine, which if it be lo, seeing that Archimedes lived in the times of the lecond Punick Warr, I know not how he could of old live in Egypt. Yet howeit is, the Instrument is very noble, and not unworthy fuch an Author. Vitruvini speaks of it at the end of his Book. But Geleaz de Rubins a Citizen and Smith of our City, of whom I shall fpeak underneath. When he thought he had been the first Inventer of what was found out long before, he ran stark mad. I saw him turning about a winding Engine, and afterwards very fhortly he run out of his Wits. The Engine was thus. A piece of Wood A. H. that was folid and ftrair, and equall, and long, and inclined to the superficies of the water, and faltnen



into

Mict

dent more

Seage

to the Grand was the Grand was

to ti

it

知然の

PERBURS SES

into the Channel of the River as much as need is, must hang above the water, with a fingle Pipe of Metal as you fee, like a Screw that must be wound about it : some use very many of them, but I think three is enough, and it must ascend so by degrees, that it may fill up all the spaces, the Pipe hath two Orifices; the lowermost widest, and the uppermost narrower. Let this be called K. wherefore it must be demonstrated, that when the beam is bounded by the ends A. and H. it may be so turnd about, that the motion of the water may turn it. Secondly, When it is turned about, the water will afcend and run forth by K. for the wings that are added to it B. C. D. E. F. G. with spaces between, here one and there another, on severall sides, or where the Pipe and the Beam are joyned; meeting the water-course must needs turn the Engine, for you may make them longer and broader; but the weight A. H. is but small, and is made also sar less, by reason of the inclination, and of the little Boards, set into the Sockets, so that it may be turned about; Also this may be seen by Mils in Rivers, where though the water run very gently, as in the River Poe, and Tieinus by this cunning are Milstones driven about, whereby the Corn is ground; And it is clear that the water afcends from L. to K. for when & is lifted up, the fucceeding part is made the lower; wherefore the water will descend, and when that ascends, the part that succeeds descends; and the same reason shows that the water alwayes tends towards K. and this doth excellent well agree with the experiment, and I have tryed it more than once; when therefore the Axis or Beam is turned about by the received ends where it is thrust in A. and H. untill the Pipe be filled with water, it will run forth at K. upon the bank of the River. Card. de Subtil.

### BOOK, XIV.

### Of the Secrets of Meteors.

Signs before band of fair Weather. Chap. T.

The Moon appearing sharp on the third and fourth day, and clear, fignifies fair weather. Also when she is in the full, if she be clear it is a sign of calme weather, also it she be half sull, and clear, it signifies the same: but if she be somewhat red, it imports Winds; if any part be dark it shews Rain. So the Sun rising clear portends a fair day, and a small cloud appearing before he rise, it will be fair, but when he sets, if clouds gather about him consusedly, we must sear Rain: But if he set sair without any clouds, he promiseth a fair day. But if the Sun come forth without a cloud, and clouds atterwards that are somewhat red draw about him, it will not Rain that night, nor the next day. Clouds that are very red, and divided about the Sun setting, bid us sear no Rain. The Owl singing all night, and the Chough making a noise mildly all day, and many Crows coming together as it were rejoyeing and cawing, signific fair weather. Aratm.

Tokens before band of tempestnous Weather, and what figns there are that

The Moon on the third and fourth day having obscure and dark Horns, signifies Rain. But the circle about being red or siery colourd, shews a Tempest. A full Moon with some black about for shews Rainy weather. But when about a sull Moon two or three borders of black appear, that is a sign of great Tempests, especially the blacker they are. A red Sun rising with some black, is a token of Rain. When the Sun riseth, if about the Beams of it a dark cloud be seen, it signifies Rain. If when the Sun sets it hath a black cloud near on the left side, you must expect Rain suddenly. Thunder and Lightning, on what side they are, they signifie where Tempests will fall. If the Wind proceeds sometimes on the South quarter, and sometimes from the North; And moreover it Birds of the Marshes, and Sea Birds are still washing themselves in the water, it for shews a Tempest. A double Rainbow sheweth Rain. Sparkles slying out of Pots or Brass Kettles shew Rain. A Crow washing his head upon the Shore, or entring into the water, or crying much in the night, signifies Rain. Hens basking often in the dust, and craking, and Crows and

THE

ALT PART

tyde.

はは

DEED!

Tada.

ton 1.

THE IS

N INC

in ha

10000

methe

EWHI

4, and

LEGIZ.

DE.

DE

Mile-

neste ngden

DIE T

- cm

DOE

rguor

100%

WHEN THE PARTY OF THE PARTY OF

in A

Til.

The

and Choughs coming in flocks, and cawing, and Swallows flying about Lakes or Fish-Ponds, or Rivers, and making a noise, shew Rain. Also Flyes biting hard, and Gees crying for meating, and Spiders without any wind falling down, and the flame of Candles appearing black, and flocks of Sheep jumping and sporting, signific a Tempest; Oxen looking toward the South, or licking their hoofs, and mowing and going into their Stals, shew Rain. Likewise when the Wolf is so bold as to come near the Houses, and Dogs scrape up the ground, and the Howlet hoops in the morning, and small Birds flye toward the Sea, they signific Tempests. When Cranes come sooner than ordinary, and make halt, that shews a sudden Tempest, Mice piping signific showrs. Moreover where many signs come together, there is more certainty. But especially observe, the quarters of the Moon both increasing and decreasing, For these change the motion of the Ayr. The same.

The figns of Temposts by the boyling of Sea-water, also what Winter-Thunder shows. Chap. 3.

I have often observed when I passed in a Ship-Boat to some farther part of the Sea, putting my hand into the Salt-water, that the Sea water was luke warm, and that is a fign that there will be a Tempest within three dayes, and the Winds and Floods very violent. For when there hath been a Tempest in the deep Seas that are remote, from whence it cometh to us; the Sea-water moved and troubled grows hot, as our hands are heated clapt together, and these Tempests roule to us, and the Waves rife to a great height. So at the beginning of the Spring, Southern Tempelts force out the Grass, that are heated by the beating of the Ayre. Likewise if it Thunder in Winter, and Lighten much, this shews that Tempests will follow, and Whirlwinds, and great inundations. For fince that diftemper happens contrary to the course of Nature, and the Ayr is thereby troubled, there must needs be some violent cause for it, to move those Tempests; For I never observed any such thing, but the day following horrid Tempests role; and mighty Rains fell. Thunder and Lightning are usual in Summer, as also burning Feavers, and if these invade in Winter, and are raised up, it must proceed from some violent cause, which the contrariety of the season could not suppress and hinder. To which that of Hippocrates may be referred; Those are sick with less danger, to whom the Disease is more naturall according to their age, custome, or fealon of the year, than to those, with whom these considerations agree not. Lemnius.

Signs that shew that the Winter will last longer. Chap. 4.

The Scarlet Oke or common Oke bearing much fruit, shew that the Winter will continue the longer. And Sheep and Goats being leaped, and desiring to be leaper again, signifie the longer Winter; It slocks of Cattle dig into the Earth, and hold their heads toward the North, they foreshew a sierce Winter. The same.

Predictions whether it shall be a forward or backward year. Chap. 5. It is good to know whether it will be a forward or backward Spring; For it is best to sowe more plentifully with your Seed, where the year will be backward, because some of the Seed will be corrupted in the mean time. If therefore it Rain after the Vintage, before the Pleiades set, it will be a forward year: but if it Rain about the time of their setting, it will be moderate: But if it Rain after they are let, it will be a backward year. Democritus and Apuleim lay, That you must expect such a season, as you find upon St Brunian day in the Roman Calender, that is upon the twenty fourth day of November, which fome of the Greeks call Dior. Others affirme from a certain Observation, that according to the twenty fourth of November, from whence Winter begins, fuch a feafor will continue in the following Moneth of December, and according as the twenty fixt day of November happeneth, to will the feafon be in February. But this happeneth fo fometimes, and fometimes not at all. Moreover from observation they say, that from the feaventh day of March, untill the fourteenth day of the fame Moneth, the Ayr is wont to grow colder: for in those dayes the fourty Martyrs were delivered into the hands of the Pagans, and tormented by them, to give testimony to the Christian Faith. Didimus.

de

日星月日日

日品

iv Gi

西福

h

O

The signs of events from the first Thunder every year after the rising of the Dog-Starr. Chap. 6.

The first Thunder every year that happeneth after the rising of the Dog Start is to be observed: and you must take notice in what sign of the Zodiac the Moon is then. For if it Thunder when the Moon is in Aries, it is a sign that Men shall be frighted and doubtfull, and be much troubled, and stye away, but after that all shall be quiet. If it Thunder, the Moon being in Tantus, it signifies corruption of Corn, Wheat and Barley, and abundance of Locusts coming, but joy at the Kings Court: but to those that live Eastward, samine, and penury. If it Thunder in Gemini, it shows troubles and diseases, corruption of grain, and of Trees: In Canter, corruption of Barley, and drought, and death of Oxen, but plenty of Rain about March and April. In Leo destruction of Wheat and Barley in Mountain Countries, and Itch and Scabs. In Vingo the Kings death, and a stranger to come to Rule, danger to Martiners, and smoot of Corn. In Libra, Wars and Plagues, and corruption of fruit. In Scorpio hunger, but Birds shall increase. In Saginarius it signifies rising in that Countrey, in Hill Countreys plenty of Corn, but scarsiy upon plain Land, In Capricorn, it signifies Rain for sity dayes, and the Kings disgrace and treason, and ill words not sit to be spoken, and the appearing of another King from the East, who shall rule over all the world, there shall be plenty of fruit, and great Men shall dye, but Sheep shall increase. In Aquarius, great Wars near the Sea, fruitfullness of other fruits, but Pulse to be scarce. In Pises, some corruption of Corn, and the death of some great Man. Zoroaster.

Signt of Rain. Chap. 7.

That indeed is strange to those that know not the cause, that if Rain be not near, the Moths will dance; but if it be near, they are only turned round, for they are not so much affected with the moyst Ayr, and therefore they do not leap forth so much; and for the most part when Rain is at band, the Ayr is moyst. Card.

The Sea swelling foreshews Winds, and when it roares much about the Shore, so do the tops of Mountains being clean, also Thorns and dry leaves turned round the contrary way by the Winds. In Summer, which way soever Thunder and Lightning are carryed, from thence you must look for Winds. Which way soever Stars that fall bend, they foreshew Winds to be expected from that quarter. Zo-

How to drive away Hail. Chap. 9. Some fay that if you hold a Looking-Glass against the Cloud that hangs over you, the Hayl will pass away : also if you compass the place with the skin of an Hyana, Crocodile, or Sea Calf, and hang the same up before the Doors of your house, for then the Hail will not fall. Moreover, if you hang the Keys of divers Floules upon a firing round that Countrey, the Hail will be gone. Also if you let Woodden Buls in the Houses, it will help much. Also if you hold a lake Snail in your right hand, lying upon his back, with a little earth about him, that he cannot turn himfelf, and creep away, which he cannot do if the Earth be made hollow under his feet, for when he can find nothing to fasten his feet upon, he must stay where he is, and having done this, no Hail will fall in the Field nor any other place there. Some fay that the Snail must be laid so at fix a clock in the morning, or fix at night. Apulejus faith, That at Rome a Grape was Painted upon a small Table, and was confectated in the Vineyard, when Lyra fet, and so the Grapes were preserved; now Lyra begins to fet about the tenth of the Calends of December, it fets perfectly on the first day of the Nones in February, that is on that very day, and this is the tradition from the Ancients. But I think many traditions are very unfeemly and to be rejected, and I warn every Man to give no heed to fuch fopperies : also the pieces of a water Horse skin laid at the feverall corners of the Field, hinder and keep off the Hail that threatnethus. Philoftratus.

Bury a Sea Horse skin in the ground, in that Countrey, and no Thunder will fall there.

Another

CHS

toof

att di

BH,

**922** 

始位

Another

The Bay tree is a remedy against Thunder, as Pliny writes. Wherefore the Ancients learing Thunder, wore a Crown of Bays upon their heads. The same is reported of the Figure. Guil. Gratorel.

Against Tempests. Chap. 11.

In Apeninus of Italy, between Bononia and Pife, when a Tempest riseth the Women run about, and they charm it with a Chees pressed on the day of our Lords Ascention, listing up their hands, and they make a cross over the Chees, like to a Christs-Cross, that is pressed into it, and so they suppose they shall be free from the Tempest; In the same Apeninus they keep an Egg theil, out of which a Chicken was hatcht on the Ascention day, and they bind this on the top of the house, and they think that will preserve those Houses from Tempests. Others spreading a Table in the middle of a Chamber, they lay between two burning Wax-Candles a Thunder-Bolt stone, and it will sweat, which seems strange to them; yet it is as natural as the sweating of Glass Windows at that time, or in Winter, when the Stove is hot. Moreover Tempess will not hurt fields, if beaten Coral be strewed at the sour corners of the Field. Wierus and Fallop.

How a Rainbow may be feen. Chap. 12.

A Rainbow may be feen divers wayes, but the most commodious way is to prepare it of Crystal, or of a stone called Iris, with fix Angles like unto Crystal, which the Ancients ever called by that name : which being opposed to the Sun Beams, will make a shadow like to the Rainbow, trembling upon the roof of the Chamber, and upon the floor underneath. For fo a Hexagon is made of ir; elfe if you make a Trigonal by Art nine Inches long, and two fingers broad, and then polish and make it all convenient. When therefore you defire to fee a Rainbow, take a Crystal or Glass Prisma in your hands, and hold it longwayes to your eyes, if you look upon the inferior superficies, you shall see severall colours, as Purple, Green, Yellow, and Blew : and if you turn your eyes to the uppermost superficies, the situation of the colours is changed, the perpendiculars being changed, and this is feen more clearly in the Sun, and it is no contemptible Observation. If you look upon Gardens you shall tee them all diffinguished with Tapistry, adorned with Flowers and Crowns, and Men walking like to Angels, and the very hems of their Garments garnished with the same colours : if you hold it the broad way toward your eyes, you shall fee the colours the broad way; if you hold it above or under your eyes, you shall fee all turned, or upright without any colours, and he that looks upon it will appeare with four eyes, but all bending inward, by reason of the convexity of the eyes, but covering one superficies with Wax, and often turning it before your eyes, you shall see such things that will make you distaine rather than take pleasure in it. Also we may see the sime thing thus. If the Glass be dipt into a Bason full of water, the diligent looker into it shall see upon the wals, the colours of the Rainbow, and more apparent; Otherwise hold a Glass or some round transparent body against the Sun, Iprinkling water on the outfide, this being beaten upon by the Sun-Beams, and being reverberated by the clear Ayr upon some plain Subject, will represent a Rainbow by the various reflections of the Sun. So casting water before the Sun by drops, a black superficies being over against it, upon which it may reflect, will make a Rainbow, as it fals ofttimes out with Marriners, by reason of the motion of the water. The same we see frequently about Candles when the South wind blows, and especially those see it that have moyst eyes. The same.

To make a flying Dragon. Chap, 13.

There is also an Artificial Invention, which some call a flying Dragon, or a Comet; the way to make it is this. Make a square of the thinnest Reeds, or let the length to the breadth be one and half in proportion, and let there be two Diameters, and let them be set at the opposite parts of Angles, and bind a Cord, where they cur one the other, and the like Cord must be tyed with two, others proceeding from the ends of the Engine: and so cover this over with Paper or fine Linnen cloath, that there may be nothing heavy in it, then it must be entrusted to the Wind from high L 12.

Towers,

This date of the state of the s

-

Towers, Mountains, or tops of high places, when the Winds are equall and uniforme, not too ftrong leaft the Engine break; nor too weak, leaft the Ayr be too calme; for that will not bear it up, and the winds being still, will but make you loofe your labour. It must not flye right forward, but obliquely, which is performed by a Cord drawn from one end, and at the other end a long tail, which you shall make of Withsfet at equall diffance, and Papers every where tied to them, fo it must be let go, gently pulling it, by the Artists hands that holds it, who must not be idle and careless in casting it forth, but he must do it forcibly; and so will this bottome mount up into the Ayr, when it is once a little raifed, (for here the wind is broken by reason of the turning of the houses,) that you cannot easily governe it with your hands. Some place a Lanthorn above it, to make it shew like a Comet. Others place a Squib wrapt up with Gunpouder, and when it refts in the Ayr, by the string a burning Match is sent up, by a Ring or some slippery thing, and this prefently runing up to the Sail, gives fire to the mouth of it, and with a great Thunder, the Engine breaks into many parts, and fals down upon the ground. Some bind a Cat or Puppy to it, and they hearthemicry in the Ayr. Hence an Ingenious Man may begin some Principles, how a Man may learn to flye, with huge wings bound to his Arms and Brest, but he must learn from his Childhood to move them by degrees, alwayes from some higher place. If any one think this to be strange, let him consider what Archyearthe Pythagorist invented, as the tradition is, for many of the noble Greeks, and Favorinus the Phylosopher, the most exquisite for ancient me-morable things, have written affirmatively, that Archyrus made the forme of a Pi-geon of Wood, by his Art and Mechanical Industry, that slew up and down, for it was so balanced with weights, and moved with wind that was secretly shut up within it. The Same.

## BOOK, XV.

Of Organick Secrets.

Of the Secrets of Letters, namely how a man may freak secretly. Chap. 1.

Words that fignific other things, which is most common with Juglers: The Iralians call this speaking after Calman, and this is profitable to instruct Children that ferve in the houle. The fixt is when we speak by cutting off some words, or pieces, this is not rediculous, and becomes a grave Man, because it makes a doubtfull sense, and it is so lawfull that it is familiar in the Writings of great Men. Card.

Speaking by whispering fals out two wayes, the one is in the Pipes which we both pipe and speak; the voice is made matriculate by the Tongue, it is concealed to those that observe it not, a small is hid under a great, and a shadow under a sound. Those Pipes are made of single Reeds of Wood, with one board hole, set under it, through which we blow: but that is covered all over with a thin membrane, so both the voice and speech resounds. But the other way consists in raysing of voices by equall spaces, whereby severall Letters are signified, and by Letters words, and the whole speech wants only use, but it is no hard matter for those that are accustomed to it. The same.

XV.

200

品加

4 bis

ui m

bor.

UT ti

dalli-

a, in

M II

he lu-

mbi

How when a City is Besieged, one may speak af ar off by Torches.

There is another remedy to comunicate your mind when Cities are besieged,

which is fafe and alwayes in a readines; and they that come to relieve the place or shall come, may understand as much as they that are in the City, and it differs little from a Letter. If therefore the City defires to signific to him that is sent to enquire, what relief there needs, or to the General that comes to bring help, they must place upon five Towers far distant one from the other that they may be distinguished; five single burning Torches, and all those severall persons that hold them, must have the words in writing before them, which they would have signified, and that it may succeed by Letters which belong to his Torch severally, or two or three holding up that one Torch or more, or holding it down, or bending it to the right hand or to the left, to emply the signification thereof. By the same reason the counsell of the Generall that comes to affoard relief,

though there be an Army between, may be understood from a very high Tower, by Joyning the Letters together, which the enemies cannot take notice of, though they knew it, because the Torches are held low of those that come to bring help. Cardan.

A way how any affairs may be fignified to Friends from a befreged City. Its now time that we give you to understand how that any business may be fignified from afar off without a Letter; and that that may be eafily performed with a Torch we shall show. Some will think, as indeed there are, two wayes; the first of which we found described in an old fragment, written by Polibius; and a second invented by us, which although they shall feem obscure and lame; yet we shall not think from our bufinels to explain it, and to give fo full and compleat instruction of it, that it may appear serviceable. He (I mean Polibius,) commanded severall Brass Vessels to be brought, and these long on both sides, and narrow, and deep, either three or sour square, and in these as it is wont to be in Lamps, a piece of wood which was put upon the wood of the Torch laid in the veffel, just under this at the bottome of the Veffel the principall matter was to be writ in, viz. We want Corne; a great Plague in the City; a fedition among the Citizens; the Caffe is taken; to morrow we break forth, or the like. When this is done, fill the Veffel on both fides with water, and light the Torch, and fuffer it to remain lighted a convenient time, at the end of which ye take away the wood that covered the Torch, which prefently finks to the bottome, and then the ater being let out, there remains at the bottome what was writ before, which the other reads. But this way I dare not approve of, because it is very uncertain, hardly shewing what we defire. But besides this he mentions another which is not unconformable to what we mean, which is almost after the same manner. According to his appointment both sides of the said Vessel were to have five little Tables, in each of which fo much of the Alphabet as you have here described, and the like Figures so placed as you see underneath. But they that

would fignifie what they would have, must provide ten Torches lighted, and place five at the right hand, and five at the lest. And first of all wave your Torches so long till the others to whom you will fignifie, wave again in token of answer, least the beginning should be uncertain; use this Method, first wave with your right according as the number of the Table is, in which the Letter stands, and then with the Torch at your lest hand according to the number at which the

B DE HL NP RT X

Letter

the Page

MENT

京

五百五日日五

THE

WI

からののは

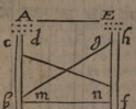
to

WZ

TÉ

Of

Letter stands in your Table. As for example, I would signific Veniemus, viz. (we will come) wherefore for V. the first Letter I find in the fourth Table, and the fourth Letter, for which I list up four Torches at the left hand, and finding it the fourth Letter in that Table, I list up four Torches on the right hand, which is easie to be understood. Then for E. I move one of them at my left hand, and five at the right; for N. three at the left, and two at the right: next for I. two at the left and sour at the right. Again for E. one at the left and five at the right: proceeding to M. the Table gives me direction to list three at the left and one at the right: for V. four at the left and as many at the right: and less for S. four at the left and two at the right. But we from this and the other have drawn another way which is only performed with two Torches to avoid consuston.



and trouble. Therefore having appointed two Torches very long ones, that they may be able to declare the whole sentence of the figures, and placed at such a distance according to the distance of them, to which this sign is proposed; as it may be to the distance of four cubits. The sign being given and received on both parties; and the Torches being lighted, of hidden, that the beginning may be understood, the left being listed up signifies one, but it must be listed up ten cubits, being

held to low first before that it may not appear : one inclining to the left, and the other to the right, and you may according to your pleasure order the Letters, as for A. you may make N. or any other Letter as you shall think fit. You have therefore eight Letters, but you have but four if you move both the Torches together. As for example, lift up I. and it is the other hidden fignifies L. which fame Torch being inclined to the left makes M, and to the right N. Again the left being lift up, and the right kept down makes O. which being enclined to the left makes P. and to the right Q. The left hand being depreft, the right hand will make three other notes, and the left three more, infomuch that the may make up a compleat Alphabet : There remain yet belides thele three other differences which are made by the left Torch inclined towards the right, when the right is likewife moved either upwards or downward, or to the left hand. To thele we determine 0, 1, 2, and fo it may be repeated 3. 6. 7. that at the second tuene it may be constituted from one even to one, and the second constitution will make 9. 18. 27. and so you have it from one to 38. but if you will repeat four fignes, the first fign will make 27 the second 54. the third will fignifie 81, which will arrive in all to 119, to to the fift place 81, 162, 343, and the whole 462. And thus you fee how with only two Torches the whole may be fignified in a far more compendious way then the former, and this way you will find ever true, and hardly erronious. But as I told you, in the ule of this you must evermore observe to do it in a clear night (I mean without mist) and likewise without Moonshine, a little use will make it every way perfect.

How Letters that cannot be defaced may be written upon Menibodies.

If you pleafe at any time to write new Figures upon a Man, you may eafily do it in a hot house, dividing the uttermost skin with a Razor, or a Lancet, first marking the Letter with lake upon the skin; then fill up the cuts with red Lead, or blew, or with some Earth of the same colour which you would have it; and presently the colour being contracted by heat, the skin will grow into that forme. Another was as I learned by experiment without a Stove. Let Cantharides be insused twenty four hours in water that parts Gold, then with a fine Pen make Letters or any forme you please, upon the skin, that you leave some prints of the water, and presently white blisters will arise in those places where the water came: when these are broken and grown whole again in one day, a white mark for ever will be there, and it will not be taken off, unless by force, and it will exactly represent what was written there.

That Letters may be white where the pattern is black.

If we would have white Letters in a black Pattern, there is a more fecret way to express our minds. Beat the yelk and white of an Egge well, that it may be like to writing lake; make Letters or descriptions with it, when they are dryed, rub over

the Paper with a black colour, and frain it therewith; but when the Letters are covered with these shadowes, if you gently scrape them with a broad Iron or a Knife, they will break through their dark vail as through clouds, and will be exceeding white. The Same.

The way to write in an Egge. Grind Alum very fine a long time with Vinegar, and draw what forme you will upon the Egg-shell, drying it in the hot Sun, put it three or four dayes in Brine or sharp Vinegar, when it is dryed, rost it, when it is rosted take off the shell, and you shall find the Letters written upon the hard white. Hence ariseth another, you must wrap the Egge in Wax, and with a Pin make Letters upon the Wax, where the Letters are, fill it up with moysture, and let it steep in Vinegar twenty four have take off the Wax, and the shell after that and you shall read the Letters upon houres, take off the Wax, and the shell after that, and you shall read the Letters upon

the Egge. Apbrican.

How to make Letters that lye hid appear, and to hide these that are wishble. If you desire that Letters that lye hid may be seen, and those that are seen may be hid, you may do it by the diffilled liquor of Vitriol, or Aqua forth poured on, untill it be diffolved; and therewith make Letters upon the Paper, for when they are dry they are Engraven : Moreover you shall grind burnt Straw with Vinegar, and what you will write, let it be written between the former Verfes writing at large; then boyl four Gals in white Wine, and rub the Letters gently with a Spunge wet in this liquor, when it it boyld as it ought to be, the naturall black colour will lye hid, and be extinguished, but the former colour that was invisible being rubbed up, will be very apparent. The fame.

How to conceal writings. Dissolve so much Copperas in water, that scarce any print of black may appear in writing; when this is dryed, write upon the same words and the same dashes, other words with Rain-water, and coles of Willow made thick; which will be like to

true Ink. When it is dryed, and foked in, and you defire to read it, boyl Gals in water, and dipping a Spongetherein and preffing it forth again, rub over the Epiftle newly written, that neither the cole nor any drop nor Gals may flick to it, the former writing will shew it fell with the colour of the Gall, and will stick fail to the Paper,

and be apparent, Cardan.

STO.

四世

Time 200 have 100 P

000

may

122 其は

**MARK** 

五次

die:

As **MILE** 

200

2005

in an

Water !

us to

SOUC, 70 58.

22

Wit.

vet-

de

eo-755

ME

122

DE

ett.

Letters rifing suddenly in any place.

You shall make black Letters, and coloured that shall immediately come forth, upon any place, if you write upon your hands or elfewhere fecretly with Vinegar or Pifs, for when they are dry, there is nothing to be feen; and if you would have them to be read, rub them over with Soot, or some colour that is fold abundantly in Painters Shops, and the Letters will be exceeding black; if you would have them to be white upon Paper, write them with Figs milk, and when they are dry ffrew cole

dust upon them, and rub them. The fame.

Letters that will be made visible by fire or water. You may thus make Letters visible by fire or water, writing Letters between the Verses, and the severall distances of Lines. Let your Letter contain what you please, that he that fees it may think it was written at randome, and if it be intercepted, he shall under stand nothing or very hardly any thing of it. If you write with the juyee of a Lemmon, Orange, Onyon, or any sharp thing almost, if you heat it at the fire, their sharphels will presently discover them; It is some thing more curious to write with Alum diffolved in water; and when it is to be read, it must be dipt in water, and the Letters will be very visible and curious, but if you would have them white as milk do thus : first grind Lytharge and put it into an Earthen vessel with water and Vinegar, boyl it and strain it, keep this, then with juyce of Lemmons of the Citron kind, write Letters, and when they are dry they will be hid, if you dip them in the liquor you kept, you shall see them white as milk: If Womens Brests or hands be wet therewith, and the foresaid liquor be sprinkled upon it, they will be white as milk, use this if at any time you have need of it. So Letters written with Goats Suet, upon a flore, that they are fearce to be feen, if you dip the flone in Vi-

ははり

hards

NUX

100

dea

世間は

divis

由出

DESC

量

mi

the same

7 1

COL

11120

CID

VOL

mi

mé

IVI

you of

WIT

the

图 名 图

negar will appear presently, as if they were Engraven. But if you write with water only, and would have the Letters appear, that we may more readily provide for a Journey, pouder Gals and Copras very fine, and strew the pouder upon Paper, rub it with a Cloath, and polish it well, and it will be like the Paper, and stick fast, bruise Juniper Gum, the Painters call Vernish, and add that to the other. When you would use it, write upon it with Water or Spittle, and the Letters will be black. The same.

Letters not to be read but in the night.

Letters that are not to be read but in the night, must be written with the Gall of a Tortois, or Fig milk, if you put it to dry at the fire, or else write Water of Glow-Wormes. Albertus.

The way to read Letters that are concealed upon the Paper.

There being three forts of things vvherewith Letters may be vvritten and lye hid, and imperfect; either because something is vvanting, as for vvant of Sope, Ashes, or Coles: or else it is vvritten vvith Water, Gum Arabick, Coperas, or by something perspicuous, as Alum, (for in Water it vvill appear vvhite,) or from density, as things written with salt Armoniac, for the fire condenseth them: It is necessary that he who would make tryal of it, must look through a Paper annointed with Oyl, against the Sun, or dip it into the water, or hold it against the fire, and strew Coperas beaten upon it. Gardan.

That Letters at set times shall decay and vanish away.

How doth it exceed the wit of Man to open the Secrets of nature? Infuse Steel pouder in water of separation, three parts, and add to it the Soot of melted Pirch, or of Turpentine, that it may be more black, and cover the vessel, grind it well on a Marble, write, and when the Letters are old they will vanish. I thought not sit to conceal this, and the chief of the business is to make tryall of it often: for it it stay long on the Paper, you must add some more Aqua forth to it, and if you be carefull, no prints of any yellow will remain, let this be your rule. There is another way like to this, if it be better to counterfeit so: Take Chrysocolla, salt Armoniac, and Alum equal parts, pouder them all, and put them into an Earthen Pot, and make a strong Lee with Lime, and lay a Linnen Cloath over the mouth of the vessel and strain it in; so let it boyl a while, mingle it with Ink, and when you write Letters, they will last a certain time, but after that they will vanish away, keep this for your use. The same.

Mingle white Lead in Summer with Fig milk, and make little Cakes of it; dry them in the shade, and grind them, do this four times, and then keep it; when you have need wet the Letters gently, and strew on that pouder that it may stick every where, let it lye on twelve houres, rub it with a thin somewhat rugged Cloath,

wherein you must wind up some Cotton. Cardan.

How to blot out Letters.

Take common Salt, Rock Salt, Roch Alum, of each two ounces, falt Armoniac four ounces, mingle and diffill them according to Art. Letters moystned with this water will vanish. Fallopius.

To blot Letters quite out.

But if you feek how to take Letters quite away, or blots or fpots; write with water of Coperas, and Saltpeter with a Pen upon the Letters, or rub them with Salt Alkali, and Brimstone made into small Pellets, and this will eat them quite out. The same.

How to write Letters upon Stones.

If you would with ease write upon a Flint; rub it all over with Wax, and then Engrave upon it what you please, but the Wax must be perfectly scraped away to the Flint, that the Flint may be seen: then steep the stone seven hours in the sharpest Vinegar, and take it out again, and if it stay longer in, the crust will sooner fall off; For it sals out almost as in Mens bodies, when Causticks are applyed; for the long stay in Vinegar supplies the place of a stronger Medicament, and the quantity

of

all of a

WW.

i with

le Sint

maga

WELL DE

DX

to the

% 130

it Ap-

Estion

mind m vou

sa'kten

的位章

**20407** 

CVCT

n quit

なは

of Vinegar it is steeped in. For it dryeth and penetrateth; whence the stone must needs yield; and it is evident that this will serve for other stones that are not much harder. Cardan.

To blot out Letters.

You shall easily take off Letters thus: Take the flesh of a Hare, dry it, and pouder it, and mix it with Quick-lime, and lay it upon the Letters, and rub it on, and in three dayes no Letter will be seen. Out of a very old Book. Mizaldus.

How to make up Letters, that they cannot be privately opened. The way to make up Letters well and feal them, is both ulefull and necessary. If then you have a Seal, before you lay on Wax, cut the place under it into many fmall pieces, it you then drop on Wax, it cannot be taken off by any Art, but the Paper must be broken : therefore the fraud will be discovered on the contrary side when the Letter is opened. If there be no Seal, on the other fide the part A.D. must be divided with a Rule and a Point; when therefore it is folded, the part A.D. will flick to the Letter, (which must be long and right Angled) by two incisions, one that toucheth A. and the other must be brought very near to it, to the other fide of the Epiftle by B. then it must be brought back again by C. and lastly the part being cut, and made sharp, the part with a point E. must be reduced again, under B. C. from B. to C. fo that the part that covers B. C. must be square, and not sharp: then on the contrary fide the part that is equall and like to the leaves, must be cut off exactly, which is A. D. so will the parts be like on both sides, and no man can eafily find how it is made up; also the Inscription must be made on both fides upon the place that is fastned. Cardan.

How a Letter is to be opened secretly.

Some use to open Letters Scaled with a hair of a Horse tail, but they first warme the Wax a little, this business requires skill, and agility of the hands and judgments you must reltore it just against the former place, least by often Scaling, the situation being changed should discover the fraud. Otherwise annoint the place of the Scal, and then pour upon it very fine Gyp with water, and a little Fish Glew, or Gum Arabick; let it harden and so you shall have a false Scal. The same.

That Letters may not be burnt.

That Letters may not be burnt, take the sharpest Vinegar, and whites of Eggs, and mingle and beat Quicksilver therewith, wet the Paper thrice with this mixture, and dry it as often; Then write upon it what you please, and cast it into the fire, and it will leap forth and never burn. Out of an old Book.

To defend Letters from Mice.

Temper your writing Ink with Wormwood water infuled, and this will keep your Letters from Mice, as the herb will keep off Moths from your Cloathes. Disoftenides.

Salt Armoniac poudred and mingled with water, will make white Letters no what different from the Paper; but hold them to the fire, and they will be black. Thus things written with pouder of Alum, will not appear, unless when you will read them, you dip the Paper into water. Mizald.

They had two round Staves, that were well polifhed and equall exactly, and in Paper they wrapt up one as in a Screw, and equally from top to the bottome, so that none of the Wood might be seen, then at both ends they cut off the heads that were not covered after that fashion you see here on the side; The Generall took one of these Staves, and the other was left in the City, when there was need to write a Letter, they wrapt the Paper about the Staff, as I said, fashing it at both ends, and also in the middle in certain places with Wax; then they write what they pleased: and then pulling the Paper off from the Staff, they sent it for a Letter, Cardan.

T.

Uton (200

STORE

Til

Con Con

outo

CATE

150

前 tin

TEP, Off,

UL DI

md

100

that

WI

2 W

To make Letters visible in water.

Write with Water wherein Alum is diffolved, and when you would read it, dip the Letter into the water, and the writing will be very legible. Alexius.

Write upon your hands fecretly with Vinegar or Pils, or upon fome other part; when the Writing is dryed and nothing to be feen, rub it over with Soot or colouring which is fold plentifully in the Painters Shops, and it will be very black; if you would have the Letters white, write upon the Paper with Figtree milk, dry it, and rub it over with Charcole pouder, and make it (mooth. The fame.

The best way to make Ink.

Take the best Galls cut into three or four pieces or gently bruiled, as much as you pleafe, and when they are fryed awhile in a little Oyl, put them into a glazed Pot, pouring upon them to much white Wine that it may twim above them three of four fingers breadth; Then add Gum Arabick beaten half a pound, Coperas beaten eight ounces, mingle them and let them in the Sun for some dayes, stirring them daily. After this when they are a little boyld, as much as is needfull, strain it, and it will be perfect. But to the dregs that are left, you may pour on fresh Wine, boyl and strain it, and this may be done so often, untill the Wine takes no more Tincture from the dregs. These Wines being mingled, add Galls thereto, Gum and fresh Coperas, as before; then setting them in the Sun, and boyling them again, it will be much better than before. For the oftner you do these things, the Ink is made better; and if the Ink should be too thick, add a little of the Lixivium to it, and it will be thinner. But if it be too thin, add a little Gum Arabick. The Galls mult be small, curled, and hard, as the Coperas must be blew, and the Gum must be clear and Alexine. brittle.

Powder of Ink what one may carry in a Journey : fo it be mingled with

Wine or Water; also this ponder m kes Ink the better. Take Peach Kernels, or of Apricots, or of Almonds, and make them ted fire hot, take them away and keep them; This being done, take Rolin of the Pitch Tree what is fufficient, put it into some Vessel or Pot over the fire, and with a Candle or Cole fire make it hot, then cover it with some cover, that the smoke may breath forth, and not be put out, but be very well received: when the Rosin is quite confirmed, and the Wolfel and the Rosin is quite confirmed. fumed, and the Veffel cold, wipe off the Imoke that flicks upon the cover, and keep If any one would not walt fo much time to provide this smoke, let him buy it of them that make Printers Ink. Take of this smoke one part, and of the pouder of the burnt Kernels two parts, Coperas one part, firyed Galls, as I faid before, one part, Gum Arabick four parts. Pounder and fift them, and mingle them, and keep this Pouder in Leather. When you would use it, take a little of this pouder, and put a little Water to it, or Wine, or Vineger, mingle them well and use it. And thus you have Ink prefently, that every one may carry about him, and not fear spilling of it; and if you put this pouder to bad Ink, it will make it most perfect. The Same.

Ink easie to provide, and at no great charge, and it is not only fit to write. with, but also for Printing of Books.

Take of that colour they dye Hides with, as much as you pleafe, Gall of a Cuttle what is sufficient, mingle them for Writing Ink. But if you would make it better, add the foresaid pouder of those Coles, Vitriol, Galls and Gum: you may add a little Vernish or Oyl of Linseed to it, to make it hold together the better, and be more moyft. Moreover Ink to Print Books with, is made only of the smoke of Rosin, as Isaid before, adding liquid Vernish what is sufficient, and boyling it a little, and so make your Ink thicker or thinner as you will; for in Winter it must be movster, and in Summer faster. If you would make it thinner, add more of Oyl of Linsteed, but if thicker, less Oyl and more Soot, and boyl it better. But the harder Ink makes the finer Letters. If you will make red Ink, for smoke, take Cinnaber finely poudred; if green, take flower of Brals called Verdigreale; if blew, as they did a few years fince, take Germane blew, or Glass Emmil, to be had at Fenice. 藝

tom ex-

tim

Tit

can-

im

now

in,

der,

281

の中の時代

55

Do the rest as I said for common Ink. The same.

Perpennall Ink Artists call that perpetual colour Stuchum, with which chiefly Letters are written upon Sepulchres, the Letters being first Carved in the Marble. It is made of the smoke of Oyl of Linseed, and Ship Pitch mingled. For the blackness of that smoke never changeth, nor is the Pitch corrupted by Water or Wind. Cardan.

Take Brafil Wood cut small one ounce, white Lead, Alum, of each two drams, grind and mingle them; pour on Pifs as much as will cover them, let them stand fo three dayes, firring them three or four times a day : then strain it through a linnen Cloath, and put it into some Glazed Vessel, or a Mortar, and dry it in some place out of the Sun and Wind, and keep it. When you would write with it, temper it with Gum water. The Same.

A water that rubs out the Letters or blots upon Paper.

