Pseudodoxia epidemica: or, Enquiries into very many received tenents, and commonly presumed truths. / By Thomas Brown Dr. of Physick. The fifth edition. With marginal observations, and a table alphabetical. Whereunto are now added two discourses the one of urn-burial, or sepulchrall urns, lately found in Norfolk. The other of the Garden of Cyrus, or network plantations of the antients. Both newly written by the same author.

Contributors

Browne, Thomas, Sir, 1605-1682

Publication/Creation

London: Printed for the assigns of Edward Dod, 1669.

Persistent URL

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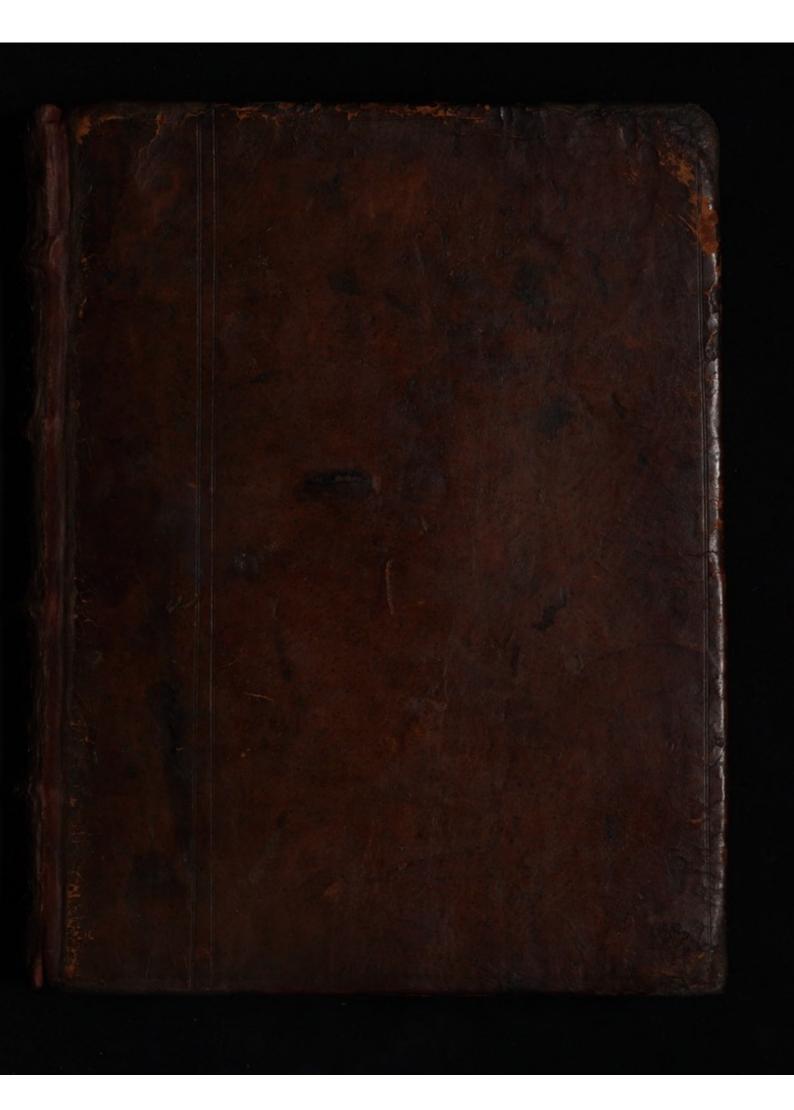
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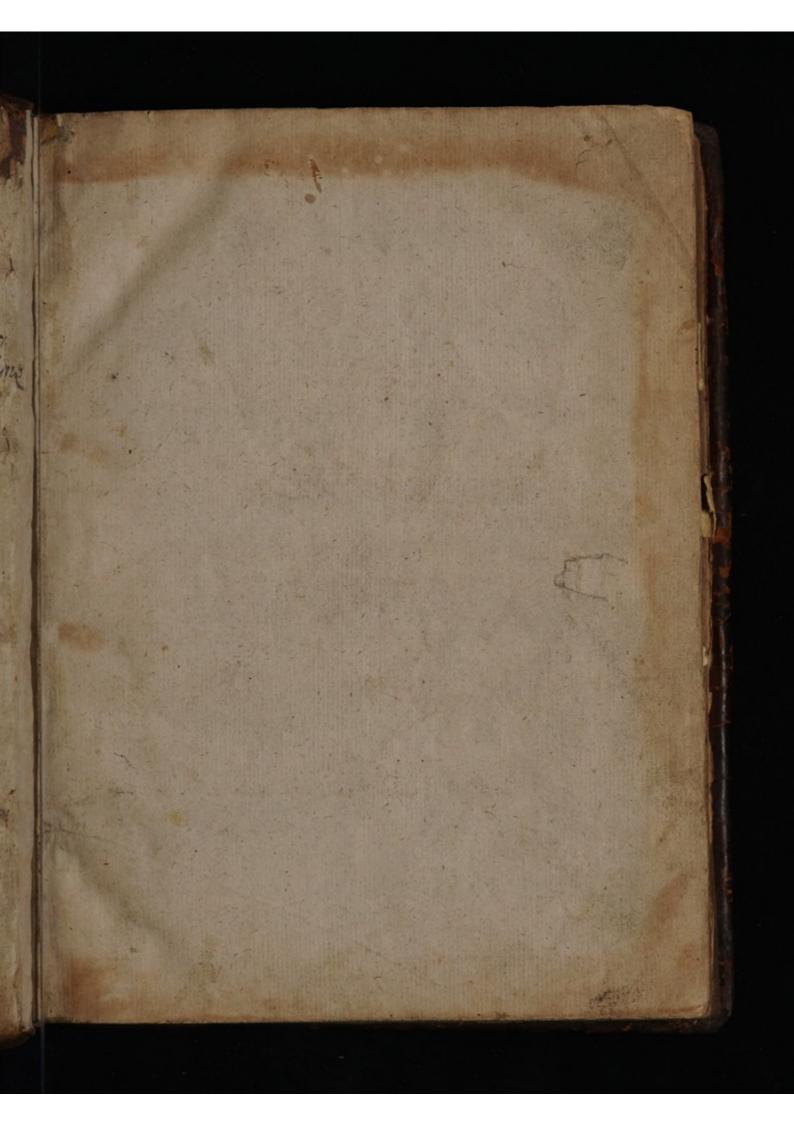


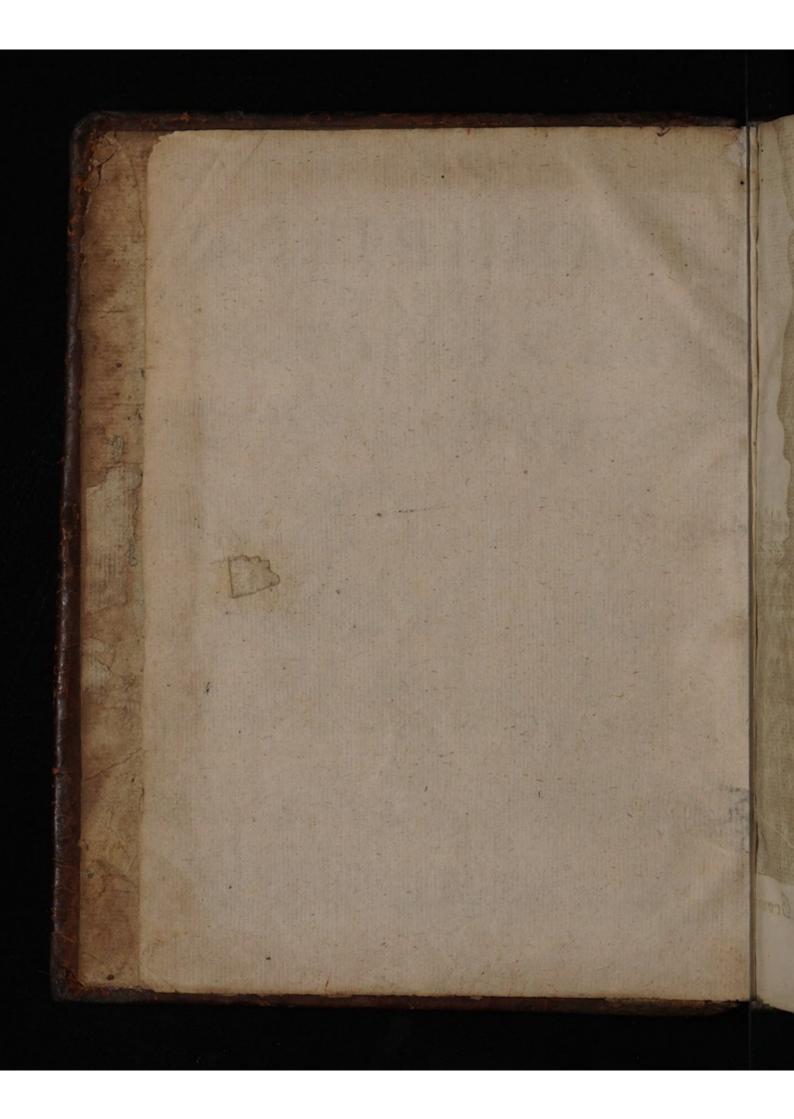






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Pseudodoxia Epidemica:

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ENQUIRIES

Into very many Received Joh: Hoyd A3

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And commonly Prefumed

TRUTHS.

By THOMAS BROWN Dr. of Physick.

The Fifth Edition.

With Marginal Observations, and a Table Alphabetical.

Whereunto are now added Two Discourses

The one of UR N-BURIAL, or Sepulchrall Urns, larely. found in NORFOLK.

The other of the GARDEN of CYRUS, or Network Plantations of the Antients.

Both Newly written by the Same Author.

Ex Libris Colligere que prodiderant Authores longe est perioulos simam. Rerum ipfarum cognitio vera è rebus ipfis est. Jul. Scalig.

LONDON,

Printed for the Assigns of Edward Dod, 1.669

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To the READER.

Ould Truth dispense, we could be content with Plato, that Knowledge were but Remembrance; that Intellectual acquilition were but reminiscential evocation, and new Impressions but the colourishing of old stamps which stood pale in the soul be-

fore. For what is worse, knowledge is made by oblivion, and to purchase a clear and warrantable body of Truth, we must forget and part with much we know. Our tender Enquiries taking up Learning at large, and together with true and affured notions, receiving many, wherein our reviewing judgments do find no satisfaction. And therefore in this Encyclopedie and round of Knowledg, like the great and exemplary wheels of Heaven, we must observe two Circles: that while we are daily carried about, and whirled on by the swing and rapt of the one, we may maintain a natural and proper course, in the flow and fober wheel of the other. And this we shall more readily perform, if we timely furvey our knowledge; impartially fingling out those encroachments, which Junior compliance and popular credulity hath admitted. Whereof at prefent we have endeavoured a long and ferious adviso, proposing not only a large and copious List, but from experience and reason attempting their decisions.

And first we crave exceeding pardon in the audacity of the Attempt; humbly acknowledging a work of such concernment unto truth, and dissipation in it self, did well deserve the conjunction of many heads. And surely more advantageous had it been unto Truth, to have fallen into the endeavours of some cooperating advancers, that might have performed it to the life, and added authority thereto; which the privacie of our condition, and unequal abilities cannot expect. Whereby not withstanding we have not been diverted; nor have our solitary actempts been so discouraged, as to despair the favorable look of

Learning upon our fingle and uufupported endeavours.

Not

To the Reader.

Nor have we let fall our Pen, upon discouragement of Contradiction, Unbelief and Difficulty of diffwalion from radicated beliefs, and points of high prescription, although we are very fensible, how hardly teaching years do learn, what roots old age contracteth unto errors, and how fuch as are but acorns in our younger brows, grow Oaks in our elder heads, and become inflexible unto the powerfullest arm of reason. Although we have also beheld, what cold requitals others have found in their several redemptions of Truth; and how their ingenious Enquiries have been dismissed with censure, and obloquie of

imgularities.

Some confideration we hope from the course of our Profession, which though it leaderh us into many truths that pass undiscerned by others, yet doth it disturb their Communications, and much interrupt the office of our Pens in their well intended Transmissions. And therefore furely in this work attempts will exceed performances; it being composed by fnatches of time, as medical vacations, and the fruitless importunity of uroscopie would permit us. And therefore also, perhaps it hath, not found that regular and constant stile, those infallible experiments, and those assured determinations, which the subject fometime requireth, and might be expected from others, whose quiet doors and unmolested hours afford no such distractions. Although whoever shall indifferently perpend the exceeding difficulty, which either the obscurity of the subject, or unavoidable paradoxologie must often put upon the Attemptor, will eafily discern, a work of this nature is not to be performed upon one legg; and should smel of oyl, if duly and deservedly handled.

Our first intentions confidering the common interest of Truth resolved to propose it unto the Latine republique and equal Judges of Europe, but owing in the first place this service unto our Countrey, and therein especially unto its ingenious Gentry, we have declared our felf in a language best conceived. Although I confess the quality of the subject will sometimes carry us into expressions beyond mere English apprehensions. findeed, if elegancie still proceedeth, and English Pens maintain that stream, we have of late observed to flow from many; we thall within few years be fain to learn Latine to understand

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Inspection of Urine.

To the Reader.

English, and a work will prove of equal facility in either. Nor have we addressed our Pen or Stile unto the people. (whom Books do not redrefs, and are this way incapable of reduction) but unto the knowing and leading part of Learning, As well undestanding (at least probably hoping) except they be watered from higher regions, and fructifying meteors of Knowledge, these weeds must lose their alimental sap, and wither of themselves. Whose conserving influence, could our endeavours prevent; we should trust the rest unto the

fythe of Time, and hopefull dominion of Truth.

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We hope it will not be unconfidered, that we find no open a, or constant manuauction in this Labyrinth; but are oftt des fain to wander in the America and untravelled parts of Touth. For though not many years past, Dr. Primrofe hath r ade a learned and full Discourse of vulgar Errors in Physick, et have we discussed but two or three thereof. Scipio Mecarii ath alfoleft an excellent tract in Italian, concerning popular errors; but confining himself only unto those in Phytick, he hath little conduced unto the generality of our doctrine; Laurentius Ionbertus by the same Title led our expectation into thoughts of great relief; whereby notwithstanding we reaped no advantage; it answering scarce at all the promise of the inscription. Nor perhaps (if it were yet extant) should we find med # # -any farther Assistance from that ancient piece of Andreas, pre- Albanas, tending the fame Title. And therefore we are often constrained to stand alone against the strength of opinion, and to meet the Goliah and Giant of Authority, with contemptible pibbles, and feeble arguments, drawn from the ferip and flender flock of our felves. Nor have we indeed scarce named any Author whose name we do not honour; and if detraction could invite us, discretion surely would contain us from any derogatory intention, where highest Pens and friendliest eloquence must fail in commendation.

