Sep. 17.

r Idem ibid.

Markette Value

A bleeding herb.

Pin. lib. 24.

4. Pythagoras telleth of the herb & Callicia, which will turn water into ice.

Chap.6.

5. Ophiusta is an herb growing in Ethiopia: it is of a wannish colour, dangerous to be looked on: and being drunk, it doth fo terrifie the minde with a fight of angry and dreadfull ferpents, that through the fear of them men have fometimes killed themselves.

6. Hemlock (as some relate out of Galen, in his book

Detemperamentis) is meat to storks, and poyfon to men. 7. Sardonia, or Crow-foot (as some write out of Soli-

nus) is an herb which moveth laughter.

8. Upon a mountain of Cypres called Arcadie, is an herb or plant growing, which if a man cut, there issueth a liquour like warm blond if with this blond, thus warm. one man should touch another, he would love him affectionately whom he toucheth. Contrariwise, if the bloud be cold, the touch will ingender hatred. My authour calleth this plant, Flabia. See Die Bant, Summarie.

9. Moreover, in the fame authour I finde (as he hath it from one Rhamnusius, in his Navigations) that in the island called Australle, there is an herb found, upon which whosoever lieth down, he is first taken with an heavinesse of the head, then with sleeping, and confequently with death.

: Lib, 24, cap.17

10. Magicians make use of the herb Anacrampseros, which (as I finde in Plinie) by the very touch thereof caufeth love to grow between man and man, abolishing all former hatred.

11. The like is reported in a manner of the herb Sombread, which being made into little flat cakes, and taken inwardly, is a good amorous medicine, and will make one in love. Ger.

12. Also they report, faith Dioscorides, that the herb Snap-draggon or Calves-snout being hanged about one, preserveth a man from being bewitched, & maketh him gracious gracious in the fight of the people. Gerard. ex Dioscor.

13. Enchanters also make great brags of the herb Ethiopis (which, I think, fome call by the name of Mo-

14. And of the herb Achimedis: the first whereof being cast into rivers, will drie them up; or being applied to any thing lockt or flut, will presently open it: the other

being call into an armie in the time of battel, canfeth the fouldiers to be in fear, and runne away. Thus fay some. Neither hath Plinie forgotten these two last herbs: but he mentions them with a kinde of derifion, as in the 26 book and 4 chapter of his naturall historie is apparent; where he wondereth why enchanters would not make use of them in time of danger and extremitie.

And for mine own part, this I cannot but fay, that it is great pitie the fecrets of nature should be foiled by infamous magick, and by the superstitious ignorance of for-

cerers.

Sect.4.

15. Unto these, Apollodorus hath added the herb A/chynamen, which draweth in the leaves when the hand of any one approacheth to touch it.

16. Like unto which is the herb Sentida, growing in India: for if any one come neave and touch it, or throw

fand, or any thing elfeupon it, presently it becometh as if it were withered, and closeth up the leaves: so continuing as long as the man standeth by: but so soon as he is gone, it openeth fresh and fair: and touching it again, it

withereth as before

Thefe, you fee, are rarities: and being now ready to Here the authour passe away from them, I should come to speak something of grain; as wheat, rie, barley, lintels, oats, peas, beans, rice, with fuch other like; and gladly would I do it, but that (me thinks) I am called another way: for lo I have discovered the tops of yonder trees; and one by one, I mean to view them.

Mm.

Vitex.

It is pitie that natures fecrets should be foiled by magick.

beginneth to fpeak of trees.

Chap.6.

274 Agunt od lut.

a Lib. 24. cap.9

Vitex, or the chafte tree (which the Greeks call daying, and Adyos, because, saith Plinie, certain matrons among the Athenians, desirous to live chaste, did lay the leaves of it in their beds under them) is called in the Latine Salix marina, or Salix amerina, or Piper agrelle, or Agnus castus. And, as Plinie writeth, it is of two kindes: the greater, and the leffer. The first groweth up much like

roid.

b Mr Gerard.

eth more, having whiter and downier leaves then the former. Our becountreyman, and an excellent Herbalist. faith that it groweth up after the manner of a bushie shrubbe or hedge tree, having many twiggie branches, very pliant and easie to be bent like unto the willow: the flowers are of a light blew colour, and very fweet in finell; the leaves long and narrow; and the fruit small and round like unto the grains of pepper. And note that the flowers grow at the uppermost end of the branches, clustering close together.

a willow tree: but the other brancheth out and spread-

Some fay that it is a plant hot and drie in the second degree: others name the third.