Take white Lead the best, finely poudred, Fig Tree Milk, of each what is sufficient. Mingle them into a lump, when it is dryed, wet it again in Milk, do so six times, and pouder it; when you would take off Ink or Letters from the Paper, take. a Linnen Cloath wet in water, and crush it forth again, and touch the Inkor Letters with it untill they be wet: and that being done, strew on the for faid pouder, and let it lye so for one night, in the morning, rub it gently with some dry Cloath of Linnen, and the Paper will be very white, and fit to write upon. If the Ink be not out, do it again, and then it will be gone. If the Paper grow too thin by rubbing, it must be made thicker with Glew, that Joyners use to joyn Wood, being a little melted, and some white Lead, or Wheat slower must be mingled therewith. The For Golden Letters.

To write with Golden Letters, take Saffron and Orpiment of each a like quantity, make them wet with Goats Gall, and leave it buried under Horse dung so long that it be grown thick, Write or Paint with this; you may do the fame with two drams of Aloes, and as much Saffron, and those being finely poudred, mix them with the white of an Egg, and beat them very well. Out of certain Painters experience. Mizald.

Othermife for Golden Letters.

Take Orpiment, Crystall, of each one ounce, make them severally into pouder, mingle them with the white of an Egg, and make a liquor to write. Alexius. For Silver Letters.

You shall without Silver make Silver Letters thus; Take the best Tin one ounce, Quickfilver two ounces, mingle them and melt them, then grind them with Gum water, and make your Letters with that. Mizald. A green colour to write.

Take Verdigreafe, Litharg, Quickfilver, of each what is fufficient, grind them, and mingle them together with a young Boys Pifs, and you shall have a most beautifull colour like to an Emrald, not only to Paint but also to Write. Alexius.

You shall make green Letters thus: Take Rue leaves, press forth the juyce, add a little Verdigreafe and Saffron, grind them, and when you will use them, mix them with Gum water, and Write. Mizald, Alexins.

Take Verdigreale, as much as is needfull, put it into Vinegar to diffolve: then ftrain it through a fine Cloath; when you have done that, grind it on a Porphyr stone, very well with common water, adding a little Honey; when it is well dryed, grind it again upon a Porphyr stone, with Gum water, and you have done. The Jame.

To prepare blew Ink. Blew must be ground with Honey as Verdigrease was, but it must not be strained; but it must be tempred with the white of an Egg beaten, or Gum water, and this

野のなるは

ingon !

I has

109

et.

出出

tine But

200

Land by

四上海西

12

Since those states

216

former vilus Wor

四年 四日

is, do

四世名中田田

Gum is made of Ifinglass, melted and strained as you do with Gums.

To prepare Cinnaber. When Cinnaber is well ground with common water upon a Porphyr stone, and then dryed, you must put it into some bone or Glass Vessel, and pour Pils upon it, and let it stand awhile for the matter will fall to the bottome; after this pour off the Pils gently, and pour on sresh, when you have done this eight or ten times, it will be very well purged: Then take the whites of Eggs very well beaten, and it will dissolve into clear water: pour this water upon the Vermilion, that it may swim a singers have the board of the pour this water upon the Vermilion, that it may swim a singers have the board of the part of the breadth above it, and beat them again well together; when it fetleth after this, pour off the whites of Eggs gently, and pour on fresh, and do as you did with the Urine, and this done only that the stinking smell of the Pils may be taken from it : Then add whites of Eggs a fresh, mingle them well, keep the Liquor in some close Velfel: when you will ule this, ftir it with a ftick and it will keep very long uncorrupted. The Same.

A Liquor to Write that Shall be whiter than the Paper, and Shall be

Take whites of Eggs very well washed, and grind them well upon a Porphyr Marble stone with water: then put them into a Dish, and let them stand untill the matter fink to the bottome; then take away the water gently, and let the matter dry of it self or in the Sun, and keep it; when you will use it, take Ammoniacum, paring away the yellow skin, as much as is needfull, lay it into distilled Vinegar one night untill it be dissolved: then strain it, and add to it some of the foresaid pouder, and you have the whitest liquor that is to Write and to Paint with; A chief Woman of Italy useth this liquor to beautifie her face, because it hurteth neither skin nor Teeth, and makes the face fo white that you would think it not Painted but naturall. But if you will use it for your face, the liquor must be more clear and thin, that it may penetrate and hold on the better. But if for this purpose you add a little burnt Lime it will be the better. The fame.

The way to prepare Vernish, to make Paper or Parchment Smooth, that we Write upon, which is better and fairer then we use commonly, nor doth it Smell so ill as the

common vernish doth. The Vernish Writers use for Books, is Gum of Juniper beaten to pouder; Also of this Gum boyld with Linfeed Oyl, is made liquid Vernish. Scriveners use the foresaid Vernish poudred, that the Paper may receive the Ink better, and it may not spread. But if you would provide better and far less cost, take Egg shels cleansed and finely bruifed, and fet them in a Crucible well ftopt, into a Potters or Glassmaker Furnace, so long untill they be well calcined to Ashes, then fift them, and make a most white pouder. When you will use it, put a little of it upon Paper, and with a Hares foot spread it here and there, and wipe away what is superfluous, and it will be excellent to write withall. But if when you have written and dryed it, you defire to take away the pouder, rub it with a little crums of Bread, and it will fetch it all The Same.

The way to make white Table-Books, to blot out, and to Write upon with a

Brafs Pin, such as are made in Germany. Take clean fifted Gyp, what will ferve your turn, and diffolve it with Harts Glew or with fome other Glew; When it is dry, and polished, and scraped, it will be clear, then distolve it again, and scrape it as you did at first; then take Cerus, poudred very fine and sisted, what may suffice; mingle it with Linseed Oyl boyled, and make an Unguent to annoint your Tables: When they are well smeered, dry them in the shade five or fix dayes, then with some Cloath dipt in water, and pressed forth again: polish your Tables and let them remain so fifteen or twenty dayes, untill they be well dived, and then we there to write upon, and to wine our again what you have Write dryed, and then use them to write upon, and to wipe out again what you have Written. The fame.

How Books may be Guilded. Take Bole Armoniac as big as a Nut, Sugar Candy as big as a Peale: grind them together

together into most fine pouder: then add whites of Eggs, and mingle them well and beat them; Then take a Book well bound, and under the press smeered with whites of Eggs, when this is dry, freer it with the forelaid composition, let it be well dryed, and rub it to polish it, and to make it smooth: when you would lay on the Gold, first moysten them with common Water : then suddenly laying on the Gold, press it gently with Silk, when they are dryed, polish it well with a Tooth, and with a cold Iron make impressions. The fame.

## BOOK, XVI.

Of the Secrets of Sciences.

I have finished the Secrets of Arts in the precedent Book, which we make use of as Instruments to learn divers Arts and Sciences; Now it remains, that having finished the Instruments, we fall to the Sciences and Arts themselves, and Expound those things which we suppose to be Secrets in them. Now Sciences are either Physical, Metaphyfical, Mathematical, or Moral; I have before in many places spoken concerning Physical Science, concerning the rest we shall prosecute some things in this Book. Wherefore Metaphysical Science comprehends under it what may be said concerning God, and concerning the Angels both good and bad. I have done something concerning God and the Angels before in the first and second Book. But here I shall handle this Subject by a high Metaphysical way. For before I only propounded the bare knowledge of God and the Angels, not as it was to be referred to any operation or effect that proceeds therefrom, which I shall now dispatch in a few words, that here I may seem to deliver the forme, and before nothing but the matter. For I shall not here expound what God is, or how may Persons there are in the divine Nature, or what the Angles are; but bow God being known to m is to be applied by m, and the good Angels are to be gaind to favour us, the evill are to be driven aaway far from me, for by this meanes we shall obtain all good things, that this de-Servedly onabe to be accounted the principle part of Secrets,

How we may bind evill Spirits. Chap. 1. Ince therefore there is no realon why we should make the good Angels subject to Our wils, we must Covenant with the evill Spirits, and because we cannot move thole above, we will move thole that a re beneath. The Magick Art is eafily learned, for if the Devil find you love him, and defire it, he will foon teach you it. But there are divers Instruments in the Magick Art which the Devil applies himself unto; as a Circle, divers Characters, Names, Plants, Roots, Unguents, Glafles, Rings: but to let pass the rest. The ignorant people are deceived hereby, that they suppose some divine virtue to be in these things, when as there is nothing less. For the Devil as Wierus well maintains, is not fo much delighted with any Signs, Characters, Words, or Creatures, as if he could be entited like a Dog with a piece of Bread; nor can any thing offend him lo much as to make him flye. But this virtue is in these Characters, Signs and Letters, Names, Imprications, Herbs, Roots, and the like, only by accident, that the Spirits may be called forth and commanded, that is, they will be bound this way, that they may bind many fouls, and lead them away captive.

The preparation to the Magick Art is sevenfold. Chap. 2. The first is, That a Man meditate day and nigh, how he may arise to the true knowledg of God: both by the revealed Word from the first beginning of the Creation, and also to ascend by the scale of the Creation and Creatures, and by the admirable effects done by the Creatures visible and invisible which God hath made. Secondly, It is requilite that a Man should descend into himself, and study to know himself exactly, what he hath mortal in him, and what immortal, and what is proper to every part, and what differs from it. Thirdly, To learn by his immortal part, to worship, love, and sear God, and to adore him in spirit and truth : and to

NY.

公司等日 智 是 等 是 是 可

D DX

ie the

uke

pr-

BOOK X

Marie Marie

Phylodi

When

Marie

Some

plens

N E N A

No.

NOTE OF

met

Great

michil

201, 9

des

mad

Andl

the Pr

isthat

chau

TOWE

thes

Arte

200

and and

Parc. Hon

INT.

the the

100

tous

the

don

Tio

do that with his mortal part, which he knows to be pleasing to God, and prefitable for his Neighbour. These are the three highest and first principles of Magick, by which whoever provides himself to attain and long after true and divine Wildome, thereby he may be accounted worthy for Angels to do him fervice, no tonly fecretly but openly and face to face. Fourthly, Since from his Mothers Womb every one is destinated to some course of life he shall follow and labour in, every man must first know whether he be fit to learn Magick, and what kind of Magick : which every Man will perceive that reads these things of ours, and understand them easily, and he shall find the successes of it, if he make tryal. For only to Babes and humble minds doth God give such great gifts of this kind. Fiftly, A Man must marke whether he manifeltly perceive the Spirits affilting him, when he undertakes great businesses. If he find this, it is plain that by Gods Ordinance he was ordained for a Magician, that is, to be such a Person whom God employes by the Ministration of the Spirits, to performe fuch things. Here, for the most part Men fin either by negligence or ignorance, or contempt, or too much superstition. Also Men sin by Ingratitude against God, whereby many famous Men have afterwards ruind themselves. Men fin alto by rashnels and frowardnels; and sometimes when the gifts of God are not had in so great esteem, as is required, nor are preferred before things less necessary. Sixtly, He that will be a Magician must have belief and silence, especially that he reveal no fecret, that the Spirit forbids him, as it was with Daniel. This must be concealed, and not blabd about : So St. Paul had no liberty to reveal what he faw in a Revelation. No Man would imagine how much is contain'd in this one Precept. Seventhly, He that will be a Magician must be exceeding just; that is, he must undertake nothing that is wicked, unjust, or unlawfull, no not so much as to think of it, and so he shall be protected from above from all evill. Moreover when he perceives any Spirit working about him, either by his outward or inward fenses, he must afterwards govern himself according to these seven following Rules, that he may obtain his Magicall end. The first Rule is, That he must know how that God hath appointed him fuch a Spirit, and let him think that he hath one that is a supervisor of all his actions, and imaginations; wherefore let him lead his whole life according to the Rule prescribed in the Word of God. Secondly, Let him alwayes pray with David; Take not thy holy Spirit from me, and strengthen me with thy free Spirit; And lead us not into temptation, but deliver us from evill. O Heavenly Father, give no power to a lying Spirit, as thou didt over Abab, that he might perilh, but preserve me in thy truth. Amen. Thirdly, Let a Man exercise himself to try the Spirits, as the Scripture admonished us: for Grapes are not gathered from Thorns; Let us try all and hold what is good, flying from what relifts the Will of God. The fourth is, That we be very far removed from superstition. Now it is superstition here, to afcribe Divinity to things wherein there is nothing that is Divine : or elfe to go about to worship God with a worship of our own fancying, without a command from God; Such are all the Magical Ceremonies of Satan, who will impudently be adored as God. Fiftly, We must flye from Idolatry, which of its own disposition ascribes Divine power to Idols, or other things, which were not so ordered by the Creator or the Law of Nature, as your wicked Conjurers fain many fuch things. Sixtly, We must flye from the cunning fraudulent wicked imitation of God in the work of the Creation, and of his Power, to do as he did, and to produce things by words, which are no causes of them, for that is proper only to God the Creator who is Omnipotent, and is not communicated to any Creature. Seventhly, We must rest upon the gists of God, and of the holy Ghost, that we may be diligent to know them, and adorne them with all our power and with all our ftrength. Out of the Magick of the Ancients.

There are many wayes wherewith Magicians allure the Devils; how to contract them into a few, I think fit to refer to this place, what Cornelius Agrippa hath written concerning severall kinds of Magick, in his declamation concerning the vanity of Sciences, and excellency of Gods Word; saith he, here it is requisite to speak of Magick,

XVI

5.19

dyone

mi

ally,

100

Dicc 2

神神

han-

Bks.

Tin

t; the

mun

uses,

H DON

FIDE

m2-

11: 11:3

中社

10,10

OTOE

The

100

(四)

EQUAL .

mass

DE

. 5.

Magick, for it is joyned and Cousin-german to Astrology; for he that proiesteth Magick without Astronomy, he doth nothing but run into errors. Swidas thinks that Magick had its name and original from the Magusai, the common opinion is, that it is a Persian word, and Porphyrius and Apuleus consirme it, and that it signifies in that Tongue a Priest, a Wileman, or a Philosopher. Magick then comprehends all Phylosophy, Physick, Mathematicks, and the force of Religion is to be annexed unto them. It contains Goesia and Thenrgia, which are severall forts of divination; Wherefore many divide Magick two wayes, namely into natural and ceremonial! Magick. Agrippa.

Some fay that naturall Magick is nothing else but a high power of Naturall Sciences, which therefore they call the top point of naturall Phylosophy, and the compleat accomplishment of it, and which is the active part of naturall Science, which by the help of naturall virtues, and by a mutuall and convenient application of them performes things beyond admiration. The Egyptian and Indians did chiefly use this Magick, where there was a faculty of Herbs and stones and other things that was proper for this use. They say that Hierom ad Paulinam, makes mention of it, where he faith that Appelonius Tyanaus was a Magician, or a Philosopher, as the Pythagoreans. were. And of that fort were the Wilemen that came with gifts to adore our Saviour Christ, which the Chalder Interpreters of the Golpel expound Philosophers of the Chaldeans. Such was Hiarchas amongst the Brachmana, Thespion amongst the Gymnosophists, Budda with the Babylonians, Numo Pompilius with the Romans, Zamolxides with the Thracians, Abbaris with the Hyperborei, Hermes with the Egyptians, Zoroanes lon of Oromafus with the Perfians. For the Indians, Achiepians, Chaldeans and Persians most excelled in this Art of Magick : and therefore (as Plato hath it in his Alcibiades,) Kings Sons were bred up in it, that according to the partern of the worlds government, they also might learn to governe their Kingdoms. And Tully latth in his Books of Divination, that no man comes to be King amongst the Perfians before he have learned the Art Magick. Wherefore naturall Magick is that which contemplates the forces of all naturall and celeftiall things, and fearcheth out by curious enquiry the sympathy of them, and so brings to light the secret powers of nature : fo coupling the Inferiours with the forces of the Superiours, as by certain charms, by the mutuall application of them one to another, that from thence there arise wonderfull miracles, not so much from Art as from Nature, and Art only ministers to Nature performing these things. For Magicians are most accurate learchers of Nature, conducting those things that are prepared by nature, applying Actives to Passives, and so ofttimes produce the effects before it is determined by Nature, which Vulgar people think to be Miracles, when they are but naturall operations, only the time is prevented : as if one should produce Roses in March, and ripe Grapes, or Beans, or make Parily grow to perfection in a few houres, and greater things than thefe; as Clouds, Rain, Thunder, and Creatures of severall kinds, and many transmutations of things, which Roger Bacon boasts he made many by pure and naturall Magick. These have written of the operations of it, Zoroastes, Hermes, Evanthes King of the Acabians, Zacharias, Babylonius, Joseph an Hebrew, Borus, Aron, Zenotenus, Kirannides, Almadal, Thetel, Alcindus, Abel, Ptolomaus, Geber, Zahel, Naxabarah, Tebish, Berish, Salamon, Ajtaphan, Hipparens, Alemann, Apolloni-us, Triphan, and many more, of whom some of their Writings are yet entire, and there are fragments of the other which sometimes came to my hands. Few of the later times have Written of natural Magick, and they but a few things, as Albertin, Arnoldus de villa nova, Raymundus Lullius, Bachon, Apponus, and the Author of the Book to Aiphonfus, let forth under the name of Peccettrix, who notwithstanding together with naturall Magick mingleth much superstition, as also the rest have done. The fame.

There are also other very wife Imitators of Nature, and bold Inquisitors, who without naturall virtues, only by Mathematical Arts, dopromise to call in the influ-

Book

nuc!

contr

di dat

ports

YUS

COLL

Was

Gretia

Do

and Per

100

just

DAY.

ton Cox

100

100 tho

民日 1 DO Zi to iks H th

m

H

姐

ences of the Heavens, and thereby to produce works like unto nature, as bodies going or speaking that have no naturall virtues. Such was Archina his wodden Pigeon, which flew, and Mercuries statue that spake, and the Brasshead made by Albertus Magnus, which is reported to have spoken. Beeting a Man of excellent judgment was surpassing in these things, a very learned Man to whom Cassiadorus Writes thus about it. Thou failt he halt a defign to know high matters, and to work miracles. Metals roar by the skill of thy Art, and make a greater noile then in Diomides Tower, a Brazen Serpent hilleth: Birds are counterfeited, and those that have no voice of their own, fing sweetly: I can say little of him who imitated Heaven, I think that is spoken of these Artificiall things which we read in Plato, Lib. 11. de Legibu. Art is given to mortall Men, that they should produce some things afterwards, not that are partakers of truth, and of Divinity as it were, but some Images like to them, and Magicians, bold Fellows have proceeded to far as to attempt upon any thing, that old and ftrong Scrpent being their greatest helper who promileth knowledg, that they like Apes strive to imitate God and Nature. The same.

Of Inchanting Mugick, Chap. 6.

There is also another fort of natural! Magick which Men call Witchcraft; which

is performed by Cups, love Potions, and many Bewitching Medicaments, fuch as Democritus is faid to have made, that Sons good and fuccesfull might be begotten: and another how to understand rightly the voices of Birds, as Philostrains and Porphy-

rimfay of Apolonius. Also Virgil Ipeaks thus of some of Ponius:

With these I saw Meris a Wolf be made And Souls from Graves to rife, and to invade, Corn that was fown, and carry it from thence Unto Some other place .-

And Pliny reports that one Demarchus a Parafite, in factifice which the Arcadians made to Jupiter Lycaus, of Men, eat the guts of a Child, and turned himfelf into a Wolf : for which cause St. Angustine thinks, that from the changing of Men to Wolves, Pan Lycaus and Juniper Lycaus had their names given them. The fame St. Augustine relates, That whilst he was in Italy some Women-Witches, like to Circes, giving an Inchanting Medicament to strangers in Cheefe, did convert them to Horles, and when they had carried fuch burdens for them as they pleafed, then would they convert them into Men again, and that this thing befell at that time one Father Prastantim: But that no Man may think these things to be madness and imposfible, let them remember what the Scripture faith of King Nabuchadonozer, changed fible, let them remember what the Scripture faith of King Nabuchadonozer, changed into an Ox, and to have fed upon Grafs feven years, and at last by Gods mercy to have been made a Man again: whose body after his death his Son Evilmerodat gave to Vulturs to be devoured by them, least he should rife again from death, who so lately had from a Beast become a Man again. Exodus speaks many more such things of the Magicians of Parach, but of those, whether they were Magicians or Enchanters the Wileman speaks thus, Thou O Lord didst abborthem, because they did by their sorceries work terrible things in thy sight. Moreover I would have you to know this, that these Magicians did not only search out things naturall, but also such things as accompany Nature, and do after a fort sorsake it, as motion, numbers, sigures, sounds, voices, consents, lights, and the affections of the soul, and words. So the Psylli, and the Marse, ralled Serpents, and others by other means treading them down, did drive the Mari, called Serpents, and others by other means treading them down, did drive them away : So Orphens by Mulick allaid a Tempest for the Argonants : and Homer faith that Vliffes had his bloud stopt by words; and in the Laws of the twelve Tables there was a punishment inflicted upon them who had used any Enchantment upon Corn in the Fields; that there is no question but Magicians by words only, and affections, and fuch means, did produce fome wonderfull effect, not only in themselves, but upon other things: All which things they supposed did not otherwise infusean imbred force into other matters, and draw them unto them, or drive them from them, than the Loadstone doth Iron, and Amber Chaff, or as the Diamond and Garlick hinder the Loadstones operations, and so by this graduary concatenation and Sympathy

The state of the s

lowa,

Ditto

ok that

如如

D CONTR

min.

Popo-

TOTAL .

20 10

e fame

MCE 100

10000

the

DE CE

mu-

t dract tria co

100

mi

25 20-

西山

Harr Talls

THE REAL PROPERTY.

2000年

Sympathy of things. Jamblichus, Proclus, and Synefius confirme from the opinion of Magicians, that not only naturall and celeftiall gifts, but, also intellectuall and divine gifts may be acquired; which Proclus in his Book of Sacrifices, and Magicians confesseth, namely, that the Sympathy of these things, the Magicians were wont to call forth Spirits. For some of them proceeded so far in this madness, as to suppose that by divers constellations of Stars, and intervals of times, and some rules of proportion being observed as they should be an Image framed by the influence of the Heavens, should receive both life and understanding, whereby they that came to ask counsel of it, should have an answer given them, concerning Secrets of hidden truths. Whence it appears, that this naturall Magick sometimes was converted into Goetia and Theurgia, and of times by the fraud of Divels Men were ensured in errors. The same.

Of Necromantick Goetia. Chap. 7.

The Ceremoniall kinds of Magick, ate Geetia, and Theorgia. Goetia was begun by holding commerce with unclean Spirits, in rites of wicked curioficy, unlawfull Charmes, fitted for execrations, and it was forbidden and banished by all Laws. Of this fort are those whom we call at this day Necromaneers and Witches.

Such Men whom God doth bate, Heavens defame Born to do mischief, who the great Worlds frame, And Laws of the fixt Stars pervert, they know To turn things topsie turvy, where they grow, Rivers and Heavens course to stop devise, Mountains they turn, rable Earth above the Skies.

Thele are they that call up the Ghofts of dead Men, and fuch as the Ancients called Apodor, which bewitch Children, and make them speak like Oracles, and carry Devils with them to consult with, as we read some such thing concerning Socrates, and fuch as it is reported that feed Spirits in Glasses, by whom they fallly fay they do Prophefie. And all these proceed two wayes, for some of them study to call up and to command evill Spirits by some virtue, chiefly of divine names whereby they Conjure them : for fince every Creature feareth and reverenceth the Name of him that made them. It is no wonder if thele Charmers, and Infidels, Pagans, Jewes, Saracens, and all prophane Persons, or Sects, do bind the Devils by invoking the Name of God. But others most wicked, who are most to be abhor'd, and no punishment is bad enough for them, submitting themselves to the Devils, do Sacrifice to them and adore them, and are guilty of Idolatry and most base dejection. Which faults though the former are not guilty of, yet do they expole themselves to manifest dan-gers; for the Devils being commanded by them, do obey, that they may deceive those that are in errors. And from this stinking Art of Charmers, that makes a fair thew, all those Books of darkness came, which Upian the Lawyer condemns as not fit to be read, and faith they ought prefently to be burnt. Of which fort one Zabulus who was given to unlawfull Arts, writthe fielt as it is reported, after him one Barnabas of Cyprus: and to this day there are Books carryed about with falle Titles, under the names of Adam, Abel, Enoch, Abraham, Solomon; also of Paul, Honorius, (3prian, Albertus, Thomas, Hieronymus, and of one Eboracenfis, whose Trifles were followed foolishly by Alphonsus King of Castile, Roberties, Anglieus, Bachon, and Apponas, and other Men very many of corrupt wit. Moreover they have made not only Men, Saints, Patriarchs, and Angels of God to be Authors of fuch wicked Opinions, but they brag of Books written by Raziel, Raphael, Angels of A-dam and Tobias. Which Books, who ever shall look acurately into them, and confider their Rules and Precepts, their Ceremonies, Customes, the Words and Characters, the order of making them, the ablurd Phrase, will plainly discern that they are only meer toyes and Jugglings, that are contained in them, and were invented in thele later times by Men who were totally ignorant of ancient Magick, and by fuch who were the Artilts of most desperate devices, borrowed from some prophane obfervations, mingling some Ceremonies of our Religion therewith, and inferting

Book.

出土

days for the state of the state

Who

Ren

thei

3010

010

Ia

fory

with Den

your read Crow

Fath

Ser and the ser of the state of the series o

Mana

100 Box

fome unknown names and figns to terrific ignorant and rude Men, and to amaze the Vulgar, and fuch who understand not found Learning. Yet for all this, these Arts are no Fables; for if they were not reall, and that many hurtfull and strange things were done by them, Divine and Humane Laws had not to feverely for bad them, banishing them from the Earth. But the reason why Charmers use only those evill Spirits is this, became good Angels will hardly appear, for they wait for Gods command, and they hold no commerce with any Men, but those that are pure in heart, and holy Men: but the wicked Angels are eatily called forth, being fraudulently favourable, and faining themselves to be Gods, being alwayes ready at hand to deceive Men, that they may worship and adore them. And because Women are more greedy of Secrets, and not so cautelous and more subject to superstition, and are more easily deceived, therefore they shew themselves more ready to wait upon them, and they do strange things, as Poets write of Giree, Medea, and others, and Pliny, Tully, Seneca, Augustine, and many other, as well Philosophers as Catholick Doctors and Historians testific the same, and so do the Scriptures also. For in the Books of the Kings we read, that a Woman Witch of Endor, called forth the Ghoft of Samuel the Prophet, or some evill spirit that appeared in his likeness. Yet the Hebrew Doctors say, which also Augustine to Simplicianus doth not deny, but that it may be possible, that it was the true Spirit of Samuel, who might easily be called back again, within a full year after his fouls departing from his body, as Inchanters teach. Also Magicians and Necromancers suppose that it may be done by some naturall faces, and sympatheticall bands, as we handle it in our Books of occult Phi-Therefore the Ancient Fathers who were skilled in spiritual matters, ordained not without cause, that the bodies of the dead should be buryed in some Sacred place with Candles burning about them, water sprinkled on them, and to cense them with Frankinsence and sweet sents, and should be purged with Prayers, so long as they stood above ground. For as the Hebrew Maiters say, our whole body and carnal part, and whatsoever that is ill disposed in us that rests upon the stelly matter, is lest behind for the Serpent to feed upon, and as they call him, for Azazel, who is Lord of the flesh and blood, and is Prince of this world : and in Levitions is called Prince of the Wildernels, to whom God faith in Genefis, Duft falt thon eat all the dayes of thy life; And Ifaiab, Dust is thy bread, that is our created body of the dust of the Earth, so long as it is not fanctified and changed into a better state, that it belongs no more to the Sergent but unto God, and is made spirituall of carnalla as St. Paul faith, It is fown a naturall body, it shall rife a spirituall body. And ellewhere, We shall all be changed, because many shall be left behind to be the perpetuall food of the Serfent. Wherefore by death we lay down this filthy and loathfome burden of the flesh, which is the Serpents meat, to receive it again hereafter in a better condition, changed into spirituall, which shall be when the dead rife. And it is already accomplished in those who have tasted of the first fruits of the Resurrection, and fome have obtained this during this life, by virtue of the Spirit of God, as Enoch, Helias, and Moses, whose bodies were changed into a spirituall Nature, that they should not see corruption, and were not left as other Carcases are, to be the Serpents food. And this is that Dispute that Michael had with the Devil about the body of Mofesthat Jude fpeaks of in his Epiffle: but this shall fuffice concerning Goetia and Necromany. Of Theurgia. Chap. 8.

But for Theorgia many think it not to be unlawfull, as if this were governd by God and good Angels; when as often times under the Names of God and of good Angels, it depends upon the frauds of wicked Devils: for not only by naturall forces, but alfo by certain Rites, and Ceremonies, we procure and draw to us those Celeftial and Divine virtues, whereof the old Magicians have written great Volumes, and given many Rules. But the greatest part of all the Ceremonies confists in a double clean-lines; first of the Soul, next of the body, and of such things that are about the body, as the ekin, clothes, houses, vessels, utensils, oblations, offerings, sacrifices, the cleanness whereof disposeth Men to the society and view of Divine matters, and is chief-

ly

INY

more dar

四四四

山山

tin the

Chie

I Die

at the

AULUS

of Phi-

15 OK-Sured

to certic

Act, in L

in ut

nor of

rmin

inc

Bal-

dian,

Exith

E DOT

e God

lasi

ly required in facred things, as If siah speaks, well you make you clean, take away the evill of your doings. But filthings which oftimes infects the Ayr, and Men, troubles that most pure influence of Heavenly and Divine things, and drives away the clean Spirits of God. But sometimes unclean Spirits and powers that deceive, that they may be worshipped and adored for Gods, require his cleanlines also : Wherefore here we have reason to be very cautious, whereof I have discoursed at large in my Books of occult Philosophy. But Porphyrins disputing much of this Thenrgia, or Magick from Divine causes, concludes at length, that by divine consecrations, a Mans mind may be made fit, to receive good Angels and Spirits, and to fee the Gods. But he denyeth absolutely that by this Art, a Man can returne to God; Wherefore of this rank are the Art, Arniadel, the Art notary, Paula Art, the Art of Revelations, and many such superstitions, which are so much the more dangerous, as the ignorant hold them to be more Divine.

A most safe counsel against the Machinations of the Devils. Chap. 9. A most lase counsell against the plots of the Divels, may be seen in this Written Law of preservation; I shall add the words of Chrysostome in Setting it down; As, faith he, none of you will go into the Market without your shooes and garments, so never go abroad untill you have confulted with Gods Word; when you are passing over the Threshold of your dore, repeat these words, Satar I defie thee, and O Christ I am united to thee. Never go forth without faying these words, this will be a staff for you, and your Armour, and impregnable Tower, commending your felf to God with this faying, you may go abroad, for so no Man that meets thee, nor yet the Devill can hurt thee, when he difcerns thee alwayes thus armed. And here teach your felf these things, that when you hear the Trumpet found, you must be ready in arms, and raising a Trophy against the Devill, you may receive a Crown of rightcoulnels, which we must purchase and gain by the savour and bounty of our Lord Jesus Christ, by whom and with whom, be glory to the Father, and also power and honour to the holy Ghost with them, for ever and ever.

What must be done when Men are hindered that they cannot lye with

Igmarus Archbishop of Remes, writes thus concerning copulation hindred by the works of the Devill. It by forcery and Witchcraft, and fuch damnable Arts the Secret but never unjust judgment of God permitting it, and the Devill preparing it, a man cannot render due benevolence; fuch Persons are to be exhorted, who are fallen into fuch mischiefs, that with a contrite heart, and humble spirit, they should confess themselves to God, and to the Priest sincerely, &c. In a Controversie, where the Husband is accused to be unfit for copulation by reason of Witchcrast. Molitor Writes, That in the counted of Constance it was decreed, that first he should be enquired into by the Phylicians, whom the Laws determine to be bewitched, or over cool'd, whether there be not some other cause of his weakness : and then that for three years the Wife should after this live with her Husband, and in the mean time he should make tryall of his abilities; and that they should freely give almes, and fast often, that God the Author of Matrimony might take that mischief from them; A decree worthy to be recal'd for our imitation. Wierui.

Another remedy of the same evill, from the same Author.

There is one reports that a Noble Man of his Countrey swore that he enchanted a Man that he should never lye with his Wife, and that he was restored by a certain dexterity, whereby he confirmed the perswasson of another, bringing to him the Book of Gleopatra, which he had written concerning the uglinels of Women, and he read the place where it was prefcribed that one that was so charmed should have his whole body annointed with the gall of a Crow, mingled with Oyl of Sefamam, and that the remedy was certain. When he heard this, he believed the words of the Book, and did fo, and he was prefently cured. For as one is hurt by wicked credulity, fo it is credible he may be restored by the same.

Exerci fins

5004

aton

total)

Sal

神山!

heard

概23

hard

Ital

MICT.

invi

Tas.

Way

Dod hero

man their

Hav Hav box

201

the

ALT.

coun

Girl Gain

Aga

神 報 被 放 放 放 放 放 的 的 的

Exorcifms when, and how and by whom they must be performed. Chap. 11.

Moreover if this calamity doth not pass away by the forelaid meanes, and the work of the Devill remaines, one may rebuke him by the Doctrine of Christ Mark the 16. that those who believe in his name shall cast out Devils : Wherefore by the example of the Apostles of the more pure Christian Church, one may cast this Divell out in the name of Christ. But the Minister being zealous, and relying upon the testimony of a good Conscience, having that peculiar gift of the holy Ghost, namely of casting forth Divels, and being armed with the sword of the Spirit, and on all fides fenced with the divine Panoply, and taking with him above all the buckler of Faith, whereby he may extinguish all the fiery darts of the Devill, that he may not hear from Christ with Christs Disciples who could not cast out a Diveil, O perverse and incredulous generation, how long shall I be with you? how long shall I suffer you? let him firmely adhere to this promise: Amen I say unto you, he that believes in me, he shall do the works that I do, and greater than these, because I go to the Father, and what soever you shall ask the Father in my name, I will do this, that the Father may be glorified in the Son; If you ask any thing in my name I will do it. Luke also writes that seaventy Disciples returned with joy to Christ, saying; O Lord the Devils are also subject to us in thy name; but he said unto them, I saw Satan falling from Heaven like unto Lightning; behold I give you power to tread upon Serpents, and Scorpions, and upon all power of the enemy, and nothing shall burt you. Southername of Christ all things in Heaven, in Earth, and Hell bow the knee; and there is no other name given to Men under Heaven, whereby they may be laved. By this only word of the eternall Father, all things were created, Heaven and Earth and all things therein contained. At his pleasure all the Angels come to nothing; At the coming of Christ they all trembled and fled, and in respect to his command, as many Devils that held miserable Martals in close custody were affrighted. The Disciples that believed in this Name cast out Devils. The evill Spirit in Macedonia, St. Paul cast forth out of a Maid that was possessed with a Devill, by these words : I command thee in the name of Jesus Christ to go out from her, and he went out the same instant. So St. Peter commanded the Spirits to come forth, who only defired one dayes relpite to flay in the bodies they possessed; as Clement testifies. I read in the Presbyter Hieronymus, in the life of Hilarion an Hermite of Palestina, of one who was a great Man about Constantinus, who was born in Germany of French Parentage, and from his tender years was possessed with a Devill : whereupon he was brought to Gaza to Hilarion, and he expounded both in the Syrian and the Greek Tongue (which he had never learned) the manifold causes of the being possessed; to whom the holy Man answered; I care not how thou didst enter, but I command thee to go forth in the name of our Lord Jefus Christ. In this name Simon the Apostle broke the Image of the Sun, and Jude of the Moon, the Devils being driven forth in the forms of Blackmores. St. Thomas drove forth a Devill out of the Idol of the Sun, and St. Philip drove forth a Dragon in Seythia under the statue of Mars; and St. Ancrew drove out feven Devils in the shape of Dogs that lay under the Monuments by the way fide, and that did much hurt to Paffengers; to we read that Sylveffer thut up a Dragon in the Capitoll, and St. Philip drove away the Leviathan : John the Evangelist conquering the malignity, drove forth a Devill, who had remaind in the Temple of Diana two bundred and fourty years, with these words; I forbid thee in the name of Jesus Christ of Nazareth, that thou stay here no longer, and presently he went from Ephefus. Wherefore by the command of Domitian, the holy Man was banished into the Island of Pathmos; when therefore Cynops who was the chief Magician there, in the Town of Paza, raged against the Doctrine of John, and the miracles he did in the Name of Christ, and by the falle acculations laid against John by the Priests of Apollo, made the People mad, and by his own Conjurations called them off from John, bragging that he also could raise the dead, and Divels also came out of the Sea in the shape of dead Men; At length Cynops said to John, come if thou darest to Parlimot, and see what power I have, and you will admire more; whereM

IT OF

W.

372

T OR.

(AL

249

also De

京山田

Tree

TES.

Ulal

STA.

der.

ordbeter

SEA D

id it

thin

mage

TIS OF

5, 251

TO THE

inte

Het in

南海

IL MI

Mar

拉勒

whereupon John returned with all the company, commanding those three Devils who newly arose in the shape of dead Men, that they should not depart: Wherefore Cynops clapping his hands, and a terrible noise being heard at Sea, leapt into the Sea again, and vanished, the Devils crying in the mean while, Great art thou O Cynops, and no man beside thee. But John in the mean while prayd unto the Lord, that this Magician might live no longer, and prefently a vehement murmuring was heard at Sea, and great storms coming on upon that place where Cynops leapt in, he was never feen more; and the Devils who stood in the formes of Men, as if they had been but now railed from the dead, were Conjured by an Apostle of God, saying; I command you in the name of Jesus Christ crucified, that you for sake this Island, and never come bither again, and they presently vanished from them all, expecting Cynops in vain whether he would rife out of the Sea any more. Thus it appears how much the name of Christ hath profited true Christians, and imitation bath helped them, This is Conjuration, this is a most vehement and strong exorcisme, this is a certain way to drive Devils from us. This is a fhort for me: these are the Characters by which we call upon Omnipotence, to do things above the common way; this is true Doctrine, and a folid foundation; this is the Philosopoers stone, and far more excel-lent than that, concerning which Chymists deceived contend so much; this is the corner stone, by which all the building is firmely knit together. These are divine Testaments and Monuments of facred things; these are the vestments of a true Priest; thele are the pure Enfignes; thele are our Ceremonies in casting out of Devils, content with a few things, of eafieuse, and with mean apparel. This Art is higher than Heaven, deeper than Hell, free from danger, an enemy to shadows, a contemner of Apparitions, a hater of Idolatry, that wants neither Frankinsence nor Wine, that bears rule over all Ghosts, Hobgoblins and Specters, that despileth all Sepulchres, and Apparitions of the Dead, and vain fears, and occurrences of the night, and meetings of infernal Spirits, (as Capnion faith, driving them away with boldness, conquering fate and nature, and whatfoever we rightly can defire, if we observe the forme given to us by our Master, and performe it without ceasing, and be not wearyed in fullfilling of it. Christ by his word cured all maladies, and cast out Devils; If therefore you would work securely, you must needs let before you that counsel of St. Paul, Whatever you speak or do, do it all in the name of our Lord Je-(us Christ. This is a lafe Medicament, and it is thevery panacæa, or rather health, and the very foveraign remedy of all infirmities. Therefore Nazianzen in his defence faith thus rightly, that the Divels tremble when the Name of Christ is called upon. Against this no delusions of making Men impotent, no charmes of Witches, nor any works of the Devill can hold out a moment, but they vanish in a trice. Wherefore Lastantins speaks most true, that the Devils fear just Men, that is, those that truely fear God; that being adjured in his name, they go out of bodies, and being forced by their words, they not only confess themselves to be Devils, but also tell their names, because they cannot lye to God by whom they are Conjured, nor to just Men, by whose voices they are frighted. Wherefore oftimes making great houlings and cryes, they cry out that they are buffeted, that they burn and are ready to depart. We may fee more clearly than at noon day, that in this Method of curing, that is founded upon the holy Scripture, there is no opinion of blasphemy fomentcd. The Same.