And therefore also we cannot but hope the equitable considerations, and candour of reasonable minds. We cannot expect the frown of Theologie herein; nor can they which behold the present state of things, and controversie of points so long received in Divinity, condemn our fober Enquiries in the doubtfull appertinencies of Arts, and Receptaries of Philosophy.

Surely

To the Reader.

Surely Philogogers and Critical Discoursers, who look beyond the shell and obvious exteriours of things, will not be angry with our narrower explorations. And we cannot doubt, our Brothers in Physick (whose knowledg in Naturals will lead them into a nearer apprehension of many things delivered) will friendly accept, if not countenance our endeavours. Nor can we conceive it may be unwelcome unto those honoured Worthies, who endeavour the advancement of Learning: as being likely to find a clearer progression, when so many rubs are levelled, and many untruths taken off, which passing as principles with common beliefs, disturb the tranquility of Axioms, which otherwise might be raised. And wise men cannot but know, that arts and learning want this expurgation: and if the course of truth be permitted unto its self; like that of time and uncorrected computations, it cannot escape many errors, which du-

ration still enlargeth.

Lastly, we are not Magisterial in opinions, nor have we Di-Stator-like obtruded our conceptions, but in the humility of Enquiries or disquisitions have only proposed them unto more ocular discerners. And therefore opinions are free, and open it is for any to think or declare the contrary. And we shall fo far encourage contradiction, as to promife no diffurbance, or re-oppose any Pen, that shall Fallaciously or captiously refute us; that shall only lay hold of our lapses, single out Digrefsions, Corollaries, or Ornamental conceptions, to evidence his own in as indifferent truths. And shall only take notice of fuch, whose experimental and judicious knowledge shall solemnly look upon it; not only to deftroy of ours but to citablish of his owne; not to traduce or extenuate, but to explain and dilucidate, to add and ampliate, according to the laudable custom of the Ancients in their sober promotions of Learning. Unto whom notwithstanding, we shall not contentiously rejoyn, or only to justifie our own, but to applaud or confirm his maturer affertions; and shall confer what is in us unto his name and honour; Ready to be swallowed in any worthy enlarger: as having acquired our end, if any way, or under any name we may obtain a work, so much defired, and yet defiderated of Truth. THOMAS BROWN,

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THE

FIRST BOOK:

OR,

GENERAL PART.

CHAP. I.

Of the Causes of Common Errors.

In the

USFOY.

HE First and Father-cause of common Error, is, The ductions common infirmity of Human Nature; of whose deceptible condition, although perhaps there should not need any other eviction, than the frequent Errors we shall our selves commit, even in the express declarement here-of: yet shall we illustrate the same from more infallible constitutions, and persons presumed as far from us in

condition, as time, that is, our first and ingenerated forefathers. From whom as we derive our Being, and the several wounds of constitution; so, may we in some manner excuse our infirmities in the depravity of those parts, whose Traductions were pure in them, and their Originals but once removed from God. Who notwithstanding (if posterity may Matter of take leave to judg of the fact, as they are assured to suffer in the punish-great dispute, ment) were grossy deceived, in their perfection; and so weakly deluded how our first in the clarity of their understanding, that it hath left no small obscurity parents could in ours, How error should gain upon them.

For first, They were deceived by Satan; and that not in an invisible infinuation

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infinuation, but an open and discoverable apparition, that is, in the form of a Serpent; whereby although there were many occasions of fuspition, and fuch as could not easily escape a weaker circumspection, yet did the unwary apprehension of Eve take no advantage thereof. It hath therefore feemed strange unto some, she should be deluded by a Serpent, or subject her reason to a beaft, which God had subjected unto hers. It hath empuzzeled the enquiries of others to apprehend; and enforced them unto strange conceptions, to make out, how without fear or doubt the could discourse with such a creature, or hear a Serpent speak, without suspicion of Imposture. The wits of others have been so bold, as to accuse her simplicity, in receiving his Temptation so coldly; and when fuch specious effects of the Fruit were Promised, as to make them like Gods; not to defire, at least not to wonder he pursued not that benefit himself. And had it been their own case, would perhaps have replied, If the tafte of this Fruit maketh the eaters like Gods, why remainest thou a Beast? If it maketh us but like Gods, we are so already. If thereby our eyes shall be opened hereafter, they are at prefent quick enough, to discover thy deceit; and we defire them no opener, to behold our own shame. If to know good and evil be our advantage, although we have Free-will unto both, we defire to perform but one; We know 'tis good to obey the commandment of God, but evil if we transgress it.

They were deceived by one another, and in the greatest disadvantage of Delusion, that is, the stronger by the weaker: For Eve presented the Fruit, and Adam received it from her. Thus the Serpent was cunning enough, to begin the deceit in the weaker, and the weaker of strength, sufficient to consummate the fraud in the stronger. Ant and fallacy was used unto her; a naked offer proved sufficient unto him: So his superstruction was his Ruine, and the fertility of his sleep, an issue of Death unto him. And although the condition of Sex, and posteriority of Creation fully stronger and inexcusable in the Error of the Woman: Yet was it posed by some very strange and inexcusable in the Man; especially, if as some affirm, he to have been was the wisest of all men since; or is, as others have conceived, he was man that ever not ignorant of the Fall of the Angels, and had thereby Example and

s, punishment to deterr him.

Adam and They were deceived from themselves, and their own apprehensions; Eve how they for Eve either mistook, or traduced the commandment of God. Of evefell.

Tree of the Garden thou mayest freely eat, but of the Tree of knowledg of
good and evil thou shalt n.teat: for in the day thou eatest thereof, thou shalt
surely die. Now Eve, upon the question of the Serpent, returned the
Precept in different terms: You shall not eat of it, neither shall you touch
it, lest perhaps you die. In which delivery, there were no less than two
mistakes, or rather additional mendacities; for the Commandment forbad not the touch of the Fruit, and positively said, Te shall surely die: but
she extenuating, replied, ne forte moriamini, lest perhaps ye die. For so in

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vulgar translation it runneth, and so it is expressed in the Thargum or Paraphrase of Jonathan. And therefore although it be said, and that very truely, that the Devil was a lyer from the beginning, yet was the Woman herein the first express beginner : and fallified twice, before the reply of Satan. And therefore allo, to speak strictly, the fin of the Fruit was not the first Offence: They first transgressed the Rule of their own Reason ;

and after the Commandment of God.

They were deceived through the Conduct of their Senses, and by Temptations from the Object it felf; whereby although their intellectuals had not failed in the Theory of truth, yet did the infervient and brutal Faculties controll the fuggestion of Reason: Pleasure and Profit already overswaying the instructions of Honesty, and Sensuality perturbing the reasonable commands of Vertue. For so it is delivered in the Text? That when the Woman faw, that the Tree was good for food, and that it was pleasant unto the eye, and a Tree to be desired to make one wife, she took of the fruit thereof and did eat. Now hereby it appeareth, that Eve, before the Fall, was by the same and beaten way of allurements inveigled, whereby her postericy bath been deluded ever since; that is, those three delivered by St. John. The luft of the flesh the luft of the eye, and the pride of life: Where indeed they seemed as weakly to fail, as their debilitated posterity, ever after. Whereof notwithstanding, some in their imperfection, have refisted more powerful temptations; and in many moralities condemned the facility of their feductions.

Again, they might, for ought we know, be still deceived in the unbelief of their Mortality, even after they had eat of the Fruit. For, Eve whence (proobserving no immediate execution of the Curse, she delivered the Fruit unto Adam: who, after the tafte thereof, perceiving himself still to live, might yet remain in doubt, whether he had incurred Death; which perhaps he did not indubitably believe, until he was after convicted in thous fible example of Abel. For he that would not believe the Menace of God at first, it may be doubted whether, before an ocular example, he believed the Curfe at last. And therefore they are not without all reason, who have disputed the Fact of Cain: that is, although he purposed to do mischief, whether he intended to kill his Brother; or designed that, ed to kill abel whereof he had not beheld an example in his own kind. There might be

iquity is greater than can be for given me.

Some nicities I confess there are which extenuate, but many more that aggravate this Delufion; which exceeding the bounds of this Difcourfe, and perhaps our Satisfaction, we shall at present pass over. And therefore whether the Sin of our First Parents were the greatest of any fince; whether the transgression of Eveleducing, did not exceed that of dam seduced; or whether the resistibility of His Reason, did not equivalence

fomewhat in it, that he would not have done, or defired undone, when

he brake forth as desperately, as before he had done uncivilly, My in-

the

Eve's Fall.

the facility of Her Seduction; we shall refer it to the Schoolman; Whether there was not in Eve as great injustice in deceiving her husband, as imprudence in being deceived her felf; especially, if foretasting the Fruit, her eyes were opened before his, and the knew the effect of it, before he talted of it; we leave it unto the Moralift. Whether the whole relation be

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not Allegorical, that is, whether the temptation of the Man by the Woman, be not the feduction of the rational and higher parts by the inferiour mudist's Alle-dift.

and feminine faculties: or whether the Tree in the midft of the Garden. were not that part in the Center of the body, in which was afterward the appointment of Circumcifion in Males, we leave it unto the Thalmu-Whether there were any Policy in the Devil to tempt them before gories upon the Conjunction, or whether the Islue before tentation, might in justice the History of have suffered with those after, we leave it unto the Lawyer. Whether and Adam foreknew the advent of Christ, or the reparation of his Error by his Saviour; how the execution of the Curfe should have been ordered, if, after Eve had eaten, Adam had yet refused, Whether if they had tasted the Tree of life, before that of Good and Evil, they had yet suffered the curse of Mortality; or whether the efficacy of the one had not over-powred the penalty of the other, we leave it unto GOD. For he alone can truly determine these, and all things else; Who as he hath proposed the World unto our disputation, so hath he reserved many things unto his own resolution, whose determination we cannot hope from flesh, but must with reverence suspend unto that great Day, whose justice shall either condemn our curiofities, or resolve our disquisitions.

Lastly, Man was not only deceivable in his Integrity, but the Angels of light in all their Clarity. He that faid, He would be like the highest did Erre, if in some way he conceived himself so already: but in attempting so high an effect from himself, he mis-understood the nature of God, and held a false apprehension of his own; whereby vainly attempting not only infolencies, but impossibilities, he deceived himself as low as Hell. In brief, there is nothing infallible but GOD, who cannot possibly Erre. For things are really true as they correspond unto His conception; and have fo much verity as they hold of conformity unto that Intellect, in whose Idea they had their first determinations. And therefore being the Rule, he cannot be Irregular; nor, being Truth it felf, conceaveably ad-

feduced ; or whether the refinibility of His Realon, and not equipmies ce

mit the impossible fociety of Error. foremented dome uno vally, and p in-

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CHAP. II.

A further Illustration of the same.

D Eing thus deluded before the Fall, it is no wonder if their conceptions were deceitful, and could scarce speak without an Error after. For what is very remarkable (and no man that I know hath yet observed) in the relations of Scripture before the Flood, there is but one speech delivered by Man, wherein there is not an erronious conception; and, firstly examined, most hainously injurious unto truth. The pen of Mofes is brief in the account before the Flood, and the speeches recorded are but fix. The first is that of Adam, when upon the expostulation of God, he replied; I heard thy voice in the Garden, and because I was naked I hid my felf. In which reply, there was included a very gross Mistake, and, if with pertinacity maintained, a high and capital Error. For thinking by this retirement to obscure himself from God, he infringed the omnisciency and effential Ubiquity of his Maker. Who as he created all things, fo is he beyond and in them all, not only in power, as under his subjection, or in his prefence, as being in his cognition; but in his very Essence, as being the foul of their causalities, and the effential cause of their existencies. Certainly, his posterity at this distance and after so perpetuated an impairment, cannot but condemn the poverty of his conception, that thought to obscure himself from his Creator in the shade of the Garden, who had beheld him before in the darkness of his Chaos, and the great obscurity of Nothing; that thought to flie from God, which could not flie himfelf; or imagined that one tree should conceal his nakedness from Gods eye, as another had revealed it unto his own. Those tormented Spiritsthat wish the mountains to cover them, have fallen upon desires of minor absurdity, and chosen ways of less improbable concealment. Though this be also as ridiculous unto reason, as fruitless unto their desires; for he that laid the foundations of the Earth, cannot be excluded the secrecy of the Mountains; nor can there any thing escape the perspicacity of those eyes which were before light, and in whose opticks there is no opacity. This is the consolation of all good men, unto whom his Ubiquity affordeth continual comfort and fecurity: And this is the affliction of Hell, unto whom it affordeth despair, & remediless calamity. For those reftless Spirits that flie the face of the Almighty, being deprived the fruition of his eye, would also avoid the extent of his hand; which being impossible, their inferings are desperate, and their afflictions without evalion; untill they can get out of Trismegistus his Circle, that is, to extend their wings above the Universe, and pitch beyond Ubiquity.

The Second is that speech of Adam unto God; The woman whom thou gavest me to be with me, she gave me of the Tree, and I did eat. This indeed

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was an unsatisfactory reply, and therein was involved a very impious Error, as implying God the Author of sin, and accusing his Maker of his transgression. As if he had said, If thou hadst not given me a woman, I had not been deceived: Thou promiseds to make her a help, but she hath proved destruction unto me: Had I remained alone, I had not sinned; but thou gavest me a Consort, and so I became seduced. This was a bold and open accusation of God, making the sountain of good, the contriver of evil, and the forbidder of the crime an abettor of the fact prohibited. Surely, his mercy was great, that did not revenge the impeachment of his justice; And his goodness to be admired that it resuted not his argument in the punishment of his excusation, and only pursued the

first transgression without a penalty of this the second.

The third was that of Eve; The Serpent beguiled me, and I dideat. In which reply, there was not only a very feeble excuse, but an erroneous translating her own offence upon another; Extenuating her sin from that which was an aggravation, that is, to excuse the Fact at all, much more upon the fuggestion of a beast, which was before in the strictest terms prohibited by her God. For although we now do hope the mercies of God, will confider our degenerated integrities unto some minoration of our offences; yet had not the fincerity of our first parents so colourable expectations, unto whom the commandment was but fingle, and their integrities best able to resist the motions of its transgression. And therefore so heinous conceptions have risen hereof, that some have seemed more angry there-with, than God himfelf: Being so exasperated with the offence, as to call in question their falvation, and to dispute the eternal punishment of their Maker. Affuredly with better reason may posterity accuse them than they the Serpent or one another; and the displeasure of the Pelagians must needs be irreconcilable, who peremptorily maintaining they can fulfil the whole Law, will infatisfactorily condemn the nonobservation of one.