It is a fingular medicine for fuch as would live chafte. in what fort foever it be taken, whether in powder, or decoction, or the leaves worn about the bodie.

Also it driveth away windinesse of the stomack, openeth and cureth the stoppings of the liver and splene, with

fundry fuch other needfull cures.

Willow is of a much like nature; and therefore it is yet a custome, that he which is deprived of his love, must wear a willow garland. Also the green boughs with their leaves may well be brought into chambers, and fet about the beds of those who are sick of agues: for they do mightily cool the heat of the aire; which thing cannot but be a wonderfull refreshing to the sick patient.

Tamarisk is a little tree well known; the decoction of whose branches being drunk in wine, and a little vineger, vineger, is of great vertue against the hardnesse or stopping of the splene or milt: for this tree doth by nature so waste the milt, that swine which have been daily fed out of a vessel made thereof, have been found to have no milt at all.

Role is cold in the first degree and drie in the second, somewhat binding, especially the white Rose. The red is leffe cold, more drie, &c. As for the damask and musk Rose, it is hot, and moist withall. The damask water is sweetest; but the red is wholesomest. And of the red Rose leaves a conserve may be made, which is good, not onely to cool, but also to comfort the principall parts of the bodie, viz. the head, heart, stomack, liver, splene, and reins. Thus you may make it. Take the buds of red Roses somewhat before they be ready to spread; cut the red part of the leaves from the white, shake out the vellow feeds: then take the red leaves and beat them very fmall in a stone mortar with a pestle of wood; and unto every ounce of Roses put three ounces of sugar, by little and little, in the time of the beating, and beat them all together untill they be perfectly incorporated: then put it in a glasse or gallipot; stop it close, and set it in the sunne for a season, and it is made. And know that it will remain in full vertue for a yeare or two, but then it decayeth. Myrtle is a little low tree growing in some hot coun-

treys, having small dark leaves, bearing berries which are of a binding nature, and good to stop any issue of bloud. This is a tender plant, not able to endure any cold: and (as authours affirm) it was wont to be worn of the Myrtle garlands. Romane captains garland-wise in wiumph; namely then, when they had obtained any victorie without flaughter of men. Also in times past this tree was consecrated to Venus: and thereupon I finde in Plinie, that amonest the Romanes there was an altar belonging to Venus, which they Mm 2

Rofe. The temper and vertue of Rofes.

Conferve of Ro-fes, what it is good for.

liow to make

Myrtle. Good againft

Tamarisk. Good for the fplene or mile.

Willow.

From whence came the first use

of willow gar-

Myrtle berries uled for pepper.

Ebone.

A imoke good for the eyes.

they call by the name of Murtis. The faid authour alfo affirmeth, that before pepper was found out, the myrtle berries served in stead thereof. See Plin. lib. 15. cap. 29.

Ebone is a tree growing in India and Ethiopia, in talte being sharp and biting. If it be burnt, it yeelds a sweet finell, the finoke whereof is not offensive, but good against many diseases of the eyes: as also the green wood is so full of sap, and withall so fattie, that it will same like a candle. Some have faid that it bears neither finitnor leaves; but this is a false opinion, as they have witneffed who have feen the tree, and taken the true pi-Aure of it. The outward parts are white, but within it is black. That which groweth in India, is not in fuch eftimation as the Ethiopian Ebone; for it is spotted with white and yellow.

Sethim.

Sethim is a kinde of tree something like a White-thorn; the timber whereof never rotteth. Of this tree, Noah, according to Gods command, made the ark; as we reade in Genefis.

Palm.