Although sometimes there are Physicall causes of their stensie or madness, yet it is certain, that the Devils do enter into some Mens hearts and make them mad, and do torment them; because it is a truth that some men are ofttimes cured without Physicall remedies. And many times these diabolicall spectacles are prodigies, and fignifications of suture events. Above twelve years since there was a Woman in Saxony, which had never learned any Letters, yet when she was hurried by the Devill, after her torments she spake in Greek and Latin concerning the suture War in Saxony. The meaning of her words was this; There shall be great samine upon the Earth, and anger upon this People. Above sixteen years since there was a young

Book X

Otton

faid

ting things

Holy Wol,

(000)

anido de Co

dayall Tost

故口

way, feet or

that

SPECTE .

vil it ferror please drow thing feater from their with the tree of a their the

IV:

Maid in Marchia, who snatched hairs from her Cloaths, and those hairs were turned into Money of that place, and the Maid devoured them with a great crashing under her Teeth, for a long time: and those appearances of Money were sometimes studdenly snatcht out of her hands, and they were Money indeed, which some Men keep to this day: and now and than the Maid was cruelly tormented, but after some Moneths she was freed from that disease totally, and she lives yet in good health; There are frequent Prayers of good Men for her, and of purpose all other Ceremonies were admitted. I heard that there was a Woman in Italy, which also never learned to read, who when she was tormented by the Devil, being asked which was the best Verse in Virgil, answered:

Discire justitiam moniti & non temnere Divos. Admonish d justice learn, not to contemn the Gods.

Concerning those miserable Maids that I hear to be tormented at Rome, I think they were tormented by the Devill, and they signifie the punishments of Italy in respect of other Nations: and I doubt not but by sincere Prayer of Pious Men that mischief may be removed, and the Devils may be cast out. They also shall do well, that are not Epicures, but who rightly call upon the Son of God our Lord Jesus Christ, that they seriously command those Devils to depart from those miserable Maids, and to Preach to the Catholick Church concerning the suture judgement of the Son of God, when the malice of the Devils shall be made manifest, and concerning the punishment of the Devils. But this must be done in earnest, and all Ceremonies laid aside, of Bread worship, and holy Water, and salse invocations used by Cornelius Agrippa, or Petrus Aposensis, and such companions. I know many examples wherein it is most certain that holy Prayers have done good. Philip Mentals.

If Cattle suffer any preternaturall dilease, what must be done. Chap. 13. But if Cattle be supposed to suffer any preternatural malady (which yet is most hard to know, because oftimes in pasture grounds they lick up venome, or draw it in with their breath.) First of all you may give them a Medicament against Poyfon, or other like difeases, and do all things else, which from natural conjecture and Art, (whereof Vegetius concerning the Fertiours Art, and Physick for Cattle hath written most learnedly and largely in four Books, and so have Columella, Cafar, Constantinus, and many more modern Authors) we think to be good, and then wait with patience for the event. But if those things help not, but that the herd of Cattle dyes we must fer Jobs patience before us as a Glass to look into : and what calamity or loss we sustain, we must acknowledg it proceeds from God, who giveth and taketh at his pleafure, nor must we wickedly run to Southfayers, or Diviners, or Witches, which is contrary to the express Word of God, which things by a Sacrilegious imitation feem to confirme and approve the Idolatry of M. Cato, by Ceremonious purging of the fields, by folemne Sacrifice, with words and vows dedicated to the Earth, that the may nourish the Trees that are newly set : intreating the Trees also that they will be transplanted and grow in some other place; begging also of Rapes when they fow them, that they will be good to him, and his Family, and his Neighbours : pouring out Prayers to Mars to keep the Field and Cattle, Alfo we read in Vegetini of an excellent perfume for the Difeales of Cattle, which though he writes that this will purge Creatures by Ceremony, as he was ill perswaded by other Men, to take away the Witchcraft, and drive away Devils, and stop Hail; yet he adds, that by its smell, namely a natural cause, it hath force to relift the diseases of Men and Beafts, and to purge the Ayr. It is this, Take Quickbrimstone two pounds, Bitumen of Indea one pound, Opopanax, of the prickly Herb Panax, Galbanum, Castoreum, fresh Orris, of each fix ounces, salt Armoniae two ounces, Salt of Cappadorea, Harts Horn, male Jet stone, and female, of each three ounces, Bloodstone, Loadstone, Litharge, of each one ounce, Sea Horse stones, Tails, and Hooss, of each in number seven : Sea Grape three ounces, Harts Marrow, Cædar Oyl, liquid Pitch, of each three pound, Cuttle bones seven, Gold half an ounce, Gold XAL

Hu-

TO THE PARTY OF TH

山地

and a

ing open

विश्व विष्य विश्व विष्य विश्व विष्य विश्व विश्व

5. 1

M. MOTH.

中心的

nmof

drawn di Poy-

nichne

er Catile

CO WAL

eticone

may a

intes,

BOUS F

ed to the test alle

s Nega-

KWIN

her Mes

htada

SOE ME

pounds.

2000

Color Color

Ore one Carrat; mingle all these, and with fire make a smoke. But if you cannot find the stones mentioned, or cannot buy them being too dear, the rest will serve turn. Yet in the mean time we must enquire carefully, whether there be not some strange thing bred there, or some Wasps ness; as I remember one Latamas did in Hilland, who coming into the Stable, hid secretly in the Manger the dung of a Wolf, by the smell whereof, as by the presence of the devouring Enemy, by reason of antipathy, the Cattle were frighted as if it had been Witchcrast, and ran up and down here and there, and seemed to be hurried with unusuall sury, whereupon the Countrey People being amazed, supposed it was some Witchcrast, whereupon they all ran to him that acted this part, who stood and observed it as out of a Watch-Tower, and was samous for curing those that were bewitched, who concealing the matter of the Inchantment, namely the Wolfs dung, being secretly taken away, he soon cured the Cattle. For he did it by taking away the cause, and the effect ceased; and thus he did all he did in his Art: but good Men admonished him, that he should renounce this fraud, least he should deservedly suffer for a cheat. John Wierus.

Of naturall seeping Medicaments, wherewith sometimes witches are deluded, with their Unquents and some Soporiferans
Plants, that exceedingly trouble the

Sometimes to fee forth Witchcraft, some natural Medicaments are applyed, wherewith when they have annointed themselves, and rubbed it in, as the falle Devill instructs them, the Witches sitting by the fire side, believe that they shall pre-sently slye abroad, and wander far and wide into the Ayr to Dance, and enjoy most plealant Banquets, Copulation, and most curious lights: whereas that great deluder makes them to Dreame so, when as these ignorant People by reason of the drowzy Unguent only, are fallen into a deep sleep, and a Lethargy. That these things may not be taken for lies, I think sit to allead ghere, what that most ingenious fearcher into naturall causes that are hid, John Baprist Porta of Naples, writes in his second Book of Naturall Magick. Such a cursed desire, faith he hath invaded the minds of Men, that they abuse those things which nature hath freely given them for their good, that with many of thefe heaped together, they compound the Witches Oyntments, which though they mix a great deal of superstition therewith, proceeds from natual causes, as one shall find that looks into it; and I will relate what I had from them. They take male Childrens fat, boyling them in a Brass Kettle with water, making thick that which last of all links down, this they lay up for use continually, with this they mingle Smallage, Wolfs-bane, Poplar buds and Soot; or otherwife thus : They mingle together water Parsly, common Acorns, Cinquesoyle, bloud of a Bar, fleepy Nightshade and Oyl, (for though they mingle divers things, yet they differ little from them) then they first rub well all their parts, untill they be very red, and the heat called back, and rarified, which was cold, and afterwards an-moint them with that Oyntment; They add the fat to relax the flesh, and to open the Pores, or else they put in Oyl instead thereof, that the sorce of the suyces may penetrate into the parts, and that the Unguent may be better and more usefull; I doubt not but this is the cause. So in a clear Moon shine night they seem to be carryed through the Ayr, to Banquets, Musick, Dancing, and to lye with fair young Men, which they most long for: Such is the force of Imagination, and the custome of impressions, that almost all that part of the Brain which serves for memory is filled therewith: and as they are very credulous by nature, they take impressions that change their Spirits, because they think of nothing else almost night and day: and they are helpt forward also, by feeding upon nothing but Beets, Roots, Cheftnuts, Pulse. Also Cardan tels us of an Unguent of Witches, almost like to this, and after they are annointed with it, they seem to see wonders, for he speaks there of things that are not, and yet feem to be. It confifts of Boys fat as they fay, juyce of Smallage, Wolfs-bane, Cinquefoyl, Night shade, and Soot; but they are sup-posed to sleep when they see these things. But they hope for to go into Theaters, Orchards,

1010

tra

如為

の前に

Deri

1000

DC:

Litt.

bou

年七

100

att plo

WHE

Can

品品

NI NI

in

Wi Mi

00

Orchards, Feafts, and to hold commerce with fair young Men, Kings, Magistrates in brave Apparel, and to fee all things they delight in, and they suppose that they enjoy it. They see also Devils, Crows, Prisons, Delarts, and Torments; these are then the causes of violent Dreames: hence it is also that he saith they live upon Smallage, Chestnuts, Beans, Onyons, Coleworts, and Pulse, all things that provoke turbulent Dreames. So Magicians when they Dreame, suppose they are carried into divers Countries, and therefore to be affected diverfly, each according to his temper, the tinguent helping it forward. And I will here add an Oyl that is not unlike to the former, to cause a long and deep sleep. Take seeds of Darnel, Henbane, Hemlock, red and black Poppy, Lettice, Purflane, of each four parts, berries of fleepy Henbane one part, make an Oyl of all these according to Art, and for every ounce of this Oyl, mingle one scruple of Opium of Thebes. Then take one scruple or one and an half, and it will make a Man sleep two dayes: I would willingly add here a Liquor, that one drop of it doth wonderfully provoke fleep, or two drops being given inwardly; or elfe fo many drops of the Liquor, as you would have a party to flee, howers; but it is best not to repeat. Some of the simples of it are Darnel, Moonwort, Opium, Henbane, Hemlock, kinds of Poppy, surious and fleeping Nightshade, Mandragora, water Lillies, and such things, which are found and are not unknown to those that are skilled in naturall things, whereby the underflanding is either taken away or elfe troubled : that he who uleth them, both in his speaking, hearing, and answering will appear to be mad, or he will sleep deeply for fome dayes : but I had rather conceal here the ule of them, and the Waters, Wines, Powders, Troches, Oyls, and other things, I think not fit now to teach you how to make them, least I should seem to some to give Menoccasion of doing mischiel. Wierus.

That the Devil may feem to answer. Chap. 15. The Devill will give answers thus; A Statue is made of Copper, like a Man with a Crown, and Cloaths of Gold, with horns upon his head, face, feet, and hands being cole black, and with Talons upon his hands and feet like to a Griffin; Put into the right hand of this Image an Iron Scepter well Guilded, and Touched with a Loadstone, let this Image sit upon a Throne of shiming Brass or of blew colour, place about the whole Fabrick some Pillars of Glass, as I have had such a one in my hands that was folid, or it you pleafe let it be hollow Glass fastned to the Throne. Then hang this Engine by a fmall Thread perpendicularly, that you may turne it about as you will; Then at the top of a fine Wand let in a piece of a good Loadstone secretly, and then putting the Wand to the parts question the Image; unknown Characters, and marks, and figures, are fet upon the Wand; Alfo a Loadstone may be hid in a Gold Ring; By the same way we place a statue upon the Altar, made of very light matter, and in it an Iron touched with a Loadstone. But the Loadstone must be placed on that fide of the Wall, that when the Iron bends that way, the face of the Image may respect the sacrifice: and it is very probable, that by such Arts the wily Prieftsof old did often delude the People that were very ignorant and not acquainted

with fuch Jugglings. Cardan.

A statute that may seem to be carryed which way it please. Chap. 16.

To these so many famous operations, add this, that a Loadstone put under the Table, will carry about nimbly an Iron laid above the Table equally ballanced, with no little wonder to the standers by. A Bason of Wood is set upon the Table full of Water, and a small Ship swimming in it, made of very fine Boards, without Nails, but it is only glewed together, at the head of the Vessel sits a fair Woman Rowing the Boat with bending the Oare, so that the Oare moves with the motion of this Boat, and with that the Womans body, under the lowest part of the Womans soot, there must be a Nail with a broad head stick forth of the Plank, and that broader part is called the Cap, it must be so fasined that it may lye hid under the fore-Castle and yet not touch the water; then take a piece of an excellent Loadstone, and set it into the head of a Wand of Firr, or Horn, that the stone may not be seen when it is put under the Plank, and so the Loadstone being put under the Nails head, the Boat

will

AVI

京 田 田 昭 中 古

Mar.

202

Mile

TE TE

DOG-

phylog

THE .

1 bow

**新** 

SIX-

pint,

tinti

Theu

CLEO

alto,

dn1

light.

off be

改位

KEN

in the

e Nath

OWIN

O IN THE PARTY NAMED IN

dis

218

趣

will be carryed whither you will as you move the stone, and they that cannot see the Wand will think that the Image is alive, and Roweth the Ship whether she pleaseth, and seems to hear and to Row up and down; the matter doth not pass to it, but something like to a spiritual substance, for the Table would hinder the motion of it, because two bodies cannot penetrate one the other. Cardan.

of it, because two bodies cannot penetrate one the other. Cardan.

A stante that killed those that toxehed it. Chap. 17.

It is wonderfull that Boeims relates, for he saith that when King Chennetus had killed Crushlinus Son of Fenella, and also King Malcolm Duffus and Kinsman to Fenella; he commanded to make a statue by wonderfull Art, in whose hand there was a Golden Apple full of the most Noble Jewels, which when any man touched, he that touched it was presently stricken through with many Darts, and was accessary to his own death. Wherefore by that deceit he killed the King who thought nothing of it, when he had invited him unto the Town of Fetircarium: and having Horses provided, he presently got to the Sea, and escaped into Ireland. I understand that lately a Thief was so taken, who went to pick a Mans Pockets, for the Engine was sastened very strongly to his Pockets. Cardan.

A ftatue that alwayes looks toward the Sun. Chap. 18.

Iremember that I read how that in the house of Apis, there was an Image of the Devill, that would turn the face of it toward the Sun in what part soever the Sun moved: It will not be difficult for us to imitate that in any statue, if you look to the reason of a Clock with the Ropes and weights unseen, and it is more pleasant to see that sight, than to read of it the reason how to make it. Card.

Stones that will make one know future things.

It is evident that there are some stones, that held under ones Tongue, or tyed about the neck, or set in a Ring, will lead a Man rightly to divine and to foreshew surver things. But five things are necessary for this; First, That that Man be a naturall, for such will speak truth, are moderate, and born under Venus Planet. Secondly, That atthat time that Star bare rule: that also will be known by cogitations whether they are true or salse, and also by Dreames. Thirdly, That that stone move enthusiasses, that is, Religion in the soul. Fourtbly, That it agree in kind with that Star signifying Truth. Fiftly, That the stone be properly effectuall for it. And if when that Star rules, you have it about you, may be it will profit the more. Cardanus.

To divine.

So we read that the Ancients by certain naturall things were wont to divine concerning future events. So a ftone that breeds in the fight of the eye of an Hyana, held under ones Toogue, is reported to foreshew things to come. The Moon-stone called Selenites doth the same. So it is said of Anchitis that it will call forth the Apparitions of the Spirits above, and Synsehitis will call up the shades beneath. Like-wise the Herb called Aglaspiis, and Marmoritides, that grows upon the Marble stones, in Arabia on the Persian side, as Pliny saith, doth as much, and that Magicians use it, when they would call up Spirits, and there is another Plant called Theangelida, which Magicians drink to divine with. Aggrippa.

Another.

He that will forceell things was wont to have a fume applyed to flir up his phantasie, which sumes being agreeable to certain Spirits, fit us to receive divine inspirations: So some say that a sume of Linseed and Fleaseed, with the roots of Smallage and of Violets, will make Men see siture things, and is good for divination.

Of Geometricall Secrets. Chap. 19.

To find the circumference of the Earth.

Thus Men found out the compals and diameter of the Earth; For either by Eclipfes of the Moon they learned the distance of houres under the same equinoctial Circle, being equidistant: and when they had this, they got the knowledge of the distance of places by a Land Journey. For multiplying by twenty four the parts of one day, and divining by the houres of distance of the Moons Eclips, they

Bass

TO TO TO TO

四型活着 日日

you

000

1000

WIL

the mi

Wil

THE

HE HE

10

21 YO Su

found out the circumference of that Circle : then by a Geometricall demonstration, they attained to know the circumference of the Equinoctiall Circle which is the greatest, and of the whole earth; which multiplying by 7, and deviding by 22. they found out the earths Diameter exactly as needfull is. Or proceeding from the South full North, they augmented the height of the Pole one degree. And meafuring the way, they found 1587. Italian paces: and by these now we measure the diffances of places, and not by the paces of Ptolomey ; Wherefore multiplying 1587. by the degrees of Heaven 360 for it is divided into to many, we shall shave 31500. Miles. It we multiply this circumference of the whole Earth by 7. and divide it by 22. the Diameter of the Earth will be 10022. Miles, but it is folly to take this quantity so exactly; wherefore casting away 22. say that the Earths Diameter is 10000. Miles; but those that Sail are driven with many errors, Sailing of their own mind, not a direct, but a crooked voyage, and also being deceived by the uncertain and various force of the Winds, wherefore they have written that the compass of the Earth is far more. But this reason as it is most true, so it depends upon most certain experience, and it hath much helped the Spaniards, who understanding that so long and continued a Voyage was repugnant to the magnitude of the earth, they diligently found out their error, and they contracted it to a third part of the time and distance almost. Card.

How to find out the hour of the day when the Sun shines.

You shall find out the hour of the day at any time when the Sun shines by this rule. Turn your back to the Sun, and thrust forth your arm, and with your less hand placing your Thumb upon your fore singer, that the small shadow of the body of it may fall upon the palm of your hand, then place a Style or Gnomon under your Thumbs joynt, and consider the shadow that sals perpendicular to the superficies of the palme of your hand, for if it sals where the fore-singer joyns to the hand, it is either 24. or 8. if upon the top of it, 23. or 9. if on the top of the middle singer, it is 22. or 10. if on the top of the Ring singer, 21. or 11. if on the the top of the little singer, it is 20. or 12. if on the last joynt 19. or 13. if on the second joynt of the same 18. or 14. if on the root where it joyns to the hand, 17. or 15. In the beginning of the Table Line 16. but it is certain that this observation is not ex-

act. The fame.

If any one defire to describe the world upon a Sphere, he may do it easily and finely in five dayes by the words of Ptolomey. First make a Brais Sphere exactly round, thus : make a Brass Semicircle according to the quantity of the Diameter, and apply it to the Sphere on all parts; if it fit right every where, it is exactly round, where it exceeds, so much must be taken away, and where it is wanting, you must add to it; and when it is perfectly round, joyn it on both parts, and fet it in round Rings, that it may not turn about too loofely, nor yet too harfaly; after this describe the Equinoctial Circle with Gold very thin, equally diffant from the Poles, with great care, and divide it into 360. equall parts, and to every part make a diffinction, and to every five parts fet the number increasing by 5, and so fasten an immoveable Semicircle, that is equally joyned to the Sphere, to the place it relies upon, that when the Globe moves, that may fland immoveable : and divide it fo, that where it cuts the Equinoctial Perpendicular, from that point, let there be 90. equall parts diffinguished between both the Poles, that the whole Semicircle may be divided into 180. parts, with their feverall divisions, and numbers set down at every 5t. division : fo that the numbers begining from the Equinoctial, may terminate on both fides to 90. divisions toward the Poles. When therefore you will write the places upon it, seek for the number of longitude in the Equinoctial, and turning the Globe, set that number under the Meridian, and finding the latitude of the place in the Meridian, of one fide or other, by degrees and the parts thereof, just against that make a prick for that place, as it is in magnitude, and do so for all places. But through all the five degrees of the Equinoctial, you shall draw by the immoveable Miridian, Meridian Lines from Pole to Pole, which will be 36. Circles: but you shall mark them with a sharp point

WY

TATION

A & the

如此

Mante ad mes.

地位

等時机

dexby

9210-

NOOD IN

02527

be Euria

tua.

lo long

y di-

ando.

is nic

thand

ICT TOW

fins s

E HI

200

mot the

the late

MI CL.

S WILL

DIOS.

**STEEDIE** 

E STEEL

eitan

s diffe

MD 184.

00:00

50094 5, 600

or proper

point of a Bodkin, and also the parallels, and the beginnings and ends of the Climats, upon each half of the Globe that is made fast to a degree of the Meridian; and turning the Sphere about, untill it come again to the first point, you shall marke them well with a sharp lustrument. After this, you shall make all the Circles of Gold very small, except these of the Climats, which shall not be so small, and distinguish Seas and Rivers by a blew colour, Cities and Towns by red, Mountains by Silver colour, Hils and Wood by green, the Earth by gray, and set the names of them all over them in black. But you must observe one thing, that the forms of places must be distinguished in a threefold magnitude, The chief City in the biggest, common Cities in the mean, Towns in the smallest; and if you will distinguish Princes Dominions, compass them about with a green Circle; but that must chiefly be remembred, that you make use of the latest and the most correct Commentaries, and to use a decent magnitude, which is, that the greatest Circle may be as long as a Man. Cardanus.

To poyfe all things by four Weights.

If one desire with four weights to weigh all things, which are from 1. to 40. so that no other weights shall be wanting; you shall do it, if the first weight weigh one pound, the second three pound, the third nine pound, the fourth twenty seven pound; with these you may weigh all weights from one to fourty pound; as if you would weigh twenty one pounds, put in one scale twenty seven, and three in the other nine pounds; it you desire twenty pounds, put in one scale twenty seven pounds, and 3. and 9. and 1. in another; by the same reason you may weigh with five weights all weights from 1. to 121, namely by 1. 3. 9. 27. 81. Also by 6. to 364, namely 1, 3. 9. 27. 81. 243. Gemma Frisan.

Of Secrets in Arithmetick. Chap. 20.

To tell any number that any Man thinks.

A Man hath thought of a number which to find out do thus; bid him to treble the number he hath conceived, to take half from the treble number, then again to treble the quotient, and again to take but half of this. But if in the first halfing of it the treble number was odd, (for you must ask him that) bid him make it equaliby adding one to it, and then take half of it, for this addition keep 1, and for the second 2: when you bid him do so again: then bid him cast away 9, as oft as he can from your last number, and do you as often count 4, and then cast away what is more. Suppose one think 7, treble that, it will be 21, make it 22, half is 11, but do you keep 1, bid him again treble 11, and that will be 33, and again because you cannot take half but by adding 1, make it 34, half thereof is 17, keep you 2, for that, then bid him cast away 4, as oft as he can, and because it can be done but once, keep 4, for that: enquire no farther; if you kept 3, as you ought, add that to 4, and it makes 7. Gemma Erissus.

To discover to one athing that is hid.

If three diverse things be hid by three severals Persons, and you by Arithmetick as a Prophet, would tell every one what thing he hid, do thus. Let there be three things a, b, c, concealed in your mind, and keep them there in order, as first, second, and third; before they hide the thingse, cast blore them 24. Dice, and give to the first Man 1 into his hand, to the second 2 to the third 3 then place the three things in order, and say there when I go away, let one of you severally hide any of these things, which they please, but upon this condition, that he who hides a, the 1 shall take off the Dice remaining, which are 18. as many Dice as he hath already in his hand, but he that hides b, the 2, must take double as many, and he that hides c, the 3, must take four times as many, and let them leave all the remaining Dice upon the Table, or in some open place. Then the three things and Persons being fixed in order in the memory, let him go away untill they hide the things and consult together. Then come back again and see what Dice are left upon the Table, which are alwayes 1, or 5, or 3, or 6, or 7. If then there remain but 1, the 1, which are alwayes 1, or 5, or 5, or 6, or 7. If then there remain but 1, the 1.

action action behin

thebe

おおり

MON. inth COM

芸芸

1000 河口 Will abou plica

Con four than hen who here will be less to the total to the total to the total total

hid a, the 2. b, the 3. c. If 2. then the first hid b, the second a, the third c. You shall understand the rest by the Table here joyned. The same,

The remainder. The Dice.	The Perfons.	The Things.
1. She is to a management of the	1. 2.	å. b.
	3.	THE PROPERTY OF
2. 100 100 100 100 100 100 100 100 100 10	1,	b.
	2.	TO WOOD A. TO PERSON
	merch Moscus 3- cm Marke	TO COLUMN
3.	i.	a.
	2.	c.
	3-	b.
5.	AL MARKETTA TILE	p.
	2.	c.
	3.	a.
6.	I.	c.
	2.	4.
	3	b.
7-	I.	c.
	2.	b.
	3.	a.

To find out the scituation of the World, and to conduct a Ship to any part of the world by a Star Jeen, and also to find out the distance of places by a Geometrical way.

It is very easie to shew both on the foreside and backfide of the Astrolabe the place you would go unto; that it will perhaps be necedless to use many words about Far on the backfide of the Astrolabe, looking to the ends of both places from whence you come, and whether you go, observe the difference of longitude, and count this on the degrees of the frame toward either East or West, according to the scituation of either Countrey, and at the end apply the Geometrical quadrant, and then account upon that the distance from the Equinoctial toward the Pole, and there you shall find the end of the latitude required, placing the quadrant over the place that you feek for. That therefore I may be something more sure of the Voyage I undertake, especially wanting a good Wind, and savourable Gale; do thus, knowing the hour of your place, apply the place of the Sun to it, and bring the Geometrical quadrant over it, and the Rere so standing, that Line brought back to the point of the Countrey you Sail unto, which was marked before, will prefently shew whether any Star of that place come up to the Meridian Circle, or else come directly over your head: then keep this Star alwayes in your fight as the guide of your Voyage, and fet the Sayls and Steer that way. For if perhaps any noted Star be in their Zenith, you have as it were Mercuries Image to paint with his finger the way you must Sail. But if it come to the Meridian of that place, and varieth something from the Zenith in latitude, you must search out the difference of altitude, both of the Star and of the Zenith of the place. If therefore you do conceive as it were in your mind, and with your eyes a huge great Circle, runing through the Poles, and the Star you see, and in that, (though it be difficult) you imagine the portion of this difference, you shall find the place of the Heaven, though perhaps there be no noted Star in it. Which notwithstanding must be referred in a right Line between the Star formerly found, and the Pole; And so you have the place of the Countrey un-

der the Star, by your eye as it were, and that for that time. But though you have not so exact a compendium of your way, you have that which is remarkable, for the artifice of Steering a Ships way consistent not in a Line; but every hour we must bethinke our selves of one or another point of the Heavens, and that it is just over the head of that Countrey; and therefore continually according to the number of houres passed, it must be turned right with the Zodiack. This is for Sailing in the Night. But in the Day when the Sun hides the Starres with its Beames, the Sun must guide you: by the height of the Sun seek out the latitude of the place; that will direct us by the parallel of the Equator, whilst perfecting the difference of longitude, the miles at Sea answer thereto according to reason: and when you have brought it to that difference as the place you Sail to requires, know that you are now in the Meridian of it. And now the Ship must be guided by it directly upwards or downwards, untill the latitude of the place taken by your Instrument, agree with the latitude found before.

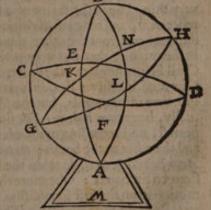
## Such is the fear to Sail when winds are ill.

And that you may know by the way how much compals you take by this right Angle, you shall find it out of the last proposition but one, of the first Book of Euclide, for if you multiply the Ark of the difference of the longitude and latitude of them both square wayes, and the products be joyned together by addition; and the square root of the whole be sought for, that shews the longitude of the Voyage to be made by equall degrees twice, which are next in a parallel. For that reason of Miles which is commonly taught, to the degrees of the Equator, is held only true and exact about the Circle of the Equator; namely that for Italian Miles the distance be multiplied by sixty, for Germane Miles by sisteen, for Smedes Miles by twelve, for this learning would serve but for eighteen degrees; but I shall give a more exact reason of this in its proper place. Gemma Frisim.

How knowing the distance of the way, you may find the latitude and

Properly, as when by an Astrolabe knowing the distance of the place, we know the longitude and latitude; or knowing the distance and latitude we know the longitude. Let therefore the Meridian Circle be A. E. B. F. fastned upon the foot A. M. imagine the Poles of it to be K. F. and your Zenith to be E. another immoveable Circle must be the Equinoctial A. B. C. D. fastned upon the foot A. M. cutting the former Circle at right Angles, and to be turned about in the Poles F. and K. by Pins that old it on. There must be also another turning Pin in the Zenish, C. E. D. L.

Let therefore the distance be E. N., that is known and right; number therefore, all of these Circles being divided into 3600, parts severally, those parts in E. D. by E. N. and place C. N. D. upon a right way from your City, to the place N. and where the point N. falls, draw G. K. H. E. the moveable Circle of the Meridian, you shall find then by the Arch K. N. the latitude of the place, or elevation of the Pole, and by G. G. the difference of longitude of the place N. from your City: and the longitude of your City being now known, so will also the longitude of N. and if the altitude of N. be known, and the right way E. N. turning therefore about the Circles C. E. D. and N. H. untill the ends of the Arches E. N. of the right distance, and K. N. of the known altitude of the place N. meet



together, there will then be made an Arch G. C. that is known, namely the difference of the longitude of the place N. from your County. But it is manifest, that by a contrary reason, having the longitude and latitude of the places, the distance also will be known. And if you would have the Instrument to serve for all Countries,

300k X

DIS OF

SO HOLD TO HOLD THE PARTY OF TH

bar the state of t

Prove venno (adde

force

tion

100

THER

如果 feet

con leave

cq a

Sign and of the state of the st

gt

tries, make the Pins E. L. movcable upon the Meridian Circle, A. K. E. F. that under any altitude the Zenith may be placed. Moreover make the feverall divisions very vilible at every tenth divilion, and lefs apparent at every fifth divilion, and at every fifth division with a Golden colour, that they may be carefully diftinguished, as in Goldsmiths ballances. But the number is not necessary, because you must every where make a beginning. The fame.

To find bow many Miles a Ship bath Sailed, or a Cart bath gone.

When we will make a Cart or Ship, that may thew unto us how many Miles they have passed : Let there be a Wheel twelve foot and half in compass, and a Wheel about an Axeltree with a small Tooth, which as the Wheel turns about, meeting with the Wheel of C. C. C. C. Teeth, may carry off one of them; to C. C. C. C. revolutions being performed by the first Wheel, of V. M. feet, there will be a thouland paces gone. But when this Wheel is turned about, with another fmall Tooth, it must uncover a Bushel, out of which a stone must fall into a Brazen Vessel under it, that by the noise and number of the small stones, it may discover how many Miles you go, or it being turned will fliew in the other Wheel a thouland paces; Thus in Artificiall Engines, (as Virrevim teacheth) it is calle to come to an exact knowledg of things. But for contemplation, that which was named before shall be an example. Cardan.

An Instrument of perpetual Motion.

Antonius de Fautis Tarvisium, a Man of our times very learned and ingenious, supposed that an Instrument of perpetual motion, might be made after this manner, as I shall describe immediately. But to make this clear, he sets down three experiments which he had proved: First, That is a Loadstone be made round, it hath two opposite points exactly; whereof one alwayes tends to the North, and the other to the South, if it hang at liberty and equally ballanced, and likewise if it be put into a Wodden Box, and that be so often turned in the water, untill those points which he calls the Poles, respect those parts of Heaven they are bent unto. I have fhew'd this thing in another place. His fecond supposition is, which he assumes from an experiment, that the North Pole draws the South Pole of the other, and the South the North; if the two Loadstones be round, which depends almost upon the first supposition : for if the North Pole respect the North opposite to it, therefore the other Pole must be placed South, because they are in opposite parts as you shall see in the Figure. For it the North Pole be applyed toward the North, or the South Pole toward the South, the stronger will drive the weaker away from it, and makes it returne back, where the Wheel can but lightly move. His third supposition is: That an Agent acts more than it refifts; and he faith he had found this alfo by exerience. These suppositions being laid, he took a round Frame of Silver very thin, like to the frame of a round Looking-Glass, and divided the circumference of it, and to each division he applyed an Iron Needle, and he made the di-Itanee of one from the other about the bignels of a Peale, then he placed a Loadstone. in the middle, that was very perfect, and of an Oval Figure, and at the ends of the Oval Figure he placed the Poles, and he fet a Wheel upon the Axeltree, and in the Center of it a Silver Pin, as it were the Diameter of the Wheel, the Axeltree and Pin were immoveable, but the Wheel moveable. Now that it must move perpetually, he proves it thus: For fince the ends of the Stone attract those parts that are nearest, and according to their scituation, and one directs the Needle to the North, and the other to the South; O. must needs descend to P. and P. to Q. and likewise A. to B. and B. to C. for thus the Eastern part is carryed to the North, and the Weftern to the South: wherefore they will help one the other, and it will be but one motion from the first supposition. And because by the third supposition every part attracts more then it relists. The parts F. and T. G. and V. relist less than the parts N. R. O. A. are attracted; and especially because the former stand equally ballanced, and perpendicular, and therefore in their own nature immoveable, but the parts to-ward the East and West are shelving and moveable. And if any one say that the West part rests by alcending, if the East part must descend, he saith, that as to mo-

XVL

TENTO:

SEC. 10 2

TEAT

142 2

JUCC

210

Est and

10000 don

Amer

iniaco

tribil

i man-

in theree

mi, g

Hite

OUTS

TOTE

7, 200

teog

tittt\*

# \$00g

orth

r,mi

LYCE

CELE

mand

TOTAL .

N SEE

Vorth, th Lt

We

tot THE

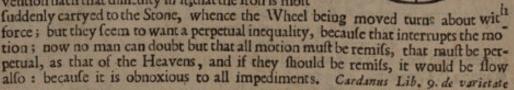
11515

accd,

100

tion of gavity they are equally ballanced, as the upper and the lower : therefore

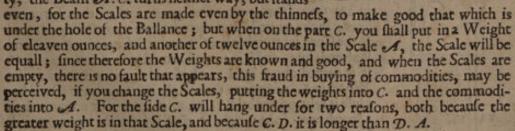
they hinder not by reason of gravity, but only as much as is the gravity of the Wheel which is very fmall. Therefore fince the motions of the Stone do mutually help one the other, and the gravities do not hinder, the Wheel will alwayes be carried about, which he faith he hath tryed, there will therefore never want a caule of fuch motion, and fo it will be perpetual. For the Needles turn the Wheel about; Again he placeth another Stone which must stand perpendicular with the former, and he ufeth the fame reason and demonstration to prove this motion to be perpetuall : And this invention hath that difficulty in its that the Iron is most



Merric

Fraud in Ballances where things heavier shall seem to be lighter. We can make a Ballance, that being without Weights shall feem to be equall, and when just and known Weights are put into the Scales, the weight of things shall feem more then they are. For thus, as Aristotle faith, they who fold Purple deceived their Customers. The reason is this. If you would have a Scale that for e-

leaven ounces shall weigh twelve, Take the Beam A. B. of some Mettal, and divide that into twenty three equall parts, for eleven and twelve joyned make to many : at the end of eleven, and beginning of the twelf part, fasten the tongue and the hole wherein the toung of the Ballance turneth, wherefore it is plain that D. C. is an eleventh part longer than A.D. and fince D. C. is somewhat longer than A. D. and heavier, you must file it lighter, or make a hole in it, or put a lighter Scale to C. than to A. fo then whillt the Scales are empty, the Beam A. C. turns neither way, but stands



How Weights may be twice as soon drawn up, and with holf a Cord.

There is an Instrument to be admired, which yet is made with small labour. Gabriel Arator observes that it may be made, that Weights may be drawn upward twice fooner than they use to be the ordinary way. Let the height be A. B. the mid-

dle of it D. and a weight hanged at a Cord, D. C. at C. In D. must be a Pulley, wherein runs the Rope in A. when therefore it is drawn, the Pulley as far as E. D. C. will be made twice shorter in quantity, when therefore D. shall be



in A, also E. shall be in A. now this happeneth because D. C, is doubled, both alcend-



Symmond Street

西西北

四日四日

the

det

の日

75

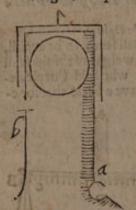
ing and descending, therefore it will not fit, but when D. is in the middle of A. B. or below it. Now this Instrument wants greater force, than if the Weight were simply drawn. Yet because this attraction may be eased by the reasons aforesaid, it may be so made as to draw up with the same force, and in half the time: so much can Arrand Ingenuity do. The same,

H F E

An Instrument whereby he that draweth is drawn.

There is an Instrument made by Art, but not by one Art only, and if you hang by your hands upon it, whilst you draw the more forcibly are you drawn. It is this, A. B. is the Pavement above, of him that suddenly pulls the Cord, and C. D. E. is a piece of Wood or Iron bent down with great force, unto which the Cord C. D. is fastned, but D. F. is a piece of Wood under the roof, and hinders E. D. to return; but to F. D. you must hang on the Weight E. G. so that F. D. may be brought about every way, when F. D. is not pressed by E. D. for F. D. is fastned into a Pully: when therefore C. D. is drawn, F. D. slips back towards E. but yet upon one side by reason of the Weight G.

therefore the Iron  $\mathcal{E}$ , D, that was held back by F, D, will fall back to the roof H, E, drawing D, C, upwards, C ard an.



An Instrument whereby any one may draw himself upward.

An Instrument that will easily draw a Man upward,
There must be a Wheel with an Iron hook, and in that a
small Pulley as the fashion is, about which runs the Rope, at
the Rope must be the Weight A. somewhat lighter than your
body, on the other side must be a Staff overthwart B. wherefore hanging a Weight at the hook, you shall draw below
B. that the Weight A. may ascend upwards, and B. may
come downwards. Therefore one sitting upon B. and on the
otherside taking hold of A.C. with his hands, because the
Weight A. is but little less in weight than your body
is, that descending, you shall ascend easily: when you
would come down, you shall do that at pleasure, because
your body is heavier than A. let go the Rope, and you

come down luddenly. The same.



An easie way to lift up Weights. There is also another Instrument in Pulleys, and it is thus made: The Weight A. is fastned to the lowest Pulley, wherein are two small round Pulleys B. and C. that turne about; In the upper Wheel there are two more Pulleys, D. and E. the Cord is brought about D. and it descends by F. to C. and it ascends by 6, and it is turned about by E. descending by H. it is turned about by B. and afcending, it is fastned to the Wheel in K. wherefore the weight is drawn from L and because it is supported by F. G. H. K. there will be no more than a fourth part of the weight A. that is lustain'd by the leverall Cords, wherefore it may be drawn up with a quarter of the strength. And if in the severall Wheels there were three Pulleys, it might be done with a fixt part of the strength a and thus a Boy may draw up a huge Weight, unless the heaviness of the Ropes, unevenness of the Pulleys, and difficulty of motion hinder him: but because there is a proportion of times, as being more powerfull, he shall draw with two Pulleys four times more cafily, with three fix times more cafily, than if with the same strength, and somewhat greater, he flood above to draw with one Cord, and far more eafily by fix or four fold, the more the length of the Cord addeth to the weight, whence it will fall out that the fame Boy shall fcatce LIPE

42

WATE

SIL aut.