The fourth, was that speech of Cain upon the demand of God. where is thy brother? and he said, I know not. In which Negation, beside the open impudence, there was implied a notable Error? for returning a sie unto his Maker, and presuming in this manner to put off the Searcher-of-hearts, he denied the omnisciency of God, whereunto there is nothing concealable. The answer of Satan in the case of 70b, had more of truth, wisdom, and Reverence, this; whence comest thou Satan? and he said, From compassing of the Earth. For though an enemy of God, and haver of all Truth, his wisdom will hardly permit him to salsisse with the

The Devil All-mighty. For well understanding the Omniscience of his nature, he knew not is not so ready to deceive himself, as to falsifie unto him whose cognition to be God is no way deludable. And therefore when in the tentation of Christ he when he played upon the fallacy, and thought to deceive the Author of Truth, tempted him, the Method of this proceeding arose from the uncertainty of his Divi-

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nity; whereof had he remained affured, he had continued filent; nor would his discretion attempt so unsucceedable a temptation. And so again at the last day, when our offences shall be drawn into accompt, the subtiley of that Inquisitor shall not present unto God a bundle of calumnies or confutable accusations, but will discreetly offer up unto his Om-

nisciency, a true and undeniable lift of our transgressions.

The fifth is another reply of Cain upon the denouncement of his curse. My iniquity is greater than can be forgiven: For fo it is expressed in some Translations. The affertion was not only desperate, but the conceit erroneous, overthrowing that glorious Attribute of God, his Mercy, and conceiving the fin of murder unpardonable. Which how great foever, is not above the repentance of man, but far below the mercies of God, and was (as some conceive) expiated in that punishment he suffered temporally for it. There are but two examples of this error in holy Scripture, and they both for Murder, and both as it were of the same person; for Christ was mystically slain in Abel, and therefore Cain had some influence on his death as well as Judas; but the fin had a different effect on Cain; from that it had on Judas; and most that fince have fallen into it. For they like Judas defire death, and not unfrequently pursue it: Cain on the contrary grew afraid thereof, and obtained a securement from it. Affuredly, if his dispair continued, there was punishment enough in life, and Justice sufficient in the mercy of his protection. For the life of the desperate equalls the anxieties of death; who in uncessant inquietudes but act the life of the damned, and anticipate the desolations of Hell. 'Tis indeed a fin in man, but a punishment only in Devils, who offend not God but afflict hemselves, in the appointed despair of his mercies. And as to be without hope is the affliction of the damned, so is it the happiness of the bleffed; who having all their expectations prefent, are not distracted with futurities : So is it also their felicity to have no Faith; for enjoying the beatifical vision, there is nothing unto them inevident; and in the fruition of the object of Faith, they have received the full evacuation of it.

The last speech was that of Lamech, I have flain a man to my wound, and a young man to my hurt: If Cain be avenged leven fold, truly Lamech seventy and seven fold. Now herein there seems to be a very erroneous Illation; from the Indulgence of God unto Cain, concluding an immunity unto himfelf; that is, a regular protection from a fingle example, and an exemption from punishment in a fact that naturally deferved it. The Error of this offender was contrary to that of Cain, whom the Rabbins conceive that Lamech at this time killed. He despaired in Gods Rabins think mercy in the same Fact, where this presumed of it; he by a decollation was the man of all hope annihilated his mercy, this by an immoderancy thereof de-mech, Gen. 4. Aroyed his Justice. Though the fin were less, the Error was as great; 23. For as it is untrue, that his mercy will not for give offenders, or his benig-

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nity co-operate to their conversions, So is it alfo of no less falsity to affirm H.s justice will not exact account of finners, or punish such as continue in their transgressions.

Thus may we perceive, how weakly our Fathers did Erre before the Floud, how continually and upon common discourse they fell upon Errors after; it is therefore no wonder we have been erroneous ever fince. And being now at greatest distance from the beginning of Error, are almost lost in its dissemination, whose waies are boundless, and confess no circumfcription.

CHAP. III,

Of the second cause of Popular Errors; the erroneous disposition of the People.

H Aving thus declared the fallible nature of Man even from his first production, we have beheld the general cause of Error. But as for popular Errors, they are more neerly founded upon an erroneous inclination of the people; as being the most deceptable part of Mankind and ready with open armes to receive the encroachments of Error. Which condition of theirs although deducible from many Grounds, yet shall we evidence it but from a few, and fuch as most neerly and undeniably declare their natures.

How unequal discerners of truth they are, and openly exposed unto Error, will first appear from their unqualified intellectuals, unable to umpire the difficulty of its diffentions. For Error, to speak largely, is a false judgment of things, or, an assent unto falsity. Now whether the object whereunto they deliver up their affent be true or false, they are incompetent judges.

For the affured truth of things is derived from the principles of knowledg, and causes which determine their verities. Whereof their uncultivated understandings, scarce holding any theory, they are but bad discerners of verity; and in the numerous track of Error, but casually do hit the point and unity of truth.

Their understanding is to feeble in the discernment of falsities, and averting the Errors of reason, that it submitteth unto the fallacies of sense, and is unable to rectifie the Error of its sensations. Thus the greater Arguments part of Mankind having but one eye of Senfe and Reason, conceive the of fensitive Earth far bigger than the Sun, the fixed Stars lesser than the Moon, their quality most figures plain, and their spaces from Earth equiditant. For thus their sense upon vulgar informeth them, and herein their reason cannot Rectifie them; and therefore hopelefly continuing in miltakes, they live and die in their abfurdiaffirm

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ties; passing their daies in perverted apprehensions, and conceptions of the World, derogatory unto God, and the wisdom of the Creation.

Again, being so illiterate in the point of intellect, and their sense so incorrected, they are farther indisposed ever to attain unto truth; as commonly proceeding in those wayes, which have most reference unto sense.

and wherein therr lyeth most notable and popular delusion.

For being unable to wield the intellectual arms of reason, they are fain to betake themselves unto wasters, and the blunter weapons of truth; affecting the gross and sensible waies of doctrine, and such as will not confift with strict and subtile Reason. Thus unto them a piece of Rhetorick is a sufficient argument of Logick; an Apologue of E/op, beyond a Syllogysm in Barhara; parables than propositions, and proverbs more powerful than demonstrations. And therefore are they led rather by Example, than Precept; receiving perswasions from visible inducements, before electual instructions. And therefore also they judge of human actions by the event; for being uncapable of operable circumstances, or rightly to judge the prudentiality of affairs, they only gaze upon the visible fuccess, and therefore condemn or cry up the whole progression. And to from this ground in the Lecture of holy Scripture, their apprehensions are commonly confined unto the literal sense of the Text; from whence have enfued the gross and duller fort of Herefies. For not attaining the deuteroscopy, and second intention of the words, they are fain to omit the Superconsequencies, Coherencies, Figures, or Tropologies; and are not sometime perswaded by fire beyond their literalities. And therefore also things invisible, but unto intellectual discernments, to humour the groinels of their comprehensions, have been degraded from their proper forms, and God himfelf dishonoured into manual expressions. And so likewise being unprovided, or unsufficient for higher speculations, they will alwaies betake themselves unto sensible representations, and can hardly be restrained the dulness of Idolatry. A fin or folly not only derogatory unto God but men; overthrowing their Reason, as well as his Divinity. In brief, a reciprocation, or rather, an invertion of the Creation, making God one way, as he made us another; that is, after our Image, as he made us after His own.

Moreover, their understanding thus weak in it self, and perverted by sensible delusions, is yet farther impaired by the dominion of their appetite; that is, the irrational and brutal part of the soul, which lording it over the soveraign faculty, interrupts the actions of that noble part, and choaks those tender sparks, which Adam hath left them, of reason. And therefore they do not only swarm with Errors, but vices depending thereon. Thus they commonly affect no man any surther than he deserts his reason, or complies with their aberrancies. Hence they imbrace not vertue for it self, but its reward; and the argument from Pleasure or Utility is far more powerful, than that from vertuous Honesty: which

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Mahomet and his contrivers well understood, when he set out the felicity of his Heaven, by the contentments of flefh, and the delights of fense, flightly passing over the accomplishment of the Soul, and the beatitude of that part which Earth and visibilities too weakly affect. But the wisdom of our Saviour, and the simplicity of his truth proceeded another way; defying the popular provisions of happiness from sensible expectations; placing his felicity in things removed from fense, and the intellectual enjoyment of God. And therefore the doctrine of the one was never affraid of Universities, or endeavoured the banishment of learning, like the other. And though Galen doth sometimes nibble at Moses, and, beside the *Apostate Christian, some Heathens have questioned his Philofophical part, or treaty of the Creation: Yet is there furely no reafonable Pagan, that will not admire the rational and well grounded precepts of Christ; whose life, as it was conformable unto his Doctrine, fo was that unto the highest rules of Reason; and must therefore flourish in the advancement of learning, and the perfection of parts best able to comprehend it.

Again, Their individual imperfections being great, they are moreover enlarged by their aggregation; and being erroneous in their fingle numbers, once hudled together, they will be Error it felf. For being a confusion of knaves and fools, and a farraginous concurrence of all conditions, tempers, fexes, and ages; it is but natural if their determinations be monstrous, and many waies inconfistent with Truth. And therefore wife men have alwaies applauded their own judgement, in the contradiction of that of the People; and their foberest adversaries, have ever afforded them the stile of fools and mad men; and to speak impartially, their

vestes.

Julian.

Non faui effe actions have made good these Epithets. Had Orestes been Judg, he would hominis, non not have acquitted that Lyftrian rabble of madness, who, upon a visible miracle, falling into so high a conceit of Paul and Barnabas, that they termed the one Jupiter, the other Mercurius; that they brought Oxen and Garlands, and were hardly restrained from sacrificing unto them; did notwithstanding suddenly after fall upon Paul, and having stoned him drew him for dead out of the City. It might have hazzarded the fides of Democritus, had he been present at that tumult of Demetrius; when the people flocking together in great numbers, some crying one thing, and fome another, and the affembly was confused, and the most part knew not wherefore they were come together; notwithstanding, all with one voice for the space of two hours cried out, Great is Diana of the Ephesians. It had overcome the patience of Job, as it did the meekness of Moses, and would furely have mastered any, but the longanimity, and lasting sufferance of God; had they beheld the Mutinie in the wildernels, when, after ten great Miracles in Egypt, and some in the same place, they melted down their stoln ear-rings into a Calf, and mon-Broully cryed out; Thefe are thy Gods, O Ifrael, that brought thee out of

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the land of Egypt. It much accuse the impatience of Peter, who could not endure the staves of the multitude, and is the greatest example of lenity in our Saviour, when he desired of God forgiveness unto those, who having one day brought him into the City in triumph, did presently after, act all dishonour upon him, and nothing could be heard but, Crucifige, in their Courts. Certainly he that considereth these things in Gods peculiar people, will easily discern how little of truth there is in the waies of the Multitude; and though sometimes they are flattered with that Aphorism, will hardly believe, The voice of the people to be the voice of God.

Laftly, being thus divided from truth in themselves, they are yet farther removed by advenient deception. For true it is (and I hope I shall not offend their vulgarities,) if I say, they are daily mocked into Error by fubtler devifors, and have been expresly deluded by all professions and ages. Thus the Priefts of Elder time, have pur upon them many incredible conceits, not only deluding their apprehensions with Ariolation, South-faying and fuch oblique Idolatries, but winning their credulities unto the literal and down-right adorement of Cats, Lizzards, and Beetles. And thus also in some Christian Churches, wherein is presumed an irreprovable truth, if all be true that is suspected, or half what is related; there have not wanted many strange deceptions, and some thereof are still confessed by the name of Pious Frauds. Thus Thendas an Impostor was able to lead away Four thousand into the Wilderness, and the delusions of Mahomet almost the fourth part of Mankind. Thus all Heresies, how gross foever, have found a welcome with the people. For thus, many of the Jews were wrought into belief that Herod was the Meffias; and David George of Leyden and Arden, were not without a party amongst the people, who maintained the fame opinion of themselves almost in our daies.

Physitians (many at least that make profession thereof) beside divers less discoverable waies of fraud, have made them believe, there is the book of fate, or the power of Aarons brest-plate, in Urins. And there—The Aufore hereunto they have recourse, as unto the Oracle of life, the great thor's Censure determinator of Virginity, Conception, Fertility, and the Inscrutable in-upon Judgs firmities of the whole Body. For as though there were a seminality in Urine, or that, like the Seed, it carried with it the Idea of every part, they foolishly conceive, we visibly behold therein the Anatomy of every particle, and can thereby indigitate their Diseases: And running into any demands, expect from us a sudden resolution in things, whereon the Devil of Delphos would demurr; and we know hath taken respite of some dayes to answer easier questions.

dayes to answer easier questions.

Saltimbalcoes, Quacksalvers, and Charlatans, deceive them in lower de-Venice and Pasgrees. Were Esopalive, the Piazza and Pont-Neuf could not but speak Mountebanks their fallacies; mean while there are too many, whose cries cannot con-play their ceal pranks.

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ceal their mischief. For their Impostures are full of cruelty, and worse than any other; deluding not only unto pecuniary defraudations, but the irreparable deceit of death.

Astrologers, which pretend to be of Cabala with the Starrs (fuch I mean as abuse that worthy Enquiry) have not been wanting in their deceptions; who having won their belief unto principles whereof they make great doubt themselves, have made them believe that arbitrary events below, have necessary causes, above; whereupon their credulities affent unto any Prognosticks; and daily swallow the Predictions ofmen, which, confidering the independency of their causes, and contingency in their Events, are only in the prescience of God.

Fortune-tellers, Juglers, Geomancers, and the like incantatory Impostors, though commonly men of Inferiour rank, and from whom without Illumination they can expect no more than from themselves, do daily and professedly delude them. Unto whom (what is deplorable in Men and Christians) too many applying themselves; betwixt jest and earneft, betray the cause of Truth, and sensibly make up the legionary body of Error.

Statists and Politicians, unto whom Ragione di Stato, is the first Confiderable, as though it were their bufiness to deceive the people, as a Maxim, do hold, that truth is to be concealed from them; unto whom although they reveal the visible design, yet do they commonly conceal the capital intention. And therefore have they ever been the instruments of great delignes, yet feldom understood the true intention of any; accomplishing the drifts of wifer heads, as inanimate and ignorant Agents, the general delign of the World; who though in some Latitude of fense, and in a natural cognition perform their proper actions, yet do they unknowingly concurr unto higher ends, and blindly advance the great intention of Nature. Now how far they may be kept in ignorance a great example The people there is in the people of Rome; who never knew the true and proper of Rome, why name of their own City. For beside that common appellation received never suffered by the Citizens, it had a proper and secret name concealed from them: to know the Cujus alterum nomen disceressecretis Ceremoniarum nefas habetur, saith Pli-right name of city lost the memo thereof being discovered unto their enemies, their nie; lest the name thereof being discovered unto their enemies, their Penates and Patrenal God might be called forth by charms and incanta-

> will not remove at common appellations, but at the proper names of things whereunto they are Protectors. Thus having been deceived by themselves, and continually deluded by others, they must needs be stuffed with Errors, and even over-run with these inseriour fassities; whereunto whosoever shall resign their reasons, either from the Root of deceit in themselves, or inability to resist such trivial ingannations from others, although their condition and fortunes may place them many Spheres above the multitude; yet are they ftill with-

in the line of Vulgarity, and Democratical enemies of truth.

tions. For according unto the tradition of Magitians, the tutelary Spirit

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Of the nearer and more Immediate Causes of popular Errors, both in the wifer and common fort, Misapprehension, Fallacy, or false deduction, Credulity, Supinity, adherence unto Antiquity, Tradition and Authority.