Palm, or Date trees, are both one. This tree groweth plentifully in Egypt, and other parts of Africa; but those which are in Palestine and Syria are the best: they grow likewise in most places of the East and West Indies. The branches of this tree were wont to be carried as

A token of vi

a token of victorie, because they are of this nature, viz. that they will shoot upward, though oppressed with never so great weight: neither do the leaves of it ever fall, Elianus remembreth another propertie; for (faith he) the reportrumeth thus, that in Delus the Olive tree and the Date tree flourish most fruitfully, which when Latonahad touched, the was fuddenly disburdened of childebirth, whereas before the could not be delivered. Elian. lib. 5. Also they grow by couples, male and female: but the female is onely fruitfull.

Latona delivered by the Date.

Plane.

The Plane tree, called Platanus, is a spreading tree

with broad leaves: in times past it was greatly esteemed in Italie for the shadow thereof; insomuch that (as Plinie reporteth) they often bedewed it with wine to make it grow. The old Romanes were wont to banquet much under these trees. And there is, saith Plinie, no greater commendation of this tree, then that it keepeth away the sunne in summer, and entertaineth it in winter.

We reade of Xerxes King of Persia, that he was strangely enamoured on this tree, having it in such singular admiration that he became a servant to it. For in Lydia (as Elianus writeth) when Xernes happened to fee a tall and loftie fair Plane tree, he made a whole dayes tarriance by it; and, no necessitie constraining him fo to do, he pitched his pavilions and tents in the void and emptie places round about the same. He also hanged precious jewels of great value upon it, adorning and beautifying the boughs and branches with chains of gold, with bracelets and tablets, with spangles and such like costly things, yeelding thereunto great worship and reverence; appointing also an overseer to keep, preserve, and defend the same from all casualties. This was a ftrange crotchet; and little or nothing the better was the poore tree for all this love and braverie.

Pepper (whereof there are divers forts) groweth at the foot of other trees, climbing upon them like to ivie, and is in bunches like grapes.

Ginger groweth like young reeds, with a root like a lilie: it is plentifull in Malabar, or Malavar, a province in India intra Gangem.

Cinnamon is the inner bark of a tree as big as an olive; with leaves like bay leaves, and fruit like an olive: the drying of the bark maketh it roll together. Within three yeares the tree yeeldeth another bark, as before. They of Ormuz call it Darchini, that is, wood of China: and felling it at Alexandria, they call it Cinnamomum, which Mm a

A banquering

c Period, SIR.

Cinnamon,

which is, quasi Amomum ex Sina delatum. Purch. ex Garcia ab horto.

Nutmegge and Mace.

The Nutmegge-tree is like a peach or pear-tree, and groweth most in Banda an island in Asia, and in Fava. The fruit is like a peach, the inner part whereof is the Nutmegge, which is covered and interlaced with the Mace. For when the fruit is ripe, the first and outermost part openeth, as it is with our walnuts; then the Mace flourisheth in a fair red colour, which in the ripening becometh yellow.

Cloves

Cloves grow in the Molucces on trees, like bay-trees, yeelding blostomes, first white, then green, afterwards red, then hard; and this hard thing is the Clove. When they be green they yeeld the pleasantest smell in the world. And (as it is reported) being ripe they are of such an extraordinary heat and drinesse, that in two dayes they will fuck out and drie up fuch vessels of water, as Mall happen to stand in the same room where they are. These spices and drugs, with many other, are the fruits of India.

Cypresse.

 $x_2 d / c_2$

The Cypresse is a tree growing on drie mountains, and most commonly in hot countreys. It is very tall, and the timber thereof is yellowish and of a pleasant smell, especially being fet neare to the fire; and of fuch durable nature, that it doth neither rot nor wax old, nor yet cleaveth or chappeth it felf. See Plin., lib. 16. cap. 33, 6.42.

Pine.

The Pine is a tree of the same nature, not subject to worms or rottennesse, and therefore much used, where it groweth, to make ships. The leaves are hard-pointed, tharp and narrow, continuing green all the yeare; and the shadow thereof will not suffer any plant to grow under it.

d Plu lib, 17:

Cedar.