2074 TC 01

and

一世

With the

Way

mi,

DEL

内脏

HOUSE

shere-

NO ON

it tit

tooy

1 700

nd you

SON

100

世十 ).and

200

ME

man.

の一 tout

MIRE! enta

for-

rina.

1000

000

scarse in an houres time draw up the same weight with those Pulleys, that a Man who is fix times as firong may do prefently with one Cord, standing above it. Therefore there is Art and Ingenuity that every one may raise any weight: But that the Cord may be drawn by many, it is drawn under the Pulley, as it is equidiffant from the Earth. But to draw things more eafily, we use a Crane, which Infrument is in use every where: for this by turning about the Axeltrees, the Cord being turned about, draws up any Weights. But here also the labour may be ealed by length of the Axeltrees : for the longer they are, the eafier they draw. The Same.

Wheels to draw up much water.

Munster relates, That at Alfatia, with two Wheels, and Carts made of Ox hides! water is drawn to fuddenly out of the deepest pits with fuch mighty force, that though the Wheels be made of Wood, and kept moyst, yet they will strike fire; consider that that Instrument hath three notable properties, height, capacity, and

Of Secrets of Musick. Chap. 21.

A Harp that shall make one to sleep.

Prepare the matter of the more gentle Wood, that it may make the sweeter Mufick, and not to high, as of Firr, and Ivy, of one make the upper part, and the under of another; Fiddle strings must be made of Adders and Serpents, but of their gues, or membrane that joynes to the backbone, which you must take forth of a running River, and hanging it up by the head, the rest must corrupt; fit these strings to a Fiddle or Cythern, and playing on it with your fingers, it will make a pleafing foit, gentle, found, and will make those that hear it sleep foundly, that they will shut their eyes whether they will or no, and fleep will be propounded. This must not feem frange, if the Pythagorians used this also, who when they would discuss diversity of cares by sleep, they used certain Songs that made them sleep foundly and gently : and when they awaked, when they arole they had other Mulick to drive away fleep and stupidity, and to make them fit for businels. Great Winds will make Men fleep foundly, and appeale the troubles of the mind. Also that is very strange, that the noile thereof hinders conception; for whilst it enters into the mind by the ears, how that noise can hurt conception, I leave it to mens arbitration who are credulous: but that this offend no man, it were better to let it pals. The Same.

A Hasp that being plaid on shall play on another that lyeth by. Tune the Strings alike, and fit them both for perfect Mufick, if you strike one of the great Strings with your fingers, the other will answer, and found deeper, so will the sharp Strings, but they must be at an even distance. If it be not very evident, lay Straw over it, and you shall see it move. Sueton Tranguillus in his Book of History of pasttimes, saith, that the Strings of Instruments in Winter being moved with your fingers, when one is touched another will found, thus any Man that hath no skill in Mulick, may Tune an Instrument, if one be well Tuned and lye by, and he take the other in his hands and curn the Pins up and down, and frike them, untill the String of that Instrument which lyeth by move, which is a fign of the same

Tune : So in the reft. The same.

To make a deaf Man hear the found of an Harp.

If you will have a deaf Man hear the found of an Harp, or elfe ftop your ears well with your hands that you may not hear it, then take the head of the Harp or Cythern faft by your Teeth, and let another Play upon it, and you shall hear a sweet found in your brain, and may be a fweeter found : and not only taking hold of the head with your Teeth, but only a very long Spear that shall touch the Harp, and by that the found is clearly heard, and you may fay it was not the fenfe of hearing, but taffing whereby it was perceived. The fame,

四部部四

Di

M

That Harps, Cytherns, and other Intruments, may be Played upon by the Wind

This remains that I think no wayes unpleafant, that Harps, Cytherns, and other Instrumets should be Plaid upon by the Wind. You shall do it thus. When there is a great Wind, let your Instruments over against the Wind, as Cytherns, Pipes, Flutes, Dulcimers; for the Wind coming runs forcibly into them, makes them found gently, and runs through the gaping Pipes, and so by the founding of them all, those that stand near will perceive a most pleasing Musick, and delightfuil. The same.

Some say that in the Countrey Obdora, beyond the River Obium, there are Instruments that like Trumpers found of themselves : and although all that History of the River Obium, and a Golden Statue be falle, yet the thing it felf is not only poffible but very easie to be done; as both in Holland, and France, Mils are moved by Wheels, so may Drums beat, and Trumpets sound, and not only with rude noise, but most harmoniously, and that continually, as Organs are blowed by Bellows. Need I not describe the manner, when it is easie to say and understand it, but it is hard to do it? for in place of Bellows and fingers, multitude of Bellows alone will fuffice, but the Pipes must be made Musically and the elevations by turns. In France they may be made upon a plain, because the Winds are so frequent; but not in Italy: unless upon the tops of Mountains, or amongst Rocks; But Trumpets want not much art, when as the Ayr collected in the large hollow Pipe, is forced to enter in by a small Pipe into the Brazen Pipes: and they may be made Musicall, but it is still equall. Cardan.

Harmony of Bells. The former History calls to my mind the memory of that I faw at Bruffels in Flanders. Many Bels were let round about in a circle upon a Tower, as it is uluall, and they had Musicall proportion in their founds : somethat are skillfull Play upon them according to the Notes fome pleafant Tune, and they would make you admire at the Musick, for the Bels do not hold the found, but it ceafeth prefently with the The same is done at Lovans, and at Antwerp, and this may be imitated by

Pitchers and other Veffels. The fame.

Of Astrological Secrets. Chap. 22.

Of the rifing of the Dog-star, and the foreknowledge of those things

which fall out thereby. The Dog-star riseth upon the twentieth day of the Moneth of July. But you must observe in what house the Moon is when the Dog-star riseth; For if she be in Lee when the Dog-star riseth there will be great plenty of Grain, Oyl and Wine, and the price of all other things will be very low. There will arise many tumults and slaughters, there will be contentions, and abundance of plenty: one Nation shall invade another, and there shall be Earthquakes and Inundations. But if the Moon be in Virgo, there shall fall much Rain, and great abundance of things, Women will miscarry, Servants and Cattle will be cheap. If she be in Libra, the King will be moved, and there will be meat convenient for four sooted Beasts, there will be tumults amongst the people, scarsity of Oyl, corruption of Grain, but there will be abundance of Wine and Fruits of Trees, that have a hard shell. If the Moon be in Scorpio, there will be tumults amongst Priests, destruction of Bees, and a pestilential season. When she is in Sagittarine it will be a fruitfull year, and Rainy, with abundance of Grain: there will be joy amongst Men, but great death of Cattle, and great plenty of Birds. But if the Moon were in Capricorn, when the Dog-star rifeth, there will be marchings of Armies, and great store of Rain and Corn, and abundance of Wine and Oyl, and all things cheap. If the be in Aquarim, the King shall dye, Corn shall corrupt, Locusts will abound, there will be seldome any Rain, and the Plague shall spread. When the Moon is in Pifees, if the Dog-star arise, there will be much Rain, Birds will dye, Wine and Corn will be abundant, Mens bodies will be overrun with Diseases. But if when the Moon is in Aries,

DEL.

異は

SEC.

FAIL DEP

日本祖

世界中

Aries, the Dog-starr rise, there will be great death of Cattle that seed in herds and slocks, plenty of Rain, little Corn, plenty of Oyl. But if it be in Taurn, there will be plenty of Showres, Hail, Mildews and Plagues. But if she be in Gemini, there will be much Corn and Wine, and of all Fruit, the King shall fail, Men shall dye, Armies shall march. It she be in Cancer, there will be drought and famines. Disphanes.

Since it is necessary for Countrey-Men to know the rising and setting of apparent Stars, I have written so concerning them, that such Men as know no Letters, only by heatlay may easily understand the times both of the rising and setting of Stars. The Dolphin riseth in the Calends of the Moneth of January. On the twenty sixt of February Ardiurus riseth in the evening. On the Calends of April, the Pleiades set at midnight, and on the twenty third of April, they rise with the Sun. On the twenty ninth of April, Orion sets in the evening. On the thirtieth day of April, Succelle rise with the Sun. On the seaventh day of May the seaven-Stars rise in the morning. On the nineteenth of May, Succelle rise in the morning. On the seventh of June, Ardiurus sets in the morning. On the twenty third of June, Orion begins to rise. On the tenth of July, Orion riseth in the morning. On the thirteenth of July, the Dog-star riseth in the morning. On the twenty fixt of July the Eastern Windsbegin to blow. On the thirtieth of July the clear Star in the Lions brest riseth. On the twenty fixth of August, the Arrow sets. On the sistenth of September, Ardiurus raseth. On the fished the seaven-Stars set when the Sun riseth. On the Calends of Neverber the seaven-Stars set in the morning, Diophanes.

The twelfth revolution of Jupiter, and what that Star effects by runing

The Zodiack is divided into twelve houses. Three for the Spring, Aries, Tanrus, Gemini; Three for Summer, Cancer, Leo, Virgo; Three for Antumn, Libra, Scorpio, Saggitarius; Three for Winter, Capricornus, Aquarius, Pifees. But Jupiter being in any house of the twelve, will produce such effects. When Jupiter is in Arres, which is the house of Mars, the whole year shall be Northerly, participating also with the East Wind, the Winter shall be cold and full of Snow. Also the showres will be continuall, and great floods. After the vernal Equinoctial, the water is changed into soft and condensed water. But the Summer will be regular and wholefome. The Autumne will be hot, and diseases will raign, especially by diffillations from the head, and Couchs. Champion grounds will be most fruitfull, and we ought to pray that no Wars arife. Democritus faith, that Wine will be good and lafting, and the year will be feafonable only for planting of Vines. But Corn must be well fenced in Granaries becaule of Rain. Birds will be scarle, and it will be fit to drefs Gardens. But when it shall be in Taurus, the house of Venus, the begining of Winter will be temperate and Rainy; but the middle will be much troubled with Snow, and the end will be cold. And the greatest cold will be from the middle of the Winter untill the vernal Equinoctial. The Spring will be temperate and moyft untill the Dog-starr arise. The Summer will be hot, the Autumne cold and full of diseases. But young people shall most be troubled with blear eyes. The Caterpillars shall abound most in Mountain places. Wine shall suffer detriment. Wherefore it is necessary to gather Grapes late. Trees will be very fruitfull, and small Birds scarce. The year will be improper for Saylers, and in this year some noble Man shall dye. But Democritus saith, That in this year there shall be much Hail, and Snow: and that the Easterne Winds shall not blow equally, and we ought to pray against Earthquakes and Wars. But when Jupiter is in Gemini the house of Mercury, the whole year shall find a South and South-West Wind. The beginning of the Winter indeed shall be windy, the middle temperate, and the end cold and windy. The Spring shall be temperate, and not much Rain, Corn

Vincs.

buth

dien.

bevo

The St

調整を発展する

Sen Con

year

Bo

shall be much, and the Windsfair. Cornshall corrupt upon the floor, especially in Syria. Difeafes shall arise about Autumne, in young Men especially, and of those of middle years, and Women. Also there will be blear eyes when the Summer is hot, and Women will dye. Trees will be fruitfull; and Fountains shall tail. It will be best to lay up Corn, by reason of the next years barrennels. Democritus saith, That Hail will be very hurtfull, and we must pray against the Plague. But if Jupiter be in Cancer the Moons house, the Winter commonly will be cold from the East, and dark, and there will be many inundations. About the Winter sol-flice there will be no great overflowings of water; and there will be great Hail after the Spring Equincetial; craggy places will bring most Corn. The year will be wholefome except Autumne. Democritus faith, That in Autumne hot pushes will break forth about the Mouth. Wherefore in the Spring we must eat Potherbs, and purge, especially young Men, and drink Wine; Olives will be plenty. But when Impirer is in Leo the Suns houle, the begining of the Winter will be cold, and watry with great winds, that Trees will fall, the middle will be temperate, and the end cold. The Spring will be wet, and the Summer the fame, and Springs will fail, and Pasture for Cattle. A dry Winter, and fickly, by reason of distillations and Coughs. Wherefore Men must ear bread sparingly, and drink much Wine. Corn will be indifferent. Wine and Oyl will be in abundance. The year will be good to Inocculate, but not to Plant. Tame Creatures that are great will dye exceedingly, but wild Creatures will increase more. A Man of note shall dye, and we must pray against Earthquakes. When Jupiter is in Virgo, the house of Mercury, the begining of the Winter shall be cold, the middle temperate, and the end very full of Ice, Showres, and great Inundation, that many places will be drownd with Rain; The Spring will be Rainy and hurdull to Trees. When the Spring ends there will be Haile. The Summer will be Rainy and dark; and Corn must be fuddenly brought in, that the Rain hinder not. The Autumne will be Windy and healthfull; The Vine will be truitfull; and it will be a fit year to Plant Vines, Corn will eafily corrupt. The year will be fafe and subject to no discase. But we must pray for Fruits. When Jupiter is in Libra, the houle of Venus, the begining of the Winter will be wet, the middle temperate, and Windy, the end moyst and cold. The Spring will be temperate with diseases from the head. The begining of Summer will be like to the Winter, and a dangerous year for Teeming Women. Demoeritus faith, That in this year there will never be great Rains, nor much Haile, but the Winter will be wet. When Jupiter is in Scarpio, the house of Mars, the Winter at first shall be cold, the middle hot with Hail, and the end moderate. Spring will be cold untill the Summer folitice, and there will be Rain and Thunder, Springs shall fail, and Corn will be indifferent in price. Wine and Oyl shall abound, and Oxen shall dye. Democritus faith, That there will be great Rain, and diseases in Autumne. Wherefore we must pray against the Plague; and we must as he saith eat little, and drink freely. When Japiner is in Saginarius his proper house, the Winter will be temperate, and wet, yet neither hot nor cold. There will be great Floods, and when the Winter ends, there will be Winds and cold. The Spring will be Southerly and Rainy: the Summer will be temperate and more cold. The Floors must be tenced because of Rain; Autumn will be safe because the East Winds blow. The former and later Fruit will be good, but what comes out about the middle of it will be nought; Corn will abound both in Champion and Mountain grounds. Wine will laft that i- latest gathered from Grapes. All Trees will be fruitfull: The year will be fit for Planting and all other things. A great multitude of larger Creatures, and especially of Dogs shall dye. The Sea will be tempefluous, and evening Winds shall be great. Some principall Man shall dye. If fupiter be in Corrern, the houle of Samen, the beginning of the Winter shall be temperate, the middle moyst and cold, the end Windy : but the waters overflowing will be hurrfull to Grain and other thines. But water, cold and Snow will increase by heaps. The Summer before the Dog-star rife will be equall and moderate, but afterwards it will be hot and fickly. The East winds will blow clear, and there will

30

MA

eta

6

ther

ll be

则

224

RIO MI

orn

Merc

uny,

VIIV

WILL

003

mi

mi

曹书書

DT:

De

也正

in

世

l bo

加州品

XX

台屋当

be Earthquakes. Champion grounds will bring most fruit. Mildew will dettroy Vines. Trees will abound with fruit, and the year will be fit for small Creatures, but hurtfull for great ones, and chiefly Oxen. In Autumne will be many diseases, especially Headach, Bleareyes, &c. We must pray that Fruit be not hurt by Wind and Frost. When Jupiter is sin Aquarius in Saturnes house, the Winds will be very good for Corn, and fruits of Trees especially, the beginning of the Winter will be cold, and the end windy. The Spring will be wet and winterly with Froits. The Summer will be without Winds, by reason of the vehemence of Eastern Winds. There will be Rain also in Summer, that Corn shall be drown'd in part. In Autumne watry Winds that hurt fruit shall blow. Also there will be hot diseases, that fall upon young Men from a moyst cause, and upon middle aged Men. There will be Frost that will spoil most Grapes, yet all Corn both sooner and later will prosper. Birds both taine and wild will dye. There will be many Shipwracks, and a noted Man shall dye. Prayers must be made against pestilential diseases, Earthquakes and Thunder. Lastly, When Jupiter is in Pisces, his proper house, the Winter begins with Rain, the middle will be Windy, the end will be Snow and Hail. In the Spring fair Western Winds blow; the Summer will be hot, the Autumne fiery, especially for Women and young Maids. Also ill Winds will blow that blast Trees; Corn will be good : but the I loors must be fenced against Rain: it is a dangerous year for Childbearing Women. Democritus laith, That both Wine and Oyl shall abound, but we must pray against Earthquakes. Zoroaster.

Of Secrets belonging to Peace. Chap. 23.

That nothing but peacefull matters may befull a Man.

If a Plant of Turnfail called the Suns Bride be gathered when the Sun is in Virgo, about the begining of September, and wrapt up in the leaves of Bayes, with a Wolfs Tooth, no Man can speak against him that carryeth it but peacefull words; Albertest is the Author of this, who writ this and innumerable more Secrets out of a Book of Secrets of John King of Arragon, and I have by me the Coppy of it, written in a very old Manufeript, which was never yet Printed, and it is full of Secrets unspeakable. Mizaldus.

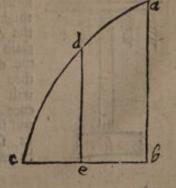
## Of Secrets of War. Chap. 24.

A Warlike Stratagem.

An Elephant feeing a Ram grows mild and very gentle, and by this devise the Romans put to flight the Elephant of King Pyrrhus of the Epirots, and won a great vivictory from him.

That one may not be burt by bis enemies. If a Man put on the skin of an Hyana, and rush into the midst of his enemies, none can hurt him, and he may pass without fear; as Oris Apollo laith in his Hyroglyphicks.

The reason of scaling Ladders which are necessary in Besseging of Citities, is thus described by Polybius. Let the Wall be A. B. that is X. foothigh, the Ladder A. C. that is XII. foot long, for being let to the Wall, it will be so far remote C. A. B. that is XLIV foot, for X. multiplyed into itself make a C. and XII. into it felf make CXLIV. Wherefore being a square and equall to A. B. and B. C. then B. C. will be the side of the square XLIV. wherefore B. C. will be VI. foot and three quarters, and so three quarters of A. B. and so it will not be hard to clamber up, nor yet dangerous, that it may be eafily driven back, which things will fall out where B. C. is very thort, nor will it eatily break, which would be where B. C. is very long, for they are harder to deal withall when they are fo ex-



ceeding

sook )

11 51

WOE, I

76

made 2

100 日 100

口脚

EXIL

10 WI

brook

W252

mg.

WEST. 神神

WEST

dia

KIR

WIS:

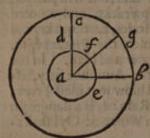
led 1

ing only of a last, so we

and will be to be to be

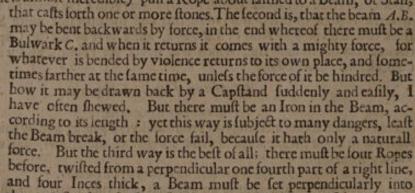
ccedingly long. Also a Prop D. E. must be just in the middle of A.C. for it will fall out to be in the middle proportion, and of A. B. as Euclide demonstrates it: therefore he faith, that a Captain Generall of an Army must be skilfull in Astrology and Geometry, and he shews why D. E. must be in the middle, for if D. be next to A. the Ladder will be the weaker, and if it frand lower it will be too upright; also the joynts and ends must be fenced with Iron, and there must be a sharp point below that it may flick fast to the ground, and there must be a Spear point perpendicularly made above, that it may stick fast to the Wall. Cardan.
Slings for War to cast forth great Weights.

Whatfoever is moved by violence, is moved the fwilter, the more fuddenly it is moved and at a greater diffance, for if the space be very long and it moves very flowly, or very fwiftly in a very foort space it will not be cast far off. It will flye a great

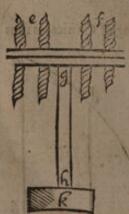


way the farther it is diffant from that which is laid under it, and the greater the Angle is. Let A. B. A. C. A. G. be double to A. D. A. E. A. F. and let B. C. be treble to B. G. and D. E. treble to E.F. let &. and B. be the Weights to be moved. and to flye with equal fwiftness: and E. must come to D. and B, to C.B. will be call twice as far and more than E, and if E. come to F. and E. to C. then B. is fixfold more than E. yet it is not necessary to keep this proportion exactly. But that a great weight may be east forth, there must be so much the more violence used, and the Engine must be the more

Thelethings being laid down, a Sling Engine may be made three wayes, and each of them may be varied many wayes : But I shall only divide them single, and one of these into two. The first is performed by force of Men, (whilst they with one voice and strength, (for that is most considerable, that they joyn their ftrength, that it is almost incredible) pull a Rope about fastned to a Beam, or Staff,



them, tastned to the superficies, and in this there must be another ftrong Beam, fenced about with Iron, and for the diftance of the caft,



there must be a fortress at the end; It must be drawn by Capstands and Screws, untill it be equidistant from the plain, and so by the right perpendicular with a fourth part. This Sling when it is let flye, hath a mighty force: yet it differs much from the Sling of the Aprients, whose Operation was equidistant to the plain, and by a right Line. It is of this fort, if G, the other side of the Beam stick fast to the plain; For then it will cast more strongly, yet not farther, for it will bear more force. This way hath that convenience, that A. B. D. D. the Ropes may be led flack, and so the Sling may be as suddenly bent. Because being let flack, and drawn farther and twifted, they will be more effectuall to cast forth. Also four Ropes have

TAY

ENI

五四五

Whit

224

ME E

100

tto D.

ME.

弘

DET.

M

œ.

Box.

705

CC,

1281

はなった。

ME

far more force to cast forth than one Beam; nor will they so easily break or grow

weak. The fame. The Engine called Poliorebetes, and a Ram.

Poliorchetes was an Engine lo called from destroying of Cities: There was one made against Rhodes, that was 125. foot in height, in breadth 60. and weighing 3600000, pounds weight, and it was to well joyned, that it was fare against fires, and it would contain a itone of 360 pound weight, to call it forth. Whereby it may be eafily known what force there is in one to contain, and in another to fling forth. It confifts of a Roof, covered with raw Hides and Twigs, that are hid with earth upon them to keep away fire, and this was to defend it : there were Wheels and Cords to draw it near to the Walls; And a Ram, that will as eafily beat down Walls as our fire Engines, but it is hard to bring it to the place. It confifts of two Beams, both ftanding forth right at length, and one placed upon the other; and that which is the loweft hung by the upper Beam with Cords and Iron Hoops; here and there were Pins, to which other Cords were faltned, and they drew the lower Beam, which the more forcibly it was drawn back, with the greater strength it came forward again. There was a frontispiece of Iron to defend it, that fire might not consume it, and that it might dig through Walls. It had two Hooks to make it like a Rams head : for it was not sharp at the end that it might break the more. Nor was it equal that it might beat down the fides of the Walls. The Horns of it were not straight, that when it was drawn back it might with main force draw the stones with it which it wrapt it felf into, and so should suddenly cast down the Walls. That Ram that is fet into Engines with roofs, hath three points, least in returning, it it had Horns, it might be wrapt within the Bricks, and so draw up the Basis of the Engine. It was wont to be in danger of fire-Darts; now these fire-Darts were like to Arrowes with a sharp Iron head; betwirt the Pipe and the Shast

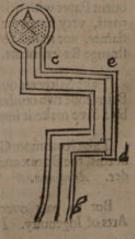
with a sharp Iron head; betwixt the Pipe and the Shast there was a matter contain'd made with Bitumen, Rosin, Brimstone, Hards, and burning Oyl, which being kindled was to be extinguished: when it stuck fast the Iron being shot in, the fire would not be quenced with water, but only by Earth. Some with Sag spenson added the Marrow of an Ass, which were not fit to cast forth, because, as I said, they would not send torth directly forward: And also with such sorce, that they made a noise like Thunder. Moreover those roof Engines, stood upon eight Wheels,

Moreover those roof Engines, stood upon eight wheels, and the greater of them had more, and they were made to turn every way. That will be done if one Axeltree be containd in another, as if the Wheels A. B. be turned upon the Axis C. D. and the Axis being made, a Beam be fastned into it by E. F, but the Screw must be in F, upon which it must turn, as oft as need is to turn about the Engine: for thus the Wheels and Beam of the Engine being directed another way, that lyes upon the Axeltree perpendicularly, the Engine may be turned which way you

will. The fame.

The reason of steep holes under ground, which they call Mines.

Moreover the same way is to make Mines as to make Engines, but the Mines are more wonderfull. Franciscus Georgius Senonsis, was the Inventor of this formidable work. He taught the Spaniards to overthrow the Lucullian Fort, near to Naples, which the French kept, it is now called Ovum, carrying the Temple with the French that were within it, off from the Mountain into the Sea; Wherefore when a Tower is not upon a Mountain at all, and it feems impregnable by reason of the scituation, they dig a Mine obliquely, four cubits high, and two in breadth; and the obliquely, four cubits high, and two in breadth; and the obliquely is of no great concernment when you are far from it: but when you come to the place you design to overthrow, the Hole must be oblique, as near to A. also there must be some solid Mountainy substance, least the force of the fire shut in, should wanish by the



rarity

を記る時で

100

tin

大

unto cinto the to

in the second se

田园

日本社会

Th

村山

rarity of the place. Then almost all that place is filled with Gunpouder; that is very fine: and a Cord is drawn from A. unto the Mine B. here next to A, where the Pouder is, let it be thick and broad like to Flocks of Wool, and the whole Cord is boyld in Brimstone, and Vinegar, and Saltpeter, and then covered with Pouder it is dryed in the Sun; Then being dryed again very fine pouder is strewed upon it, and it is put in the Cane from A. to B, then with Wedges and Stones as far as the Dore C. and as far as D. it is tait thut up, so diligently that only the hollow of the Cane is left open. Wherefore B the begining of the Rope being kindled, the fire runs presently to A. by reason of the Pouder, and sets all the pouder on fire, and the place being stopped with Wedges and Stones; and if they should be driven forth no place would be open, because E. is not right against A, nor is D. right against C, nor is E. right against E. D; it is necessary that the Mountain break, and turn over all that is above it, shaking the whole Mountain. Wherefore the way E. A. must not be short, nor the place A, be any thin part of the Mountain, least where the obstacle is small the fire should break out, and seave the upper part untouched; Wherefore obliquity is the cause of so great a miracle, that even the Mountains will break afunder. The same.

Ponder that burns Inddenly and vehemently.

But Pouder that burns easily, and whose flame scorcheth vehemently, is made of Gunpouder, Brimstone, and Greek Pirch, a third part. The same.

Wherefore that which burns must be exceeding thin and dry, as Straw, distilled Wine, Gunpouder. But in this there is some earthy substance, and for this is the Saltpeter, and so it makes a crack. Wherefore some have endeavoured to make Pouder without Saltpeter, that might shoot a Bullet and make no noise; And this may be done gently without any great force. And Brass wolus reports, that the Duke of Feerara sound this out, and it was only shooting without any sorce about twelve paces: But as I said it is impossible to do it with great force. The Saltpeter being taken away, Gunpouder may be so made that it may shoot a Bullet and make no noise. But alwayes the more of the noise you take away, so much you take away from the force of it.

Another.

That Gunpouder makes a noise, the cause is the earthyness of it, for the bigger and harder the Corns are, the greater noise they will make. Wherefore that Gunpouder may drive forth the Bullet without noise, the Pouder must be ground very fine. Felix Platerus. D.

Gunpouder that works wonders in Warlike Engines.

If any one bruise and mingle with common Gunpouder a twelfth part of Quickfilver, so much Marchazite, and Colophonia as it ought to be done: and if he fill warlike Engines with this Pouder, when fire comes to it, the Engine will break with a huge noise, that it will kill many standers by. Contrarily if you mingle burnt Paper with this Pouder, or what will do the same, common Hayseeds two parts, very finely poudred and mixed, it hath a most violent force, and yet neither stanges, nor makes so great a noise, by such a Pouder an ingenious Man will invent strange Experiments. The same.

Take Saltpeter one pound, Coles of Teil tree, or Juniper, of each three ounces, Brimstone two ounces, and two drams: grind them very finely, moystenthem, and by a Sive make it into Corns. Lucas Rhor.

Take common Gunpouder, Borax, of each half an ounce, Fennelseed two drams, the Borax and Seed must be very finely poudred and mingled with Gunpouder. Anonymus.

But to pass over these things, I shall proceed to Arguments of divers Arts of Ingenuity. I will take five from Architecture. First to fortific Cities. This confiss

11/13

State .

THE PERSON

4,101

or Doze

e Ciat

TO CHAN

mitte

CO EST

性出

uit oz

cobb.

and me

改2.

micro

is the

TONO

THE P

5 000

110

confifts of a threefold Art. By hindring, repelling, and fecurity of the defenders : and belides this we need not find out any thing. We hinder three wayes; by Water, Dirches, Walls. A Ditch makes the approach difficult, no small detence by reason of the descent, but much more by reason of the alcent. Therefore both banks must be steep, but chiefly that next the Town or City, fourty paces broad, and very deep: For if you make it threefold, you shall not make it only impregnable, but it makes your enemies delpair of taking it. This must have seven stops of runing water, for that which springs up cannot be intercepted nor taken away by any Art, but when it afifts it drowns those that enter, making their seet slippery, and when they are heavy and wet, they can hardly alcend, and hinders digging of Mines, that they can be hardly forung, whereby Wals are fubverted. Moreover it diffipates and diffolves what is cast in, and it hinders free that is thrown to destroy the Wals passing farther. The Wall mult be thirty paces thick with a thin cement, and made of Brick, outwardly it must be of hard Flint, and bunching forth a little to a round Figure. For fingle Walls upon each shoulder (for this kind of measure is explained) must contain twenty of our Bricks, but twenty two smaller Bricks, as the Crassily : The height of it must be a hundred paces, for there must be ten under the Ditch, fixty unto the top of the Ditch, and thirty above, and it must be fortified with a very thick Rampire within. These do something in Towns, and less in Cities, where the main strength lyeth in the Souldiery : but if this be present, the City is totally impregnable thereby. Repelling confifts in Rampires, and Towers, every two hundred feet, with a right Wall in the middle, but above inclining to a Circle, For foir will not hinder the shootings of the Towers, and the Enemies fire Balls are made ineffectual. The uppermost part of the Wall must be round, least pieces be broken off by the Engines and kill the Defenders. Within the place there must be Trenches the Defendants can fafely pass through. The Earth also must be made hollow at the bottome, that the found may be heard of these that dig the Mines, and the Souldiers may walk about fecurely. The reason of Arching is this, The rounder it is the firmer it is, unto a perfect Circle : thicker at the bottome, and as they afcend higher, thinner, unto the very top point; the fides both wayes, where they begin to compals, are made of the broader thiner Tiles, that by the multitudes of them the cementing of them may hold the fafter. The foundation flicks forth, and if it stand upon a Wall, the Wall is cut away, that like a Pit it may receive and retain the Foundation of the Arching. The thickness of it in comparison to the Wall must be one and half; but that which is laid for the Foundation must be thicker and firmer. Within every hundred paces, there must be a Privy-house and a Well, for want of water makes the Souldiers depart, besides the profit and advantage of it against fire, allo it may be boyld and cast upon the Enemies heads, and a thousand other convemences attile from it. Dung corrupts the Ayr; but many fecret wayes through the Wals into the heart of the City, drive away many inconveniences, and are an infinite convenience to the Defenders, and they leave no cause of Retreat to them. But four or five fecret wayes belides must be made into thick Woods that have not been cut down many years, and none must know these wayes, which must be made for five Miles or farther, befides the Prince himfelf. For this is gallant to fend forth Meffengers, to bring in Provision, and more affiftance. The Walls of the City houses, as I said must be surrounded with another Wall, and fortified that no house may fland without it. Lately, When Birra was taken, a Cottage fell with the flot of a great Gun, for it stood tomewhat without, and the chief of the City that went in there to confult were destroyed. And when the French befreged our City, M. Antonins Columna, and Camillus Trivultius, were flain by the fame accident : and thereby their Forces were fomewhat our short at first, and after that broken, and lastly their power was totally deseated in Lombardy. But the use of private waves that go fecretly beyond the City to fend forth Spies is necessary almost; and we must not forthwith flye to this remedy, nor yet flay fo long untill all remedy be too late, but when the Siege is herce, we must do it when Men dream not of it, ardanin.

29

To

10

中世紀日日日日

ctt

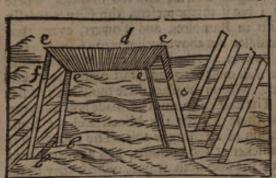
四年 日本

京都市市 かの 8.日

But now I pals onto another example, and it is no less usefull. G. Cafar was the Author of it, as he relates in his fourth Book de Bello Gallico. He made a Birdg over the Rhyne in ten daies by this invention, which because tew understand it well, I amresolved to explain it. Fasten on both sides two Posts, signified by the Letter C, that are a soot and half thick, and so long, that being droven into the bottome tome of the River, their tops may reach the superficies of the water, and let them stand two foot as under. Then you shall sasten upon one side sharp Posts driven into the bottome with Engines, and sastened with Pipes, lying upon one side according to the course of the Rive, so that one of the Posts be near the Bank. Strike down as many that are equal to them, and so joyned as they are, sourty soot as under, in the lower part of the River lying bending against the force of it, and them be called F, the highest Junctures C, and F, must be joyned with a Beam two foot broad, namely for the magnitude of the joynting, with two Braces or Pins or Cramps on both sides, from the inward part of the Post to the outward, that the severall Braces may embrace the severall Posts, and bind them sast. Equal unto these, and just over against them, on the other side of the River, must be driven in

the like, that one Beam may be right opposite to another.

A Scheme of a balf Bridg upon one fide.



A. are the superiour Piles, against the River E. E. the inferiour Piles fastned to the Bridg are C. the two upper Posts D. A Beam two soot broad, E. E. E. E. are the Pins that sasten the Beam O, with the upper and lower Piles, F. are the two lower Posts joyned in like manner. Joyn these Beams placed according to the the course of the River I. with many other cross Posts laid upon them and sastened together also, and laying long

Poles and Hurdles upon these a Bridg is made. To secure these many Posts must be driven in at the upper part of the River, bending upon one side to break the sorce of it; but far more bending than the Piles, and let them be beaten in sast, and joynd to the wole work. So the upper Piles will receive the sorce of the River, and the Beams that lye along, and the whole frame the more the water present it, by mutual embracing stands the saster. But this Bridg is strong enough and sufficient for all service, and cannot be carryed away. For sudden passage, Ropes only are extended, or Capstands are used or skins blown up, or Post sastned together. The same.

Prafages of victory.

Forefigns of victory are taken from four Observations. From Heaven, as when some firm sign is seen in Heaven that is proper to one side: as a Cross for Christians, the Moon for the Mahometans: and by such things as fall from Heaven, as Thunder and fire. Fire falling signifies Ruine, but if Spears seem to burn it signifies Victory. But the Generals Dreams are to be regarded, if he be a just Man, for such Dreams will shew the event, it he be wicked, he may see it clearly, as by Victory or fortune that cheatfully moves him to sight; For the joyfull Dream that Pompey had when he lost the Phars dian Battle, was not only salle but destructive. But it is more certain and frequent from living Creatures: Crows and Vultures, what side they respect, they foreshew ruine, because these animals feed on Carcasses. Bees are worse, sitting upon the Standards, or upon the Generals Tent: for this Creature without revenge, when he hath made his Honey, is wont to be driven forth of the Hive with fire and smoke. Also a certain Helverton General, who was samous for nine Victories, did foretell the tenth by the Enemies Dogs coming into his Camp from the Enemies Tents, for they sortake ill luck. Also Horses that neigh

YAF

Wasthe

THE REAL PROPERTY.

Strike Strike

EO los

TE CE

日本の

er Pies the new

to has

o parc

STATE !

an ini

nglang

belonce

pokol

and the

NO.

Mr.M

CO.

S WALL

The No.

n lach

iden

90000

品品

oth of

and rejoyce shew Victory, and fad dull Horses shew loss and danger; Also some things use to happen to Conquerours that give them clear admotion, and they that shall be conquered are not so plainly admonished. Cardan.

Armed Men seen in the Clouds, are signs of the ruine of a City; such appeared in the dayes of the Machabees, when the War was most miserable, and after that when Vespasian Besieged the place, destinated for that War. Also some say there were some seen in Germany, but not constantly for many dayes. The same.

## BOOK, XVII.

Of the Secrets of Mechanical Arts.

In the two precedent Books, I have finished the Secrets of Arts and Sciences, which they call Liberall; but to perfect this Learning concerning Secrets, I shall speake something of Mechanical Arts in this Book. Mechanical Arts are so called, that by use of Hands and Instruments performe their work, as is the Millers and Smiths Art, and such like, and the Secrets of them I shall here touch upon very briefly.

Of the Secrets of Millers. Chap. 1.

A wonderfill Infrument to boult Wheat. T Hough these things may seem to be spoken by the way, yet that it may shew the Artificial Invention of Men, that took its beginning from the nature of the Ayr, there was a most gallant Engine found out to boult Meal, and it was above three years fince that I resolved to disclose it, that Men may also understand, with what small matters to they be Ingenious, wealth may be gained. For now that all Bakers find the profit, and the Emperout hath granted the Man a priviledg, that no Man shall have it without his consent, he lives by this Industry, and in a short time he hath built him a Houle. For not only Bakers, but Colledges of Priests, and Sacred Virgins that are Nuns, and all Nobles that keep great Families, and have great profit. I may fay also necessity of it, and many more, whom not so much the profit, as the wonder of it hath moved, have caused it to be made. The making of it There is a small Wheel B. and at the end of that is a handle A. to turn it about; these two are set beyond the Engine. When the Wheel is turned about to which there are fet opposite two little Wodden Teeth C, and two more next unto it, and they are let opposite also, but as it were in the middle place between the former, that when the Wheel is once turned about, it may touch the broad Board four times, and the plain square D. E. that is hanged on both sides to the Capsula, that as the Wheel turns, the Board with a trembling motion being touched with the small Teeth may alwayes shake. Moreover the Wodden Tooth C. and a small part of the Board are compassed about by the Capsula, upon the Wood or Board D.E. stands a Meal boulter F.G. hanging obliquely, and from G. fastned in H. that it fall not out. This confifts of very thin, and exceeding light Boards on all fides, except in the middle where the Meal is shaked forth of the Sieve: for as it is usuall that part is made of Linnen. All these are included on all sides in a Coffer, on the top whereof there lyeth the small Capsula K. and in that being square as in a very light Wodden Dish lyeth the Meal, and this is so hanged up, that it may easily be shaken, but it is shaken by a small Cord fastned to it by the other part of the Wheel, namely, on the right and by B. you must observe also that the Boulter F. G. is open at both ends, on the upper end to receive the Meal from the Difh, at the lower end, that it may cast forth the Bran by G. And the whole Case is divided into three parts, D. M. N. raising up partitions of thin strong Boards that stand immoveable: It may if you please be divided into sour parts. This being done, When the Wheel E. is turned about, the Cord shakes the Dish, and the Teeth the Board, the Dish shakes forth the Meal into the Boulter F. G. the Board shakes the Sieve, and thence it comes

Q 9 2

Book

0000

of mi

DX 12

15 to

lunch freed

ward

日祖皇皇

the W

mud

2023

tern

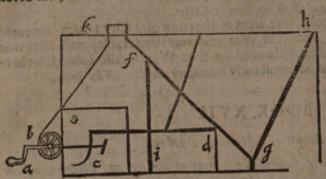
WIN

good and the day

20

京の田 日本日 日 日日

to pass that the finest Flowre is first sisted out, and talls into N. M. part of the Capfula, but descending and being more violently shaken, the lower part is fisted torth not so fine, into L. M. And lastly there descends by the lower Mouth of the Sieve,



G, the Bran of the whole into L.O. and thus are three parts feverally taken, the heart of the Meal in N. M. courier Meal in L. M. and the Bran in L.O. But all the Meal that flycth about, must necessarily return to its place, so that nothing will be lost, because the Capsula hath no vent; But it is needful (which you may easily perceive by reason) that

the Boulter F. G. must not be so sloping, for the Meal would come as tar as G. and be cast forth with the Bran. Wherefore if you bring the partition L, as far as the mouth of the Sieve, or any other partition, as of the Diffi, you shall, as you see, with that bend back the upper mouth C, that you shall not lole a half penny worth of Meal. Now conceive what great commodity arifeth by this one Infirument. First, With one Mans labour who turns the Wheel and puts Meal into the Dish, and when all places are full, gathers up the Flowre and Bran that is Boulted, he doth the work of three Men that Boult. Secondly, For this work, that is neither laborious nor hurtfull, any Man may do it, and ordinary people may be had farre cheaper than Boulters are. Thirdly, That all the Meal is collected, and nothing loft, whenas fuch as Eoult by fhaking their hands and Arms are in pain, and can do no more than they, can do with their Arms, and therefore no small part of the Meal Add to this, that a Linnen Poulter that only trembles is not fo much worn, but far less than when Men sift Meal, for they must of necessity oftimes shake the Sieve violently. Also it is a shorter work, because the Meal is sisted exactly, that the Bran is clear Bran. All these things are done without fouling the house, or hurt, or discommodity to any; Moreover the nature of the Instrument is to make two or three forts of Flowre, which cannot be done by Men-Boulters, first uncertainly, fecondly unconstantly. Card.