THe first is a mistake, or a misconception of things, either in their first apprehensions, or secondary relations. So Eve mistook the Commandment, either from the immediate injunction of God, or from the secondary narration of her Husband. So might the Disciples mistake our Saviour, in his answer unto Peter concerning the death of John, as is delivered, John 21. Peter seeing John, said unto Jesus, Lord, and what (ball this man do? Jesus saith, If I will, that he tarry till I come, what is that unto thee? Then went this saying abroad among the brethren, that that Disciple should not die. Thus began the conceit and opinion of the Centames : that is, in the mistake of the first beholders, as is declared by Ser- of Centagres vius; when fome young Thessalians on horseback were beheld afar off, whence occawhile their horses watered, that is, while their heads, were depressed, they sioned. were conceived by the first Spectators, to be but one animal; and answerable hereunto have their pictures been drawn ever fince.

And, as simple miltakes commonly beget fallacies, so men rest not in false apprehensions, without absurd and inconsequent deductions; form fallacious foundations, and misapprehended mediums, erecting conclusions no way inferrible from their premifes. Now the fallacies whereby men deceive others, and are deceived themselves, the Ancients have divided into Verbal and Real. Of the Verbal, and fuch as conclude from mistakes of the Word; although there be no less than fix, yet are there but two thereof worthy our notation, and unto which the rest may be referred; that is the fallacy of Equivocation and Amphibologie; which conclude from the ambiguity of some one word, or the ambiguous Syntaxis of many put tion and Am-

together. From this fallacy arose that calamitous Error of the Jews, phibologie, misapprehending the Prophesies of their Messias, and expounding them how they disalwaies unto literal and temporal expectations. By this way many Fr. alwaies unto literal and temporal expectations. By this way many Errors crept in and perverted the Doctrine of Pythagoras, whilst men receiv- Pythagoras his ed his Precepts in a different fense from his intention; converting Meta- Allegorical phors into proprieties, and receiving as literal expressions, obscure and precepts moinvolved truths. Thus when he enjoy ned his Disciples, an abstinence from ralized. Beans, many conceived they were with feverity debarred the use of that pulse; which notwithstanding could not be his meaning; for as Aristoxe-

nus, who wrote his life, averreth, he delighted much in that kind of food himself. But herein, as Plutarch observeth, he had no other intention,

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than to dissuade men from Magistracy, or undertaking the publick offices

may Seidos of state; for by beans was the Magistrate elected in some parts of Greece;

nuanav and- and, after his daies, we read in Thucydides, of the Councel of the bean in

xiises 2xeous Athens. The same word also in Greek doth signific a Testicle, and hath

been thought by some an injunction only of Continency, as Aul. Gellius

been thought by some an injunction only of Continency, as Aul. Gellius hath expounded, and as Empedocles may also be interpreted: that is, Testionlis miseri dextras subducite; and might be the original intention of Pythagoras; as having a notable hint hereof in Beans, from the natural fignature of the venereal organs of both Sexes. Again, his injunction is, not to harbour Swallows in our Houses: Whose advice notwithstanding we do not contemn, who daily admit and cherish them: For herein a caution is only implied, not to entertain ungrateful and thankless persons, which like the Swallow are no way commodious unto us; but having made use of our habitations, and served their own turns, forfake us. So he commands to deface the Print of a Cauldron in the ashes, Which strictly to observe were condemnable superafter it hath boiled. fition: But hereby he covertly advifeth us not to perfevere in anger; but after our choler hath boiled, to retain no impression thereof. In the like fenfe are to be received, when he advifeth his Disciples to give the right hand but to few, to put no viands in a Chamber-pot, not to pass over a Balance, not to rake up fire with a Sword, or pifs against the Sun. Which anigmatical deliveries comprehend useful verities, but being mistaken by literal Expositors at the first, they have been mif-understood by most since, and may be occasion of Error to Verbal capacities for ever.

This fallacy in the first delusion Satan put upon Eve, and his whole tentation might be the same continued; so when he said, Te shall not die, that was, in his equivocation, ye shall not incurr a present death, or a destruction immediately ensuing your transgression. Tour eyes shall be opened; that is, not to the enlargement of your knowledg, but discovery of your shame and proper consustion; Tou shall know good and evil; that is, you shall have knowledge of good by its privation, but cognisance of evil by sense and visible experience. And the same sallacy or way of deceit, so well succeeding in Paradise, he continued in his Oracles through all the World. Which had not men more warily understood, they might have performed many acts inconsistent with his intention. Brutus might have made haste with Tarquine to have kissed his own Mother. The Athenians might have built them woodden Walls, or doubled the Altar at Del-

phos.

The circle of this fallacy is very large; and herein may be comprised all Ironical mistakes, for intended expressions receiving inverted significations; all deductions from Metaphors, Parables, Allegories, unto real and rigid interpretations. Whereby have risen not only popular Errors in Philosophy, but vulgar and sensies Heresies in Divinity; as will be evident unto any that shall examine their soundations, as they stand rela-

De haresibusted by Epiphanius, Austin, or Prateolus.

Other

Other waies there are of deceit; which consist not in salse apprehension of Words, that is, Verbal expressions or sentential significations,
but fraudulent deductions, or inconsequent illations, from a salse conception of things. Of these extradictionary and real sallacies, Aristotle and
Logicians make in number six, but we observe that men are most commonly deceived by sour thereof: those are, Petitio principii, A dicto secundum
quid ad dictum simpliciter, A non causa pro causa; And, sallacia con-

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The first is, Petitio principii. Which fallacie is committed, when a question is made a medium, or we assume a medium as granted, whereof we remain as unfatisfied as of the question. Briefly, where that is affued as a Principle to prove another thing, which is not conceded as true it felf. By this fallacy was Eve deceived, when the took for granted, a false affertion of the Devil; Ye shall not surely die; for God doth know that in the day ye shall eat thereof, your eyes shall be opened, and you shall be as Which was but a bare affirmation of Satan, without proof or probable inducement, contrary unto the command of God, and former belief of her felf. And this was the Logick of the fews when they accused our Sav our unto Pilate; who demanding a reasonable impeachment, or the allegation of some crime worthy of Condemnation; they only replied, If he had not been worthy of Death, we would not have brought Him before thee. Wherein there was neither accusation of the person, nor satisfaction of the Judg; who well understood, a bare accusation was no presumption of guilt, and the clamours of the people no accusation at all. The fame Fallacie is sometime used in the dispute, between Job and his friends; they often taking that for granted which afterward he disproveth.

The second is, A dicto secundum quid, ad dictum simpliciter, when from that which is but true in a qualified fense, an inconditional and absolute verity is inferred; transferring the special consideration of things unto their general acceptions, or concluding from their strict acception, unto that without all limitation. This fallacy men commit when they argue from a particular to a general; as when we conclude the vices or qualities of a few, upon a whole Nation. Or from a part unto the whole. Thus the Devil argues with our Saviour : and by this, he would perswade Him he might be secure, if he cast himself from the Pinnacle: For, said he, it is written, He shall give his Angels charge concerning thee, and in their hands they shall bear thee up, lest at any time thou dash thy foot against a stone. But this illation was fallacious, leaving out part of the Text, He shall keep thee in all thy waies; that is, in the waies of righteousness, and not of rash attempts: so he urged a part for the whole, and inferred more in the conclusion, than was contained in the premises. By the fame fallacie we proceed, when we conclude from the fign unto the thing fignified. By this incroachment, Idolatry first crept in, men converting the symbolical use of Idols into their proper Worship, and receiving the

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representation of things as the substance and thing it self. So the Statue of Belus at first erected in his memory, was in after-times adored as a Di-The Origi- vinity. And so also in the Sacrament of the Eucharist, the Bread and rates Idela- Wine which were but the signals or visible signs, were made the things fignified, and worshipped as the Body of Christ. And hereby generally men are deceived that take things spoken in some Latitude without any at all. Hereby the Jews were deceived concerning the commandment of the Sabbath, accusing our Saviour for healing the fick, and his Disciples for plucking the ears of Corn upon that day. And by this deplorable mistake they were deceived unto destruction, upon the assault of Pompey the great, made upon that day; by whose supertitious observation they The Alco. could not defend themselves, or perform any labour whatever.

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The third is, A non causa pro causa, when that is pretended for a cause neither Wine which is not, or not in that fense which is inferred. Upon this consequence nor Universithe law of Mahomet forbids the use of Wine; and his Successors abolished Universities. By this also many Christians have condemned literature, misur derstanding the counsel of Saint Paul, who adviseth no further than to beware of Philosophy. On this Foundation were built the conclusions of Southsayers in their Augurial, and Tripudiary divinations; collecting presages from voice or food of Birds, and conjoyning Events unto cause of no connection. Hereupon also are grounded the gross mistakes, in the cure of many diseases; not only from the last medicine, and sympathetical Receipts, but Amulets, Charms, and all incantatory applications; deriving effects not only from inconcurring causes, but

things devoid of all efficiency whatever. The fourth is, the Fallacie of the Confequent; which if frictly taken, may be a fallacious illation in reference unto antecedencie, or confequencie; as to conclude from the position of the antecedent to the position of the consequent, or from the remotion of the consequent to the remotion of the antecedent. This is usually committed, when in connexed Propositions the Terms adhere contingently. This is frequent in Oratorie illations; and thus the Pharifees, because He conversed with Publicans and Sinners, accused the holiness of Christ, But if this Fallacy be largely taken, it is committed in any vicious illation, offending the rules of good consequence; and so it may be very large, and compre-hend all false illations against the settled Laws of Logick: But the most usual inconsequencies are from particulars, from negatives, and from affirmative conclusions in the second figure, wherein indeed offences are most frequent, and their discoveries not difficult.

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CHAP.

CHAP. V.

Of Credulity and Supinity.

Third cause of common Errors is the Credulity of men, that is, an easie assent to what is obtruded, or a believing at first ear, what is delivered by others. This is a weakness in the understanding, without examination affenting unto things, which from their Natures and Caufes do carry no perswasion; whereby men often swallow falsities for truths, dubiolities for certainties, fealibilities for possibilities, and things impossible as possibilities themselves. Which, though the weakness of the Intellect, and most discoverable in vulgar heads; yet hath it sometime fallen upon wifer brains, and great advancers of Truth. Thus many wife Athenians so far forgot their Philosophy, and the nature of human production, that they descended unto belief, that the original of their Nation was from the Earth, and had no other beginning than the seminalitie and womb of their great Mother. Thus it is not without wonder, how those learned Arabicks to tamely delivered up their belief unto the absurdities of the Alcoran. How the noble Geber, Avicenna, and Almanzor, should rest satisfied in the nature and causes of Earthquakes, delivered from the doctrine of their Prophet; that is, from the motion of a great Bull, upon whose horns all the earth is poised. How their faiths could decline follow, as to concede their generations in Heaven, to be made by the smell of a Citron, or that the felicity of their Paradife should confift in a Jubile of copulation, that is, a coition of one act prolonged unto fifty years. Thus is it almost beyond wonder, how the belief of reafonable creatures, should ever submit unto Idolatry: And the credulity of thole men scarce credible (without presumption of a second Fall) who could believe a Deity in the work of their own hands. For although in that ancient and diffused adoration of Idols, unto the Priests and subtiler heads, the worship perhaps might be symbolical, and as those Images some way related unto their Deities; yet was the Idolatry direct and down-right in the people; whose credulity is illimitable; who may be made believe that any thing is God; and may be made believe, there is no God at all.

And as Credulity is the cause of Error, so Incredulity oftentimes of not enjoying truth; and that not only an obstinate incredulity, whereby we will not acknowledg affent unto what is reasonably inferred, but any Academical refervation in matters of easie truth or rather sceptical & irrational infidelity against the evidence of reason and sense. For these are con-scepticism, ceptions befalling wife men, as abfurd, as the apprehensions of fools, and justly censuthe credulity of the people which promiscuously swallow any thing, red. For this is not only derogatory unto the wisdom of God, who hath pro-

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posed the World unto our knowledg, and thereby the notion of Himself; but also detractory unto the intellect, and sense of man expressedly disposed for that inquisition. And therefore, hoc tantum scio, quod nihil scio, is not to be received in a absolute sense, but is comparatively expressed unto the number of things whereof our knowledg is ignorant. Nor will it acquit the insatisfaction of those which quarrel with all things, or dispute of matters, concerning whose verities we have conviction from reason, or decision from the inerrable and requisite conditions of sense. And therefore if any alfirm, the earth doth move, and will not believe with us, it standeth still; because he hath probable reasons for it, and I no insallable sense, nor reason against it, I will not quarrel with his affertion. But is, like Zeno, he shall walk about, and yet deny there is any motion in Nature, surely that man was constituted for Anticera and were a sit companion for those, who having a conceit they are dead, cannot be convicted into the society of the living.

The fourth is a Supinity, or neglect of Enquiry, even of matters whereof we doubt; rather believing, than going to fee; or doubting with eafe
and grais, than believing with difficulty or purchase. Whereby, either
from a temperamental inactivity, we are unready to put in execution the
suggestions or dictates of reason; or by a content and acquiescence in
every species of truth, we embrace the shadow thereos, or so much as
may palliate its just and substantial acquirements. Had our fore-Fathers
sat down in these resolutions, or had their curiosities been sedentary,
who pursued the knowledg of things through all the corners of nature,
the sace of truth had been obscure unto us, whose lustre in some part

their industries have revealed.

Certainly, the sweat of their Labours was not salt unto them, and they took delight in the dust of their endeavours. For, questionless, in Knowledg there is no slender difficulty; and Truth, which wise men tay doth lye in a Well, is not recoverable but by exantlation. It were some extenuation of the Curse, it In sudore values tai were confinable unto corporal exercitations, and there still remained a Paradise, or unthorny place of knowledg. But now our understandings being eclipsed, as well as our tempers infirmed, we must betake our selves to waies of reparation, and depend upon the illumination of our endeavours. For, thus we may in some measure repair our primary ruines, and build our selves Men again. And, though the attempts of some have been precipitous, and their Enquiries so audacious, as to come within command of the slaming swords, and lost themselves in attempts above humanity; yet have the Enquiries of most defected by the way, and tired within the sober circumference of Knowledg.