Cedar is a tall great tree which groweth in Africa. and Syria; many of them upon mount. Libanus. They be straight

straight and upright like the Firre-tree: their leaves are small, thick, and of a sweet smell. This tree hath fruit on it all times of the yeare, which fruit is like to that of the Firre & Pine-tree, but greater and harder; and at this day (as some affirm) there are found upon mount Libanus, Cedars planted by King Solomon: the truth of which I will not stand to justifie.

The third dayes work.

Terebinth is a tree from whence Turpentine issueth. Picea is a tree that droppeth pitch; it groweth in Greece, Italy, France, Germanie, and all the cold regions even unto Russia. It remaineth alwayes green like

unto the Pine; and, by some, is supposed to be a wilde

kinde of Pine: especially seeing the Pine affordeth Rosin,

Pitch and Tarre. Yet some attribute Pitch to the great Cedar, Rosin to the wilde Pines chiefly, and Tarre to

the Pine called the Torch-Pine.

Sect.4.

There is a tree in India, called the Indian Coquo, or Cocus, being the most strange and profitable tree in the world; of which in the islands of Maldiva they make and furnish whole ships: so that (save the men themfelves, faith one) there is nothing of the ship or in the the ship part in the ship, neither tackling, merchandise, or ought else, but stim part in the ship pa what this tree yeeldeth. It groweth high and flender, the wood is of a spungie substance, easie to be sewed, when they make veffels thereof, with cords made of Cocus. It hath a continual succession of fruits, and is never without fome: they grow like a kinde of nut, which is of a very large fize, having two forts of husks as our walnuts; the uppermost whereof is hairy like hemp, and of this they make cordage; and of the next they make drinking-cups. When the fruit within these shells is almost ripe, it is full of water, which, as it ripeneth, changeth into a white harder substance: at the first this liquour is sweet, but with the ripening groweth sowre. The tree affords a very medicinable juice; and, if it stand one houre

Terebinth. Picea.

The third dayes work.

houre in the funne, it is good vineger; but distilled, it may be used in stead of wine or Aqua-vita. There be waves also to make sugar of it, and of the meat in the nut dried they make oyl: Of the pith or heart of the tree they make paper: of the leaves they make coverings for their houses, tents, mattes, and the like . Nay, their apparell, firing, and other necessary commodities, they gather from this tree. Thus fome. Or, according to others. it is thus described. In the isle of Zebus there is a fruit which they call Cocos, formed like a Melon, but more long then thick: It is inclosed with divers little skinnes. fo strong and good as those that environ a Date stone. Theillanders make thread of the skinnes, as strong and good as that which is of hemp. The fruit hath a rinde like a drie Gourd, but farre more hard: which, being burned and beaten to powder, ferveth for medicine. The inward nut is like unto butter; being both as white. and as fost, and besides that, very savoury and cordiall. They make use of this fruit also in divers other things. For if they would have oyl, they turn and toffe it no and down divers times: then they let it fettle some few dayes, at which time the meat will be converted into a liquour like oyl, very fweet and wholesome, wherewith they oftentimes anoint themselves. If they put it into water, the kernell is converted into fugar; if they leave it in the funne, it is turned into vineger. Towards the bottome of the tree they use to make a hole and gather diligently into a great cane the liquour that distilleth. which amongst them is of as much esteem as the best wine in these parts: for it is a very pleasant and wholesome drink.

Arbore de rais.

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There is also among the Indians a tree called Arbone derais, or the tree of roots, called also the Indian fig-tree, and by some affirmed (with more confidence then reafon, faith one) to be the tree of Adams transgression. It groweth

groweth out of the ground, as other trees, and yeeldeth many boughs, which yeeld certain threads of the colour of gold, which growing downwards to the earth do there take root again, making as it were new trees, or a wood of trees, covering fometimes the best part of a mile.

There is also another tree which some call the Indian mourner, or Arbore triste, the fad and forrowfull tree. It hath this propertie, that in the day time and at sunnefetting you shall not see a flower on it: but within half an houre after, it is full of flowers, which at the finne-rifing fall off, the leaves shutting themselves from the sunnespresence, and the tree seeming as if it were dead. The Indians have a fable of one Parisatico, who had a daughter, with whom the funne was indover but lightly forfaking her, he grew amorous of another: whereupon this damofel flew her felf, and of the affice of her burned carcafe came this tree. A prettie fiction this: Ovid himfelf hath not a better.