I will not pass over what is so admirable, and I could not believe it before I saw it, nor can I relate it without suspicion of levity it is so common. But defires of knowledg overcome modesty. In Italy therefore in not a sew places, and in many places in France, there are Mills made to turn about with the wind; and with such mighty force, that they are able to carry about three Horsemen with their Horses; and they are for so present profit, that they will grind eight Mellan Bushels every hour, that is, about 3000, pounds of Corn; And this work is made with such Industry, that when the wind ceaseth, it will even turn about of it self. When I had seen many, I observed one more diligently about St. Masurinus, when I take that long



and continual Journey. For example, It fhall suffice to relate the manner of the Engine. Let the Tennon be set upright and propt up with many posts A. B. upon this the whole Engine must be held up. There must be a post on the Door-side, C. D. to turn the whole Frame about at pleasure; And it is so fitted, that the wind may come to the Sails obliquely, not just in the sace, nor yet sidewayes, which are sassed and thrust into the round Beam E. F. that stands right forth over against the

time

四日日

Why.

以下

地位

Beti

alta:

491

miles,

worth

there.

e Dia

te don't

pohing

(200)

WCCD.

Sire

att the

E, Of

moor mily,

LIFT

105

white the

TOUT,

din

white the same

dik

五即

Spin in

10/2

2910

故题

油

DOT!

door, and turns about : Wherefore two and two Sails are oppositely joyned together, and they are not far distant one from another, yet they are not faltned into the same place of the Beam, and they reach forth almost as far as the ground, fuch is the length of them; each of them confilts of two superficies, and each of them hath four or five hands broad, and the Sails are stretched forth to cover them; but the upper superficies G. H. looks a little backwards, as the former K. L. is equidiffant from the Superficies of the last Engine. As therefore the Ayr presseth down the uppermost superficies of the Sails, which is equall to the lower, the whole Wheel, and with that the rest that are containd in the Engine are carried about. For if the Sails were raised perpendicularly upon the superficies of the Engine, and according to the length of E, F, that they might receive the wind, as Wheels and Sai's of Water-works do, the Wheel would be hindred as much by the upper Sail, as it is forced by the lower's Wherefore for this reafon it is made, that when the Ayr prefleth down the superficies G. H. directly, the Wheel G. L. should be turned about. But why also without wind it should be almost turned about, the cause is the motion now began, and the force acquired, whereby the Engine equally ballanced is moved, as I speak elsewhere of a Ring. Also the wind though it feem to ceafe below, yet it beats upon the upper Sail. Wherefore I would have this explained more diligently. The fame.

## Of the Bakers Art. Chap. 2.

A way to make Bread that shall keep long uncorrupted.

But to return to my principall purpole, the generall cause of keeping it is drying of it; For things dryed keep very long; so that Bisquet may be kept a whole year good. For (as I have proved essewhere) all things that corrupt, corrupt by reason of found moysture; and therefore the watry moysture being taken away it will keep long. But it being difficult to take away the watry moysture, but some of the radical moysture that is fat must be consumed also; hence it is that this doth not nourish so much as common Bread; but also in Ships by the moysture of the water, it will all grow mouldy, and for the most part it will corrupt also, wherefore they are sorced to bake it twice or thrice, or to eat it corrupted; But Men say that in the Island Sava, which is two hundred miles from the Molnecos, Bread is made will last three years; we know not how they make it, but if it be reduced to our principles, the generall rule must be urged. Wherefore it must be thick and fat, and baked at an easie fire, mingling something therewith that naturally resist putres action. But perhaps we cannot attain to it, because our Ayr is thiner or moyster than the Indian Ayr, or from some other cause more fit to breed corruption. The Jame.

An Oven that will fave charges.

An Oven to bake many things, that is also usefull, and is now used at Millan; sparing two parts of wood of three, because the fire shut in hath three times more force. Make a square Oven about two cubits broad, and one cubit high, and a half, with Lime and Bricks. Above let there be four large holes, round, as big as your pots and diffies, cover the upper superficies within all with Brass, but where the holes are, cut away the Brass, and let the pieces serve for covers. When therefore you ale it, let your diffies and pots in their places; when you need no vellel, put on the coverings that the Oven may have no vent; under the upper place there is a cavity, and a square little door, by which you put in Wood and Coles : but on the fide there is a much larger but lower door, and in the lowest part of it, in the middle place there is a fingle Iron Grate, through which the Ashes fall down; wherefore it is plain that the door you put the wood in by is in the upper part, and the other in the lower part. Also flesh is Roasted upon a Spir, letting Hinges on the sides of that door by which the Ashes are drawn forth : for there the coles will roast flesh, and the flame in the upper place will turn the Spits, if a Wheel be fet as it should be, but then fince it hath a vent you cannot lave to much Wood, Card.

mi inis

for this

fit her

and k

the Go

to refer falls to his be when Spring france

中 thro Ray 四 法 四 世

W

Of the Art of Cookery. Chap. 3.

To keep flesh long uncorrupted.

It is reported that in the Mountains of West-India, shesh is kept so long uncorrupted that is beyond belief, for near the City Cuzeum, Horses having been killed above four Moneths, will be as fresh and without any ill tent, as if they were but newly killed. I suppose the cause to be not only the cold, which though it be exceeding great here, yet in greater cold flesh will not be preserved so long. Wherefore I conceive that the Ayr is thin and brackish, may be the slesh of it self conduceth something thereto. For slesh corrupts sooner in Water than in the Ayr, because the Ayr is thineer, if all other things be alike. And again by the same reason slesh will keep longer it you saften a brass Nail into it, because the force of the Erimstone dryeth it. The same.

If you dry Lambs blood and frew it on flesh that is boyld it will seem raw, for it disloves and changes the colour of the flesh.

The flesh of Cattle that are slain will soon grow tender.

The flesh of Cattle that are slain will soon grow tender and soft, that are hung in a Figtree. Plutareh in his Symposiacks demands the reason soft. For saith he, when a Cook had amongst the Meats of Ariston, had offered a dunghill Cock in sacrifice to Herenles, that was, fresh, tender, and would even break in pieces, Ariston said, the Figtree made it tender so soon, affirming that all Birds be they never so touch will grow tender by hanging in a Figtree. The reason he gives is this, That the Figtree sends forth a vapour that is strong and digesting, and thereby slesh is digested and concosted. The same is done by laying them into an heap of Wheat, and cover them all over with it. Mizald.

If a Nail of Brass be stuck into Hogs or Crows sless, Plurareb saith, That by its a-stringent faculty and drying, it will keep their sless long uncorrupted. Those that dig forth Mettals know this by certain experience by abiding in the Mines; and Langing saith, That he that shall enquire after it may here be satisfied of it. The same.

The roots of Comphrey that are black without and white within, and glewy, if they be boyld with chopt Meat, will foon make them grow together again, as if they had never been cut. Alexius.

Some say it is certain that a piece of a Melon put into the pot will make the flesh boyl suddenly, and others say that Nettle seed or Mustard seed will do the like, or stalks of the Figure. Mizald.

Monks Rheubarb, fome call it patience, (it is a plant with a great top, and large long leaves, and the stalk is red when it is ripe, and the root yellow,) boyl this with slesh, and it makes them tender and more fit to be eaten. Alexim.

Kill the Peacock, either thrusting a Feather from above into his brain, or cut his throat as you do a young Kids, and let the blood run forth of his throat; then divide his skin gently as far as his tail, and being divided pull it off from his head all over his body Feathers and all; keep this with the skin cut off, and hang the Peacock by the heels upon a Spit, having stuffed him with sweet Herbs and Spices, and roast him, first sticking Cloves all along his brest, and wrapping his neck in a white Linnen Cloath, alwayes wetting it, that it dry not. When the Peacock is rosted, take him off from the Spit, and put his own skin upon him, and that he may seem to stand upon his feet, make some Rods of Iron sastned into a Board, made with leggs, that it may not be discerned, and drive these through his body as far as his head. Some to make sport and laughter, put Wool with Camphir into his mouth, and they cast in fire when he comes to the Table. Also you may gild a rosted Peacock, strewed

KYVIL

TOR.

my bi

は、一世の一部の一日

9 00

可由

明。在北

kin fa.

5 4%

五百世

四世

dlust

nt his

010

ockin

ings

kelm

pind

TE I

Some

ey cul

with Spices, and covered with leaves of Gold for your recreation, and for magnificence; The same may be done with Pheasants, Crains, Geele, Capons, and other Birds. The same.

It is most wonderfull that a Wren may rost himself upon the Spit.

It is most wonderfull that a Wren a small Bird put upon a woodden Spit that is very thin, should turn about and rost himself; But that must be a fresh Nuttree stick, which Cardan. did not observe. Mizald.

Also I thought fit to let you know, that a Wallnut put into a Chickens belly will make him rost quickly. Mizald.

Let it be a Duck or Goose, or some such lively Creature, but a Goose is best of all for this purpose, leaving his neck, pull of all the Feather from his body, then make a fire round about him, not too wide, for that will not rost him: within the place set here and there small pots sull of water, with Salt and Honey mixed therewith, and let there be dishes set full of rosted Apples, and cut in pieces in the dish, and let the Goose be basted with Butter all over, and Larded to make him better meat, and he may rost the better, put fire to it; do not make too much haste, when he begins to rost, walking about, and striving to slye away, the fire stops him in, and he will fall to drink water to quench his thirst; this will cool his heart and the other parts of his body, and by this medicament he loosneth his belly, and grows empty. And when he rosteth and consumes inwardly, alwayes wet his head and heart with a wet Sponge: but when you see him run madding and stumble, his heart wants moysture, take him away, set him before your Guests, and he will cry as you cut off any part from him, and will be almost eaten up before he be dead, it is very pleasant to behold. The same.

A Lamprey fryed, boyld, and rosted, at the same time.

First torturing the Lamprey with rubbing him with a sharp Cloath, thrust a Spit through him; and wrap all the parts boyld and fryed, three or sour times in Linnen Rags, strewing Pepper with, wine, and upon the boyled Lamprey, Parsley, Sassron, Mints, Fennel, bruised with sweet Wine, and make them wet with water and Salt, or Broth, command the fryed parts to be wrapt in Oyl at the fire, alwayes moystning it, with a bunch of Origanum sprinkling it, when part is torresied, take it up it will be excellent meat, set it before your company. The same.

Make a Vessel to fry them in of single Paper, put in Oyl and Fish into the Paper, upon the red Coles without any slame, and it will do it sooner and better than any other way. Let it not vex you to allow more Oyl, for perhaps it will not be hurtfull to know it: So

If you take out his guts and wash him, and let him stand twenty four houres in sharp Vinegar, and stuff him with Spices, you may boyl or rost him; and his bones will not hinder you to cat him. The same.

Another.

And for that cause the invention was found out how to fry Fish upon a Paper, as well as with a Frying-Pan. Take a fingle Paper, and raising up the sides like to a Lamp, pour in Oyl, and before it soke through, set it upon the clear coles without any flame, for the Oyl will not pass through, avoiding the fire, nor will the Paper burn, because it cannot dry, the Oyl preserving it. But fire cannot be without extream drynes, nor can flame or motion so attenuate as to make it burn, but it will grow hot by degrees putting under fresh Coles, and so it will boyl, which is very strange, for the Fishes will be well fryed in it. Cardan.

You shall excellent well preserve Fish thus: Fry them meanly with Oyl, but not perfectly: then strew Salt upon them, that they may not be salt or fresh, and lay-

lock?

OSED N

MILE

即時

fourty

that I

ne of

四次 Bas

thin

1829

my.

tets

the Run WAS

tel

WO

100

8. 日 記 記

ing Bay leaves and Myrtle leaves between, when they are alittle dryed, lay them up in a Pannier. The fame.

To provide good Mustard.
Sudden and excellent Mustard for Sawce, wherefoever you are, may be thus provided, Take rwo ounces of Mustard feed, with half an ounce of common Cinnamon, which you find in the Shops. Both must be finely ground and mixed with fufficient quantity of Vinegar and Honey, and make a Paste of it, and make Cakes or Balls thereof, and dry them in the Sun or in a hot Oven, when you pleafe diffolve one Ball in Wine or Vinegar, or some other moysture, and you have Mustard eafie to provide, very pleafant to the pallate, and good for the Stomach. Miz. That Coleworts may not boyl.

Paxamus one of the Greek Husbandmen feems to me to have written well, that if one pour in a little Wine into the boyling Coleworts, they will boyl no more, but losing its force, it will change colour and dye. The Jame.

That a Pot may never boyl.

The shell of a female Tortois laid over a Pot, will cause that the Pot shall never boyl. The fame.

Of the Confestioners Art. Chap. 4.

That Olives may be foon feafoned.

If you will foon Pickle green Olives, cut them, and for twenty four houres let them lye warme in water and Lime, and twice as much Ashes, then being taken forth, wash them five times in warm water, and after that in talt-wa-

Myrtle berries, and Boughs of a Figtree, bow they may be kept green.

Myrtle berries with the Stalks, and Figtree Boughs with their Leaves bound into fmall handfuls and laid into Oyl Lees, may be kept green, but the vellel must be luted with Gyp; and thus they are scaloned, but it is better to see them than to eat of them. The same.

To keep Rheubarb long.

Wax if any thing will preferve the forces of it, for it keeps out the Ayr, it keeps it moderately moyft; Rheubarb can be preferved for twenty years no better way than this. The Same.

Tomake red Wax.

Take Wax one pound, Turpentine three ounces in winter, Vermilion well ground upon a Painters Stone, common Oyl, of each one ounce, melt the Wax and Turpentine at the fire, then take them off, and after they are alittle cole, add the Oyl and the Vermilion, mingle them well and keep it; Tome for Cinnaber put in red Lead three ounces for every pound of Wax. The fame.

To make green Wax.

Take Wax one pound, Verdigreale ground, common Oyl of each one ounce; Melt the Wax at the fire, and when it is almost cold, add the Verdigreale, and Oyl, mix it well, it will be green. If you would make this Wax hold falt, add the quantity of Turpentine spoken of for red Wax. The same.

To maki black Wax.

Take one pound of Wax, melt it at the fire, add upto it black Earth, and common Oyl of each one ounce, mix them well, until the Wax be cold, if you will have it frickfast, add Turpentine as I said before. The fame.

To make white Wax. Take Wax as much as you pleafe, and of Fountain water twice as much, mingle them, and fer them over the fire untill the Wax be melted, then let them frand awhile, untill all the Wax Iwim on the top of the water. Then take some Glass velfel, whole outfide is smooth, and wet it in cold water, then dip it almost up to the middle of it in the melted Wax, and take it forth with the Wax that flicks unto it, let the Wax cool, and then take it off from the veffet : do this fo often untill all the Wax be taken up from the water : then fet that Wax thus ordered in the Sun, and But!

The bu

TOTAL PROPERTY.

With la

TIME TO

and and

oth of

AZIS E

top than

10to

dew in May: and turn it often, and leave it there fo long untill it be as white as white Lead. Some do whiten it three dayes, observing the foresaid manner when the Sun skineth hottest. And because all that Wax is fine, and will casily melt in the Sun, you must twice in the day sprinkle cold water upon it.

Another.

Lay any Wax in the Sun, wet it twice aday with Fountain water, and you must often wash it is clear water, and make it into Cakes that the Sun may have more operation upon it; and you shall have most white Wax for any purpose. Ludolphus Rolevinem.

Of the Smiths Art. Chap. 5.

Clocks without a Cord.

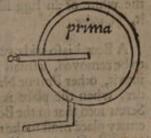
The Wheels serve for a Cord; in some Mils are set upon them in the forme of a Snail, with twenty six Teeth and some have more; by these Teeth the Axeltree that drives the whole Engine, is carried about; In another there is a Wheel with sourcy eight small Teeth, placed at the bottome, and that fastens in the other Wheel; that when is turned about with the force of the other Wheel that is in the bottome, the other that layeth hold of it with as many Teeth being turned also, the whole Engine is carried about. Cardan.

Wessels that will not break.

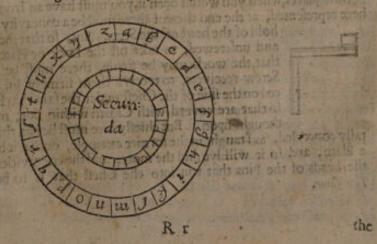
He also taught how to make Vessels to melt Mettals with; for they are made chiefly of the tops of Rams horns, and of bones calcined to ashes, and pondred with a Pessel. But if you add to this Emeril, or the tops of Bucks horns, or the Jaw bones of Pikes calcined and quenched twice or thrice in Vinegat, the Vessels will not break, nor the the Mettal wast away: these things are added and put in especially at the bottome, that it may not drink in the Mettal. The same.

A Lock that may be shut with any name.

Janellus made this, it confifted of only leaven Letters, and it could be opened by no other name than the fame it was locked by. There was first a solid Rundle smooth on the outside; on the forepart there was a Pipe that stuck forth straight from the Center, at the end whereof there was a short Screw that went into it, on the brim of this Rundle there was another empty Pipe, that was round, equall in magnitude and equidistant and over against it two small



Lines distinguished the brim, on these Lines the seaven Letters of the name must be placed right one against the other, as you turn about, or sit the Rundles in such order, as you are minded to keep. As for example, let the name you will keep be Serpens, all the Rundles must be set directly between the two Lines, with the Letters one against another, that you may either open or shut



Book

kindo

seft,

WZ Z

zhok

of 2

was i

NEW YORK

for L

NO.

CHI

it is then

地方な 政治 政治 以 は

如母·可申申明智·图·斯·日·印·印·

四世四日日



the Lock. For there will be feaven Rundles in the Margin that have the Alphabet upon them, whereof I have described one upon the Margin for an example, or as many in number, as the number of the Letters are by which it must be shut. In the middle must be a large Circle distinguished with so many spaces, as there are Letters in the Margin, and as many toothed Rundles, as there be orders of the Alphabet. These I have described in the third Figure, adding the small Tooth, as in the fourth the hinder part of the Rundles of the second Figure, with the space in the middle Rundle, into which the small Tooth of the small Rundle is fastned. Whence it is manifest that when the second Rundle is turned about, it will draw the third along with it, and yet unless the Letter be fastned in its proper place, one cannot be joyned to the other nor taken from it. When the Lock is shut, the rounds will turn about easily, that so the reason of the name may be consounded. The same.

No Man is ignorant that the matter must be Iron, and the Plates must be thick. Also the usual way is to have a double bottome in the Chest, or little concavities on the sides, and secret small Cabinets and by places, but all these can hardly deceive a cunning Man, when he compares together the thickness of the parts and sides, where fore on the sides or corners on the more sloping places, make a little hole, and let the cavity withinside be as much as you will, and many hollow places if you think sit, shut money in, and stop up the cavity with Cotten, and then with thin Saw dust, and the white of an Egg sill up the hole, that he which shut it up shall hardly find it. Cardan.

A Board is so laid over the hole that no chink may appear. Into the piece that is to be removed, a small Mettal Screw is fastned that must receive it, and a Pin is put into it, other Pins or Nails like to that are disposed of in the Chest after a certain order, when the place is to be opened, take away the Nail, and thrust in another Screw into that in the Board and pull up the Board. Alwayes temember that the empty place must make no noise when you put any thing into it, wherefore stop it up with Cotton, or some such thing, and thus you may contrive many secret wayes. The same.

You shall fasten to a Board with Screw-Pins a Lock or Iron Plates to which the covering of the Chest is made fast: under the Lock or Plate let there be little dores of hollow places, when you would open it, you must have an Iron Instrument, as you see here represented, at the end thereof there must be a concavity, which may take fast

hold of the head of the Screw-Pins, fo that they may be turned back and unfcrewed, to take off the Lock or Plate from the Cheft. But that the work may be firme, there must be under the Screw-Pins Screw-receivers, to receive them firmely in, and these must be placed on the side of the Chest under the said thin Plates. In Trunks also that are coverd with Cloath within side, many other wayes are thought upon. But chiefly care must be had that the hole may be to-

tally concealed, as I taught in the former example, or that it be firmely garded with a Plate, and so it will lye hid the more, and the concavities may be covered with the heads of the Pins that run into the Chest that is to be parted from them. The same.

drawn forth.

THE

il the

百年五

III Of

W in

THE STATE OF

E WI

地位

ant ic

的故

7, the

ct. The

thit.

100000

COCNCE

where

int for,

ly bi

that's

nept

dio di-

mitte No the

BOIL fectet

elback

BE

ks

TI 100-

guh

WIR

thes.

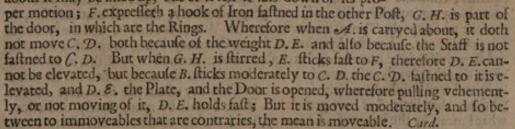
A

It was a matter of no less Industry, that was lately brought to me, an unusuall kind of Lock, whereby perhaps it may be thought not to be fo commodious as the rest, but it was not unpleasant to behold for the ingenious contrivances in it. was an Iron Pipe A. fix fingers in length or more, upon which there was placed a covering B. and it was made turning like to a Sithe, and so fast to it, that there was a hole cut on the fide of the Pipe, that it might be let into it on the one fide, and again if the Lock were to be opened it might be drawn forth again. But that it might be opened by no Man without the help of the Key, a Wedg D. as thick as the Pipe would bear it, was put into the Pipe, G. with two points into two holes E. F. made like bandles, or bolts : but the points on both fides were armed with fins, which when they were passed the holes did extend themselves, and so neither could the Wedg be taken forth, nor the Bolt removed, unless the fins were contracted by help of a Key, whereby they hindred the Wedg to be drawn forth. But that Key F. was not made after the ordinary manner, for being long like a little Staff, it was thrust into the Pipe H. at one end, and by the two distances in the head of it I, I, it prefled the fins of the Wedg, and so the Bolt, the Wedg being taken out was easily

That doores may be opened by none but some of the boushold.

But I return to Mechanical matters. I shall describe two wayes how to make Locks for Doores, that only those of the house can open them, and no other Men, and by these you may invent infinite more. Let A. be the Ring of G. joyned with a folid Iron flick B. C. Another Ring is C. D. in the middle whereof B. C. is

carryed about (because it is round and not joyning to the Ring) it is within the Polts, and A. stands looking forth beyond The Staff is answerable to C.D. but D.E. is a plate of Iron, joyned with the Ring C. D. that the Ring being brought about it may be lifted up, but of it felf it fals down of its pro-



Another way more sente than this.

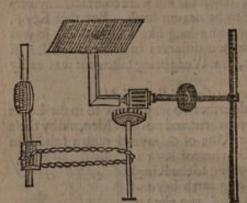
A. is a Ring that sticks forth beyond the Door, and joynd to a Staff that within the Door is fastned to the Ring B. To B. there is joyned above another Staff C. so that A. being carryed about, C. is also turned about with it; now C. sticks forth somewhat beyond the Post on the inside, so that if it be turned about, it may not fall upon D. E. Now D. E. is a Plate fastned into a Post G. H. with a Pin, that it may both fall down and beraifed up. Where the hole is larger, by which the Pin Das thrust in; It fals upon the hook P. as before, that is fastered into the other Post. this Artifice is covered with a hollow Woodden Poard, fastned to the Post G. H. that it may not hinder the moving of the Bolt, as in other things that we would keep fecret, because all things are not to be communicated to the wicked World. He therefore that knows it not, is three wayes deceived in going about to open it; First, Because in other works D. E. is tastned to B. and the Door opens from the lest hand to the right; but here it is clean contrary, for the foldings of the Door are hereo-pened, because C present down D, and so by reason of the under lister, E, is raised up. Secondly, Becaule C. Sticks forth farther from the Gate than D. E. unless A. be drawn back, C, will not fall upon D, and therefore it will not open. Thirdly, Because if the Door be not immediately opened, C. will fall below D. and E. will fall again, because the length C. is scarse extended beyond D. Whence followes the fourth miltake, That unleffe a man make two contrary operations, the Gate cannot

Mir two C. I two con the two dense of the two their their the two to be two to be two to be the two to be twell to be two to be twell to be two to be two to be

be opened. For one must pull to shorten C. and thrust from him, that it may open; which two contrary motions for them that are not used to it, to performe is not very easie. The same.

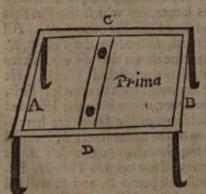
An Infrument that turns Spits about with the least fire.

A Plate of Iron is fastned upon the sides of the Chimney wals on both sides, in this there is a hole into which the point of of an Iron Rod is thrust, to be turned about; There is a thin Fann, and at the bottome it hath a Wheel with Teeth, whose other point alittle more blunt is fastned into the upper hole of the Pin, and it is to be turned also to that. In the same Pin, near to the upper hole there is another hole on the side, into which is thrust the point of another Iron Rod, by which, near the point that is in the Pin, an Iron Wheel with small Teeth is carryed about, so that the Teeth lay hold of the Tympanum, and the turning point, as it doth on the ad-



verse part which is inclosed in a Rundle: a-bout the middle of it a Woodden Wheel is carryed about, and is made hollow with many circles, in the hollow cavities where-of an Iron Chain is made to compass it, and it goes again about the round handle of the Spit, and as many hollow circles as be in the Woodden Tympanum, so many Chains there may be and so many Spits. Wherefore it comes to pass that the Iron Rod that is made unequall as it were with Wings, and as it were inclining, is turned about by the smoke, whereby the Tympanum turns about the Wheel, which carrying the Chain about with it by reason of in-

equality, turns the Wheel handle of the Spit. And it turns with fuch ease the Fann blowing equally ballanced, and perpendicularly, that without any fire, so there be no Spit, the Tympanum will turn the Wheel set into it, and the reason of it is not difficult. For the Ayr that under the Chimney being straitned is forcible, as I shewd elsewhere concerning secret places under ground: And this is an Argument that the Ayr shyeth upwards. And this sals out the more when the Engine is light and well polished, and the space of the Chimney about the Fann kept close on all sides, that little Ayr may get forth. That I may be more clearly understood what I mean by the name of a Chimney, as I use the name also elsewhere largly according to the liberty I have; knowing that it should more properly be called a fire or smoking cover: for it is driven about rather by a stame than smoke, by reason of the vehement motion, but not at all by live glowing Coales. Also the Spits must be round on that part that they are leane upon, the Engine that turns them at a distance, for thosethat are square are not easily turnd. The same.



It is no contemptible way of a Table that I faw often, especially in Gaunt in Flanders; Take a square Margent, as it were four cubits long, and as many cubits broad, or not much less A.B. In the middle of this let C.D. lye overthwart, a Board nine Inches broad sastness to the Margent with Nails, and in it there must be two holes, into which Pins may be thrust low to hold it fast. There must be four Pillars at the ends of the ledges, and sour holes next to them, the severall holes must not be set opposite one to the other in the sides of the longitude, but at such a distance that the bolts may not hinder one the other. But

the holes must come as far as the superficies of the Ledges, being square, deep, and broad,

MI

西郡

1000

World

tobe

bole

artic.

かな

to a

With the

Whote-

tein

dies

piopo-

207-

of un-

le the

H, 4

MA-

ole co

thos

207

ti fire

S WINT

251th-

elin The a

五五山

四,1

the

0000

四四

broad, according to the ends of the bars that must fit them and go in tothem, for they must all be so deep, as is the least height of the bars, or that the ends of the

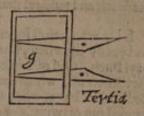
Posts that go into them may fit them exactly in all respects. Under the Boord C. D. a post must be set; wherein there must be sour great deep incusions according to the magnitude of the barrs, on that part they are at the broadest, and as broad to receive them when they are thrust in; There is also a long board E. and as broad exactly as the Margent A. B. and it hath two pins that are thrust into C. D. with holes that it may be listed up, and fall down again, it cannot stir from its place, and it alwayes stands by the Margent, unless some



Man will for some other cause take it away lifting up the Pins; Moreover the board C. D. is scituate upon the ledg, and it elevates for its thickness E, the board from

the Margent, when the bars are extended. Lailly, Make two Boards F and G. exactly equal in height to the Table C. D. and such a proportion both in their length and breadth, that they may to a hair fill up the spaces about G. D. of the Margent, so that C. D. and F. and G. being joyned together, may equall E. these must have two bars and two Keys, and they must be firmely glewed under neath, but the length of the bars must be equall, to the length of A. B. and the latitude as great as is the latitude of the cavities in the Margent that receive them, the depth also in the ends must be perfectly equall to the cavities of the Margent, but it is augmented by degrees from both ends toward the middle, so that the middle be to a hair higher then the ends, as much as is the thicknesse of the Boards C.D.F.G. which I supposed to be equall. Also in the middle of the greatest depth two bunches stick forth of the sides, which being expounded, I shew the matter





to be perfect. For when you thrust in the ends of the bars into the Margent that is opposite, the middle of them will lycupon the cavity of the Beam under neath it; and since F. and G. fit the places about C.D. they will neither exceed the Margent nor fall short. And because the height F. and G. is as much as C. D. there will be one Table as it were made of three C. D. F. G. of one height, upon which E. being laid will represent a square Table, and that is folid. But when you pull forth the bars which are broader in the middle, they will exceed the cavities, and they will by degrees lift up the Table E, which by reason of the Pins will be lifted up, untill the outward skirts F. and G. fall beyond E: for then will E. fall upon C. D. and F. and they will agree with it, and fit it : but the bunches they have will keep them in, that they be not drawn forth more, and leave the chink wider with E. nor can they fall out, because the ends of the bars are contained by the Table C. D. because they come exactly to the middle of it, as I proved, nor can they be higher or lower than E. because the difference of the middle of the bars from the ends, is supposed to be equall to the depth C. D. Wherefore the bars will lift up the Tables, to which they are fastned above the Margent to the quantity of the depth G. D. fince therefore &. is above C. D. it is for the counter-ballancing of E. F. and G. which was to be proved. But it is manifest that when you would again reduce F. and G. under E. that you must lift up the ends of E. at both ends.

That Chefts may have a pleafant colour.

All Woodden housholdstuff that is rubbed with Lees of Oyl, and polished, will be wonderfull pleasant to behold. Mizild.

That Smoke shall not deface Chests.

All Wood steept in Lees of Oyl or wet therein, will burn with no smoke, that shall offend. The same.

Book

mici

to have

that and Lam from For

四年 中华 中山 四日

2/00 tin,

mit

the (

take

note

Thir clace burn

WZ

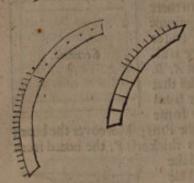
cont

Arr. Arr.

the thin

Iron Hoops that will fit all Velfels.

It is a great profit in house-keeping it with Iron bands, all Vessels be hooped about, for every year the charge is almost an eight part faved. True it is that Iron



Hoops are sometimes broken, but Woodden Hoops often when new Wine works. The remedy is, Iron Hoops that fit all Veffels, which I faw brought to Milian out of Germany, near to the Church of St. Ambrofe. The making of them is this; parts of Iron Hoops for very great Vessels are a very little crooked and joyned together, with slexible fibras as it were knots; wherefore by the help of these clasps they are made so crooked, that you may make them fit for the smallest Veslels, in some of these there are Nails sticking torth on the outside upon each other half, and on the other half there must be holes which receive the Nails of the other part, lo

it comes to pals that fometimes produced they make a long circle, and fometimes taken in they make a finall compals, but with many folds, the ends are joyned with a Screw that sack into them, which being included in a fingle hole of the adverse part, as in a King, and sticking forth, is set in with that part that is prominent into the small receiving Screw, the parts of the Hoops being joyned together; but being turned about with a Spar of Iron, it sastneth the Hoop, that all that was too loose is

made fast and puld in, that no Wine can run forth. Cardan.

The way to Engrave Coats of Armes. It is a wonderfull Ingenuity to Engrave Armes, of which I shall speak partly here and partly elsewhere, I have said already. Wherefore here is another way. They boyl Pitch, Oyl of Linfeed, and fome Frankinfence, and they make it thick; this they freer on, which they call Vernish; They frame upon it with the point of a Bookin or Graver what they please; then they fill up the place the Vernish was scraped out of with Aqua Regia, to which they add Mercury Sublimate and Verdigreafe, and intwenty four houresthey Engrave any Figure upon Iron Armes, as fair, that Seals cannot be made better in Wax. The fame.

Water pressed through a Cloath from Wormes beaten, and mixed with juyce of Radish in equal portions, makes the edges of Knives lo hard and tuff, and of Swords also and of other Instruments, that are quenched twice or thrice in them when they are Forged, that they will cafily cut other Iron like to Lead. This Secret came from a

Sword-maker of Paris.

You shall thus make the edge of your Knife, Sword, or other Instrument excellent. Put into one pound of young Mens Pifs as much Soot as you can hold in your hand, adding four ounces of Linfeed Oyl, mix them all and boyl them together; and when your Knife or Sword is red hot in Forging or any other thing made to cut, dip it in this decoction, and temper it well according to Art. From a famous Cutber. Mizald.

That all Inframents of Iron er Steel may be preferred fafe from rust and

Annoint them with Vinegar mixed with Allutu, or with white Lead or Stags Marrow, for these are held to be better than Oyl; but the best and most profitable of all is, to grind the filings of Lead very finely in a Mortar, adding a little Oyl of Spike thereto: (which besides the other thing, will make them smell well) and with this as with an Oyntment you must rub over your Iron or Steel. Thus may you carry any Arms through the water or foggy Ayr, and they shall never rust nor tanker. From a cuming Armour-Smith.

XVII.

Mg

验

DOT:

TIC (I

KIT.

21,10

LINE.

with

NEW YEAR

15 25

100

TOT

505,

Cist-

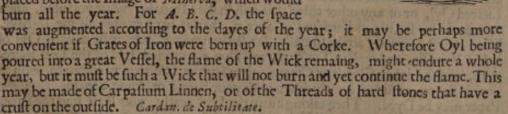
A little Ship that shall Sail of it felf, and be the Authour of its own motion; the same reason serves to make a Bird that shall sive.

The matter must be made of the pith of Bul-Rushes with bladders or skins, such as are used by Gold and Silver Leaf beaters, bound about with Sinews; When a semicircle forceth one circle, it will compell the others to move, whereby the wings will be wasted. Scaliger.

A wonderfull Candle or Lamp.

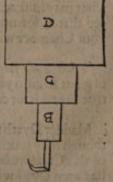
By this way was a wonderfull Candle inverted, made on all fides like to a Tower, having but on hole in it D, whereby the Oyl is poured into it, untill it be full. It is folid Tin, and when it is turned and lyeth downwards, the Oyl cannot run forth at D. For should it run out, that which is in C, should descend by it gravily, and to fill up the vacuity, and what is in B, to C, and what is in A, to B. Wherefore that which is in A, must needs be empty, therefore there will remain Oyl in B, C, and D, and nothing will run forth. But how then can it come forth when the Lamp is lighted the Oyl being consumed in  $F \ge$  for it must come through the Pipe E from D: for thus of necessary we must fall to the former reason of avoiding vacuity. For whether the Oyl be drawn forth by force of the heat, or fall down of its own accord, it is all one as to the consideration of vacuum, as one would suppose. But

experience teacheth, that when the Lamp burneth it grows empty by degrees, but the Oyl will not descend of itself. The cause thereof is, that the fire when it burns rarefies and attenuates the Oyl, that being rarefied swels, and swels forth at the hole D. and the lighter part of it in the mean time ascends to the top of the Lamp, where A. is written, which being filled with much Ayr, fils it up more and more, increasing by degrees, untill all the Oyl be spent. Wherefore it is necessary to take great care for this, that the Pipe D. E. F. be not too short, or the Wick too great in F. for both wayes the Oyl will too soon swell and run forth. Thus the Athenians found out a Lamp, which they placed before the Image of Minerva, which would burn all the year. For A. B. C. D. the space



A Candle or Lamp to last all the year.

Because we speak now of a Lamp that had its mouth beneath, whereby the Wick is supplyed, I shall shew, not that it is indifferent but necessary that it must be so, if the Lamp be to burn constantly. For if the mouth of the Lamp should be in the upper part, that the Oyl may be consumed, the fire will still be farther removed from the Oyl, wherefore it will not burn well, nor will it last long. But if with a Corke and an Iron it descend into the Lamp, it will indeed last the longer; but if it be a long Lamp the fire will lye hid under the Lamp, nor will it burn above it, and the light will be dull; if it be a broad Lamp, it will darken the light, yet it may last long; wherefore this way you shall make a Candle to continue a whole year. Let the Lamp A. contain as much Oyl as will serve for one day, make B. sixtimes bigger, and



joyn that to A. above it, then make C. fix times as big as B. and joyn it above to B. Itrongly. Then make D. fix times as big as C. with one fixt part, and joyn it after

四日日日

12 .00

日の日

HE

the fame manner to C. and let the whole Lamp be well and close Sodderd, and will hold Oyl for a whole year, and the Wick alwayes burning and giving light, Cardan, de warietate.

Of the Secrets of Painting. 'Chap. 6.

To make Ultramarine blew without Lapis Lazuli.

Take Silver calcined with Aqua fortis one ounce, falt Armoniac two drams and half, Vinegar what is sufficient: mingle them, and leave them awhile, untill the

matter fettle at the bottome, then when the Vinegar swims on the top, take it off matter settle at the bottome, then when the Vinegar swims on the top, take it off gently: but the rest of the matter lest at the bottome, must be put into a Glass Retort, well stopt for twenty five dayes, and you shall have most pure Indian or Olica-marine blew. The same.

A colour of the same to Write and to Paint.

Take Verdigrease, Litharg, Quicksilver, of each what is sufficient: grind them and mix them well with a Boys Urine, and you shall have a most beautifull colour like to an Emrald, either to write or Paint with.