And this is the reason, why some have transcribed any thing; and although they cannot but doubt thereof, yet neither make Experiment by sense, or Enquiry by reason; but live in doubts of things, whose saction

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faction is in their own power; which is indeed the inexcufable part of our ignorance, and may perhaps fill up the charge of the last day. For, not obeying the dictates of Reason, and neglecting the cries of Truth, we fail not only in the trust of our undertakings, but in the intention of man it felf. Which although more venial in ordinary constitutions, and such as are not framed beyond the capacity of beaten notions, yet will it inexcusably condemn some men, who having received excellent endowments, have yet fat down by the way, and frustrated the intention of their habilities. For certainly, as some men have sinned in the principles of humanity, and must answer, for not being men, so others offend, if they be not more. Magis extra vitia, quam cum virtutibus, would commend those: These, are not excusable without an Excellency. For, great constitutions, and such as are constellated unto knowledg, do nothing till they out-do all; they come short of themselves, if they go not beyond others; and must not sit down under the degree of Worthies. God expects no luftre from the minor Stars; but if the Sun should not illuminate all, it were a fin in Nature. Ultimus bonorum, will not excuse every man, nor is it fufficient for all to hold the common level: Mens names should not only diffinguish them: A man should be something, that men are not, and individual in somewhat beside his proper Nature. Thus while it exceeds not the bounds of reason and modelty, we cannot condemn fingularity. Nos numerus sumus, is the Motto of the multitude, and for that reason are they Fools. For things as they recede from unity, the more they approach to imperfection, and Deformity; for they hold their perfection in their Simplicities, and as they nearest approach unto God.

Now as there are many great Wits to be condemned, who have neglected the increment of Arts, and the fedulous purfuit of knowledg; so are there not a few very much to be pitied, whose industry being not attended with natural parts, they have sweatt to little purpose, and rolled the stone in vain. Which chiefly proceedeth from natural incapacity, and genial ind sposition, at least, to those particulars whereunto they apply their endeavours. And this is one reason why, though Universities be full of Universities men, they are oftentimes empty of learning; Why, as there are fome why which do much without learning, to others but here with it, and lew that scholars, and attain to any measure of it. For many heads that undertake it, were ne-empty, of which do much without learning, fo others but little with it, and few that times full of ver squared, nor timber'd for it. There are not only particular men, but Learning. whole Nations indifposed for learning; whereunto is required, not only education, but a pregnant Minerva, and teeming Constitution. For, the The natural Wildom of God hath divided the Genius of men according to the diffe-genius or inrent affairs of the World: And varied their inclinations according to clination, the variety of Actions to be performed therein. Which they who con- how much to fider not studies and waiss of life uncound to be regarded fider not, rudely rushing upon professions and waies of life, unequal to in the choice their natures; dishonour, not only themselves and their Functions, but of a profession

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pervert the harmony of the whole World. For, if the World went on as God hath ordained it, and were every one imploied in points concordant to their Natures, Professions, Arts, and Common-wealths would rife up of themselves; nor needed we a Lanthorn to find a man in Athens.

CHAP. VI.

Of adherence unto Antiquity.

Immoderate But the mortallest enemy unto Knowledg, and that which hath done respect unto the greatest execution upon truth, hath been a peremptory adhesion general cause unto Authority, and more especially, the establishing of our belief upon the dictates of Antiquity. For (as every capacity may observe) most men of Ages present, so Superstitiously do look on Ages past, that the Authorities of the one, exceed the reasons of the other : Whose perfons indeed being far removed from our times, their works, which feldom with us pass uncontrouled, either by contemporaries, or immediate succeffors, are now become out of the distance of Envie: And the farther removed from present times, are conceived to approach the nearer unto truth it felf. Now hereby me thinks we manifestly delude our selves, and widely walk out of the track of Truth.

For first, Men hereby impose a Thraldom on their times, which the ingenuity of no Age should endure, or indeed, the presumption of any did ever yet enjoyn. Thus Hippocrates about 2000, years ago, conceived it no injustice, either to examine or refute the Doctrines of his Predecessors: Galen the like, and Aristotle most of any. Yet did not any of these conceive themselves infallible, or set down their dictates as verities irrefragable, but when they either deliver their own Inventions, or reject other mens Opinions, they proceed with Judgment and Ingenuity; establishing their affertion, not only with great solidity, but submitting them also unto the correction of future discovery.

Secondly, Men that adore times past, consider not that those times were once present: that is, as our own are at this instant, and we our felves unto those to come, as they unto us at present; as we relye on them, even fo will those on us, and magnifie us hereafter, who at prefent condemn our felves. Which very absurdity is daily committed amongst us, even in the esteem and censure of our own times. And to speak impartially, old Men, from whom we should expect the greatest example of Wisdom, do most exceed in this point of folly; commending the daies of their youth, which they scarce remember, at least well underitood not; extolling those times their younger years have heard

their Fathers condemn, and condemning those times the gray heads of their posterity shall commend. And thus it is the humour of many heads, to extol the daies of their fore-Fathers, and declaim against the wickedness, of times present. Which notwithstanding they cannot handfomly do, without the borrowed help, and Satyrs of times past; condemning the vices of their times, by the expressions of vices in times which they commend; which cannot but argue the community of vice in both. Horace therefore, Juvenal, and Perfins were no Prophets, although their lines did feem to indigitate and point at our times. There is a certain lift of vices committed in all Ages, and declaimed against by all Authors, which will last as long as human nature; which digested into common places, may ferve for any Theme, and never be out of date until Dooms-day,

Thirdly, The Testimonies of Antiquity and such as pass oraculously amongst us, were not, if we consider them, alwaies so exact, as to examine the doctrine they delivered. For some, and those the acutest of them, have left unto us many things of falfity; controulable, not only by critical and collective reason, but common and countrey observation.

Hereof there want not many examples in Aristotle, through all his book of Animals; we shall instance only in three of his Problems, and all contained under one Section. The first enquireth, why a Man doth cough, but not an Oxe or Cow; whereas, notwithstanding the contrary is often observed by Husband-men, and stands confirmed by those who have expresly treated de rerustica, and have also delivered divers reme-Why Jumen's, as Horses, Oxen, and Asses, have no eructation or belching, whereas indeed the contrary is often observed, and also delivered by Columella. And thirdly; why Man alone hath gray hairs? whereas it cannot escape the eyes, and ordinary observation of all men, that Horses, Dogs, and Foxes, wax gray with age in our Countries; and in the colder Regions, many other Animals without it. And though favourable constructions may somewhat extenuate the rigor of these concessions, yet will scarce any palliate that in the fourth of his Meteors, that Salt is easiest disolvable in cold water: Nor that of Diascorides, that Quickfilver is best preserved in vessels of Tin and Lead,

Other Authors write often dubioufly, even in matters wherein is expected a strict and definitive truth; extenuating their affirmations, with aiunt, ferunt, fortaffe : As Diascories, Galen, Aristotle, and many more. Others by hear-fay; taking upon trust most they have delivered, whose Volumes are meer Collections, drawn from the mouths or leaves of other Authors; as may be observed in Plinie, Elian, Athenaus, and many more. Not a few transcriptively, subscribing their Names unto other mens endeavours, and meerly transcribing almost all they have written. The Latines transcribing the Greeks; the Greeks and Latines, each other.

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linus, in a manner transcribed Plinie. Thus have Lucian and Apuleius fer-The Anti- ved Lucius Pratenfis; men both living in the same time, and both transquity, and cribing the same Author, in those samous Books, Entituled Lucius by instances of the one, and Aureus Asinus by the other. In the same measure hath Plagianism, Simocrates in his Tract de Nilo, dealt with Diodorus Siculus, as may be that is, of observed in that work annexed unto Heredotus, and Translated by Jungermannus. Thus Eratofthenes wholly translated Timotheus de Insulis, not referving the very Preface. The same doth Strabo report of Endorns, and Ariston, in a Treatise estituled de Nilo. Clemens Alexandrins, hath obferved many examples hereof among the Greeks; and Pliny speaketh very plainly in his Preface, that conferring his Authors, and comparing their works together; he generally found those that went before verbatim transcribed, by those that followed after, and their Originals never so much as mentioned. To omit how much the wittiest piece of Ovid is beholden unto Parthenius Chius; even the magnified Virgil hath borrowed, almost in all his Works: his Ecloques from Theocritus, his Georgicks from Hefiod and Aratus; his Aneads from Homer; the second book whereof containing the exploit of Sinon and the Trojan-Horse (as Macrobrius observeth) he hath verbatim derived from Pisander. Our own profession is not excusable herein. Thus O ibasius, Etius, and Egineta have in a manner transcribed Galen. But Marcellus Empericus, who hath left a famous Work de Medicamentis, hath word for word transcribed all Scribonius Largus, de compositione medicamentorum, and not lest out his very Peroration. Thus my we perceive the Ancients were but men, even like our felves. The practice of transcription in our daies, was no Monfler in theirs: Plagiarie had not its Nativity with Printing , but began in times when thefts were difficult, and the paucity of books scarce wanted that Invention.

Fourthly, While we fo eagerly adhere unto Antiquity, and the accounts of elder times, we are to confider the fabulous condition thereof. And that we shall not deny, if we call to mind the Mendacity of Greece, An ancient from whom we have received most relations, and that a considerable part Author who of Ancient times, was by the Greeks themselves termed willier, that is, wisar, five de made up, or fluffed out with Fables. And furely the fabulous inclination tucredibilibus, of those daies, was greater than any fince; which swarmed to with fawhereof some bles, and from such slender grounds, took hints for fictions, poyfoning part is yet ex- the World ever after; wherein how far they exceeded, may be exam-

plified from Palephatus, in his Book of Fabulous Narrations. That fable The Fable of Orphens, who by the melodie of his musick made Woods and Trees o' Orpheus his to follow him, was raifed upon a flender foundation; for there were a Harp, Je. crew of mad-women, retired into a Mountain from whence being paciwhence occafied by his Musick, they descended with boughs in their hands, which fioned. unto the fabulofity of those times proved a sufficient ground to celebrate unto all posterity the Magick of Opheus Harp, and its power to attract

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the sensless trees about it. That Medea the famous Seceress could renew youth, and make old men young again, was nothing elfe, but that from the knowledg of Simples the had a Receit to make white hair black, and reduce old heads, into the tincture of youth again. The fable of Gerion and Cerberns with three heads was this : Ger on was of the City Tricarimia, that is, of three heads, and Cerberns of the fame place was one of his Dogs, which running into a Cave upon puriout of his Mafter's Oxen, Herenles perforce drew him out of that place; from whence the conceits of those daies affirmed no less, than that Hercules descended into Hell, and brought up Cerberus into the habitation of the living. Upon the like grounds was raised the figment of B isrens who dwelling in a City called Hecaronchiria, the fancies of those times affigued him an hundred hands. 'I was ground enough to fancy wings unto Dedalus, in that he Stole out of a Window from Minos, and failed away with his fon Icarus : who flearing his course wisely, escaped; but his son carrying to high a fail was drowned. That Niobe-weeping over her (hildren, was turned into a Stone, was nothing elfe, but that during her life fine erected over their Sepultures, a Marble-Tomb, of her own. When Atteon had undone himself with Dogs, and the prodigal attendants of hunting, they made a folemn flory how he was devoured by his Hounds. And upon the like grounds was raifed the Anthropophagie of Diamedes his Horses. Mans fielh. Upon as flender foundation was built the fable of the Minotaure; for one Taurus a fervant of Minos gat his Miltris Pafiphae with child; from whence the Infantwas named Minetaurus. Now this unto the fabulofity of those times was thought sufficient to accuse Pasiphae of Beastiality or admitting conjunction with a Buil; and in succeeding ages gave a hint of depravity unto Demitian to act the fable into reality. In like manner, as Diodo us plainly delivereth, the famous fable of Charon had its Nativity; who being no other but the common Ferry-man of Egy t, that wafted over the dead bodies from Memphis, was made by the Greeks to be the Ferry-man of Hell, and solemn stories raised after of him. Lastly, we shall not need to enlarge, if that be true which grounded the generation of Caftor and Helen: out of an Egg, because they were born and brought up in an upper room, according unto the Word 'wor, which with the Lacademonians had also that signification

Fifthly, We applaud many things delivered by the Ancients, which are in themselves but ordinary, and come short of our own Conceptions. Thus we usually extol and our Orations cannot escape the sayings of the Wise men of Greece. Nosce teipsum, of Thales: Nosce tempus, of Pittacus: Nihil nimis, of Cleebulus; which notwithstanding to speak indifferently, are but vulgar precepts in Morality, carrying with them nothing above the line, or beyond the extemporary fententiofity of common conceitis with us. Thus we magnifie the Apothegus, or reputed replies of Wifdom, whereof many are to be seen in Lacrius, more in Lycosthenes, not a few

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in the second Book of Macrobeins, in the sals of Cicero, Augustus, and the Comical wits of those times: in most whereof there is not much to admire; and are methinks exceeded, not only in the replies of wife men, but the passages of society, and urbanities of our times. And thus we extol their Adages, or Proverbs; and Erasmus hath taken great pains to make collections of them; whereof notwithflanding, the greater part will, I believe, unto indifferent Judges be esteemed no extraordinaries; and may be parallel'd, if not exceeded, by those of more un earned Na-

tions, and many of our own.

Sixtly, We urge Authorities, in points that need not, and introduce the testimony of ancient Writers, to confirm things evidently believed, and whereto no reasonable hearer but would assent without them; such as are, Nemo mortalium omnibus horis sapit. Virtute nil prestantius, nil pulch ins. Omnia vincit amor. Praclarum quiddam veritas. All which, although things known and vulgar, are frequently urged by many men, and though trivial verities in our mouths, yet, noted from Plato, Ovid, or Cicero, they become reputed elegancies. For many hundred to instance but in one we meet with while we are writing. Antonius Guevara. that elegant Spaniard, in his book entituled, The Dial of P inces, beginneth his Epistle thus. Apolonius Thyaneus, disputing with the Scholars of Hiarchas, faid, that among all the affections of nature, nothing was more natural, than the defire all have to preserve life. Which being a confessed Truth, and a verity acknowledged by all, it was a superfluous A pedanti affectation to derive its Authority, from Apolonius, or feek a confirmation cal vanity, to thereof as far as India, and the learned Scholars of Hiarchas. Which whethors in mat- ther it be not all one to strengthen common Dignities and Principles ters of com- known by themselves, with the Authority of Mathematicians; or think mon fense or a man should believe, the whole is greater than its parts, rather upon the of familiar ac- Authority of Enclide, than if it were propounded alone; I leave unto the second and wifer cogitations of all men. 'Tis sure a Practice that favours much of Fedantry; a referve of Puerdity we have not shaken off from School; where being seasoned with Minor sentences; by a neglect of higher Enquiries, they prescribe upon our riper ears, and are

> Laftly, while we fo devoutly adhere unto Antiquity in some things, we do not consider we have deserted them in several others. For, they indeed have not only been imperfect, in the conceit of some things, but either Ignorant, or Erroneous in many more. They understood not the Motion of the eighth Sphere from West to East, and so conceived the Longitude of the Stars invariable. They conceived the Torrid Torrid Zone unhabitable, and so made fruitrate the goodliest part of the Earth. But we now know 'tis very well enpeopled, and the habitation thereof esteemed so happy, that some have made it the proper seat of Paradife; and been so far from judging it unhabitable, that they have

never worn out, but with our Memories.