In the illand of Hierro (being one of the Leven illands of the Canaries) is a tree which distilleth water incesfantly from the leaves thereof, in fo great abundance. that not onely it sufficeth those of the illand (for there is no other water in the illand) but also might furnish the necessary uses of a farre greater number of people. This strange tree is alwayes covered with a little mist, which vanisheth by degrees, according as the sunnesheweth himfelf.

When the Spaniards (faith my authour) took upon them to conquer this ifle, they found themselves almost discomfited because they saw neither fountains, springs, nor rivers: and enquiring of the illanders where they had their water, they answered that they used none but rain-water, & in the mean time kept their trees covered, hoping by this fubtiltie to drive the Spaniards out of the

Nn

A weeping

isle again. But it was not long before one of their women, entertained by a Spaniard, discovered the tree with the properties of it; which he at the first held for a fable, untill his own witnesse faw it was true; whereupon he was almost ravished with the miracle: but the woman was put to death by the islanders, for her treacherie.

Chap.6.

Barnacle tree.

In the north parts of Scotland and in the illands adjacent called Orchades, are certain trees found whereon there groweth a certain kinde of shell-fish, of a white colour, but somewhat tending to a russet; wherein are contained little living creatures: For in time of maturitie the shells do open, and out of them by little and little grow those living creatures; which falling into the water when they drop out of their shells, do become fowls, fuch as we call Barnacles or Brant Geefe: but the other that fall upon the land, perish and come to nothing. M. Gerard affirmeth that he hath feen as much in Lancashire, in a small island which is called the Pile of Foulders: for there be certain boughs of old trees, and other fuch like rubbish cast up by the sea, whereon hangeth a certain spume or frosh, which in time breedeth unto a shell: out of which by degrees cometh forth a creature in shape like a bird; sending out first a string or lace, as it were, of filk finely woven, and of a whitish colour; then follow the legs, and afterwards more and more. till at the last it hangeth by the bill: soon after it cometh to maturitie and falleth into the sea, where it gathereth feathers, and groweth to a fowl bigger then a mallard, and fomething lesse then a goose, being somewhat coloured like to our mag-pies. This M' Gerard testifieth to be true upon his own knowledge; as in his Herball is apparant.

And thus (gentle reader) I would here end, not onely this Chapter and Section, but also the first part of my book.

book, were it not that I have a defire to speak a word or two of things growing under ground, and within the earth: which, as briefly as I can, shall be handled in the following Appendix.

An Appendix to the two former Sections; discoursing somewhat concerning Metalls, and such like things as are under ground.

IN the second dayes work I had occasion to speak of Fiery, Aierie, and Watery Meteors: all which by the Philosophers are named bodies imperfectly mixt, being but a little durable. And now, being to speak of things under ground, I am come to bodies more perfectly mixt, and of a longer continuance, because they consist of a more solid and constant concretion of Elements.

Their names in generall, are either Mineralia, Mine-

ralls; Fossilia; or Metalla.

They are Mineralia, because they are generated in Mines; that is, in the veins, pores, and bowells of the earth.

They are Fossilia, from Fodio, to dig, because they are digged out of the earth.

And they are Metalla, Metalls, from the Greek word metana, which is to search, or finde out; because, with much labour and cost, they are sought out of the veins and bowells of the earth.

That name which I insist upon, is this last: And that the kindes of Metalls may the better be remembred, this short table would be observed.

Nn2

Metalls

284... (Prin- Swhiehard of chemfelves; as Sulphur and Mercurie, being Castit were:) the father and mother of all metalls: cipall ? Cmore & Gold. Silver. Brimstone, lesse; having either more either Quickfilver. Wolid Sthining. not thining: Leffe mon full of pores, as the Pumex E Sitones Metalls and Tophus. cipall preci- Smore noble, shining more. ous Eleffe noble, thining leffe. Brittle, or of a friable nature; easie to be brought into crumbes: And these are all kindes of precious earths, and fucks of the earth: as Terra Lemnia, Samos, Bitumen. Sal, &c. Of these kindes I purpose to speak a word or two. which shall be as it were to explain the table to such as know it not. do not help to make them, but they help to make other metalls.