Take Verdigrease well ground, what is sufficient, Sassron sour hairs, put them into the strongest Vinegar, adding as much juyce of Rue; then when Cloathes are first wet in Urine and dryed again in the shade, and dryed twice or thrice in the juyce, and again dryed in the shade, they will be perfect. Alex.

Take common Oyl or Oyl of Linseed very dear one pound, Allum bruised half a pound, mingle them and put them over the fire in a Pot, untill the Allum be disposed, then add as much Verdigrease ground into very fine pouder, that it may be covered in the Pot by the foresaid Oyl; then laying on the cover, take it from the fire, and let it stand so eight or ten dayes, then grind it well again, adding a little Rossin water to it, and the colour will be very fair, and like to a natural Emrald. The same.

The way to make all forts of green Leaves, that they shall appeare

Take green Leaves, and bruife the great Veins on the backfide with some Woodden Pessle, then colour them with this sollowing colour: Take common Oyl, or Linseed Oyl, or of any other thing that will make a smoake, what you need, burn this in a Lamp setting an Earthen Pot over it, that it may receive all the smoake. Then collect diligently all the smoake that sticks upon it, and mix it with Oyl of liquid Vernish, and make a Tincture, and Dye the bruised side of the Leaf therewith, with a Linnen Cloath or Cotton, then lay the side that is coloured upon a double Paper, pressing it lightly down with your hand, or some Cloath, that the Paper may be Dyed. Then taking away the Leaf neatly, you shall find the Paper curiously Dyed, to every small Vein, that it will seem to be naturall; If you would have them look green, take the sharpest Vinegar, Verdigrease, thrine, of each what may suffice, boyl them, and make a green colour, and with this Dye the Paper that is formed, and this way you may many make gallant things, to adorne your Chamber within side. The same.

To colour Ivory and bones with a green colour.

Take Aqua fortis, and let it devour as much Brass as it can, lay bones into that of what fashion you please to make them, for one night, and they will seem to be true Emralds for colour. Mizald.

Madder Dyeth the bones red, and the feet of Sheep, if they feed on it fome dayes, though they touch not the root that is red. The fame thing may be feen in the fielh of this Creature boyld and rofted, for they have a skin as red by this means, as if they had been Dyed with Brasil or roots of wild Bugloss. The fame.

Take a Touchstone very well ground with the white of an Egg, and make a liquor

DI

att

H

ot

de

福

the

Pare

tat

the.

quor and write therewith, and rub upon the Letters, Gold or any other Mettal, and it will receive the colour of it. Alexim.

A golden Liquor to write withall, and to ever Iron, Wood, Glaffes, Bones, and other things with Gold.

Take a new Egg, break a hole at one end and take forth the white, and fill it with Quickfilver, and falt Armoniac finely poudred, that there may be two parts of Quickfilver, and one of falt Armoniac; when the Egg is filled, and the matter well mixed with a stick, put a cover over the hole, and then Wax, then putting half an Egg shell over this, lay it in Horse dung twenty five dayes: Then take it out, and you shall have a most fine coloured Liquor for Gold, to Write or to Paint any thing; if the matter be too hard and thick, mingle some Gum water with it, and it will be better. The same.

A golden Liquor without Gold.

Take the juyce of fresh Sastron flowers, or if you want that, take Sastron ground, and the best Orpiment, and clear, of each one part; mingle and grind them with Goats Gall, or Gall of a Pike; which is better; then when it hath stood in some Vessel some while under the dung, take it away, and keep the Liquor to write withall, and Paint, and you shall have a most pure Gold colour. The same.

Take dwarf Elder berries that are ripe, what is sufficient, bruile them, and lay them in a hot place sometime to ferment: then bruile them again, and press forth the juyce in a Press; then take Quicklime halt a Dishfull, put it into some Posnet pouring water upon it, untill the water swim above it, two or three Sawcers full, then pour off the water, straining it gently, and wet fine old Linnen Cloathes in it, and dry them in the shade; Then boyl some Allum in water, and after that cast in the foresaid Cloaths, and let them boyl a while; when they are well dryed in the Sun, dip them twice or thrice into the foresaid juyce, and dry them in the shade, placing them equally upon some Net, that the colour may not run off from any part, and so you shall have coloured Clouts, that must be kept in some place from the Ayr and dust. And this is the true way to Tincture Cloathes, with any colour to Paint or Write, which was alwayes observed by a Noble Painter whose name was Evangelijta, and he much approved it. The same.

Solid and fair Images.

Lantern Horns with clear Fish Glew are with water made into Formes and Figures, and chiefly naked Girls are made therewith: for it easily takes a Rose colour upon the Transparent white, nor will that Union be diffolved by repercussion of the fire. You may have lively Images made thereof, and divers Flowers and Herbs of fundry colours, that many live by this Art only. Cardan.

Take the best Lapis Lazati, that is Marble, and of a blew colour, and that is well Dyed with some Golden and green Veines (such a stone being long burnt red hot in the fire, then laid to cool will not break, but remains hard and blew as before) one pound, break it into small pieces, and put them into burning Coles, untill they be very red hot; then quench them in distilled Vinegar and dry them, and with the sollowing water, grind them like to Vermilion upon a Porphyr stone. Take Spring water one measure, Crude white Honey two ounces, mix, and boyl them, skiming them well; then when it is taken from the fire and grown cold, add by degrees not too sast, the bigness of a Nur, well ground of Dragons blood, then strain it through a Cloath. But observe that the water be not too red nor too clear, but between both namely it must be a clear Violet colour, that the blew colour may take a Violet colour. Then grind the foresaid stone thus prepared very sine with this water like to Vermilion, for one hour or longer; then set it assed in a larg open mouthed Glass, and dry it in the shade. After this bring it into very sine pouder, and keep it in Linnen Cloathes thick Woven, and tast bound up; when this is done make a Cake. Take Rosin, Colophonia, Massick, Linseed Oyl, Turpentine, new Wax. of each two ounces, bruise what will be bruised into very sine pouder, mix and boyl them,

BOOK

Msu

of the second

明の日本は

国が最高の時間数の

for

untill it be finished, stirring it continually. It is enough, if a drop of it be dropt into cold water, and it will not stick to your hands being moyst, when it is hot strain it through a thin Cloath into cold water a Bason full, (for when it is cold it will not run) let it lyc fo long in the water untill it be grown bard, then take it forth, dry it, and mingle it with the forelaid pouder this way. This Pafte when it is broken into fmall pieces, must be put into a Brass Vessel, tind within, and fire must be set under; when it begins to be hot, prefently pour in one ounce of bitter Oyl of Almonds, and let them boyl a little while together, but not long; Then you must have the pouder of Lapin Lazuli, ready in another Veffel, and let some body help you to stir it continually with a stick, whilst you pour forth of the other Vessel the matter gent-ly into the pouder: and this must be done until they are excellent well mingled: when they are cold, you must work them with your hands, first wet with Oyl, and knead them well and make Paste like to Bread, and keep it in some Glass Vessel at least ten dayes. When you will extract your blew; take a Lee made of Vine Ashes, and let it be so hot that you may endure your hands in it : than take the Paste, and put it into a Glazed Veffel, and pour as much Lee to it as you think fit, handle the Passe gently and work it, untill you see the Ultramarine appear and come forth; When you see that, pour off the Lee with the blew into some Glass Vessel, then with other fresh hot Lee in another Vessel, work it again, and handle it as before, and alwayes so proceeding and repeating of it, untill all the blew be come forth. But observe that from every pound of Lapis Lazuli you shall lose but one ounce, and there remain eleaven; namely, of that which is perfect five ounces, of the middle fort three ounces, and three ounces of the last fort; one ounce of the pure and best is worth at least two Crowns and half, the middle fort is worth one Crown, and the worst a third part of a Crown; when you have extracted all the blew, observe well the fimilitude of it, that you may joyn like to like in three divisions, then in clear Lee, wash every part by it self, changing the Vessels, untill they be pure and well cleansed from the filth of the Paste, then dry it in the shade in a close Chamber. Then take Aqua vita one cup, and steep in that a little of the best Verzium, and with that water besprinkle your blew, then dry it; do this for three dayes, that all the blew may participate of the water, and so it will be a pure colour and excellent. They must be severally laid up in bags of Leather. Alexinu.

Take Purple Flocks one pound, boylthem in Lee untill the colour come forth, then strain the Lee and presse forth well all the substance; If there be any more colour in the Flocks, boyl it again in fresh Lee as before; then set all the Lee thus coloured at the fire, and let it not boyl; add bruised Allum to it, dissolved in hot water five ounces, strain it into some Glass Vessel, pouring on hot water, and do that so long, untill it be no more coloured, but clear without any colour at all; when this is done, take forth the colour that temains in the Strainer, dry it in the Sun and keep

it. The Same.

To Dye Bones green.

Put a great piece of Quicklime into Fountain water one day, the next day stir it with some stick, and at Noon again, and in the Evening, then strain it and keep it. In the mean time take the bones to be Dyed, and boyl them in common water, wherein as much Allum is dissolved as can be; when they are well boyled in the forestaid water, take them out and dry them, and scrape them a little on the outside, then put them into the forestaid water of Quicklime, adding Verdigrease what is sufficient; boyl chem all well together, then take them forth and dry them, and make what works you will of them: if you want Lime water, take Piss, which is held to be as good. The same.

Another to Dye Bones or Ivory green, like Emralds.

Take Aqua forth and let it consume as much Brass or Copper as it can, put your bones into that, first wrought into divers Formes, and let them lye there all night, and they will be of true Emrald colour, if in the former water you put Silver instead of Brass it will be better. The same.

XVI

William

明

四四

Tunden

are the

on.

野野原

4,200

iom;

tion

titte,

chorn.

of the

11,200

More

NAME OF

Hite

Thy

, then

NI II

201-

US-USC,

nake

To Die Bones red or blew or other colours.

First, The Bones must be boyld in Allum water, as I said: then Lime water or Piss must be ready, into that Verzinum must be put, or marking stone, or blew, or some other colour, together with the bones, and they must be well boyld, and so bones may be Dyed of any colour. The same.

A rare Secret to Dye Wood Severally, which Carpenters use to make

In the morning take fresh Horse dung, and get wet straw and all what is sufficient, lay some Wood across over this, and a Vessel underneath to receive the Liquor; If in one day you cannot have enough for your use, gather as much the next; the third and fourth day as may serve your turn: Then strain it, and add to every measure of that Liquor, Allum and Gum Arabick, of each the quantity of a Bean; In that Liquor temper what colours you please, and make divers Vessels, it you will have diverse colours; When this is done, lay your pieces of Wood in the Vessels as you think sit; and set them in the Sun, or by the fire: when you will use them take forth some pieces, and leave the rest within, for the longer they lye in the Vessels, the better will the colour be, so shall you have Wood of sundry colours, some clearer, some darker, and no Art can wash them out. The same.

All forts of Wood may be made like to Ebony, but especially those that are the hardest and the clearest, as Box. Cedar, the Mulberry both white and black, these Woods are the chief of all for this work, yet the black Mulberry is the best; Take therefore some Wood of these kinds, and lay it in Allum water three dayes, either in the Sun, or by the fire, that it may only be hot, then boyl it in common Oyl or Oyl of Sesama, wherein there is as much Brimstone and Roman Vitriol, of each the quantity of a Hazel Nut, for a little time; the more you boyl them, the blacker they will be, so you boyl them not too much. For that will burn them and make them brittle. If they be boyld as they should be, nothing can be desired more handsome.

Take dwarf Elder Berries, or common Elder Tree Berries, as much as you think fit, first boyl them, and smeer the Skins therewith, and wash them very well, and then wring them forth: Then take the Berries as before, and boyl them in water where Allum hath been melted; again wet the Skins in the same water once, and dry them, and Dye them again, and wash them in Fountain water, and with a Knise on the other side scrape off the water, this being done, Dye them again, with some of the former colour, dry them and they will be very blew. The same,

The Skins must be first wet, washed, pressed sorth, and stretched out as before, then put them into water wherein Tartar hath been boyled, and Salt, then being wrung forth, add to the former water, Ashes of burnt River Crabs what is sufficient, and tub the Skins very well therewith, then wash them with common water and press them forth; Aster this take madder root what may suffice, mix it with water of Tartar, and tub the Skins well therewith, then again add the Ashes of burnt Crabs, rub them and wash them, and wring them forth, then Dyethem with Brassil Wood, especially if they do not yet seem red enough; Madder roots must be temper'd with hot water wherein Tartar hath been boyled, and they must stand all night, then there must be added some Allum made of Wine Lees, or Allum Catinum dissolved in water; Also the Skins may be Dyed with the shearings of Purple, boyled in hot Lee, and with a colour drawn from thence they will be very sair. The same.

Take purging Thorn, Allum, of each what may fuffice, Fountain water as much as will fwim one fingers breadth above them, mix them and give them one boyl: then when this is strained, the Skins first wet, washed, and dryed must be well rubbed, with the said Berries boyld; then rub them again, with pouder of Alluma

Allum, and next with Sheeps dung burnt, and put into the forefaid water; then again with the berries; and when they are again washed in the water and dryed, let them be twice Dyed with the colour, and they will be perfect. The same. 弘中

into

田田

070

the

det

OX

from Britan great boy from the fire

B b

WO

It2

HY がい

地學

Otberwise. Take the ripe Berries of purging Thorn, then boyl them as much as you please in water of Allum, with this twice Dye the Skins, being Imeered with it, washe, and wrung forth: when they are dry, let them be Dyed yellow with Privet Berries boyld in Allum water, and a little Saffron, and they will be fair.

To Dye Skins blew another way. Rubthe Skins only with the Husks of black Grapes, untill they be Violet colour, then with pouder of Indico, rubthem well, wash them and dry them. Also Indico pouder may be temper'd with red Wine, that the Skins washt therewith may be Dyed. The Same.

To Dye Skins red. Let the Skins be well washt, then laid in Galls for two houres, and wrung forth, they must be Dyed once with a dark colour, with Alum water boyld with Verdigreafe; Then smeer the Skins twice with Verzinum boyld with Lee. But if you would Dye the Skins like Does Skins, the dark colour must be boyld in Lee The Same.

Another to Dye Skins green. Take Berries of the Elder Tree bruifed, and of dwarf Elder Berries and purging Thorn bruiled, what is fufficient, Allum as much as you pleafe, mix them, and first let Privet Berries boyl once in the Lee, then add the Berries of both Elders, and when they have once boyled also, take them off the fire, when they are cold, first rub the Skins with the Berries, then with Sheeps dung burnt, after that wash them with the water of the former Berries, and scrape off the water from one side, and dry the Skins. If they be not Dyed enough, with a Pencill Dye them again, adding fome powder of Indico to make them more perfect. The fame.

To Dye Goats Skins green.

Take Goats Skins Male or Female, polished with a Pumex stone, then annointed with Oyl, and last of all washt; after this rub them well with strained hot water, wherein there are one ounce or two of beaten Galls, leave them fo one hour, then take them forth, wring them out, and streech them abroad. Then take the Berries of purging Thorn collected in July, when they are green, dry them and pouder them finely, mix with the pouder of the faid Berries two ounces of poudred Allum for every Skin, pouring in hot water upon them: when it is cold pour it forth upon the Skins, prefling the colour in with your hands; After this add a little Goats dung burnt, and bruise and rub them again, then wash them, and scrape off the water with a Knife as before, and stretch them forth. Then take the Privet Berries well ripe, and boyl them whole in Allum water a while, with this and the Berries being cold, rub the Skins with your hands, and strew the said Ashes upon them, wash them with the water of the Berries being hot, and scrape it off with a Knife; then when they are once with the Pencill Dyed with the green water, dry them and they will be perfect; If you would have the colour darker, when you boyl your Berries and Allum, add a little fine pouder of Indico.

The Dring of Skins with the Flowers of Lillies Take fresh blew Lilly flowers, dry Ferries of purging Thorn, Allum, bruise them all, and mix them with a little Spring Water, and keep them in some clean Vessel; Then when the Skins are first annointed and washt, Dye them with the Berries and Ashes as I said, then wash them, scrape off the water with a Knife, and dry thems After this Dye the Skins, with the forefaid colour kept in a Veffel, then rub them, wrinkle them, Imooth them according to Art. The fame.

To Dye Bones blew and red. Since all white Bones, especially Hartshorn may be Dyed, take what Bones you please; which being first prepared and firted for your use, boyl them a while in Allum

lum water, then take them forth and dry them; After this take Verdigreafe, Goats Whey, of each what is sufficient; mix them, and together with the Bones set them in some Brass Vessel fifteen dayes in Horse dung; then take them forth and they will be compleat; If you take for Whey, Pils, you shall do excellent well; would you make them red add Vermilion, or Lac, put them into some Woodden or Glass Vel-Icl, and not into Brais. The Same.

To Dye Hogs Brifiles or what Brufbes are made of to Erufh Cloathes.

Take the Briftles well washt, then put them so long into water where Allum is boyld, untill they look somewhat yellow, then take Madder in pouder, what is sufficient, and lay it in Ginegar, and after that pour all into boyling water standing over the fire, and when they have boyld a while, take them from the fire, and let them stand untill they be cold, and they will be compleat. The same.

The Briftles being first washt, and boyld in Allum water, must be Dyed with a dark colour, and Saffron, if you would have them yellow, or with the juyce of either Elder, or Lilly Flowers for blew, or Verdigreafe for green; fo doing this, and making experiment, you may Dye Briftles of many other colours. The fame,

To make Purple, and a Golden colour, to Write and Paint.

Take Pewter melted in the fire one pound, and add to that when it is removed from the fire, Quickfilver eight or ten ounces, flirring it continually, pouder of Brimstone and salt Armoniac poudred, of each one pound. Mingle them all very well, and grind them in a Mortar, of Stone, Glass, or Brass, then put them into a great Woodden Retort, Luting the Veffel two fingers higher then the matter, and boyl them in a Furnace, first with a very gentle fire, then augmenting it, and still ftirring with a ftick, untill they turn yellow, then take them from the fire, and let them cool, and to shall you have a most gallant Purple Tinctured with a Golden colour; which must be after this ground with Lee and Pifs, or with Lee, adding a little Saffron thereto, it must be diluted, and tempered with Gum Water, as I shall fpeak more plainly underneath. The fame.

The way to make Lac of Verzinium. Take any Flocks one pound, boyl them in two Sextarii of Lee, untill the Flocks diffolve in the water. Then put it into some Stone or Wodden Vessel, casting in by degrees Allum powdred one pound, alwayes ftirring with a Woodden Spatula, then again two Sextarii of cold water being poured in, by degrees, you must strain all in a Bag, and keep what stayes behind in the Bag, in a Glass Vessel. Then take rafpt Brafil Wood one pound, and boyl it in a Sextarius of Lee, or one pint and half, untill it be boyld away a fingers breadth; ftrain it, and add Gum Arabick poudred one ounce, boyl it again untill half a finger be wasted, then add thereto the matter kept in a Glass Vessel, mix them well, then strain it and take it forth, and make Pils of what is left in the Strayner, and dry them in the shade, and they will

be perfect. The fame.

122

275

m.

TIS

bo

The way to make white Table Books to Write in and sub forth again, with

a Brafs Pen, Such as are made in Germany. Take clean fifted Gyp what is sufficient, and diffolve it with some fort of Glew, when it is dry scrape it and polish it to make it clear. Then dissolve it, and scrape it as before. After this take white Cerule poudred and fifted what is fufficient, mix it with Linfeed Oyl boyled, and make an Unguent to fmeer over the Tables, and when they are well annointed, let them dry in the shade five or fix dayes, then polish the Tables with some Cloath dipt in water and wrung forth again, and let them frand fo fifteen or twenty dayes, untill they be well dryed, and use them to Write with, and to rub out what is written. The fame.

A way to make red Ink.

Take Rasped Brasil Wood one ounce, Ceruse and Allum of each two ounces, grind and mingle them, and pour as much Pils upon them as may cover them, let them abide to three dayes, ftirring them three or four times aday, then strain it through Linnen, and put it into some Glazed Pot, from the Sun and Ayr; and when

#### 324 Secrets in Dying Bones and Leather. Book XVII.

You would Write with it, temper it with Gum water. The Same.

Take Linfeed Oyl three pound, Vernish, Colophonia, of each one pound, Saffron bruised half an ounce, mix and boyl them so long at the fire, untill a Hens Feather put into them and pull'd forth again, seem to be burnt: then take them suddenly from the fire, and cast in by little and little Aloes, Hepatica poudred one pound; stirring it still well with a stick, least with too great heat they should boyl over; for when they rife, you must take them suddenly from the fire, untill they sink down again; then set them on the fire again, and boyl them so long, untill they are well mixed; then take them from the fire, and when they settle, strain it and keep it in some Vessel: And if for Saffron you take the yellow showers of white Lillies you shall do well; But if you would Gild your Skins, first lay on Silver Leas, or Tin, with whites of Eggs or Gum Arabick, then annoint them with the foresaid linguent, and they will suddenly receive a Gold colour: after that dry them in the Sun, Printing on the Formes, or Painting them, and they will be most beautifull. The same.

Take hard Sope scraped what may suffice, dissolve it in common water, then lay in the Silks wrapt in some fine Linnen Cloath, and boyl them at the fire half an hour, stirring them some time that they stick not to the Vessel: Then take them forth, and wash them, first with Salt water, then with fresh, and for every pound of Silk take one pound or more of Allum dissolved in a sufficient quantity of cold water, and lay your Silks without the foresaid Cloath into that for eight houres. Then take them forth and wash them, first in fresh water, next in salt, and last in fresh, suddenly casting them into a Kettle, with Cochyneal thus prepared. Take for every pound of Silk, Cochyneal poudred three or sour ounces, boyl them in so much common water as will cover the Silk sour or six singers, adding to every pound of Silk, Galls beaten to pouder three ounces, if you want Galls, take instead thereof white Arsenick half an ounce, for a pound of Silk, which will make the colour better, but that the water and the steam thereof is very dangerous. When it begins to boyl cast in the Silk prepared as Isaid, and boyl it four houres, then take it forth and dry it in the shade, and it will be persect. The same.

Take Verzinum what is sufficient, and boyl it in a sufficient quantity of water, untill a third part be consumed, or untill it be four coloured; then take it from the fire, and divide it into four parts, keep one by it felf, and that will be Rose colour, add to the other a little Lime water and it will be red, to another a little Lee, and it will be Violet colour, to the last a little Allum and Argal, and it will be a dark blew, but when you add these, the Verzinum must be warm. The same.

Take a measure of common water, and add as much Lime to it, as the quantity of a Nut; then let them stand so all night, and take Verzinum scraped what is sufficient to fill the Vessel half full, and pour upon it Lime water strain'd, let them stand sour houres, then boyl them, until half be boyldaway: Then take them off the fire, and pour them genly into some other Vessel; and add to it a little poudred Allum, about the bignesse of a Pease, and keep it. If you would write with it, add some Gum water to it, but if you had rather have it red, add Lee sour ounces more or lesse, and it will be persect.

Take black Myrtle Berries two pound, 'Allum one ounce, burnt Brass half an ounce, water half a measure, mix these in a Brass Kettle, and boyl them untill two fingers be wasted, strain it when it is cold, and put it into a clear Vessel, and leave it untill it be thick enough.

Take Wine or Vinegar as much as you please, put fine pouder of Alluminto it, when that is disloved, make a strong Lee of Lime, then take Erasil Wood and Allum

Tak well;

jaret

thison

Take fac, or Take aidal

Tal cut the posite

Tz thema

000E

link, tody flings pour

Tal grade

Vella tien This

· ·

ming Paso

and no Wi

8 8

IVI

は、一個

# in

Th

四日

原房 原 异 草

707

in

MIL

CW.

6.65

NO.

Allum what is sufficient, and wrapping them in Linnen, hang them in the Lee, and leave them there one day, then press forth the Liquor, and hang them in again; do this over three or four times, when you have pressed forth the colour the fourth time, leave it to dry. The same.

Another.

Take red Lead two parts, white Lead one part, pouder them and mix them well; or take Orpiment and red Lead of each one part, and mingle them well. The fame,

How to make a bright Bay.

Take Brasil Wood ground, and white Vitriol, mix them and boyl them at the fire, or mix red Lead and Gums with a black colour what is sufficient. The same.

Take Berries of purging Thorn about St. Lawrence day gathered, bruife thefe, and add a little poudred Allum and keep it in a Brafs Veffel.

Take Pomegranate Pills, take away the ruff outward skin; cast it aside, and cut the rest into pieces, pouring on water, boyl them twice or thrice at the fire, add poudred Allum, and let them boyl once more. The same.

You shall make an excellent yellow colour; if you mix the yelk of an Egg with Saffron: Or take Saffron and pouderd Allum, and put them into a Linnen Cloath, pour on Vinegar and press it forth; also you may mingle Saffron, the yelk of an Egg, Gum Arabick and Allum, and keep it for use. The same.

To make a green.

Take Berries of purging Thorn, gathered after the feaft of St. Michael, bruife them and pour on water, and add a little Allum, mix them well, and leave them so two dayes. The fame.

Another:

Take Honey what is sufficient, add some Vinegar to it, more then the Honey a little, mix them well in a Glass or Copper Vessel, which is better, stop it, and set it twelve dayes in Horse dung; Also take distilled Vinegar, pour it into Copper, put in shings of Copper, and let them stand in a hot place; when the Vinegar looks green, pour it off into some other Glass Vessel, pour on more Vinegar, and set it aside as I said; do this repeating it so often, untill you have colour enough, strain it and leave it to thicken. The same.

To grind Gold to write and to Paint.

Take as many Leaves of Gold as you pleafe, Honey three or four drops, mix and grind these, and keep it in some Bone Vessel; if you will Write with it, add some Gum water to it and it will be excellent.

Take as many Leaves of Gold or Silver as you please, put them into a clean Glass Vessel, and steep them with water a finger deep only, untill they be well steeped a then fill it with common water, and mingle them, and let it stand half an hour; This being done, pour off the water gently, that the Gold may remain in the bottome, which must be dryed and kept close covered in a Vessel, when you will Write with it, add some water to it. The same.

Otherwise with Purple.

Take Purpurine as much as you please, put it into a Vessel with Piss, or Lee, mingling it with your finger, and stirring it well; when that is done, fill it up with Piss or Lee, and leave it to to settle: then steep it again, changing the Urine or Lee so often, untill the last Water or Piss remain clear, then strain the Water gently, and to the rest of the matter add a little Saffron and Gum water, and make a Liquor to Write or to Paint. The same.

A Composition called Sisa, commonly in which Leaves of Gold are polished and set.

Take the best Gyp, Bolearmoniae, Aloes Hepatica, Sugarcandy, of each half a

dram, grind them all feverally, and placing one upon another, add a little Civet or Honey.

To fet Gold, a simple Composition.

Take the best Gyp, Aloes Hepatica, Bolearmoniae, of each one part, pouder them all, and beat them with whites of Eggs, and strain them; if it be too strong, add common water unto it.

Otherwife.

Take Gum water what is sufficient, and stick Gold in that alone, upon Paper, Parchment or Skins, and it will be good, also whites of Eggs, and Fig Tree milk are commended.

To fet Gold upon a black matter.

Take the smoke of Lamps that dyeth them black, and set Gold upon that with Gum water.

How Marble or Wood may be Guilded.

Take Bolearmoniac, Oyl of Nuts of each what is fufficient, pound them and grind them together: when you will lay on Gold, see that this Liquor be not moyst, not too dry. The same.

To make Gold Letters without Gold.

Take Orpiment, Crystall, of each one ounce, pouder them all, mix them with the white of an Egg, and make a Liquor to write with. The same.

To make Silver Letters without Silver.

Take Pewter one ounce, Quickfilver two ounces, mix and melt them together, then beat them with Gum water and write. The fame.

That Letters may be green.

Take Leaves of Rue, and pressforth the juyce, add Verdigrease and Saffron, of each alike, grind them, when you will write therewith, mix them with Gum water.

To write white Letters.

Take Fig milk what is sufficient, and set it in the Sun in a Glass Vessel for half an hour; when you will use it, take Gum water, mix and write with it. When you have written, all the Paper must be Tinetured with Ink, and when it is dry, it must be well rubbed with a Linnen Cloath, that the Letters written with Fig milk may be taken off, and those spaces may remain white; For that milk hinders the Ink to enter there. Yelks of Eggs also are held to be good, if a Liquor be made with the water beaten and one write with it: then the whole Paper must be dipt in Ink, and dryed, the Letters must be rubd off with a Knise or some Cloath, and the Letters will remain white. The same.

A green Liquor to Write and to Paint

Take Verdigrease what is sufficient, put it into Vinegar untill it melt, then stran it through a fine Cloath, and grind it finely upon a Porphyr stone with commin water, adding a little Honey. When it it well dryed, grind it again upon a Pophyr stone with Gum water, and it will be perfect.

To make blew another way.

Grind Indico as Verdigreafe, with Honey, but it must not be cleansed; It must be tempered with the white of an Egg beaten, or with Glew water, and not Gum water. Glew water is made of clear Isinglas, melted and strained as they do Gum water.

The way to make Vermilion to write.

Vermilion very well ground upon a Porphyr stone with common water, must be dryed afterwards and put into some Vessel made of Bone or Glass, and Pissmust be poured on, and so left to settle, for the matter will fall to the bottome, then pour gently the Piss off, and pour on fresh. When you have done this eight or ten times, it will be well cleansed. Then take whites of Eggs well stirred, and let them dissolve into pure water; pour that water upon the Cinnaber, that it may swim above it a singers breadth, and stir them together; then when it settles, take away the whites of Eggs gently, and pour on fresh, do this as often as you did it with Piss. This is

done

done for no other cause, but to take off the stink of the Pis; When all this is done add fre the whites of Eggs, and mix them well, and make a Liquor to write or to Paint. But this Liquor must be kept stopt up in some close Vessel. When you will use it, you must mix it with some Liquor : It will keep uncurrupted very

Aqua fortis for Silks, Marbles, and Linnen Cloaths to Gild them. Take Parchment Glew, and gently fmeer over Linnen Cloathes therewith, that the water may loake in. This done, take Cerule, Bolearmoniac, Verdigreale, of each one part; mix and grind them upon a Porphyr flone to pouder, put that into some Glazed Vessel, adding as much liquid Vernish as is sufficient, and set it at a gentle fire that it boyl not. But upon Marble you must not lay Glew but Aqua fortis. The fame.

How Books may be Gilded.

Take Bolearmoniac as big as a Nut, Sugarcandy as big as a Peale, they must be poudred finely together; then add whites of Eggs and mix them well, grinding them; Then take a Book well Bound, and being Imeered under the Press with whites of Eggs, and let dry, it must be smeered with the former Composition and fuffered to dry, then rub it well and polish it smooth. When you will Gild them, first wet them with common water, then suddenly laying on the Gold and pressing it down with Cotton gently, when it is dry polish it with a Tooth, and with a cold Iron Print Formes upon it. The fame.

To preferve whites of Eggs uncorrupt, to prepare Vermilion, and other colours

without Arfenick, athing that few know.

Take fresh whites of Eggsentire, and pour upon a hundred Eggs a third part of Vinegar, and leave them fo twenty four houres; Then strain it through a fine Linnen Cloath gently, that the whites of Eggs may not break; let them stand so eight dayes; when they are strained again, keep them for use in some Vessel

Aqua fortis for Painting. Take Gum, Armoniac, three parts, Arabick one part, Sagapenum four parts, mix them and put them into Vinegar, untill they grow loft, then beat them, ftrain

them, and keep them for use. The fame.

Another for the Same.

Take Gum, Armoniac one ounce, Arabick three ounces, let them frand twenty four houres in Vinegar, untill they grow foit, then add yellow Honey the quantity of a Nut, one head of Garlick cleanled and bruiled, a little Aloes Hepatica, mix them and boyl them awhile in Vinegar, strain them, and press forth all the subflance. If it be too moyft, boyl it again to a fit confillence, and keep it in some Glass Veffel; when you will use it, Tincture that with it which you would Gild, when it is dryed, and made moyft with your hot breath, prefently clap on your Gold leaves; and with a Pencil or Cotton keep them on.

A way hitherto not known, but cafe, to grind Gold or Silver of a pure

colour; which may be polished and illustrated with Gums. Take as many Leaves of Gold as you please, set them to the fire in a Crucible, then take four times as much Quickfilver, and let it likewife to the fire in another Crucible, but not near that it may only heat; But the Gold Leaves must be so long left at the fire, untill they begin to wax red, but do not melt, then take the Crucible from the fire, and mingle the Quickfilver with the Leaves of Gold, stirring them a while with some stick, then suddenly cast them into a Dish full of water, and make an Amalgama. If you defire it otherwise, grind your Leaves of Gold with Quickfilver upon a Porphyr stone, untill they be very well mixed, then wash them twice or thrice with common water; If you add a little Vinegar or juyce of Lemmons, you shall do best, for they will mingle better and sooner; Take this mixture prepared either way, and press it through a fine Linnen Cloath, that some part of the Quickfilver may come forth, or press it through some white Does or Lambs skin which is better : what sticks in the skin must be ground well with live Brimstone, so that it



too thin, add some Gum Arabick. But your Galls must be small, hard, crisped, your Vitriol blew, and your Gum clear and crumbling. The fame.

Ponder for Ink that any man may carry with bim on his Journey, to temper with Wine or Water, and this Ponder

makes Ink better.

Take Peach or Apricock, or Almond stones sweet or bitter, put them in the fire until they burn red hot, then take them out and keep them. After this take Pitch Tree Rosin what is sufficient, put it into some Porto the fire, and when it is kindled with some Cole or Candle; put on the cover, that it may smoke and not go out, and the smoke be well received; when the Rosin is all consumed and the Vessels are all cold, wipe away the moyfture that flicks upon the cover and keep it. If one will not spend so much labour to make it, he may buy it of those that make Printers Ink. Take one part of this smoke, pouder of the burnt Kernels two parts, Vitriol one part, fryed Galls, as I said before, one part, Gum Arabick four parts; pouder them, fift them, and mix them for a pouder to be kept in Leather. When you will use it, take a little of this pouder, add a little water to it, Wine or Vinegar, mix them, and Write therewith. Thus you have Ink suddenly, that any one may carry with him, without danger to spill it; If you add this Pouder to ill Ink; it will be petfect. The same.

Ink easie to prepare of no great price, not only fit to Write, but al-

To to Print Books. Take of the Tincture Hides are Dyed with, as much as you pleafe, Cuttle Gall what is sufficient, mix them for Ink. But if you will make it better, add the foresaid pouder of Coales, Vittiol, Galls and Gum. Books may be also Printed with this Ink, especially if a little Vernish and Linseed Oyl be added, that it may be more liquid and hold faster. But Ink to Print Books is made only of the smoke of Rofin, as Isaid, adding liquid Vernish what may suffice, and boyling of it a little, make thick or thin Ink which you will. In Winter it must be more liquid, in Summer more firme; if you will make it more liquid, add more Linfeed Oyl, if thicker less, and more of the smoake, and boyl it better, but thick Ink makes the neater Letters. If you will make red Ink, instead of smoake take Vermilion finely ground, as much as you please; for green, take Verdigrease; for blew, as they used Some few years past, take Germane blew, or Glass Ammil, which comes from Venice. The rest are performed as we speak of common lok. The same.

A Liquor to Write with shall be whiter than the Paper, and you may read it when it is Written.

Take Egg shels very well washt, and grind them upon a Porphyr Marble stone with Water, and let them stand in a Dish untill the matter settle to the bottome, then pour off the Water gently, and dry the matter either by it felf, or in the Sun; When you will use it, take Ammoniacum, taking away the yellow outside, what is sufficient; put it into distilled Vinegar, for one hour, untill it be dissolved, then strain it, and add some of the forelaid pouder to it, and you have the whitest Liquor that is to Write or Paint with. A chief Dame of Italy uleth this Liquor to Paint her face. because it hurts not the skin, nor Teeth, but whites the face as if it were natural. But if you will use it for your face, the Liquor must be very thin, that it may last the longer, and penetrate the deeper; but if to this you add some little of burnt Lime, as I shall shew in the Book following, you shall make it excellent. The fame.

Ponder that rubs away blots of Ink, or Letters Written upon the Pa-

per; a thing most commodians and worth knowing. Take Ceruse well ground, Fig-tree Milk, of each what is sufficient, mingle them and make a Lump, when it is dry, wet it again with the Milk, and doing this fix times, pouder it and keep it; When you would take blots of Ink or Letters from Paper, take a wet Linnen Cloath, wring it forth, and wet the Letters or blots with the Cloath, when this is is done, strew on the foresaid pouder, and leave it so one night, then in the morning rub it gently with a dry Linnen Cloath, and you shall

fee the Paper very white, and fit to Write upon. If it hath not taken off all the Ink, do it again and it cannot fail. If the Paper be worn too thin with rubbing, it may be thickned with Glew, Wood is joyned with, eafily melted, and mixed with a little Ceruse or Wheat Meal to rub it with. The same.

A way to prepare Vernish for Parchment, or to smooth Paper we use to Write with , which is better and fairer than that we commonly use, nor doth it smell ill, as the ordinary Vernish doth.

Vernish that Scriveners use for their Books, is Juniper, Gum poudred; of this Gum also boyld with Linleed Oyl, liquid Vernish is made; Scriveners use the forefaid Vernish ground, that the Paper may take Ink better, and that it may not run through; But if you would provide better at less cost, take Egg shels cleanled and gently poudred, and in a Pot of Earth well covered with Water, let them stand in a Potters or Glass-makers Furnace, so long untill they are calcined to Ashes, sist them and make a very white pouder. When you use it, put a little upon the Paper, and disperse it here and there with a Hares foot, and what is over, wipe it off, and it will be excellent to Write with. But if after you have Written with this, and dryed it, you defire to take off the pouder, rub it a little with Crums of Bread, and it will wipe off all the pouder. The same.

> A Liquor to make Lines, which when you have Written upon them may be taken away, that they shall appear no more.

Take as much calcined white Argal as a small Nut, dissolve it in a Bason full of water, then strain it, and add as much pouder of Touchstone to it, as may suffice, mix it, and make a Liquor to draw Lines; when you would take them off, rub the Paper with crums of stale white Bread, and it will take them off that nothing shall be feen : This is a Secret worth knowing, and very profitable. The fame.

A reason to Paint solid things upon a plain.

But what is Painted upon a plain Table seems to be solid: and chiefly for two reafons, one is the shadow, whence the eye judgeth so. If there be a shadow it seems a dark and solid body. I think the sense judgeth thus from a continued custome, as they relate, that in the Islands newly found out, that were not before inhabited, Birds will not flye away, but be taken with Menshands. The other is to confider what part of the body is to be feen, as in a Cube, the upper part the forepart, left or right, the other superficies lyeth hid, therefore you shall place the shade to the light, that you describe before you half the height of the house, but the body for the Lines that are extended from the eye to the Cube above the plain, is to be fet at one corner, and the light must stand on one side. Again there is one reason for a Table that hangs on a Wall, and another for that which lyeth under our eyes and hands equidiftant to the Horizon. But in all this is general, that you must fet the Table in the fame place, and express the Angles and Points in the same plain, both to your eyes and the light, as the bounds of the thing feen. Tor when the Angles are equall, and are helped by colours and shadowes, they must needs represent the same bodies. For like represents the like, and the same the same. Yet remember to observe the place of equal fight, that is, the head of the Figure of a Man when a man is Painted on a Table, for all beneath that will shew low, and what is above it high, as if they truely were in such a posture, the eye will judg so. Therefore to make solid representations, observe these four Rule : the forme of the thing, taken by the beams of the eyes; the shadow, by the beames of the Sun; the colour, which must be no other than of that body under that light, and under that posture; and lastly, the situation upon the Table, as the Mans posture requires that is Painted, whose Crown must be right against your eyes. Cardan.