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made it the first habitation of all. Many of the Ancients denyed the Antipodes, and some unto the penalty of contrary affirmations; but the experience of our enlarged Navigations, can now affert them beyond all dubitation. Having thus totally relinquish them in somethings, it may not be prefumptuous, to examine them in others; but furely most unreal fonable to adhere to them in all, as though they were infallible, or could mod err in any. al avittae of save to a strong to meantaglab ac stram

but Render confidencing; for that also processing from feeled Penceplease therein is expected all IVaC. P. ManH Dunical progressions and

fuch as beget a fare rational bestef. For, if Authority in ght have madel out the afterness of Philologilrostina for mye, held, that Snow was black, that the cawas but the livest of the life black, that the cawas but the livest of the life.

intelly, and appay of the life Nor is only a resolved prostration unto Antiquity a powerful enemy unto knowledg, but any confident adherence unto Authority, or refignation of our judgments upon the testimony of Age, or Author whatfoever.

For first, To speak generally; An argument from Authority to wifer examinations, is but a weaker kind of proof; it being but a topical probation and, as we term it, an inartificial argument, depending upon a naked affeveration: wherein neither declaring the caules, affections, or ad-(fimply)but a juncts of what we believe, it carrieth not with it the reasonable induce mean arguments of knowledg. And therefore, Contra negantem Principia, Ipfe dia ment; especiunto Junior indoctrinations; yet are their Authorities but temporary, and not to be imbraced beyond the minority of our intellectuals. For our advanced beliefs are not to be built upon dictates, but having received the probable inducements of truth, we become emancipated from testimonial engagements, and are to erect upon the furer Base of Reason.

Secondly, Unto reasonable perpensions it hath no place in some Sciences, imallin others; and fuffereth many restrictions, even where it is most admitted It is of no validity in the Mathematicks, especially the mother-part thereof, Arithmetick and Geometry. For these Sciences thematicks. concluding from Axioms, and Principles known by themselves, receive not fatisfaction from probable reasons, much less from bare and peremptory affeverations. And therefore if all Athens should decree, that in every Triangle, two fides, which foever be taken, are greater than the fide remaining, or that in retangle-triangles the fquare which is made of the fide that fubtendeth the right angle, is equal to the fquares which are made of the fides containing the right angle: Although there be a certain truth therein, Geometricians notwithstanding would not receive satisfaction without demonstration thereof: Fis true, by the vulgarity of Philosophers, there are many points believed without probation; nor if

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a man affirm from Ptolemy, that the Sun is bigger than the Earth, shall he probably meet with any contradiction? whereunto notwithstanding Astronomers will not affent without some convincing argument or demonstrative proof thereof. And therefore certainly of all men a Philosopher should be no Swearer: for an Oath, which is the end of controverases in Law, cannot determine any thing here; nor are the deepest Sacraments or desperate imprecations of any force to perswade, where reason

only, and necessary mediums, must induce.

In Natural Philosophy, more generally pursued amongst us, it carrieth but slender consideration; for that also proceeding from settled Principles, therein is expected a satisfaction from scientifical progressions, and fuch as beget a fure rational belief. For, if Authority might have made out the affertions of Philosophy, we might have held, that Snow was black, that the Sea was but the Iweat of the Earth, and many of the like absurdities. Then was Aristotle injurious to fall upon Melissus, to reject the affertions of Anaxagoras, Anaximander, and Empedocles: Then were we also ungrateful unto himself; from whom our Junior endeavours embracing many things on his authority, our mature and fecondary enquiries, are forced to quit those receptions, and to adhere unto the nearer account of Reason. And although it be not unusual, even in Philosophical Tractates to make enumeration of Authors, yet are there reasons usually introduced, and to ingenuous Readers do carry the stroke in the perswafi-And furely if we account it reasonable among our selves, and not injurious unto rational Authors; no farther to abett their opinions than as they are supported by folid Reasons: certainly with more excusable refervation may we shrink at their bare testimonies, whose argument is but precarious, and subsists upon the charity of our assentments.

In Morality, Rhetorick, Law, and History, there is I confess a frequent and allowable use of Testimony; and yet herein I perceive, it is not unlimitable, but admitteth many Restrictions. Thus in Law, both Civil and divine, that is only esteemed a legal testimony, which receives comprobation from the mouths of at least two witnesses; and that not only for prevention of calumny, but assurance against mistake: whereas, notwithstanding the folid reason of one man, is as sufficient, as the clamour of a whole Nation; and with imprejudicate apprehensions begets as sirm a belief as the authority or aggregated testimony of many hundreds. For reason being the very root of our natures, and the principles thereof common unto all, what is against the Laws of true reason, or the unerring understanding of any one, if rightly apprehended; must be disclaimed

by all Nations, and rejected even by Mankind.

Again, A testimony is of small validity if deduced from men out of their own profession; so if Lastantins affirm the figure of the Earth is plain, or Anstin himself deny there are Antipodes (though venerable Fathers of the Church, and ever to be honoured;) yet will not their Authorities

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prove sufficient to ground a belief thereon. Whereas notwithstanding folid reason or confirmed experience of any man, is very approvable in what profession soever. So Raymund Schund, a Physitian of Thol nze. besides his learned Dialogues de natura humana, hath written a natural Theologie; demonstrating therein the Attributes of God, and attempting the like in most points of Religion. So Hugo Grotius, a Civilian, did write an excellent Tract of the Verity of Christian Religion. in most rationally delivering themselves, their works will be embraced by most that understand them, and their reasons ensorce belief even from prejudicate Readers. Neither indeed have the Authorities of men been ever fo awful; but that by some they have been rejected, even in their own professions. Thus Aristotle affirming the birth of the Infant, or time of its gestation, extendeth sometimes unto the eleventh Moneth, but Hippocrates, averreth that it exceeded not the tenth; Adrian the Emperour in a solemn process, determined for Aristotle: but Justinian many years after, took in with Hippocrates and reversed the Decree of the Thus have Councils, not only condemned private men, but the Decrees and Acts of one another. So Galen, after all his veneration of Hippocrates, in some things hath fallen from him. Avicen in many, from Galen; and others fucceeding, from him. And although the fingularity of Paracelfus be intolerable, who, sparing only Hippocrates, hath reviled not only these Authors, but almost all the learned that went before him ; yet is it not much less injurious unto knowledg, obstinately and inconvincedly to fide with any one. Which humour unhappily possessing many, they have by prejudice withdrawn themselves into parties, and contemning the foveraignty of truth, feditiously abetted the private divisions of Error.

Moreover a testimony in points Historical and where it is of unavoidable use) is of no illation in the negative; nor is it of consequence that Herodotus writing nothing of Rome, there was therefore no fuch City in his time; or because Diescorides hath made no mention of Unicorns-horn, therefore there is no fuch thing in nature. Indeed, intending an accurate enumeration of Medical materials, the omission hereof affords some probability, it was not used by the Ancients; but will not conclude the nonexistence thereof. For so may we annihilate many Simples unknown to his enquiries, as Senna, Rabarb, Bezoar, Ambergris, and divers others. Whereas indeed the reason of man hath not such retraint; concluding not only affirmatively but negatively: not only affirming there is no magnitude beyond the last heavens, but also denying there is any vacuity within them. Although it be confessed, the affirmative hath the prerogative illation, and Birbara engroffeth the powerful demonstration.

Lastly, the strange relations made by Authors, may sufficiently discourage our adherence unto Authority; and which if we believe, we must be apt to swallow any thing. Thus Basil will tell us the Serpent went erect

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like Man, and that that Beaft could speak before the Fall. Toftaeus would make us believe, that Nilus encreaseth every new Moon. Leonardo Fioravanti an Italian Physician, beside many other secrets, assumeth unto himself the discovery of one, concerning Pellitory of the wall, that is, that it never groweth in the fight of the North star, Done si possa vede-re la stella Tramontana: wherein how wide he is from truth, is easily discoverable unto every one, who hath but Astronomie enough to know that Star. Franciscus Sanctius in a laudable Comment upon Aleiat's Emblems, affirmeth, and that from experience, a Nightingale hath no tongue. Avem Philomelam lingua carere pro certo affirmare possum, nisi me oculi fallunt. Which if any man for a while shall believe upon his experience, he may at his leasure refute it by his own. What fool allmost would believe, at least, what wife man would relie upon that Antidote delivered by Pierius in his Hieroglyphicks against the sting of a Scorpion ? that is, To fit upon an Afs with ones face toward histail; for fo the Pain leaveth the man, and passeth into the Beast. It were me-thinks but an uncomfortable Receit for a Quartan Ague (and yet as good perhaps as many others use) to have recourse unto the Recipe of Sammonicus; that is, to lay the fourth book of Home's Iliads under ones head, according to the precept of that Physician and Poet, Maonia Iliados quartum suppons, trementi. There are furely few that have belief to swallow, or hope An eye-mede-enough to experiment the Collyrium of Albertus; which promifeth a strange effect, and such as Theeves would count inestimable, that is, to make one see in the dark : yet thus much, according unto his receit, will the right eye of an Hedge-hog boyled in Oyl, and preferved in a brazen veffel effect. As strange it is, and unto vicious inclinations were worth Ten thousand a nights *lodging with Lais, what is delivered in Kiranides; that the left stone of a Weesel, wrapt up in the skin of a she-Mule, is able to secure

incontinency from conception.

These, with swarms of others, have men delivered in their writings, whose verities are only supported by their Authorities: But being neither confonant unto reason, nor correspondent unto experiment, their affirmations are unto us no Axioms: We esteem thereof as things unfaid, and account them but in the lift of nothing. I wish herein the Chymists had been more sparing: who over-magnifying their preparations, inveigle the curiofity of many, and delude the fecurity of most. For if experiments would answer their encomiums, the Stone and Quartan Agues, were not opprobrious unto Physicians , we might contemn that first, and most uncomfortable Aphorism of Hippocrates : for surely that Art were foon attained, that hath so general remedies; and life could not be short, were there fuch to prolong it.

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CHAP. VIII.

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A brief enumeration of Authors.

Ow forasmuch as we have discoursed of Authority, and there is scarce any Tradition or popular Error but stands also delivered by some good Author; we shall endeavour a short discovery of such, as for the major part have given authority hereto; who, though excellent and useful Authors, yet being either transcriptive, or following common relations, their accounts are not to be swallowed at large, or entertained without a prudent circumspection. In whom the Ipse dixit, although it be no powerful argument in any, is yet less authentick than in many other, because they deliver not their own experiences, but others

affirmations, and write from others, as later pens from them.

1. The first in order, as also in time shall be Herodotus of Halicar- The Authors nassus, an excellent and very elegant Historian; whose books of Hi-judgment, or flory were fo well received in his own daies, that at their rehearfal in the a Character Olympick games, they obtained the names of the Nine Muses; and con-given of some tinued in such esteem unto descending Ages, that Cieero termed him, Hi-eminent Auforiarum parens. And Dionysius his Country-man, in an Epistle to Pom- thors. per, after an express comparison, affords him the better of Thucydides; all which notwithstanding, he hath received from some, the stile of Mendaciorum pater. His authority was much infringed by Plutarch; who being offended with him, as Polybius had been with Philarchus, for speaking too coldly of his Country-men, hath left a particular Tract, De malien tate Herodoti. But, in this later Century, Camerarius and Stephanus have flepped in, and, by their witty Apologies, effectually endeavoured to frustrate the Arguments of Plutarch, or any other. Now in this Author, as may be observed in our ensuing discourse, and is better discernable in the perufual of himfelf, there are many things fabuloufly delivered, and not to be accepted as truths: whereby nevertheless, if any man be deceived the Author is not fo culpable as the Believer. For he indeed imitating the Father-Poet, whose life he hath also written, and, as Thucydides observeth, as well intending the delight, as benefit of his Reader, hath besprinkled his work with many fabulosities; whereby if any man be led into error, he mistaketh the intention of the Author; who plainly confesseth he writeth many things by hear-say, and forgetteth a very confide. rable caution of his own, that is, Ego que fando cognovi, exponere narratione mea debeo omnia: credere autem esse vera omnia, non debeo.

2. In the second place is Cressas the Indian, Physician unto Artaxerxes King of Perssa: His books are often cited by ancient Writers: and by the industry of Stephanus and Rodomanus, there are extant some frag-

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ments thereof in our dayes; he wrote the History of Persia, and many narrations of India. In the first, as having a fair opportunity to know the truth, and, as Diodorus affirmeth, the perusal of Persian Records, his testimony is acceptable. In his Indian Relations, wherein are contained strange and incredible accounts, he is furely to be read with suspension. These were they which weakned his authority with former ages; for, as we may observe, he is seldom mentioned, without a derogatory Parenthesis in any Author. Aristotle, besides the frequent undervaluing of his authority, in his books of Animals, gives him the lye no less than twice, concerning the feed of Elephants. Strabo in his eleventh book hath left a harder censure of him. Equidem facilius Hesiodo & Homero, aliquis fidem adhibuerit, itemque Tragicis Poetis, quam Ctefia, Herodoto, Hellanico, & corum similibus. But Lucian hath spoken more plainly than any, Scripe sit Ctesias de Indorum regione, deque its qua apud illos sunt, ea qua nec ipse vidit, neque ex ullins sermone audivit. Yet were his relations taken up by fome succeeding Writers, and many thereof revived by our Countryman, Sir John Mandevil, Knight and Doctor in Physick; who after thirty years peregrination died at Leige, and was there honourably interred. He left a Book of his Travels, which hath been honoured with the translation of many Languages, and now continued above three hundred years; herein he often attesteth the fabulous relations of Ctesias, and feems to confirm the refuted accounts of Antiquity. All which may still be received in some acceptions of Morality, and to a pregnant invention, may afford condemnable mythologie; but in a natural and proper exposition, it containeth impossibilities, and things inconsistent with truth.

There is a Book, De mirandis auditionibus, ascribed to Aristotle; another De mirabilibus narrationibus, written long after by Antigonus; another also of the same title by Plegon Trallianus, translated by Xilander, and with the Annotations of Meursius; all whereof make good the promise of their titles, and may be read with caution. Which if any man shall likewise observe in the Lecture of Philostratus, concerning the life of Apollonius, and even in some passages of the sober and learned Plutarchus; and not only in ancient Writers, but shall carry a wary eye, on Paulus Venetus, Jovius, Olaus Magnus, Nierembergius, and many others: I think his circumspection is laudable, and he may thereby decline occasion of Error.