The first, or principall metalls, are Sulphur, and Mercurie: These are of themselves, because other metalls

Brimftone.

Sulphur or Brimstone; is faid by some to be the fat of the earth with fiery heat decocted unto his hardnesse; which is the cause that it so speedily is enflamed, and burneth even in water.

Orthus. Sulphur is a metallick fubstance or matter, confifting of a more subtill Exhalation, far and unctuous, thut up within the veins of the earth. It will burn fooner then the fat of beafts: for although it be fatter then Brimstone, yet it is farre colder:

Mercurie

The third dayes work.

Mercurie or Quicksilver is affimie water, mixt with Quicka pure white earth; which metall, for the marter where- filver.

of it doth confift, is thin, cold and heavie.

Or thus. Quicksilver is a metallick matter, confilling of a waterie vapour, more fubtil then ordinary; which is mixed with earth to conglutinate or knit it together; and, by the heat of Sulphur, it is digested into what it is. It pierceth metalls, because of the extream thinnesse: which, together with the heat of it, makes it be in continuall motion and the motion, by a Metaphor, causeth it to be called Quicksilver. Moreover, it is also called Mercurie, because as Mercurie is joyned to all the Planets, fo this to all metalls: or as Mercuric is moved many wayes, fo this is apt for any motion.

The lesse principall metals are derived from these. Metalls derived first. I call them lesse principall because they are not of from the two themselves, but produced by the help of the other two. These I divide into two forts; the pliable, and the

lesse pliable. P

Pliable metals are pure: and that, either more or lesse.

Themore pure, are Gold and Silver. Gold is the onely purelt of all metals, and is compoled of a most pure red Sulphur, and of the like Quicksilver: they are red, but not burning: This metall'is onely, perfect; all other be corruptible. It is perfect, because it is concocted with fufficient heat, and mixture of Sulphur: whereas all other metals, either are not fo well concocted, or else they have not the due quantitie of brimstone: and (as it is affirmed by the Alchymists) because nature in all her works feeketh the best end, she intendeth of all metals to make gold: but being hindred, either for want of good mixture, or good concoction, the bringeth forth other metals; although nor fo precious, yet in their severall uses, every way as profitable, if not more: for it is scarce a question whiether there be more | Moores 11/10/14. N n 3

Pliable metalls of the pureft kinds,

Gold.

use to the necessitie of mans life, in Iron and Lead, then is in Gold and Silver. Gold never rusteth, both because of the purenesse of its parents, free from poisonous infection; and also because it is so solidly composed that no aire (which causeth all things to corrupt) can be received into it.

This perfection, together with the rarenesse, and beautie of it, hath caused fond mortals to doat so much upon it as they do. Nay, will not one pound or ounce of this go further then ten, either ounces or pounds of honestie? The Poets saying agreeth to it,

Aurea nunc verè sunt secula, plurimus auro Venit honos.

This is the golden age, not that of old: For now all honour's to be bought with gold. And hereupon I think it is, that most men dispraise this metall, and yet but few who would not have it.

Diversas hominum videam cum sparsa per artes Ingenia, est cunclis ars tamen una viris.

Omnibus idem animus gratos sibi quarere nummos: Omnis inexhaust as undique poscit opes.

When I behold the wits of men inclin'd

To divers arts, I all of them do finde In this one art to meet; they shun no pain Wish'd wealth to heap up, and augment their gain.

Nay, they are not common fetches and plots, but strange and bloudie damned practifes which are often used to get and obtain the riches of the world. Which Ovid could discern a long while since; and therefore he saith,

Effodiuntur opes irritamenta malorum: Famque nocens ferrum, ferróque nocentius aurum.

Riches (those fond enticements unto ill) Are digged up; and iron which doth kill.

But Gold it is which doth more harm to men Then iron blades, though steel'd, though sharp, though keen.

The third dayes work.