To make Figures boffing forth upon Wood. But I shall add the Invention of George Juschimus an Ingenious Man, who taught us how to make Figures upon Wood; you must take hard, round, polished Wood,

The Same.

not green, nor too dry, as thick as your fift or more, and lay it some dayes in Water, untill it fwell, work that with a punchion of Iron, and Margent as you see in this Figure, that it may not go in deep, when you have done what you defire, with a Turners Art, plain the Wood exactly, as far as the Chizel went in, then let it dry in the shade, for the parts of the Wood forced in will thrust themselves forth again, and reprefent the forme you made : the Chizel must be somewhat blunt;

A Golden Liquor to Gild Skins, Silver, and Glafi.

Take Linfeed Oyl three round, boyl it in a Glazed Veffel at a gentle fire, untill it feem to be enough, into which a Hens Feather cast and presently taken forth, may eafily acquaine you with it, for if when you take it forth it be bare, it is boyld enough, but if the Feathers stay on, it must be more boyld. But the fafer way to boyl it without any danger, is to make a Furnace that the Pot may be fet upon it; where no flame can come to the Oyl to let it on fire. When the Oyl is boyled cnough, take Pitch, Rofin, dry Vernish, of each eight ounces, Alocs Hepatica four ounces, pouder them all, and put them into the Oyl, and stir them still with a stick; especially now the fire being augmented, and boylthem to the confishence of a Julep. If the Liquor feem clearer and brighter than it should do, add of Aloes Succorrine one ounce and half, or two ounces, adding less of Vernish, and to the Liquor will be somewhat darker and more like to Gold. When it is boyld take it strait from the fire, that it shame not, (for it would consume all) then you must have the sharp pointed bags, and one of the ends must go into the other, pour the Liquor sudden-ly into this, that it may run out thin before it be cold, and so all unprefitable matter will stay in the bottome. This will keep long, and the older the better, it is Aloes makes that Golden colour, the rest make the body and thicken it. If you would have it thicker, when the Oyl is sufficiently boyled, take forth what you please of it, and then follow the order prefcribed; when it is done it will not be above three or four pounds, and it cannot be made of less weight. Artificers make forty or fixty pound together, and keep it well from dust. If you would Gild Glass or Pewter, touch them with a Pencil, and the Vessels will be of a Golden colour. Alexius. To make Marble or Alabaster of a blevo or Violet colour.

Take the juyce of red Carrots, blew Lillies, white Vinegar, of each what may fuffice. If the faid juyces are not at hand, provide them at fuch a time as the flowers and roots may be had and keep them for your use; or if one be wanting use the other alone: mingle them and boyl them a while, adding to each pound of the juyce and Vinegar pouder of Allum one ounce; Then lay your Marble or Alabaster in the faid Liquor, and boyl them fo long untill they be well Tinctur'd; If the Marble be too big to put in, let them only be made very hot in the place where they lye, and then Tinctur'd with the scalding juyce, and they will be curious. The

Came. How Roses or Clove-Gellistowers may be beautified.

Take salt Armoniac what is sufficient, grind it on a Marble with Vinegar, and a little Sugar-candy, and keep it for your use. When you will use it, take Roses or Violets, and with Wax stick them on, that they may lye plain, then Paint upon them what you please, with the said Liquor, and let them remain one hour, to dry; then lay on Leaves of Gold or Silver, and with Cotton press them gently down; what is not fast on, must be wiped away, and what you have Painted on will appear beautifully. The Same. To illustrate Picures.

Take hard white Rofin one pound, Gum two ounces, Venice Turpentine one ounce, Linfeed Oyl two ounces; First melt the Rosin at the fire, and strain it, then let the Gum stand in common Oyl, untill it be soft; When it is strain'd mingle all well, and boyl them at a gentle fire, stirring them continually, untill they be well mixed, then keep them for your ufe. If any clean Picture be announted with

this mixture it will shew very clear and bright. Alexins.

Another of the same that will dry suddenly.

Take male Frankinsence, Juniper, Gum, what is sufficient, mix them and make a very fine pouder, add Venice Turpentine what may be needfull, and mingle them well at the fire, strain it and keep it. When you use it, first heat it, and gently smeer the Picture over with it, and it will soon dry and be handsome.

Another of the same.

Take Linseed Oyl what you please, distill it in a Glass Retort, untill all the Oyl be come forth, take of it one ounce, Vernish and Amber three ounces, mix them well at a gentle fire, and make a mixture, which being hor, may be used for all forts of Pictures upon Wood or Cloath; But you must be industrious and skilfull to

That any one that is ignorant of Painting may with a Pencil draw the likeness of any Man, so he learn only to liken the colours.

This is done by the shadow reflected upon a Table underneath, or upon some strong Paper, (It is easie for one that hath skill.) If the Sun shine not, you must do it by Candle light: There are many other accidents, and you shall know them better than I can declare them, if you be diligent in your work. He that knows this may learn the principles how to deliver a message secretly or what he please, to one that is far off, and shut up in Prison, and no small Inventions depend upon it, you shall help the distance by the magnitude of your Glass, you have enough : They that boast they have done this, have told us nothing but trifles, and I think that no Man hath yet found it out. The fame.

Verses for colours or flowers to Write and to Paint.

He that will flourish Books with colours gay Must wander in Corn fields betimes it'h day, And Sundry Sorts of flowers he shall find, Those he must take of each in every kind, And bring them bome, not mixt, and one by one, Bruise them upon a polisht Marble stone. And grind them well with Gyp that's boyld, and fave Them for his use, be shall dry colours have; Into fresh green if you will change the bew, Do as I fay you'l have them alwayes new. Marcellus Palingenius.

A way to Paint Vessels and Glasses, of the Same Author.

You Artists that would fain learn to Engrave Glasses, this is the way that you must have. Pick up fat Wormes the Plough turns out of th' ground And let a Goat unto a post stand bound, And fed sometime with Ivy, his bet blond, Mingled with Wormes and Vinegar is good, To Smeer the Glass all over; this alone Serves to Engrave the Glaß with Emril Stone.

To Paint Glazed Veffels.

If any Man will Glazed Veffels Paint, Let him on Marble grind your Roman Glass, Into fine pouder, as I you acquaint, With Gum and Fountain water, at this paß Paint Potters Vessels, and when they are dry Put them into the Furnace, they must be Of Earth, that strength of flames and fire try, And from the Furnace Vessels you shall see
Fit for great Kings, but know that you must grind
Your Glaß full fine, between two Marbles red,
And mix it well with fat Gum to your mind,
Fast Pots with this must Painted be and spread,
Then dryed, and in a Potters Furnace well
Baked, for thus is right as I you tell.

How to Paint with green Glas.

Take you burnt Brimstone and calcined Brass, And mingle them with pouder of sine Glass, Thrice mix them all with liquid Gum, and let Your Pots be Painted and ith Oven set When they are burnt the colour will be green, Thus is the worth of Glass for to be seen.

Marcellus Palingenius.

Of white Glass to Paint Potters Pots.

White Glass for Pictures thus must be prepar'd

Mix burning Glass with Brimstone, and them beat

To ponder, for this pains must not be spar'd,

Then Paint your Poss, and do it very meat,

And set them in the Furnace, let them burn,

Well as they must, and this will serve your turn. The same.

A black Glafs to Paint those Veffels.

To Paint them balck you must grind Lazuristone With Gum, and mix fine ponderd Glass in one, Grind it full well, the colour will look blew But being bak't it taks a blacker hew. The same,

Tomake very green Glass.

Take of the finest pouder of burnt Brass, Mix it with Verdigreese to make green Glass, And poudred Glass must also added be Paint Pots herewith that shall ith Furnace bold To make them green this Art I do unfold.

To Paint Ivory, the Same Author.

To Paint your Ivory you must Engrave,
Upon the Bone such Pictures you would have,
And lay them in with Gold, a bladder of a Fish
Call d Husa must be had, and put into a Dist,
With Fountain water, if you boy! t'ewill melt,
This is the Secret, see you no Mantel't The same.

#### BOOK, XVIII.

Of the Secrets of Sports.

There are made Artificial Lights, by Lamps, Candles and the like, of some certain things and Liquors, chosen at convenient times according to the Stars, and composed in congruity with them, which when they are lighted and burn alone, are wout to produce some wonderfull things and celestiall effects, which Men oft admire, as Pliny speaks from Anaxilam, that the sperm of Mares when they take Horse being burnt in a Lamp, will make the standers by seem to have heads like to Horses.

Horses, the like is done by Asses, and Muscitiones mixed with Wax and lighted will make Flyes appear, and a Serpents skin lighted in a Lamp will make an apparition of Serpents. And some say that when Grapes are in the bud, it one bind about them a Viol sull of Oyl, and let it remain untill the Grapes be ripe, that Oyl being afterwards burnt into a Lamp; will make Grapes be seen; the like is done with other fruits. If Centory be mixed with Honey and the bloud of a Houp, and put into a Lamp, all the standers by will seem greater than they are, and if it be lighted in a clear night, you will think the Stars sight one with another. Also the Cuttle siss lighted and extinguished in the mouth of a Man newly dead, as often as it is lighted again it will make Men very sad and fearfull. Corn. Agrippa.

Let Orpiment finely poudred boyl in a new Pot with Oyl, it will not be amiss to put in some Brimstone to, set on the cover of the Pot, and let not the yellow smoke flye away; burn this in a new Lamp, and all the standers by will seem to want their heads, and hands, pressing their eyes with their fingers, untill it be lighted, and then you

shall fee it by degrees how it may be done. Alexim.

The Herb Hounds-tongue bound to the Matrix of a Bitch, will call all the Dogs of the Town or City to the place where it is hid or buried, and if it be hanged about the Dogs neck that he cannot get it off, he will turn up and down untill he be half dead. If you wear it under the bottome of your foot no Dog will barke at you. Albert.

If you put with Bread into the Oven a Nut shell filled with Quick-brimstone; Salt peter, and Quickfilver, when it waxeth hot the Bread will so leap up and down, that it will make all the Spectators laugh. Mizald.

How you may fee all things in the dark with their colours, which the

If any Man defireth to fee this he must shut all the Windows, and it will be good to ftop all places of vent, that no light may come into spoil all : only make one hole quite through, and let the hole be fashioned like a round Pyramis, let the base of it be toward the Sun, and the Conastoward the Chamber, over against it let the Wals be white, or covered with white Linnen or Paper; fo all things being enlightned by the Sun, you shall see Men walking in the streets with their heads downwards, and what is on the right hand will appear on the left, and all contrary, and the farther off they are from the hole, the greater will their shape be, and if you bring the Table or Paper nearer they will shew less; But you must stay a while, for the Images will not appear prefently : because sometimes the like makes a great sensation with the lenfe, and carryeth in such an affection, that only when the lenfes act, it remains in the things fenfible, and hinders them, but when they have done acting, they ftay long upon it, which is easie to perceive. For those that walk in the Sun, if they come to a dark place, that affection goes with them, that they can fee nothing or very hardly, because the affect made by the light is yet in their eyes, and when that is by degrees vanished we see all clearly in a darker place. But now I shall declare what I ever concealed and resolved to do so still : that if you defire to see all things, with their colours. Place a Glass opposite that may not dissipate and disgregate, but may collect and unite : then coming to it and moving it, untill you find the proportion of a true Image, by a due appropinquation of the Center, and if you look intently into it, that you can difcern the countenance, gestures, motions, and habits of Men, and Clouds in the Sky, with a blew colour, and Birds flying; If you can do this rightly, you will be very glad and wonder at it, all topfic turvey, because they are near the Center of the Glass; but if you shall fer them farther from the Center, you shall see them greater and in their right posture. That it may be more clear let the Sun shine upon it; if not, by directing the Glass, by reflection of the Sun it shall shoot forth, that it shall be illustrated with great brightness, yet at a due distance, so oft changing the situation, untill you know you have attained it: Hence Philosophers and Physicians may see in what part of the eyes sight is placed, and the question of seeing by intromittion is answered, which is so much disputed; nor is there any better way to demonstrate it: for the Species enters the sight of the eye as by a Window, and is like a Glass, a small portion of a great Sphere, being placed behind in the eye; If any one measure the distance, sight is in the center of the eye, which I know will much delight ingenious Men. The same.

The way to Dance upon the Ropes.

The way is this; A bold Man and experienced walks with naked feet upon a Rope very hard stretcht, and in his right and lest hand he holds a Weight of Lead, of ten, fifteen, or twenty pound; when he swarves to the right hand; (being carefull of his business, and also very bold) he stretcheth forth his left hand, and puts it forth, and draws it in, fo before the right hand can over-weigh the left he ballanceth them, and brings his body to an equall poys, and fo by degrees he brings his weights and arms to the former posture: this is necessary, for before he fall, one Weight must be heavier than the other. This poys is acquired by degrees, wherefore before he fals he ftretcheth forth and puls in his arm, and fo bends on the other fide, that he will not fall. He may fall if the Rope be not exactly extended, if his Limbs be a-ftonished in the mean while; If he do not carry his body well; or if he be weary, or want art or use, that he extend his hand too late untill he sinks, or extends it too much as to the contrary fide. I pals by that the weights must have a certain proportion or very near thereto, according to the weight, magnitude, and strength of every Man. If thefe fix c reumstances be, he is in no danger. Therefore a certain Boy with balls under his icer, and sometimes that into a Sack all but his arms, walked upon a Rope extended between the tops of Towers, we being much afraid of his life. Another ascended from the ground to the top of a Tower, which is harder, because his loins are much strain'd in this exercise. Also he let himself fall by the Rope down flat from the Tower without Weights to the ground, only stretching forth his hands: for he had such force in his hands and arms, that he used them for Weights; The fame Man, which is most strange, hung by his foot by a very small Cord from the Rope, from the very top almost of the Tower, a horrible fight. ffrength of his loins and back, he laid hold of the Cord with his hands, and returned back to the Rope. They both made us believe they would fall headlong, but the top of their foot held by the Rope, with their heads downwards, you may understand what force there was in the top of the foot, for they hung only by the bending of their Toes, and that backward. The Boy also with the balls cast himself headlong, and one of them sticking between the sole of his foot and the Rope, he hung fast I know not now, that he should not fall by the roundness of it. But the Art and boldness of Turk exceeded all credit and expectation. I say what I saw and all our Countrey also. They were two young Men with no great bodies, but well set, each of them at first taking a Man upon his shoulders, ascended by the steep Rope, to half a right Angle, and that without any help of Weights: then adding Daggers about three hands breadth in length that were very sharp pointed, and had edges like to Razors, faltned to their Ankles, they mounted again the lame way, with a Man on their shoulder, and so stretching forth the legs, that it is not easie to walk so upon plain ground, then laying a Plank upon the Rope, and having under his feet Stilts, which our Citizens call Scantia, he walked upon this Board thus laid, when as the Plank by it felf could not lye there one moment, then he put under his feet five round pieces of Wood, on both fides, that you might fee them all, but they were pierced through with an Iron Wyer, to make them hold fast together, and with these he walked upon the Rope, no Man can go so upon plain ground, nor yet stand therewith, the round pieces of Wood, that were no thicker than a Mans arm, salling here and there. After this laying under his feet round Brass Dishes, not bound, which he was forced to keep on with his feet by extending them, he walked upon the Rope. After this he stood sitting in a Kettle, and the Kettle stood tottering

upon the Rope, O horrible spectacle. But that which was next to a miracle, he withdrew his Pole and Weights from the Vessel, that the Kettle seemed almost to hang pendulous in the Ayr. For he brought his Spearthat was behind between the Veffel and the Rope before him; he Danced by measure upon the Rope, the Drum beating, and lometimes he cast himself headlong out of it, hanging only by the heel, (this I saw with my eyes) and sometimes by the Tarsus and boat of the foot. It would amaze a Man to see the other to stand upon the lesser Rope extended, which was not above an inch thick, and holding all his upper part unmoved, to move the lower part with the Rope fo violently; that here and there above twelve hands breadth he moved so swift as an Arrow from a Bow. But what was not so strange yet was above credit for humane power to do, that when he had ascended out of the field to the top of the Tower of Joves Fort, which is wonderfull high, with his Weights; then from the top of the Tower he ascended to the beam by the Rope, which stood so upright from the plain, that it was above three parts or four of a right Angle, and he came down more strang ly then he went up, namely headlon g as if he would have fallen upon his head. We observed that with his great Toes of both feet, he held the Rope against his other Toes to sustain so great force. And it could not otherwise be, that he should ascend a Rope that was so upright, or descending not fall upon his head. He would when he did this for a good reward, take up a Man upon his shoulders, but no Man would undertake it, it was so rash. No wonder that the greatest Princes are delighted with this sport it is so rare. The people suppoled it was done by the Devil, and was no Mans work. Cardan.

There is an Artifice some call a flying Dragon, some a Comet, it is made thus. Make a square of thin pieces of Reed, the length to the breadth must be in proportion one and hall, there must be two diameters at opposite parts, or Angles, and where they cut one, the other a string must be fastned, and being of the same quantity, must be tied with two others that come from the ends of the Engine, it must then be covered with Paper or fine Linnen that it may be equally poyled, then it must be let flye from the top of some Tower or Hill, or high place. When the winds are equall, not too strong least they break the Engine, not too weak: for they will not raise it, and you will lose your labour: It must not flye right forward, but obliquely, which is effected by a long tail, that proceeds from one end to the other, which you shall make of Withs set at equall distance, and Papers bound here and there thus being set out, drawing it gently, it must be guided by the Artists hands, who must not force it off drowfuly and idly, but forcibly, so will this Ship flye into the Ayr, and when it is once raised a little (for here the houses hinder the wind) you can scarce rule it with your hands. Some place a Lanthorn above it to make it seem a Comet; Others a Squib wrapt up in Paper with Gunpouder, and when it is settled in the Ayrto hover, a lighted Match is sent up by the Cord by some Ring or thing that will stip, and presently it gives fire to the open mouth of it, and with a great crack the Engine is rent in pieces, and fals down to the ground. Some bind a a Cat or Whelp to it, to hear them cry in the Ayr. Thus an ingenious Man may invent principles how a Man may learn to flye, with huge wings tied to his arms and brest, but he must use himself to it by degrees from his youth, ever choosing some higher place. If any one wonder at it, let him think what the Pythagorist Arebyt at did, for many noble Greeks, and Favorinus the Philosophier, most exquisite for old Monuments, have written affirmatively, that Arebyt at made by Art a

Boyl Wine with Salt untill a third part be confumed, then kindle and burn the Wine, removing all other light, and they standing still will seem to be dead. Cardan.

1

It is pleasant to make a double Glass as you see here; In the middle a Candle burns, between the superficies of the Glass some divers kind of moysture or water is placed, so you shall have a double light, and variety of wonder. Some put small Fishes between the Glasses, and a little Bird sometimes wondred at the Fish, and sometimes peckt at them. You may joyn many Candles, Lights, Veffels and Liquors to make it more strange. The fame.



To make Women hold their water. There is a certain prickle in the tail of a Ray Fish, and Authors write that there is nothing in the Sea more exectable, for it will performe many wonders : amongst the relt, if you give your mind to it, where the ground is fost or in a Garden, and an old Wife pilleth, flick down prefently the prickle there, that it may all lye hid, and the shall never make water untill you pull it up again; stay but a few daies, and she will pils prefently, thus young Lads will make old Women often hold their water, if they forbid them the use of any. The same.

That Women shall eat nothing at the Table.

Women will eat nothing at the Table, if you put under the Dish of meat Basil roots and all, and they not know of it. Florentin. Geopinicus.

That Guests shall not eat when they fit down.

That Guests may not eat at Table, do this. Though it seem not very probable, will not leave it out. You must have a Needle that dead people are often sewed up in their winding sheet, and at begining of Supper secretly stick this under the Table, this will hinder the Guests from eating, that they will rather be weary to fit than defirous to cat; take it away when you have laughed at them awhile. The Same.

That a Baker cannot put his bread into the Oven.

Take the Halter a Thief was hanged with, and when you have it, tye it about the mouth of the Oven : if the Baker would fer in his Bread he will run here and there, and never find the right way; and if he do put it in, the peel will be caft forth again, which is very stange, and much less true. The fame.

That one may Speak in his sleep. A Frog and an Owl will make a Man prate, and of these especially the tongue and the heart, to the tongue of a Water-Frog put under ones head will make him talk in his fleep, and the heart of an Owl put upon a Womans left breft when she sleeps, will make her, as some say, reveal all her secrets. Some report that a Screech Owls heart will do the same, and the fat of a Hare put upon the brest of one that fleers. Agrippa.

That one cannot fleep. The eye of a Swallow laid in the bed, will not let one fleep till it be taken away? Albert. Magnus.

That a Woman in her fleep may confess her wicked deds. But if you will hear what is more admirable, of her own accord, against your will, that your Wife shall relate in her sleep the wickedness she hath committed, which I fee Dimocritus knew, and it is more prevalent for Women than for Men, because they are more given to prate. In a stormy night when a Woman is fast asleep, lay upon her breft where her heart beats some tongues of lake Frogs : (you may do the like with wild-Ducks and Owls tongues, because they cry in the night) and let them lye there, and ask her what you can, and be not weary to ask again it the anfwer not prefently; for at last the wil speak and reveal all from her heart, and speak all truth to every question. Some lay this may be done by some counterfeit charms where there is no superstition. O strange, how should this be that a Woman should reveal in her fleep freely that which men labour in vain to find out when they are awake? who can beleive it I but come gently to her, and the will speak flatteringly, ule this at your need. The fame: Playes

Playes against Jests.

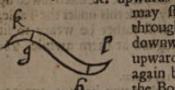
If the Napkins and Tablecloaths be strewd on with pouder of Vitriol, where they wipe when they are washt, they shall be all black though the Linnen be very clean; if you rub the Knives with juyce of Coloquintida, all will tast bitter, if with Affa, they will allftink. Cardan.

The first Pastime.

Take two narrow Boards not long, in which there must be holes, A. B. and C. D. near the ends of the Boards, but there must be a Thong cut at E. and F. long wayes; put E. upon A. and by the lower part G. let it be drawn through both holes, after e that through B. C. D. by turns upwards and downwards, then again through C. let it be drawn downwards, that it may afcend upwards, and fo by the lame manner untill the Table A. B. may be

drawn forth by F. the hole of the Thong, and fothe Thong will be fastned in both the Boards; Wherefore it must be drawn forth the contrary way. So we sport as I did with my mouth when I was but young. The fame.

The Second Pastime. The same is done if two thin Boards as long as ones little finger and equall one to the other be taken, and three holes made in each of them, at even distance as you see here, the Thong also overthwart by the ends, must be divided in G. and downwards, wherefore bring the head of the Thong K. upwards by B. but L. by C. over against it, that the ends may stick forth on the same part. After that bring L. through G. then through A. upwards, that L. may tend



downwards; then bring L. downwards again by D. and upward by F. and down again and upward by E. then again by D. after through H. the division, you shall thrust the Board A. B. C. then bringing L. back the contrary way

by D. it will reft in E. as K. doth in B. The Same, The third Pastime.

Another: You must have two Points and fold them as you see here, and tye them together with a Thread of the fame colour, and pull three little

Buttons over them, such as are the Pater Nofter Beads: they are

A. B. G. butthey are not set in the middle, that you may know where the Threadlyeth : then reduce the ends D. towards C. and E. towards D. making a knot upon the Beads; then deliver this into any Mans hands, and with a Pen-Knife cut off the Thread B. beneath D. and E. and the Points

will remain whole, the Buttons falling off. The fame.

The fourth Passime.

The like almost is done by a doubled Thread as A. B. C. bring the end D. by A. that A. may lye hid under one finger, and C. under another finger, and the part C. D. may be doubled; then cut C. D. with your Knile, and there will seem to be four ends and beginnings let therefore C. D. fall areas for the course of the c be four ends and beginnings, let therefore C. D. fall away fecretly, and there will appear but two ends, though the Thread feemd to be cut into four parts. I add this, that every man may understand the art of Jugling to be all of this kind, that before you know how it is done, you will wonder at it, but when

you do know you will fee they are Childrens sport. The sime.

To find out Theft. If you will find out theft, you may thus recover things that are flolen away. There is a stone called an Eagle-stone, and it is as if it were with Child. For shake the stone and it ratleth in the belly, if therefore you ponder that stone and bake it with Bread, and give it unknown to a Thief, when he cheweth it he cannot fwallow it down, but he will choke or be discovered for a Thief, for he can never swallow it, The Same.

To see strange things in a Urinal Glass.

Take Saffron bound up in a Linnen Cloath, a little, put it into Spring water untill it be well coloured by it, then take whites of Eggs, and shake them seaven or eight times with the said water: after that, put this water into a Urinal Glass full of clear water, and you shall see strange things in it. Fallop.

Put Quicksilver into a Quill; stop it, and put it into hot Bread, and it will Dance. The same.

An Artificiall Vision. The night feems to be the mother of these devices; yet though these deceits be fooleries, they are lometimes caules of very great things. As it fell out with Cenethat the second king of the Scots, who whenthe Pictshad taken his Father Alpinas and killed him, and had frighted the King himfelf, and his Subjects, that he could not periwade them to take revenge; for great part of the Nobility and Souldiers of the Kingdome were flain in the Battle with his Father; he therefore called the chief Men together, and Treated them courteously, and invited them to his Court, and Feasted them. The night following, when all was quiet, he sent a Man severally into all their Chambers, with a Staff in his right hand of rotten Wood, that shines like a Torch in the dark, (I have spoken of this elsewhere,) with a Garment made of a Fish skin with the scales on, which also shines wonderfully in the night, especially by the help of the rotten stick; now there is a huge company of these great Fishes in Scotland,) In the left hand which they put to their mouth, there was a great Ox horn, for in that Island there are such Ox hornes; All these blew terribly through their horns, faying, that they must asist the King; that the Picts should suffer for their wickedgels, that the Seess should have a great Victory, and that they came from God to declare as much. It was easie to delude Men that were sleepy. who could fee no man going in nor coming out e for when they went away they had turnd in their Coats, and hid their flicks; when in the morning they came to Councel, every one told what he had feen and heard; But the King fearing left this trick should be discovered openly, to conceal it, first shews that he had also seen the fame, and therefore wished them not to speak of what they were admonished by God, for so they might anger him that was now their friend. They all upon this, no Man knowing the bulinels agree to a Warre, and the event proved no less than an answer to a Divine Oracle. For the Piets were conquerd, once, twice, and thrice, at last the Soets conquerd them, that they left not one alive. Card.

Another that many have used. They scatter Beetles, or Snails, or Crawfish in Church-yards with small Candles; Others more cunningly hide Candles in dead Mens Skuls, and make them look terrible. But if small Candles be placed upon Locusts backs, they will fright Men exceedingly, for the Candles will seem to leap. The same.

Another that deceives Chyrurgions also, and they think the part is certainly wounded: the hand being so smeered with a Salve, that it is but reasonable, as many other things are known by use and experience. A Greeian taught many such Secrets, who came to us, but they are only for sport and for no profit. By reason, because in Wounds there is a cavity, blood, and sometimes sinews to be seen, but almost alwayes the lips of the Wound; the cavity is counterfeited by the sticking forth of the sides, the blood by red Lead, Lac, Vermilion, and best of all, Dragons blood; the sinews by Threads, the lips of the skin and sless by white Lead, Rossin, Tallow, or white Wax; This is the experiment, but use makes the fraud perfect. The same.

Another, Whereby all things in the house seem to move as in an Earthquake, but the sight only is here deluded. First, The Roof and Walls must be over the Wood or Cement streaked with streaks like to Serpents obliquely, and so Gilded,

that they may shine: then will the slame of a Candle, as I have shewed elsewhere, tremble, and to give it no other name, all things will quake and tremble in appearance. For because the part A. B. (but the winding cannot be well expressed in

Sa a

Plano) is seen near to the Line A.C. but the light is carryed by A.D. of necessity A.B. must seem to move, for the right motion of the light is carryed obliquely; then both by reason of the proper quavering of the light, and for the obliquity of the motion, it will seem to tremble. A dark fire with smoke do much surther this business; for a weak action is more easily vitiated than a strong, but when smoke is with the stame, and the stame is weak, that which proceeds from a small substance makes but a weak sight. Wherefore such a fire with such a stame and a light smoke will cause this apparition. The same.

The fife Vifion.

I cannot pass by what I learned in my sleep this night, which is the twenty eight day of January 1554. precedent. When I last transcribed this Book, I saw a Wall whereon were Painted very many Images, whereof some walked, others seemed to talk, some stood, others sate, and some walked up and down. Then said I it is strange. But one that was present said, this is no wonder, but you were the Inventor of this reason; I truly remember it; then he replyed, This Wall is in the secret walk over against the high way, which you know to be much frequented, and now by accident the Souldiers pass by it. Let the Sun shine in the way, and you have shewed how Images may be seen by shadows in the opposite Wall; But these many in the outsides of the Wall that are so consused, and some in the middle, and those you see siting, are all Pictures made by the similitude of shadows, that when the shadows depart from the Wall, some of the Pictures seem to move. Then said I, you can scarce distinguish the Pictures from the shadows. But saith he, this was the work of an excellent Art, for by a reason taken out of your Book, the Master of the house invented this, they are the representations of Men talking and no Pictures, but shadowes. For these two stand in the way, and they presently departed, but I recollecting my self, understood that the same might be done on a Table, that might be copied out. Cardan.

Nicoloru Siecus chief-Justice, a famous Man, whom I name for his honour, saith that he had tryed it when the wind blew, that if Pictures be carryed on Horseback, that are light, as made with Feathers, or printed upon Paper, and tyed with a Thread to the Horse Saddle Bow, will flye up into the Ayr, that if the Thread be small, the matter seems wonderfull, and there is reason for it: for when the Wind comes against it, and the Picture is broad and light, it cannot fall right down, nor yet stand against the force of the Wind as other things that use to fall down, because it is held by the Thread; It must therefore needs flye upward and be the cause that Men shall think it an apparition: but I doubt much whether it will reach so far as the Clouds or not; For either the string will break, or the force of the Wind doth not reach so far, or such a length of Thread cannot retain such a force. But let others try it: a more compendious way is described in Associated to her seet, and then let flye, will cause the sight of an apparition. We use these Arts to put courage into the Souldiers, when Enemies are ready to fight them, and it is not a-

mils. The Same.

A Neeromantick Sport.

That is also a very pleasant spectacle, as it was to me, wherewith Andrew Albiin, a most learned Physician of Bononina frighted a certain credulous Lover: He
set a dead Mans head upon a Table, and he promised unto us that the head should reveal which of us was deeply in love with a certain Citizens Daughter. We that understood not that Pastime were troubled at it, as if that Oracle should be pronounced
by help of the Devil, but they that observed the Jest, laughed at it. The business was thus: The Table stood upon sour Pillars, like to seet, and one soot was hol-

low fet under the Table that was perforated quite through that hole, and all the Table was covered with fine Tapistry, that the hole of the Table should not be seen: upon that place stood the dead Mans head: the Pavement also in that part had a hole made through, where the hollow Pillar held up the Table, that from the lower Room to the upper, and from the upper Room to the lower a voice might procced. Whereupon he that was in the lower Room putting a Pipe into the hollow Pillar of the Table, and fetting the other part of the Pipe to his ear, heard with eafe what the other in the upper Room asked, and he answered according to his questions. This fucceeded the better, because they knew the secrets of both these Lovers, and so knew how to delude them: for so they handsomely acted their parts, having conferred together before. And to make this Oracle the more to be believed, he fer lighted Wax Candles about the skull of the dead Man, and he repeated some strange words. Andreas Albius.

Another Jest of Stage-Players. This also seemed strange to many, but when I shall shew you the way to do the like, you will think it a filly thing. A certain Man brought a Glass to us, we looking into it, he put in a Ring, which as oft as we defired, it would leap in the Glass. This Trick was performed thus. There was a fine hair of a Womans head made fast to the Ring, and to the fingers of the Man that made the sport: when therefore the Ring must Dance, the Stage-Player moved his fingers, and the Ring moved therewith, and we saw not the hair. The Fellow concealed this Jugling by a cunning device; saith he, this Ring will not Dance like fair Maids, unless I Pipe and Taber with my fingers toit. AVenetian Jugler.

To make one fart.

If you take an Asses hairs that grow near to his Pisle, and cutting them small; your give them to any one to drink with Wine, he will prefently begin to Albert.

Otherwise.

Also take Emmet Eggs, and bruise them, and put them into water, and let any one drink thereof, he will prefently not ceafe farting. You may do the fame with Wine. The Same.

Some things are effected Witchcraft rather than Medicament : it sufficeth to rehearle the most easie; Emmets Eggs, or Chestnut flowers, will make one Cardan.

That he who bath a Rupture shall have his Testicles to crack and make a noise.

That the Testicles of one that hath a Rupture may make a noise, do this; When you lee him come to the fire to warm himself, put either Elder or Figtree green Wood to burn upon the fire : for so they will so crack, that he will be forced to be gone. Whether that proceeds from the vapour that he lends forth, like to that Wind, which is also wont to do hurt. The fame.

A wonder of a Drum Wheel. Some things are also made, which although they be no apparitions, yet they make A Wheel of Parchment is painted with divers figures, that the fashion of the Picture may descend by degrees; and again those that descend may be received by others that afcend: for their fituation bends obliquely: and as it were by equidiffant Lines; A light is placed in the middle, which like to the flame that turns the Spits about, turns the Wheel, and because alwayes Figures different in situation are seen to come on, they all seem to ascend or descend which is admirable. Cardan.

A Pastime to boyl Pease in a Pot, He that would make Men laugh to see Pease leap forth of a boyling Pot, let him put in some Quickfilver, and he shall see a pretty Jest, unless the brims of the Por be too high, or the fire too small. I have tryed it. Mizald.

That an Egg may ascend into the Ayr.

You may make an Egg to alcend into the Ayr thus. Fill the empty Egg shell with Dew, taken in May: (for at other times as in Summer and Autumn, it is no true Dew, as we prove by Physicall reasons) for this against the Sun at noon day, and the Sun will draw it up, and it sometime it rise hardly, when it begins to rise, it will rise best by help of a Staff or Board. The same.

Chefs Flay.

This puts me in mind how with two colouts, or with one only, a Man may shew many differences, as in Chess Play, with Chess Men, which is Printed. They that set forth the Spanish Book have contounded all. Wherefore the black places must be distinguished by black Lines, as in Checker work, and the white must be left pure and clear, but the Chess Men that must be black all over, must be blackt with Ink, the white Men must have only some black streeks round about, and all that is within must remain white. Cardon.

That three Scroles untouched shall change their places.

There is yet one Pastime that three scroles untouched shall change their places. He that knoweth it not will admire it; There are three long scroles made of Papet or Linnen, and they all severally exceed one the other in length equally: for being all made equall with one head, they equally being turned about, are out of their places, and they are in a different situation, for the longer will be in the middle or first place; but if the same that is the longer be in the last place, it is immoveable, scarce any man can think but that this is done by the Devil; yet this proceeds from nothing else, but because at the end of the resolution, the longer remains, and the last in its revolution remains where it began. Some were in an error to think this was done by force of words, and they gave answers as from an Oracle to all questions: for if the scroles changed their places, then it was good to begin, and the effects would be good, otherwise all would prove infortunate, and they would not change their belief for reason and experience, when they had got a custome to believe. The same.

Lute strings cut small, and strewed upon slesh new drest, (be it rost or boyld) will make the Ghests think that the slesh is rotten, worm eaten, and naught: He that knoweth this Trick may when he please beguile the rest, and eat all himself, Mizald.

That a W man may sell all that ever she did.

When you will have a Woman or Maid to tell you all that ever she did, take the heart of a Pigeon, the head of a Frog, and dry them both, and pouder them, strew the pouder upon the brest of her that is assecp, and she will discover all. Alb.

It is very strange what I saw done by two small Images of Wood, playing together, by the means of two Sicilians: They were both run through with one Thread here and there, and being sastned, one of the Statues would stand still, and the other Danced all sorts of Dances, whilst the Artist plaid upon the Pipe, the Thread being extended both wayes: so they Danced wonderfully with their heads, legs, seet, arms, and moving them so many wayes, that I confess ingeniously I cannot understand the reason of so great curiosity in work. For there were not many Threads nor yet sometimes slack sometimes strait, but there was but one Thread in each Statue, and alwayes extended. For I have seen many others that went with many Threads, and those sometimes strait sometimes loose, and that I did not wonder at. But this was rare, wherein all the Postures and Dancings were answerable to the Tunes were plaid. Cardan.

These are wonderfull things: That the hairs of a menstruous Woman will turn into Serpents and Wormes if they be buried in Horse dung a short time. So may the putressed menstruous blood as well breed Toads and Frogs: for it is easily corrupted and changed; and of times Women generate forth with the Child, Toads, Lizards, and

fuch like things. And we read that the Women of Salerna, when they first conceive when the Child should come to take life, they kill such a Creature with the juyce of Smallage and Leeks. When a certain Woman besides her expectation was Supposed to be with Child, instead of a Child she was delivered of four Creatures like to Frogs, and the ofttimes milcarryed upon some such cause; I believe there is no other cause to be given of this monstrous conception; For by the corruption of Mansfeed, as it were Wormes will breed in the intestins. Aleippe was delivered of an Elephant, and a Maid at the beginning of the Marfian War, generated a Serpent So hairs taken forth of Horses tails and cast into the waters will receive life. Basil bruiled between two Tiles, and laid in a moyst place where the Sun shines much will breed Scorpions : yet Galen denieth it. The dust of a burnt Duck, if it be kept covered between two Dishes in a moyst place, will strangely bring forth a huge Toad. But a Frog may more eafily be produced suddenly, if you consider their original; I do not speak of them that by a legitimate order of nature, that is by coupling in the water, have their beginning, but fuch as breed of themselves and are called temporary, and are only bred by Summer showrs upon the shores and dusty Sands by the way fides, and they are commonly short lived; or ofttimes the blasts of Wind, raging upon the tops of high Mountains, raise the dust, which being mingled with water, not only is converted into Frogs, but into stones also. Philarehus, and Heraelides Lemnus, are my Authours, that it hath sometimes rained Frogs; and one of them faith, that about Dardania and Paonia the fame accident hapned in fuch abundance, that their houses and high wayes were full of them. And Alianus when out of Ieals he came from Naples and went to Puteoli, law Frogs, part whereof, namely the head crept, with two feet, the other parts being not yet formed, was drawn like to flimy mud grown together; fo of the fame body, one part was alive, and the other part was Earth. Macrobius faith, that in Agypt Mice breed of showrs and Earth, and in other places Frogs, Serpents and the like, so that their production is casic, For if a Man but spit, presently a Frog was bred of his spittle; and Danmains a Spaniard, as oft as he pleased, would presently produce a great multitude of Frogs, likewise of Wormes, with the filth that comes from young Sows when they go to Bore, and the blood, after the manner alorefaid, when the Sun enters the first degreece of Capricorn, that they may Farrow at the end of Pifees, being fed well with Milk; and Crums of Bread. And the filth of a Boar called Apria, which is the same which in Horfes is called Hippomanes, being taken, and hid in a Glass well covered under Horse dung, that the heat rising may not flye away, and so let for some dayes, and what comes of it kept in a Leaden Box, will serve for use. He that knows how to compound that rightly, shall see no common experiment. But if any Man defires to know this more curiously than is needfull, the reason whereof we know by experiment with Horse dung, a strange way to produce a Mandrake. If any Man will make a monster to breed out of an Egg; (I hear now they begin to call it by a borrowed name,) he must instead of the cock-tred put in humane vitall virus, and cover it well that the vivifical heat flye not forth, they fay this will hatch a monster, part a Chick and partly a Myrmidon. Avicenna doth not deny it; If cause be I shall speak elsewhere more at large, it is enough to shew you the way : I omit many and greater matters which ignorant people will not believe. These shall ferve to be spoken of menstruous Births, and the force of dung in production. The fame.