4. Dioscorides Anazarbeus, he wrote many books in Physick; but six thereof, de Materia Medica, have found the greatest esteem; he is an Author of good Antiquity and use; preserved by Galen, before Cratevas, Pam hisus, and all that attempted the like description before him; yet all he delivereth therein is not to be conceived Oraculous. For beside, that following the wars under Anthony, the course of his life would not permit a punctual Examen in all; There are many things concerning the

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nature of Simples, traditionally delivered, and to which I believe he gave no affent himself. It had been an excellent Receit, and in his time, when Saddles were scarce in fashion, of very great use, if that were true, which he delivers, that Vitex, or Agnus Castus held only in the hand, preserveth the rider from galling. It were a strange effect, and Whores nion there is would forfake the experiment of Savine, if that were a truth which he now o Ealder delivereth of Brake, or female Fearn, that only treading over it, it caufeth a fuddain abortion. It were to be wished true, and Women would Idolize him, could that be made out which he recorded of Phyllon, Mercury, and other Vegetables, that the juyce of the Maile-plant drunk, or the leaves but applied unto the Genitals, determines their conceptions unto Males. In thefe relations although he be more sparing, his predecellors were very numerous; and Galen hereof most sharply accuseth Pamph lus. Many of the like nature we meet sometimes in Oribasius, Etins, Trallianus, Se apion, Evax, and Marcellus; whereof some containing no colour of verity, we may at first fight reject them; others which feem to carry fome face of truth, we may reduce unto experiment. And herein we shall rather perform good offices unto truth, than any differvice unto their relators, who have well deferved of fucceeding Ages; from whom having received the conceptions of former times, we have the readier bint of their conformity with ours, and may accordingly explore and fift their verities.

5. Plinius Secundus of Verona; a man of great Eloquence, and industry indefatigable, as may appear by his writings, especially those now extant, and which are never like to perish, but even with learning it felf; that is, his Na ural History. He was the greatest Collector or Rapsodist of the Latines, and, as Suetonius observeth, he collected * this piece out of Plinies natwo thousand Latine and Greek Authors. Now, what is very strange, tural History there is scarce a popular Error passant in our dayes, which is not either of 2000 seve. directly expressed, or deductively contained in this Work; which being ral Authors. in the hands of most men, hath proved a powerful occasion of their propagation. Wherein notwithstanding the credulity of the Reader, is more condemnable than the curiofity of the Author. For commonly he nameth the Authors, from whom he received those Accounts; and writes

but as he reads, as in his Preface to Ve/pasian he acknowledgeth.

6. Claudius Elianus; who flourished not long after in the reign of Trajan, unto whom he dedicated his Tacticks; an elegant and miscellaneous Author: He hath left two books which are in the hands of every one, his Hittory of Animals, and his Varia Historia. Wherein are contained many things suspicious, not a few false, some impossible; he is much beholden unto Ctessas, and in many uncertainties writes more confidently than Pliny.

7. Julius So inus, who lived also about his time : He left a work entituled Polybifter, containing great variety of matter, and is with most inA like opi-

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good request at this day. But, to speak freely what cannot be concealed, it is but Pliny varied. or a transcription of his natural History; nor is it without all wonder it hath continued so long, but is now likely, and deferves indeed to live for ever; not only for the elegancy of the Text, but the excellency of the Comment, lately performed by Salmasius, under the name of Plinian-Exercitations.

8. Atheneus, a delectable Author, very various, and justly stiled by Casaubon, Gracorum Plinius. There is extant of his a samous piece under the name of Deipnosophista, ot Cana sapentum, containing the discourse of many learned men, at a seast provided by Laurentius. It is a laborious collection out of many Authors, and some whereof are mentioned no where else. It contains the strange and singular relations, not without some spice or sprinkling of all learning. The Author was probably a better Grammarian than Philosopher, dealing but hardly with Aristoteliand Plato, and betrayeth himself much in his Chapter de curiositate Aristotelis. In brief, he is an Author of excellent use, and may with discretion be read unto great advantage: and hath therefore well deserved the Comments of Casaubon and Dalcampius. But being miscellaneous, in many things he is to be received with suspicion; for such as amass all relations, must erre in some, and may without offence be unbelieved in many.

9. We will not omit the works of Nicander, a Poet of good Antiquity: that is, his Theriaca, and Alexipharmaca, translated and commented by Gorrans, for therein are contained several traditions, and popular conceits, of venemous bealts; which only deducted, the Work is to be embraced, as containing the first description of Poysons and their Antidotes, whereof Dissocides, Pliny, and Galen, have made a especial use in elder times; and Ardonnus, Grevinus, and others, in times more neer our own. We might perhaps let pass Oppianus, that famous Cilician Poet. There are extant of his in Greek, four books of Cynegeticks or Venation, five of Halieuticks or Piscation, commented and published by Ritterhusius; wherein describing beals of venery and fishes, he hath indeed but sparingly inferted the vulgar conceptions thereof. So that abating the annual mutation of Sexes in the Hyena, the fingle Sex of the Rhinoceros, the Antipathy between two Drums of a Lamb and a Wolfs skin, the informity of Cubs. the venation of Gentaures, the copulation of the Murena and the Viper, with some few others, he may be read with great delight and profit.

That write It is not without some wonder his Elegant lines are so neglected. Sure-Hexameters, ly hereby we reject one of the best *Epick Poets, and much condemn the orlong verses judgment of Antonius, whose apprehensions so honoured his Poem, that, as some report, for every verse, he assigned him a Stater of Gold.

in Greek Iambicks delivered the proprieties of Animals, for herein he had amassed the vulgar accounts recorded by the Ancients, and hath therein especially followed Elian. And likewise Johannes Tzerzes, a

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Grammarian, who besides a Comment upon Hesiod and Homer, hath left us Chiliades de Varia Historia; wherein delivering the accounts of Ctefias, Herodo'us, and most of the Ancients, he is to be embraced with cau-

tion, and as a transcriptive relator.

11. We cannot without partiality omit all caution even of holy Writers, and fuch whose names are venerable unto all posterity; not to meddle at all with miraculous Authors, or any Legendary Relators, we are not without circumspection to receive some books even of Authentick and Renowned Fathers. So are we to read the leaves of Bafil and Ambrese, in their books, entituled Hexamiron, or, The description of the Crea ion; Wherein delivering particular accounts of all the Creatures, they have left us relations sutable to those of Alian, Plinie, and other natural Writers; whose authorities herein they followed, and from whom most probably they defumed their Narrations. And the like hath been committed by Epiphanius, in his Physiologie, that is, a book he hath left concerning the nature of Animals. With no less caution must we took on Isidor, Bishop of Sevil; who having left, in twenty books, an acurate work de Originibus, hath to the Etymologie of words, superadded their received natures; wherein most generally he consents with common Opinions, and Authors which have delivered them.

12. Albertus, Bishop of Ratisbone; for his great learning and latitude of knowledg firnamed Magnus. Befides Divinity, he hath written many Tracts in Philosophy: What we are chiefly to receive with caution, are his natural tractates, more especially those of Minerals, Vegetables, and Animals, which are indeed chiefly Collections out of Arifforle, Elian, and Plinie, and respectively contain many of our popular Errors. man who hath much advanced these opinions by the Authority of his Name, and delivered most Conceits, with strict enquiry into few. In the same Classis, may well be placed Vincentius Belluacensis; or rather, he from whom he collected his Speculum naturale, that is, Gulielmus de Conchis; and also Hortus Sanitatis; and Bartholomans Glanvil, sirnamed Anglicus, who writ de proprietatibus rerum. Hither also may be referred Kiranides; Which is a collection out of Harpocration the Greek, and fundry Arabick Writers; delivering not only the Natural but Magical propriety of things; a work as full of vanity as variety; containing many relations, whose invention is as difficult as their belief, and their experi-

ments sometimes as hard as either.

13. We had almost forgot Feronimus Cardanus, that famous Physitian of Milan, a great enquirer of truth, but too greedy a receiver of it. He hath left many excellent discourses, Medical, Natural, and Astrological; the most suspicious are those two he wrote by admonition in a dream, that is, De subtilitate & varietate rerum. Affuredly this learned man hath taken many things upon truft, and although examined fome, hath let slip many others. He is of singular use unto a prudent Reader;

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but, unto him that only defireth O'vi's, or to replenish his head with varieties; like many others before related, either in the Original or confir-

mation, he may become no small occasion of Error.

14. Lastly, Authors are also suspicious, not greedily to be swallowed, who pretend to write of Secrets, to deliver Antipathies, Sympathies, and the occult Abstrustices of things: In the list whereof may be accounted, Alexis Pedimontanus, Antonius Mizaldus, Trinum Magicum, and many others. Not omitting that famous Philosopher of Naples, Baptista Porta; in whose works, although there be contained many excellent things, and verified upon his own experience; yet are there many also receptary, and such as will not endure the test. Who although he hath delivered many strange relations in his Phytognomia, and his Villa; yet hath he more remarkably expressed himself in his Natural Magick, and the miraculous effects of Nature. Which containing various and delectable subjects, withal promising wondrous and easie effects, they are entertained by Readers at all hands; whereof the major part sit down in his Authority, and thereby omit not only the certainty of truth, but the pleasure of its experiment.

Thus have we made a brief enumeration of these learned men, not willing any to decline their Works (without which it is not easie to attain any measure of general knowledg.) but to apply themselves with caution thereunto; and, seeing the lapses of these worthy Pens, to cast a wary eye on those diminutive, and pamphlet-Treaties, daily published amongst us. Pieces maintaining rather Typography then Verity; Authors presumably writing by Common Places, wherein for many years promiscuously amassing all that makes for subject, they break forth at last in trite and fruitless Rhapsodies; doing thereby not only open injury unto learning, but committing a secret treachery upon truth. For their relations falling upon credulous Readers, they meet with prepared belies; whose supinities had rather assent unto all, than adventure the

Thus, I say, must these Authors be read, and thus must we be read our selves; for, discoursing of matters dubious, and many controvertible truths, we cannot without arrogancy entreat a credulity, or implore any farther assent, than the probability of our Reasons, and verity of Experiments induce.

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CHAP. IX.

of the Same.

Here are belide these Authors, and such as have positively promoted Lerrors, divers others which are in some way accessory; whose verities although they do not directly affert, yet do they obliquely concurr unto their beliefs. In which account are many holy Writers, Preachers, Moralists, Rhetoricians, Orators, and Poets; for they depending upon invention, deduce their mediums from all things whatfoever; and playing much upon the Simile, or illustrative argumentation, to induce their Enthymemes unto the people, they take up popular Conceits, and from traditions unjustifiable or really false, illustrate matters of undeniable truth. Wherein although their intention be fincere, and that course not much condemnable; yet doth it notoriously strengthen common Errors,

and authorife opinions injurious unto truth.

Thus have some Divines drawn into argument the Fable of the Phanix, made use of the Salamander, Pelican, Basilisk, and divers relations of Pling; deducing from thence most worthy Morals, and even upon our Saviour. Now although this be not prejudicial unto wifer judgments. who are but weakly moved with fuch arguments, yet it is oft times occafion of Error unto vulgar heads, who expect in the Fable as equal a truth as in the Moral, and conceive that infallible Philosophy, which is in any fense delivered by Divinity. But wifer discerners do well understand, that every Art hath its own circle; that the effects of things are best examined, by sciences wherein are delivered their causes; that strict and definitive expressions, are alwayes required in Philosophy, but a loose and popular delivery will ferve oftentimes in Divinity. As may be ob- Expressions ferved even in holy Scripture; which often omitteth the exact account of holy scripof things; describing them rather to our apprehensions, than leaving ture fitted ma doubts in vulgar minds, upon their unknown and Philosophical descriptiony times ra-ons. Thus it termeth the Sun and the Moon, the two great lights of lar and com-Heaven. Now if any shall from hence conclude, the Moon is second mon apprein magnitude unto the Sun, he must excuse my belief; and I think it can-hension, than not be taken for Herefie, if herein I rather adhere unto the demonstra- to the exact tion of Ptolemy, than the popular description of Moses. Thus, it nature of is said, 2 Chrenicles 4 2. That Solomon made a molten Sea of ten Cubits, from brim to brim round in compass, and five Cubits the

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height thereof, and a line of thirty Cubits did compass it round about. Now in this description, the Circumference is made just treble unto the Diameter; that is, as 10. to 30. or 7. to 21. But Archimedes demonstrates, In his Cyclo that the proportion of the Diameter, unto the circumference, is as 7. unto almost 22, which will occasion a ferfible difference, that is almost a Cubit. Now if herein I adhere unto Archimedes who speaketh exactly rather than the facred Text which speaketh largely; I hope I shall not offend Divinity: I am fure, I shall have reason and experience of every Circle to support me.

Thus Moral Writers, Rhetoricians and Orators make use of several relations which will not confift with verity. Ariffotle in his Ethicks takes up the conceit of the Bever, and the divultion of his Tefficles. The tradition of the Bear, the Viper, and divers others are frequent amongst Orators. All which although unto the illiterate and undifcerna ing hearers may feem a confirmation of their realities; yet is this no reafonable establishment unto others, who will not depend hereon otherwife than common Apologues: which being of impossible falsities, do notwithstanding include wholsome moralities, and such as expiate the

trespass of their absurdities.

The Hieroglyphical doctrine of the Egyptians (which, in their Four hundred years cohabitation, some conjecture they learned from the Hebrews) hach much advanced many popular Conceits. For using an Alphabet of Things, and not of Words (though the Image and Pictures thereof) they endeavoured to speak their hidden Conceits, in the letters and language of nature. In pursuit whereof, although in many things, they exceeded not their true and real apprehensions; yet in some other, they either framing the story, or taking up the tradition, conduceable unto their attentions, obliquely, confirmed many fallities; which as authentick and conceded truths, did after pass unto the Greeks; from them unto other Nations, are still retained by symbolical Writers, Emblematists, Heralds, and others. Whereof, some are strictly maintained for truths, as naturally making good their artificial reprefentations; others fymbo. lically intended, are literally received, and swallowed in the first sense, without all guft of the second: Whereby we pervert the profound and mysterious knowledg of Egypt; containing the Arcana's of Greek Antiquities; the Key of many obscurities, and ancient learning extant. Famous herein in former ages, were Heraifcus, Cheremon, Epins, especially, Orus, Apollo Niliacus : who lived in the reign of Theodofius, and in Egyptian Language left two Books of Hieroglyphicks; translated into Greek by Philippus, and a large collection of all made after by Pierius. But no man is likely to profound the Ocean of that Doctrine, beyond that eminent example of industrious Learning, Kircherus.

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not inculpable herein, who either describing naturals as they are, or actions as they have been, have oftentimes erred in their delineations. Which being the Books that all can read, are fruitful advancers of these conceptions, especially in common and popular apprehensions: who being unable for farther enquiry, must rest in the Text, and letter of their de-

fcriptions.