Or, as another faith. Aurum, destructor vita, princepsque malorum,

O quam difficiles nectis ubique dolos! O utinam natum nunquam mortalibus esses,

Dulcia suppeditas que nocumenta viris! Gold, lifes destroyer, and of mischiefs chief,

Oh what strait wiles dost thou knit, past belief! Would thou hadft ne're been born to mortall

Sith harm to men rests in thy false delights! Thefe are the complaints. But it is neither in Gold nor Iron or the like, that these evils rest; the causes of ill ought rather to be imputed to the devil and wicked men. For true it is.

All goods are good to good men that well use them. But they are bad to fools who do abuse them.

And thereupon faith Du Bartas, I know to man the earth (eems (altogether)

No more a mother, but a step-dame rather;

Because (alas) unto our losse she bears Bloud Shedding Steel, and Gold, the ground of cares:

As if these metals, and not mans amisse,

Had made sinne mount unto the height it is:

To pick a lock; to take his neighbours purse,.

To break a house, or to do something worse; To cut his parents throat, to kill his prince,

To spoil his countrey, murder innocence. For, as a cask, through want of use grown fustie, Makes with his stink the best Greek malmsey mustie:

So Gods best gifts, usurpt by wicked ones, To poison turn through their contagions.

What pains do not men take to winne gold? every man hath one way or other to hunt after it: but the Alchymilt, despising all other wayes, as slow, unnaturall, and unprofitable, laboureth, either to help nature in her work,

Mejamorph. lib. 1.

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work, as of unperfect metals to make perfect, or elfe to

How to foften

h Lib. ge.es. 2

force nature to his purpose, by his quintessences and Elixers; fo that what by purging, what by concocting, what by mixing of Sulphur and Quickfilver, and much other like stuffe, at length he turneth the wrong side of his gown outward, all the teeth out of his head, and his bodie from health to a palfie, and then he is a Philofipher, and fo he mult, nay, will be called.

It is faid of Gold that it waxeth cold towards daylight: infomuch that they who wear rings of it, may per-

ceive when the day is ready to dawn.

Bilver is the most pure metall next unto Gold: it hath un indifferent good concoction, but it wanteth fufficient heat in the mixture, and thereupon it looketh pale. It is a metall begotten of pure white Mercurie, and of cleare white Brimftone or Sulphur.

The leffe pure pliable metalls, conflit fome of them of more Brimftone; Tome; of more Quickfilver: neither are any of these two so pure, as those in the mixture of

Gold and Silver.

Braffe is an impure metall, confliting most of a red and thick Sulphur, and of a little Quickfilver something impure: that which cometh from Cyprus is called Copper. and is the pureft, as being of best digestion, and nearest unto Gold; * Braffe, Latten, and fuch like, being no other then divers kindes of Copper. In ancient time; this metall was in greater effeem then Tron: for they did not onely make their armour of it, but their bucklers also and their lances; because they would not be worn, either with age or use.

Copperas is:a minerall of a neare nature unto Brasse or Copper: it is faid by fome to be mixed of humours strained by drops into small holes. And perhaps it is nothing else but the more raw and impure substance of that which is the matter of Copper, with leffe Quickfilver

Pliable metalls leffe pure.

Silver.

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Braffe and Copper.

* Some fay
Braffe is not nal
turally, but artificially made.

Copperas.

in it, and that also of a baser qualitie. It is hot and drie in the fourth degree, vehemently binding, being of great force to season and preserve raw flesh, (as some affirm) and is also good to beget found flesh in festered fores, and to stench bloud. It is of a green, yellow, and a skie colour: but the best hath white spots in it. See more afterwards in Vitriol.

The third dayes work.

Iron is a common metall, necessary for the use of Iron. mans life, engendred of a most impure Quicksilver mixed with a thick Sulphur impure and adult. Or thus: It is an impure metall confilting of much crude, earthie, adust Sulphur, and a modicum of filthie and bad Mercurie. This (faith the Philosopher) although it be hard, yet by daily use it is worn and wasted: the reason being in regard that it hath in it least of Mercurie, and most of an earthie Sulphur. The quenching it in water makes it harder and harder: but if it be quenched in the juice of bean-shells or mallows, it becometh soft: and so also doth the often heating it, and cooling it without quenching. h Plinie calleth it optimum pessimumque vita instrumentum, the best and worst instrument of life.