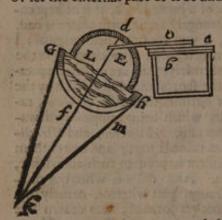
To fee Castles and Towers in the waters. Put Water into a Glass Vessel like to a Chamber-Por, and taking a little Saffron Lound in a Linnen Cloath and putting of it into a little of that Water, untill it be Dyed, rubbing of it; then put the white of an Egg well broken with your fingers, seaven or eight times to it, and cast all that into the Water, you shall see as it were Towers, and Towns, and Castles in the Water. Cardan.

That in a Mans Bed Lice may feem to crawle, fo that a Man cannot fleep. If you would have Lice feem to crawle in a Mans bed, so that he cannot sleep, cast into his bed one ounce, or half an ounce of Alkakengi, and if you take the Fea-

thers of a Buzzard and make a light therewith, they that fee it, will appear all to be infirme and confumed. Take a yellow Locust, and dry it, and pouder it, and put it into a Funeral Cloath, and light it with Oyl of Elders, and in what place foever you are, that shall befall you as Isaid, and you will admire it. Albert.

How a Bucket of Water may be held up.

Thave spoken of those things that support more than reason seems to allow, and of those things that mutually support one the other; now I must demonstrate how any thing may feem to support it felf. Let there be a plain Table A. B. and a Staff C. E. let the external part of it be under the handle D. of the Bucket full of Water, G.F.



H. and between the Staff C. E. and F. the bottome of the Bucket, place a flick E.F. that is flreight, and right that it cannot fall, I say the Bucket will hang and cannot fall. For it is plain that F.being the bottome of the Bucket, the Staff E.F. and F. the Center of gravity, and Center of the Earth that is K. and the Center of the Bucketthat is L. are in one right Line, which is K. F. L. E. If then the Bucket fall, it must either fall by the right Line F. K. or elfe some fide as G. or H. must incline; should it then inclintoward H. to M. I draw K. M. because therefore two Lines are drawn from K. K. E. and K. M. to a circle, and K. E. passeth through the

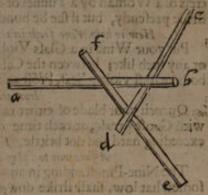
Center of the Circle; that is, of the Bucket. It follows by Euclider demonstrations (Elementorum tertio) that K. F. is leffer than K. M. therefore the Center of gravity. F. is removed far from the Center of the Earth K. wherefore what is contrary to reason, what is heavy should ascend moving naturally which is impossible. Therefore the Bucket will not fall, inclining it felf to either fide; nor yet by the right Line K. F. because the Angle F. E. C. is a right Angle, and it is plain that D. descending to L. you may draw L. B. which shall be equal to E. B. Wherefore since L. B. is opposed to a right Angle (per quintam primi) the Triangle L. E. B. shall have two right Angles, or elfe the greater fide is not opposed to the greater Angle, both which are contrary to what Euclides Writes, Elementorum primo. Whence follows a greater wonder, that a thing that would fall of itself, putting more weight to it, it will not fall. For placing the part of the Staff B. D. greater than D. C. the Staff will fall, because the end of it by falling, comes nearer to the Center of the Earth K. and so C. may rife, and so it will fall; yet adding weight to the Bucket it will not fall. But you must (least the standers by laugh at you when you should fail in your experiment, for ignorant people where the business succeeds not, blame not the Man but the Art) be very diligent to see that the upper superficies of the Table be set exactly level, and the stick be persectly streight and doth not bend; also the stick E. F. must be right, and close set to the bettome of the Eucket, and C. E. so that it make the Staff C. E. stand firm to the handle D. and that the point F. be the Center of gravity, and the Bucket round. Many will read this, but few will understand it; For you must understand more then is Written, yet you want nothing to the perfection of it. Cardan.

Whether a Woman be an Adulteres.

They say that if any one lay a Diamond upon a Womans head, she will shew whether she be an Adulteres; for if she be so, she will be frighted and leap out of her Bed, if not, she will embrace her Husband with delight. Albertus.

Some feem to be supported of themselves, and and admit have generally

Support others, and yet fastned no where. As I take the flick A. B, I lay C. D. upon that, and upon C. D. E. F. and let it fall under A. B. I fay then, that unless they be taken afunder they cannot fall, for A. B. is supported by E. F. and a E. F. by C. D. and C. D. by A. B. therefore neither of them will fall, but the place D. B. F. supporteth and is supported, this is clear by experiment, therefore it is sustained by fomething : wherefore by all, because the same reason serves for all, and so it is most firme, and will call wo in the



the more it is prefled, the firmer it is; and it will not fail unless one of them break. Cardan.

That a Woman may confess ber doings.

Take a live water Frog, and take out his tongue, and turn the Frog into the waters, and put that tongue upon that part of the heart of a Woman that beats when the fleeps, and ask her any thing, the will tell you true. Albertus.

Likewise I read in Books, that in the Temple of Diana of the Ephesians, the Weapon of Cupid hang, being tied by nothing to hold it up. If any one desire to do the like, he may easily attain to it: take a light Sword, and let the hast be a Cane, and set a Loadstone as big as the bone of your Arm into the roof of the Temple, that is made hollow, and of excellent virtue; put your Weapon to it, and it will feem for many ages to hang of it felf, and it is no great wonder. Cardan in your hand one

A Girdle or Jugling Ring is made thus: There must be three Circles made, or more if you pleafe, so Woven with one Line that shall stir about only, and that neither of them may touch the other in any part; fo two of them will feem to hang

pendulous in the Ayr, by a wonderfull Art and crafty Invention: but it is far more easie to do it than to describe it: although as I could, I have drawn the forme of it. The reason is this, if we will make a threefold Ring, we must describe two Circles, then we must take what number we please, which being divided by three, the number of the Circles of the Ring, will leave a unite over and above : as for example, fixteen, which being thivided by three will leave one, and five are the quotient; wherefore divide the outward Circle into fixteen equall parts, and de-



scribing them, make as many divisions in the lesser Circle, yet so that the lower points may cut the upper points in the middle; then drawing portions of Circles from the lower point to the upper, and from that to the lower, ever intermitting two, it will at last returne when three Circles are finished to the same point, and so one circle is made three; But I have let go thole outward Circles, or thole that are first described, that the reason of the description may be better understood: Moreover it is best to blot them out, that the work may seem more absolute and compleat. But the bodies of the Rings must not touch one the other, by the Insections that are made upon the folid body; for fo they will feem to hang by themselves, when it is not fo. Cardan.

To find a Thief.

If any one bake the pouder of an Eagle-stone with brown Bread, and give one that he suspects, a piece of it to ear, he can never swallow the Bread he hath chewrdpolyMiz ald.

Whether a Woman be deflowed. The smoke of the feeds of Purcelane, or of the leaves of Burdock, let into the se-

witcht. Ib. To make their hiar grow.	Counfel against the Machinations of the
112. white. Ib. To give much Milk.	Devil. 281.
120. If possest, to help. 284.	Consumption to cure. 44,48,57,58.
Candle Artificial to burn under water. 11.	Conception to help. 68.
Not to be put out. 11, 12, 15. With-	Cocks to prevent Crowing, 141. To keep
out a Wick. 17. To fright a Man. 18.	from treading Hens. 1b.
To shew variety of colours. 22. To in-	Cods fwoln to help. 68.
crease by water, and be put out by	Collick 56, 58, 60, 61.
fire 26.	Conceits. 338,
Carbiencle to fhine in the night. 26.	Cornes to cute. 81,82.
Carving of Stones what necessary. 241.	Corall to counterfeit, 244. to diffolve. 16.
Capons to fat. 143.	Corne to keep from Mice. 152.
Carbunele to counterfeit. 243.	Countesse of Kents pouder. 43.
Carbunele to cure. 80,81.	Conjetiures of fortune.
Caterpillars to destroy. 131, 254.	Cramp to cure. 47,72.
Cancer to cure. 47. To kill. 79.	Crocodile to make not able to move. 128.
Cats from Bird-Cages to drive away. 127.	Crab Lice of the fecrets to kill. 230.
To conceive without a he-Cat. Ib. To	Creatures of diverse mixtures to produce.
keep from Pigeons. 145.	oT tre silosinal a ment as 124.
Cantery to make without pain. 76.	Chrysocolla to purge and increase it. 216.
Chambers to Icem green. 250, black. 251	Cure for debility in Venery. 104.
Chefs Play. 342	Cucumbers to ripen early. 181. To be ripe
Cheff to hide Money in fecretly, 312. To	late.
colour.	Ancing upon the Ropes. 335.
Chickens, whether Cocks or Hens before	Daris to draw out of Wounds. 77.
hatcht, 142. To make comely 14. To	Deafness to cure. 53.
hatch strange and wonderfull. 16.	Devils what they are, 3. to feem to an-
Charmeto difable Man or Women from	fwcr. 286.
- copulation 105. To remove it. 281.	Deceits in Jewels. 228.
Christine to counterfeit. 7 244.	Death 36, without pain 37, pressages of
Chaughs to drive away. 147.	death 45. death to cause by laughter.
Christall to make it foft, 221, Its wonder-	37. its danger 45.
full faculty. 228.	Dead flesh to know. 78, to remove. 87.
Cherry-Trees corrupt to help. 159. Cher-	Deer to renew youth when old. 123. To
ries to ripen early. Ib. Cherries to be-	Chaseaway, 124. To Allure. 1b.
. come Grapes. 16.	Difficulty of breathing to help. 56.
Cherries without stones to grow. 175.	Diamond to try. 242. To counterfeit, 16.
Chimney not to Imoke. 25.	To polith. 16. To fosten. 246. To
Compossition for Rockets. 16.	make a Diamond of a Saphir. 247.
Cinnaber to prepare. 215. To Write with.	Difeases of the eyes. 52.
16.274.	
A STATE OF THE PARTY OF THE PAR	Diffentory. 62.
Circumference of the earth to know. 287.	Distance of place to know, and how to
Circumference of the earth to know. 287.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310.	Distance of place to know, and how to guide a Ship to any part, 290. Also longitude and latitude. 291.
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310.	Distance of place to know, and how to guide a Ship to any part, 290. Also longitude and latitude. 291. To Divine how.
Circumference of the earth to know. 287. Cities to defend.  Colemants not to boyl.  Closeb stained, to restore to its perfect colour.  256.	Distance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291. To Divine how.  Doggs to make to follow a man. 122, Not
Circumference of the earth to know. 287. Cities to defend. 302. Colemants not to boyl. 310. Clast b flained, to reffere to its perfect colour. 256. Clack. without cords to make. 313.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291. To Divine how. 287. Doggs to make to follow a man. 122, Not to bark, 1b. Not leave the house. 1b.
Circumference of the earth to know. 287. Cities to defend. 302. Colemants not to boyl. 310. Clast b flained, to reffere to its perfect colour. 256. Clast, without cords to make. 313. Conts of Armes to Engrave. 316.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291.  To Divine how. 287.  Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b.  To make to hunt. 1b. Their madness
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clast b flained, to reffere to its perfect colour. 256. Clast without cords to make. 313. Conts of Armes to Engrave. 316. Colours to Paint with, to make. 318.blew,	Distance of place to know, and how to guide a Ship to any part, 290. Also longitude and latitude. 291.  To Divine how. 287.  Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b.  To make to hunt. 1b. Their madness to prevent. 123, To cure. 1b. To kill
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clout flained, to reffere to its perfect colour. 256. Clack without cords to make. 313. Contro of Armesto Engrave. 316. Colours to Paint with, to make. 318.blew, green, 319. red. ib. 324. Rofe-colour.	Distance of place to know, and how to guide a Ship to any part, 290. Also longitude and latitude. 291. To Divine how. 287. Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b. To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other disea-
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clast flained, to reffere to its perfect colour. 256. Clack without cords to make. 313. Colours to Paint with, to make. 318. blew, areen, 310. red. ib. 324. Rofe-colour. Ib. bright bay, yellow, green. 325.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291. To Divine how. 287. Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b. To make to hunt. 1b. Their madness to prevent, 123, To cure. 1b. To kill any Dog secretly, 123, Other diseases. 1b. against Fleas, Scabs, Sec. 1b.
Circumference of the earth to know. 287. Cities to defend. 302. Colemants not to boyl. 310. Clast b flained, to reftore to its perfect colour. 256. Clack. without cords to make. 313. Control of Armes to Engrave. 316. Colours to Paint with, to make. 318.blew, 210. 210. 210. 210. 210. 210. 210. 210.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291. To Divine how. 287. Doggs to make to follow a man. 122. Not to bark. 1b. Not leave the house. 1b. To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other diseates. 1b. against Fleas, Scabs, &c. 1b. Doggs-flar its rising, and how to foretell
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clast b flained, to reffere to its perfect colour. 256. Clast without cords to make. 313. Control of Armes to Engrave. 316. Colours to Paint with, to make. 318. blew, areen, 319. red. ib. 324. Rofe-colour. Ib. bright bay, yellow, green. 325. Colours to Paint all forts of Mettals. 318. Coffe how to make. 407 346.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291. To Divine how. 287. Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b. To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other diseases. 1b. against Fleas, Scabs, &c. 1b. Doggs-fear its rising, and how to foretell thereby. 296.
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clast b stained, to restore to its perfect colour. 256. Clast without cords to make. 313. Control of Armes to Engrave. 316. Colours to Paint with, to make. 318. blew, areen, 319. red. ib. 324. Rose-colour. Ib. bright bay, yellow, green. 325. Colours to Paint all forts of Mettals. 318. Coffe how to make. 407. 346. Convulsion by Wind to cure. 51.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291.  To Divine how. 287.  Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b.  To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other diseates. 1b. against Fleas, Scabs, 5c. 1b.  Doggs-flar its rising, and how to foretell thereby. 296.  Dovekouses to keep from venemous Crea-
Circumference of the earth to know. 287. Cities to defend. 302. Colemonis not to boyl. 310. Closeb stained, to restore to its perfect colour. 256. Closek without cords to make. 313. Contro of Armes to Engrave. 316. Colours to Paint with, to make. 318.blew, areen, 310. red. ib. 324. Rose-colour. Ib. bright bay, yellow, green. 325. Cosper to Paint all forts of Mettals. 318. Cosper to make. 47 346. Copper to melt quickly, 207. to look like	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291.  To Divine how. 287.  Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b.  To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other diseates. 1b. against Fleas, Scabs, 56. 1b.  Doggs-flar its rising, and how to foretell thereby. 296.  Dovekouses to keep from venemous Creatures. 145.
Circumference of the earth to know. 287. Cities to defend. 302. Colemans not to boyl. 310. Clast b stained, to restore to its perfect colour. 256. Clast without cords to make. 313. Control of Armes to Engrave. 316. Colours to Paint with, to make. 318. blew, areen, 319. red. ib. 324. Rose-colour. Ib. bright bay, yellow, green. 325. Colours to Paint all forts of Mettals. 318. Coffe how to make. 407. 346. Convulsion by Wind to cure. 51.	Diffance of place to know, and how to guide a Ship to any part, 290. Alfo longitude and latitude. 291.  To Divine how. 287.  Doggs to make to follow a man. 122, Not to bark. 1b. Not leave the house. 1b.  To make to hunt. 1b. Their madness to prevent. 123. To cure. 1b. To kill any Dog secretly. 123. Other diseates. 1b. against Fleas, Scabs, 5c. 1b.  Doggs-flar its rising, and how to foretell thereby. 296.  Dovekouses to keep from venemous Crea-

Deagon, To make a flying Dragon. 265.	with Oyl, 18. to melt withall, 19. to
1 built unit ( 336.	burn in water. 22. to cast a far off.
Brunkenness to prevent. 52. 99. To make	and found four time
a drunken man lober. ib. To make a	Fleghm to diffolve. 60
Drunkard out of love with Wine, ib.	Flies to drive away. 150,151, to come to-
Dreames troublesome to cause. 160.	gether. ib. to drive from Oxen Hor-
Dropfey to cute. 63.	The state of the s
Drones to destroy.	les and other Creatures. 151.
Ducks to make far. 148. To make tame.	Flesh to feem full of Wormes, 91, to keep
Ib.	long uncorrupted, 308, being boyld to
Company of the Company of the Company of Street of the Company of	feem raw. 16. old flesh to make ten-
TAres founding to cure. 72. Water-	der. Ib. to boyl quickly. 308.
Lingtohelp. 16.	Fleas to destroy: 129,130,151. as also Gar-
Earth to burn, 28.	den Fleas. ib.
Ebony to make like naturall. 321.	Flowers come forth fuldenly, 168, to
Eggs to hatch without a Hen. 142. To	make them keep in till Winter. 16.
make loft, 143. To write on Eggs.	Folding Tables how to make. 314-
16. 144. To ascend into the Ayr. 342.	Foxes not to cat Hens. 124.
Elixer to cerat or transmute Metals, 187.	Fountain to fhine in the dark. 19.
Emralds to counterfeit. 244.	Frand in ballance to discover. 292-
Emralds to counterfeit. 244.  Epilepfie to cure. 46, 50, 51.  Engines flrange. 258, 259, 261.  Evill Spirits to bind. 275.	French Pox to cure. 47, 66.
Engines ftrange. 258, 259, 261.	Frost, Mildews, and Smoot, a remedy 253-
Evill Spirits to bind. 275.	Fregs to make come together, 138, against
Exercife most healthfull. 107.	their croking. ib.
Exercismes when, how, and by whom, to	Fruit to come early, 170, late ib. to make
be performed. 282.	fweeter and more pleafant.171.great.16
OFF. THE PROPERTY OF STREET	of what fashion you please. Ib. to make
F Ace to make red like a Rofe, 85,86. Its redness to cure, 86. To take away	of a purging quality. 16. to make a Fruit
Its rednels to cure. 86. To take away	compounded of feverall fruits. Ib. to
Pimples.86,88. To make exceeding	have no ftones nor kernels. 172.
fair.86. To feem young. 87. To make	Fruitfull scalon to foretell. 183.
black, ib. All fwellings of the face to	OF SELECTION OF THE OTHER OF SELECTIONS
circ. 88, 89. Freckles to take away. 87,88.	Ardens to make green, 251, to help
one by ordered of chart 87,88.	I that wants Rain, 16. land for 2 Gar-
Fair Images to make. 319.	den to try. 252, observations in Dung-
Falling-fickness to curc. 45, 50, 51.	ing. Ib. when to fow. Ib. when fowd to
Fellow to cure. 80, To kill. 81.	keep in the ground, 253, remedies for al
Feavour. 38, 40, 41, 44.	hurtfull things in Gardens, Ib. to pre-
Eesre to prevent. 52. Against Fear of wa-	ferve. 16. when to water. 16. Garden
ter	Moths to deftroy. 254. Fleas. 16.
Fig Tree its fruit to keep. 161, Its wormes	Generation its matter. 101.
to kill. Ib. Figs to grow with inscrip-	Geographicall Sphere, its use. 288.
tions, 178. To make purging, 179. 10	Geefe how to fatten, 147 to rost alive, 148,
grow one half white half black, Ib. to	11.07 - 12.27 - 1 10.31 (1.309)
keep green.	Glass to Anneal and Paint, 219, 332,
Fishes in generall. 134. To make come to-	333. Gold colour, Ib. to lay Gold on
gether. Ib. 136. To catch all forts of	Glass.220. green, red Carnation, white,
Fish. Ib. To prove catching. Ib. To al-	Silver, black, 220, 221, to work in
lure, invite, and catch Figh. 135. Nets	Glass, 121, to make it foft. Ib. to di-
to catch with. 16. To catch diverle	vide it. ld. to joyn and glew. 222. Glass
fortsofFifh.136,137.TofcalonFifh.309	ro discover secrets, 223, to Gild, 331.
Fire 11. not not to be extinguished. 15. To	Glass double to make. 337-
kindle with Water, 12, 14, 15, 18. To	Gellyflowers of diverfe colours, 169, to
burn under Water. 13,15. To light by	make them come in Winter, 170. to
the Sun. 14. by Spittle, ib. not to con-	bear diverse flowers. ib.
fume. ib. to handle Fire. 15, 18. to ap-	Glev to joyn ftones. 249
pear in the Ayr. 17. Fire out of Amber.	Guats to prevent ftinging.
18. to feem all on fire, ib, to extinguish	X x 4 firshind What



I de la companya del companya de la companya del companya de la co	
Indian blew to make, 319	35. A Love enchantment. 35
Inflammation of the eyes. 52	Looking Glasses to make. 222, to shew the
-depth Ulf Tea	The second secon
The state of the s	AND CONTRACTOR OF THE PARTY OF
To take Ink from linnen cloath. 256	Lucum Sapientie to make. 28
Ink black, the best to make. 172. Printers	Lupines to be sweet. 184
Ink. Ib. perpetuall Ink. 273. red Ink. Ib	The state of the s
323. Ink the best to make. 328, 329	A An. 2. to make bold and confident.
Instrument of perpetual motion. 392	THE ANALYSIS OF THE PROPERTY O
THE RESERVE OF THE PROPERTY OF	
AND THE PROPERTY OF THE PARTY O	Maglek Art to attain, 275, 276, naturall
Internall discases. 38	Magick.277, Mathematicall Magick. lb.
Iron to give it the Tincture of Gold. 208	Malmefey to make. 96
to Gild upon Iron. lb. to look of a Brais	Mares to cast their fole. 117
colour. 16. to foften Iron. 209. to En-	Marble of diverse forms to make .: 48. to
grave on it. Ib. to take ruft from it. Ib.	Gild. 326, 327. of a Violet colour. 331
	2011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
to change Iron into Steel. 16. to harden	Matrix to remove, 67
it and folten it again. 1b. 346, 210, to	Metals to transmute into Calx and water.
preferve from rult. 316	185, to take away their brittlenels, 186
Iffue to keep open. 76	to reduce into a body. 16. the more no-
Jugling Ring to make. 345	ble to draw to the out fide. 16.328
Jupiter its effect in running through the	Memory to ftrengthen and increase, 30,49
The Court of the C	
	Men to feem to want heads. 334
Ivery to colour green. 318. red. 1b. to	Mead to make. 98
Paint. 333	Metheglinto make. 99
CO MAN A STORY OF THE STORY OF	Men to feem without heads. 23. to feem
Amps to affright, 13. to make Frogs	with strange heads. ib, 24. to look pale.
L croak. 22. to make all things feem	214. to appear black.25. Men to make
black, 22. to feem strange, 26. very	mad.36. to make fat. 82
ffrange.317. to last all the year. 16.	Medlar tree to purge from Wormes. 160
THE PARTY OF THE P	
Lamprey to drels curiouily. 309	The state of the s
Leaprofie to know. 46. to cure 45. to make	Migrim to cute. 48
one Leaprons. 46	Melancholy a remedy. 52,95
Letters to make up fothat they may not	Meal to keep long, 91.f afc 184
be fecretly opened. 271, and how to o-	Mealons to make fweet and well fented.
penthem fecretly. Ib. to prevent burn-	182
ing. 1b. to defend from Mice. 1b.	Milk to make like Rock water. 100
Lentils to grow great 184	
Laurent Gold white blow Vermillion	Miracles done by Devils.
Letters of Gold, white, blew . Vermillion	Mice to kill. 125 to make blind . Ib.to kill.
to make 3 26. green.	16, to come together, 16, against field
Lead to give it the Tincture of Gold, 210	Mice, 125, to prevent their eating of
to leparate Gold from 10.211, to make	Cheefe. 126
Gold of Lead. lb. Lead and Tin to tranf-	Mother a remedy. 68
mute, Id to turn it into Tin, 212.to cal-	Moths not to touch any Garment. 257
cine it. 16. to handle melted Lead. 1b.	Moles to catch, 126, to make come toge-
Leaves artificial to make. 318	ther. Ib.
	A A CANADA A STREET WAS A STREET OF THE A STREET OF THE A STREET OF THE ASSESSMENT O
Lice & Nits of the head to destroy.78,130	Mulberry trees to make fruitfull. 161,175
Lillies to make purple, read, 170, to keep	Multiplying Glaffes. 223,224
fresh a whole year. 1b.	Mustard good to provide. 310
A Light to make one fart. 21	
Linnen cloath to Gild. 327	Ature, what.
Little Creatures that do milchief in Gar-	Necromancy what. 279,280
dens to destroy. 131	Necromantick sport. 340
Liver to purg. 26, to open. 59	Nerve cut afunder to cure. 76
Life to prolong.	
Liquor to write with whiter then paper.	Number what any man thinks to know.
329 to write with fo as to vanish. 330	
Localit to delitroy. 152	Nut trees old to help, 161. Nuti to grow
Love to provoke. 24,30,31.to continue 34,	
	the state of the s

Total I was	in the state of th
Live tree to make fruitfull. 161. O-	Plurifie to cure.
lives to grow fweeter. 179	Plague to prevent and cure. 41,42,43
Olives to featon. 310	Plants to make grow great, 153. if bar-
Orpiment to Sublime, 216. to extract Oyl	ren to make fruitfull, it, to keep from
of it. ib.	blafting and Wormes, th. to discover
Or to Cove charges Days in the teacher	subst kile Blass lib to make ht
Oven to fave charges. 370	what kils Plants, lb, to make a Plant
Oven to make tame, 117, that they may	grow like a Dragon. ib.
not furbet their feet. ib. to ftrengthen.	Plum tree faint and unfruitfull, to cure.
ib. to prevent wearinels, ib. to drive a-	159. to kill Wormes that offend it. ib.
way flyes from Oxen. Ib. to fat them.ib.	Plums to grow without stones. 175
118, their fickness to prevent ib. a-	Potion to purge. 79.80
gainst discases of the head. ib. 119. for	Por to keep from boyling.
	Pomore material make (west and 310
their fouring. ib. against feavours, ib.	Pomegranates to make sweet. 177. to keep
for cough, ib. lamenels ib. feabs, ib.	from cleaving ib.to grow without Ker-
wormes, ib. lice, ib. against their being	nels. ib. to make red and great, ib. to
bitten by an Adder. ib	keep green on the Tree. ib. to make
Of to kill men with its ill fent. 37. Of	fruitfull. 178 to keep for Winter ufe, ib.
precious for all forts of Wormes. 72,	Pomeeitron to grow with a Picture on it.
73. for a Rupture. 72	178.to make red. ib. to preferve all the
o 12. to a definition of the or and	year. ib.
To Cit I as males with I arrows 211	P. C. or Vename an Ansidate
PAdlock to make with Letters. 311	Poyfon or Venome an Antidote. 43,44
Pallar of the mouth faln to help. 55	To Posse all things by four weights. 289
Palfey to cure. 77,78	Ponder to take blots out of Writing. 329
Paintings for Wood, which Carpenters	Precions Salve for fores old or new. 80
use to make Checker work and other	Predictions of plenty. 183. of a forward or
rare figures. 184. Painting caffe. 332	backward year. 263
Painting for the face. 87. to make a Painted	Precions fiones to make. 239. to counterfeit.
face look pale. ib.	ib. 245
Pastime 338. with Peafe boyling. 340,	D. C. al M. Orann
	The state of the s
341,342,343,344,345,346	Pulse to make boyl quickly. 184
Parteidges to catch. 146	Purple colour to Write or Paint. 323,324
Peacocks to breed white. 145	Orekfilver to congeale with Lead.
Peffilent Agues. 27	193. with Iron. ib. with Mer cury.
Pearls to counterfeit. 242, to disfolve. ib.	ib. to give it the Tincture of Gold, ib.
Peffilentiall fwellings. 80	to make it fixt with Brafs, ib, to congeal
Peacock rosted to seem as if it were a-	
live. 308	it with Oyl. 194. to make it malleable.
Perstrees barren to help 350.to make in-	ib. to prepare it for Goldlmiths ufe. 195
creale of its fruit, ib. fick Pear trees to	to call it forth from a body. 196, to ex-
	tract it out of Lead, ib. to give it a Tin-
Luite .	cture ib. to make Silver of Quick filver.
Truth to minute to me	19 to make it into pouder. ib. Oyl or
	- Ballome of Quickfilver. Ib.
Peafe to make grow great 184. early. ib.	Quince trees fick to cure.
Peach trees to make flourish. 160.to cure if	Quinces to make. 174. how to gather and
fick.ib. Peacher falling off to prevent. ib.	keep.
Nut Peach and Almond Peach to make,	A STATE OF THE PARTY OF THE PAR
ib. to colour its fruit, 175. to make them	The state of the s
big. ib, to be without stones. 176	R Ainbow, how to see perfect. 265
Pheafants to make fat. 146	Red lake to provide, 320
Pittures to illustrate, 331, 332	Remedier against Hayl, 264, against Thun-
	der. ib. against Tempests. 264
Pigeons to keep from flying away. 144,	Remedy for those that are possess by the
145. to allure them. ib. to make them increase.	THE RESIDENCE OF THE PROPERTY
	THE RESERVE OF THE PERSON OF T
Pits in marshy places to contain fresh wa-	Reftorative. 78
cer.	Rhesone to help 68
	Rhenbarb to keep long. 310
Pipes to draw forth water 260	Rivers
The second secon	The state of the s

Rivers lately to pals. 27	Silver to turn into Gold, 102,21 3,20
Roughness of the tongue, 55	colour it, 204. to guild Silv 200
Roors of Rape to make exceeding great.	turn it into Caix, th. to meit it. the to
165. of Radish to make sweet. ib. great.	augment it. ib. to diminish it. 206, to
ib. Garlick to grow great. ib. to leave	blanch Silver.ib. to make Mettals look
its ill smell. ib. Leeks to grow great. ib.	like Silver. ib. to make it a Gold co-
to kill Fleas that hurt Roots. Ib. Man-	lour.ib.a water to diffolve Silver.ib. to
drake to counterfeit. 166	grind. 327, 328, 231
Rofes to keep irch. 168. to come early. ib.	Skin to make white. 87
to make Iweet. ib. to make Rofes in Ja-	Skinsto Dye blew, red, green, 321,322
mary, 169, to make white, red, green,	to Gild. 323, 331
yellow, blew. ib.	Sleep to proboke. 105, 106. to make fleep
Rupture to cure. 72, 78.	pleafant. 105. to prevent. 107.337. fleef-
Ruby falleto make. 243	ing medicaments. 285
Trin bar half was made and a summary	Sleepiness of any part of the body to help.
CAls water to make potable. 27,28	72
Salt Alkali to make. 218	Slings for War. 390
Salt Armoniac to Sublime. ib.	Small-Pox to bring out. 52
Saphir to counterfeit, 245. to change in-	
	Sneezing to caule.22. to prevent. 55
	Snakes. 130
	Sore Breafts. 57
Scorphulous tumors. \$5,75,81	Sope to take all forts of spots out of
Scorpions to deltroy.128, to prevent com-	Clothes 255
ing into Houses, ib. to kill them. ib.	Sores old and new to heal. 73
to handle without danger. ib.to prevent	Speaking by whilpering, 266, in fleep, 337
their flinging.	Spits to turn with a small fire, 45,47,312
Secrets of Sports. 334	Spors to take out of Cloath or Garments.
Serpents diverse Secrets, 132, to fluothe.	254, 255, 256, 257. out of Plush to
133. to prevent their ftings. ib.	take. 256, out of Silks and Scarlets. 255
Seeds to defend from cold Frofts and heat.	Spors out of all kind of skins to take. 257
182, to keep fafe in the ground, and	Sports with Dogs. 334. with Bread. ib. o-
from Birds. ib. from Cattle. 183. Seeds	ther Sports. 341,342,343 Squinfey to cure. 54
if fruitfull to know. 253	Squinfey to cure. 54
Sheep, Rams, and Lambs, to make a Sheep	Starte that kild those that touch it. 287
follow one. 120. Rams net to run at	Statue that alwayes looks toward the
Men. ib. to know what colour the	Sun. ib.
Lamb will be of. ib. their fickness to	Steel to harden 210, to loften, ib, to En-
prevent. ib. ruggedness to prevent. ib.	grave upon it. ib. Steel edges of Knives
to fright from their meat. ib. remedy	to make hard and firme. 210. to keep
for most diseases. ib. when to be shered.	from rult.
ib. murrain to prevent. ib. Plague to	Stinging of Scorpions to help, 80
cure. 121. scabs. ib. all other difeases. ib.	To Strengthen the body.
Ship Sailing to know how many miles it	Starres to fee in the day time. 16. Starres
hath gone. 293	apparent, their rifing and fetting. 295
Signs of Chastity. 102	Stone to cure.63. of the Kidnies.64. of the
Signs of fair weather 262. of tempelious	Bladder. 65,96
wearher, and foreshewing Rain.ib. 264	Stones that foretell things to come, 187
Thunder. 263, 264. of a long Winter.	Strangury to cure. 65,98
ib. of winds.	Strange Engines. 258, 259, 294
Sick person whether he shall live or dye.	Strange motion. 286
As Sala della Giornaf of a City 205	Strange things in a Hirnal to fee. 330
Signs of the deftruction of of a City. 305	States to yield fire. 14,15,16,247,148
Silver to colifh and make look new. 193	Stones to Engrave on. 246
Sinew pricking to help. 77	Strong shooes not to be worn out. 258
Silks to Dye Scarlet colout or Crim-	Stomach to purge, 56, to ftrengthen, 59
fon. 324	10

EQ. LOID.	aights to draw up with care.
1	Variibe Stratagems. 299
e white 145 W	Vax red, green, black, and white, to make. 310,311
Swelling of the congue. 48,75,76,78 W	Vomen if with Child to know. 68, 101, how many
Sweet to provoke. 81	Sons a woman fhall have. 68, to know if painted.
Sweening to help.	87. wemen Brefts to make like Virgins Sc. whites
Sweet fented mixture.	in momen to cure.67.to make women rejoyce.25.to
Short Jemen auxore.	make barren. 57. wrinckles in memens beilies after
Able-Books how to make. 274323	Childbirth to take away 90 wernen to make hifty.
	102.to make a woman take delight in her Hulband.
T True William Land	ib. 103. that women may bring forth handfome
Tellers to remove.	Children in to know if a waman be chall or ever
Thornes to DIAW OUL	lay with a Man. 104, 345. for women that are be-
7 BINT DV DEZE LO PICTUM.	wircht, 104, women to ablier copulation, and the
Inuniter, Lightening, and Issue, a control of	Man to defire it. 105. to make women admit none
Thefr to find out.	hur their Hufbands.ib. to know whether a roman
Thread porto burn.	be chaft.ib.that a woman shall not commit adulte-
Tie to draw a foint from it. 212, to harden it. 215	ry with any Man. ib, to make hold their water.
to take away its ringing to. Its dearners, to total	337. to make her confess her wicked deeds in her
ir into Lead.	
Tifieb a drink.	Weefils and Squirils to make tame. 126. to kill. 152.16.
Touthach to cure. 54	to prevent their doing hurt. ib. to make them
Topaz to counterfeit.	
	COINC LORCHICE.
Charletter 91	LA WERL FO THE COME CHARACTER BY
	Wheels to draw up water.
the second market and a second truling to	White Letters on a black ground. 268
	Wiglice to kill.
	Winds to break.341. to ftop. ib.
	Windmill how to make. 300
move and transplant trees.ib. to prevent Blastings and Frests. 156, to cure fick trees.ib. and barren.	Witchcraft to diffolve. 30. to cure. 55
THE RESIDENCE OF THE CHILD STATE OF THE PARTY OF THE PART	Wild Creatures to tame. 123. Wild Bealts to drive a-
	way, ib. to be secure from them.ib. to be safe from
fruit, leaves, and bloffomes.ib. against Wormes	wild Bores. 124
ib, to prevent their hurt by Cattle. 158: to deftroy ib	Wine corrupt to help. 91,92.to keep long. ib. its four-
	ness to rake away. ib, 93. against ill fent in wine.ib.
P. I I HOUSE LA POSSICIO CONTROL DE LA PROPERTIE DE LA PORTIE	to know if wine will keep.ib. to make wine last ib.
Tartles to fatten.	to make white wine red. ib. troubled wine to be-
Tarky stone its virtues. 116 10 110 - 75 0 11245	come clear.ib. to prevent its hurting by Lightning
Spar out at all kind of time to skee her the	come cicardo, to prevent in having over ca to
7 Erdigreafe to make. 207	and Thunder.ib.to prevent its boyling over.94. to
Vellel so fend out wind. 27 . to draw up water.	make new wine old.ib. to part wine from water.ib.
28. not to break.311, to paint.	to give wine a pleasant tate.ib. wine to keep cool.
Venemass Buboes to cure. 80.flingings to help. 81.ul-	95. Greek wine to make ib. 57. Wine to tafte like
7.476,77	Malmiey.95. Borage wine. ib. Cherry wine.96. of
Penery to flir up. To2. to provoke. ib. to take off its edg	Quinfes. ib. Hipocras wine to make five wayes.ib.
and defire. 105 that men shall not affect unlawfull	Malmfey.ib. Mufcadil, Claret, 97, a good wine for
	aged weak Perfons.ib.Relpas wine Artificial 68.to
	keep to as neither cold nor heat can hurr it. 340
Letally to time - 2 - 1	Wild Trees to root out.
Vifin in the Clouds.	Wood that takes fire by rubing. 17. not to burn with
Vinegar to make 100. ftrong, ib. fharp, ib. feverall	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Wayes to mane and	Wood to Die of feverall colours, tuch as the Joyners
P (PPIIII) P INDIA 10 PRINCE	make Chequer work of 221 to bild. 327
	Wonder of a Drum Wheel 341 of a Woodden frame.
Vines to Engraff. 162. to make beare white, black,	342
and yellow Grapes. 163, 180. to grow without	Warmer to defiroy. 61,62
flones, ib to kill irs Lice and Caterpillars ib to pre-	DESIGN OF LINEW.
some baset by brook that blatting to basicines to	Waved to make with a intall touch 27, an antidore
help. ib. fick and weeping vines to help in 103, to	for it. 22 wounds in ward to cure. 58. Wounds Of the
know if fruitfull.	head an of the Nerves 72.75, wound to make
Vamiting to ftop. 48. to prevent at Sca.	without pain.ib. for wounds that cannot be Tent-
# that a inflament.	TOTAL OF THE OWNER OF THE PROPERTY TO
grademining in Star, its reason and Dic. 501	Walescoot to hurt Cattle, 124. to carch them. 10.125
Tiving to provoke, 65, hot.oo, hope.to, had broad to	Writing on the body not be got out, 268, to write on
cure, 66	an For 260 writings to conceale ib. lecree writing.
and described the first the same of the sa	the writing to be visible by fire or water to. Letters
Tyl 7 Arra to remove. 81,82	to be read in the night, 270, to read all kind of ic-
V Water to reftore to period colour of any un-	erer writing ib. Letters to decay at a let time to
pen Cloath.	who off Letters ib 221 to write on them.ib. writing
Washe their Georgian to prevent. 150	h the the Ottom organ bloom 200
Water to divide from Wine. 27. against Locolt. 26. 10	Fillow Introduce a cure. 50, 02
heat without fire, ib, to draw forth it felf. 250	YELLOGUE
	Achiatosar