Steel is a kinde of Iron, but the pureft and the hardeft; Steel. or Iron refined. Naturall steel, which we call Chalybs. in times past was gotten out of a place in Thracia, where the people called Chalybes inhabited: their use was to go naked, and digge this metall out of the earth.

Metalls confifting most of Mercurie, are these; Lead. and Tinne.

Lead is a raw and indigested metall, but of better digestion then commixtion: for it is mixed with a grosse earthie substance, which causeth it to be in colour so black, and foready to foul. It is begotten of much unpure, thick, and droffie Mercurie; and by refining is made whiter. The kindes of this are varied by reason of the matter whereof it confifteth, and by reason of the heat

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by which it is decosted: and thereupon it comes to passe that we have one fort which we call Black-lead: another farre whiter and clearer, as being better concoeted, and more purely composed. It is of a cold and binding nature; and if it lie in the wet, moisture will increase the weight. England hath store of it.

Tinne.

Tinne, whereof great plentic also groweth in the West parts of England, in beautie and colour cometh nearest unto Silver; and of Silver wanteth nothing but foliditie and hardnesse. Some think that it is composed of Silver and Lead: but the more common opinion is, that the greatest part of it is Mercurie, white without. and red within, having a portion also of Brimstone or Sulphur not well mixed, being as it were Lead whited with Silver: for it is a raw and undigefted metall, very porous and uncompact, which causeth it to crash when it is either broken or bitten. And thus farre of metalls pliable.

Stones

Metalls less pillThe less e pliable (as I shewed in the table) are either hard, or brittle; & cannot be easily hammered; wrought, or melted to a defired form. The hard ones, are all kinde of stones. And of stones, together with bodies friable or brittle, it is doubted

whether they be in the number of metalls or no; because there is great difference in the matter of their compo-

fure, &c.

To which it is answered, that although they be not in the number of such kinde of metalls as are pliable, and will melt; nor yet abound with that matter of mixture which they do: neverthelesse they may bear the name of metalls, according to that generall name specified in the derivation of the word Metalla. And in that regard I made a difference of metalls, and drew them out in the former table. Wherefore I proceed: and following them who derive stones after this manner, I say that flones

stones are bodies perfectly mixt, without life, hard, of what somes are, a drie and an earthie exhalation, mixed with a certain they const. unctuositie; and by the durance of time, together with the force of heat and cold, and a minerall vertue, conglutinated or knit together. Or thus; they be engendred of a watrie moisture, and fat earth mixed hard together. By which it appeareth that the matter of stones is a watrie humour, and a thick uncluous earth: which is not to be understood as if the other two elements were separated from their mixture; but because they have not fuch precedencie as the former. And for their efficient causes besides the minerall vertue; it is said to be heat and cold. Heat bringeth the flow humid uncluous matter through the thin parts of the earth (as the Philofophers affirm) and cold condenseth it, and makes it thick. They live not with a vegetative life, as plants and trees which have their nourishment from within; but their augmentation proceeds from an outward accretion by the apposition of particulars adhering to them, when they lie in place convenient: and, in time, their vertues may be abated, by being long out of their right Vbi; in which regard some supposed that they had life, and died.

The third dayes work.

The common stones are of a more impure and grosse matter then the other. Some whereof are folid; some

more full of pores.

In the folid, the parts are more continued, and better compacted: yet so, as some have a kinde of shining in them; others are dark and dull. The shining solid stones, are chiefly all kinde of marbles: of which I finde three forts, 1. Alabaster; which is of colour very cleare and white. The Greeks call it and assirus and about Thebes in Egypt it is especially found; there being the greatest plentie of it. 2. Ophites, which is a kinde of marble ha- Ophites. ving spots like a serpent. 3. Porphyrites, which is the Porphyrired marble, mixed or interlaced with white spots. The tes.

Scones live not a vegetative life.

Common Cones,

Alabaster.