Lattly, Poets and Poetical Writers have in this point exceeded others, trimly advancing the Egyptian notions of Harpies, Phanix, Gryphins, and many more. Now, however to make use of Fictions, Apologues, and Fables be not unwarrantable, and the intent of these Inventions might point at laudable ends; yet do they afford our junior capacities a frequent occasion of error, setling impressions in our tender Memories, which our advanced Judgments generally neglect to expunge. This way the vain and idle Fictions of the Gentiles did first infinuate into the heads of Christians; and thus are they continued even unto our dayes. Our first and literary apprehensions being commonly instructed in Authors which handle nothing elfe; wherewith our memories being stuffed; our inventions become pedantick, and cannot avoid their allufions; driving at thefe as at the highest elegancies, which are but the frigidities of wit, and become not the genius of manly ingenuities. It were therefore no loss like that of Galen's study, if these had found the same fate; and would in some way requite the neglect of folid Authors, if they were less purfued. For, were a pregnant wit educated in ignorance hereof, receiving only impressions from realities; upon such solid foundations, it must furely raise more substantial superstructions, and fall upon very many excellent strains, which have been justled off by their intrusions.

CHAP. X.

Of the last and common promoter of false Opinions, the endeavours of Satan.

But besides the infirmities of Human Nature, the seed of error within our selves, and the several wayes of delusion from each other; there is an invisible Agent, and secret promoter without us, whose activity is undiscerned, and plaies in the dark upon us; and that is, the first contriver of Error, and professed opposer of Truth, the Devil. For though permitted unto his proper principles, Adam perhaps would have sinned without the suggestion of Satan: and from the transgressive infirmities of himself might have erred alone, as well as the Angels before him: And although also there were no Devil at all, yet is there now in our natures a consessed sufficiency unto corruption, and the frailty of our own

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Oeconomie, were able to betray us out of truth, yet wants there not another Agent, who taking advantage hereof proceedeth to obscure. The devil's the diviner part, and efface all tract of its traduction. To attempt a method of particular of all his wiles, is too bold an Arithmetick for man; what propagating error in the most considerably concerneth his popular and practised wayes of delufion, he first deceiveth Mankind in five main points concerning God

and himfelf. And first his endeavours have ever been, and they cease not yet, to instil a belief into the mind of man, There is no God at all. And this he principally endeavours to establish in a direct and literal apprehension; that is, that there is no fuch Reality existent, that the necessity of his Entity dependeth upon ours, and is but a Political Chimera; That the natural truth of God is an artificial erection of man, and the Creator himself but a subtil Invention of the Creature. Where he succeeds not thus high, he labours to introduce a fecondary and deductive Athersm; that, although men concede, There is a God, yet should they deny his Frovidence. And therefore affertions have flown about, That he intendeth only the care of species or common natures, but letteth loose the guard of Individuals, and fingle existences therein: That he looks not below the Moon, but hath defigned the regiment of fublunary affairs unto inferiour deputations. To promote which apprehenfions, or empuzzle their due conceptions, he casteth in notions of fare, deftiny, fortune, chance, and necessity; terms commonly misconceived by vulgar heads, and their propriety sometime perverted by the wifest. Whereby extinguishing in minds, the compensation of vertue and vice, the hope and fear of heaven or hell; they comply in their Actions unto the drift of his delufions, and live like creatures without the capacity of either.

Now hereby, he not only undermineth the Base of Religion, and destroyeth the principle preambulous unto all belief; but puts upon us the remotest error from truth. For Atheism is the greatest falsity, and to affirm there is no God, the highest lye in Nature. And therefore strictly taken, some men will say, his labour is in vain; For many there are, who cannot conceive there was ever any absolute Atheist; or such as could determine there was no God, without all check from himfelf, or contradiction from his other opinion. And therefore those few, fo called by elder times, might be the best of Pagans; suffering that name rather, in relat on to the gods of the Gentiles, than the true Creator of all. A conceit that cannot befal his greatest Enemy, or him that would induce the fame in us; who hath a fensible apprehension hereof: for he believeth with trembling. To speak yet more strictly, and conformably unto feme opinions, No creature can wish thus much; nor can the Will which ha ha power to run into velleties, and withes of impossibilities, have any utinam of this. For, to defire there were no God,

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were plainly to unwish their own Being; which must needs be annihilated in the subtraction of that Essence, which substantially supported them, and restrains them from regression into nothing. And if, as fome contend, no Creature can defire his own annihilation, that Nothing is not appetible, and, Not to be at all, is worse than to be in the miserableft condition of Some thing; the Dev I himfelf could not embrace that motion, nor would the enemy of God be freed by fuch a Redemption.

But coldly thriving in this defign, as being repulfed by the principles of bumanity, and the Dictates of that production, which cannot deny its original, he fetcheth a wider Circle; and, when he cannot make men conceive there is no God at all, he endeavours to make them believe, there is not One, but Many : wherein he hath been so successful with common heads, that he had led their belief thorow all the works

of Na ure.

Now in this latter attempt, the subtilty of his circumvention, hath indirectly obtained the former For although the op nion, There be many gods, may feem an accels in Religion, and fuch as cannot at all confill with Atheifm, yet doth it deductively and upon inference include the fame: for unity is the inseparable and essential Attribute of Deity; and if there be more than one God, it is no Atheism to say, there is no God at all. And herein, though Socrates only suffered for it, yet were Plato and Aristotle guilty of the same truth; who demonstratively understan- *Areopagus ding the simplicity of perfection, and the indivisible condition of the Court of Areopagus first Cansator, it was not in the power of Earth, or * Areopagy of Hell thens. to work them from it. For holding an & Apodictical knowledg, and & Demonstraaffured science of its verity, to perswade their apprehensions unto a plu-tive. rality of gods in the world, were to make Euclid believe there were more than one Center in a Circle, or one right-Angle in a Triangle; which were indeed a frui less attempt, and inferreth absurdities beyond the evasion of Hell. For though Mechanick and vulgar heads ascend not unto fuch comprehensions, who live not commonly unto half the advantage of their Principles; yet did they not escape the eye of wifer Minerva's, and fuch as made good the genealogies of Jupiters brains; who although they had divers flyles for God, yet under many appellations acknowledged one Divinity rather conceiving thereby the evidence or acts of his power in feveral wayes and places, than a multiplication of Effence, or real diffraction of unity in any one.

Again, To render our errors more Monstrous (and what unto miracle fets forth the patience of God,) he hath endeavoured to make the world believe, that he was God himfelf; and failing of his first attempt to be but like the highest in Heaven, he hath obtained with men to be the same on Earth. And hath accordingly assumed the annexes of D vinity, and the prerogatives of the Creator, drawing into practife the operation of Miracles, and the prescience of things to come.

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Thus hath he in a specious way wrought cures upon the sick, played over the wondrous acts of Prophets, and counterfeited many miracles of Christ and his Apostles. Thus hath he openly contended with God; and to this effect his infolency was not ashamed to play a folemn prize with Mofes; wherein although his performance were very specious, and beyond the common apprehension of any power below a Deity, yet was it not such as could make good his Omnipotency. For he was wholly confounded in the conversion of dust into lice. An act, Philosophy can fcarce deny to be above the power of Nature, nor, upon a requifite predisposition, beyond the efficacy of the Sun. Wherein notwithstanding, the head of the old Serpent was confessed to be too weak for Moses hand.

he hath the key of Life and Death, and a prerogative above that principle which makes no regression from privations. The Stoicks that opini-

and the arm of his Magicians too short for the finger of God. Thus hath he also made men believe that he can raise the dead; that

oned that the fouls of wife men dwelt above the Moon, and those of fools wandred about the Earth, advantaged the conceit of this effect; wherein the Epicureans, who held that death was nothing, nor nothing after death, must contradict their principles to be deceived. Nor could the Pythagoreans, or fuch as maintained the transmigration of Souls, give easie admittance hereto: for holding that separated souls, successively The fur fupplied other bodies, they could hardly allow the raising of fouls from thors opinion other Worlds, which, at the fame time, they conceived conjoyned unto touching Ne bodies in this. More inconfistent with these opinions, is the error of cromancy & Christians, who holding the dead to rest in the Lord, do yet believe they apparitions of are at the lure of the Devil; that he who is in bonds himself commandthe spirits of eth the setters of the Dead, and, dwelling in the bottomless lake, the blessed men depart- from abrahams bosom, that can believe the real resurrection of Samu-

* Divination el: or that there is any thing but delufion, in the practife of * Necromanby the dead. cy and popular conception of Ghosts.

He hath moreover endeavoured the opinion of Deity, by the delution of dreams, and the discovery of things to come in sleep, above the prescience of our waked senses. In this expectation, he perswaded the credulity of elder times to take up their lodging before his Temple, in skins of their own facrifices: till his refervedness had contrived answers, whose accomplishments were in his power, or not beyond his presage-Which way, although it hath pleased Almighty God, sometimes to reveal himself, yet was the proceeding very different. For the revelations of heaven are conveied by new impressions, and the immediate il-How the de- lumination of the foul, whereas the deceiving Spirit, by concitation of huvil works his mours, produceth his conceited phantalms, or by compounding the specipretended re- es already refiding, doth make up words which mentally speak his inten-

predictions. tions.

But above all, he most advanceth his Deity in the solemn practise of Oracles,

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Oracles, wherein, in feveral parts of the World, he publickly professed his divinity; but how short they flew of that Spirit, whose consistence they would resemble, their weakness sufficiently declared, What juggling there was therein, the * Orator plainly confessed, who being good at the same Demosiblenes. game himfelf, could fay, that Pythia Philippized. Who can but laugh at the carriage of Hammon unto Alexander, who addressing unto him as God, was made to believe, he was a God himfelf: How openly did he betray his Indivinity unto Crafus, who being ruined by his Amphibology, and expostulating with him, for so ungrateful a deceit; received no higher answer, than the excuse of his impotency upon the contradiction of Fate, and the settled Law of Powers, beyond his power to controle! What more than fublunary directions, or fuch as might proceed from the Oracle of human reason, was in his advice unto the Spartans, in the time of a great Plague; when for the ceffation thereof, he wisht them to have recourse unto a Fawn, that is in open terms, unto one Nebrus, a good Phyfician of those days: From no Diviner a Spirit came his reply unto Cara-Greek, calla, who requiring a remedy for his Gout, received no other counsel Fawn. than to refrain cold drink; which was but a dietetical caution, and fuch as without a journey unto Esculapius, culinary prescription, and kitchin Aphorisms might have afforded at home. Nor surely if any truth there were therein, of more than natural activity was his counsel unto Democrates; when for the falling fickness he commended the Maggot in a Goats head. For, many things fecret are true; Sympathies and Antipathies are fafely Authentick unto us, who ignorant of their Causes, may yet acknowledg their effects. Beside, being a natural Magician he may perform many acts in wayes above our knowledg, though not transcending our natural power, when our knowledg shall direct it. Part hereof hath been difcovered by himself, and some by human indagation: which though magnified as fresh inventions unto us, are stale unto his cognition. I hardly believe, he hath from elder times unknown the verticity of the Loaditone; furely his perspicacity discerned it to respect the North, when ours beheld it indeterminately. Many Secrets there are in Nature of difficult discovery unto man, of easie knowledg unto Satan; wherein, fome, his vain glory cannot conceal, others, his envy will not discover. Again, such is the mystery of his delusion, that although he labour to make us believe that he is God, and supreamest Nature whatsoever, yet would he also perswade our beliefs, that he is less than Angels or Men; and his condition not only subjected unto rational powers, but the actions of things which have no efficacy on our felves. Thus hath he inveigled no small part of the World into a credulity of artificial Magick : that there is an Art, which without compact commandeth the powers of Hell; whence some have delivered the polity of Spirits, and left an account even to their Provincial Dominions, that they fland in awe of Charms, Spells, and Conjurations; that he is affraid of Letters and Characters,

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of notes and dashes, which set together do signific nothing; and not only in the dictionary of Man, but the fubtiler vocabulary of Satan. That there is any power in Bitumen, Pitch, or Brimstone, to purishe the

S. Folins-Wort air from his uncleannels; that any vertue there is in Hypericon, to make to called by good the name of fuga Damonis; any fuch Magick as is ascribed unto Magicians 3. the Root Baaras by fofephus, or to Cynospastus by Elianus, it is not easie Friangles in to believe: Nor is it naturally made out, what is delivered of Tobias, made of five that by the fume of a fishe's liver, he put to flight Asmodeus. That they are affraid of the pentangle of Solomon, though fo fet-forth with the

Implying body of man, as to touch and point out the five places wherein our Sa-Jehova, which viour was wounded, I know not how to affent. If perhaps he hath fled Hebrew from holy Water, if he cares not to hear the found of * Tetragrammaton, confisheth of if his eye delight not in the sign of the Cross, and that sometimes he will feem to be charmed with words of holy Scripture, and to fly from

the letter and dead verbality, who must only start at the life and animated interiors thereof: It may be fear'd they are but Parthian flights, Ambuscado retreats, and elusory tergiversations: Whereby to confirm our credulities, he will comply with the opinion of fuch powers, which in themselves have no activities, whereof having once begot in our minds an affured dependance, he makes us rely on powers, which he but precariously obeys; and to defert those true and only charms which Hell

cannot withstand.

Lastly, To lead us farther into darkness, and quite to lose us in this maze of Error, he would make men believe, there is no fuch creature as himself: and that he is not onely subject unto inferiour creatures, but in the rank of nothing. Infinuating into mens minds there is no Devil at all, and contriveth accordingly, many wayes to conceal, or indubitate his existency. Wherein, beside that he annihilates the blessed Angels and Spirits in the rank of his Creation; he begets a fecurity of himfelf, and a careless eye unto the last remunerations. And therefore hereto he inveigleth, not only Sadduces, and fuch as retain unto the Church of God: but is also content that Epicurus, Democritus, or any Heathen should hold the same. And to this effect, he maketh men believe, that Apparitions, and fuch as confirm his existence, are either deceptions of fight, or melancholy depravements of phancy. Thus when he had not only appeared, but spake unto Brutus, Cassius the Epicurean was ready at hand to perswade him, it was but a mistake in his weary imagination, and that indeed there were no fuch realities in Nature. Thus he endeavours to propagate the unbelief of Witches, whose concession inferrs his co-existency; by this means also he advanceth the opinion of total death, and flaggereth the Immortality of the Soul : for, fuch as deny there are Spirits subsistent without bodies, will with more difficulty affirm the separated Existence of their own.

Now to induce and bring about these falsities, he hath laboured to de-

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ftory the evidence of Truth, that is, the revealed verity and written Word of God. To which intent, he hath obtained with some to repudiate the Books of Moses; others, those of the Prophets; and some, both to deny the Gospel and authentick Histories of Christ; to reject that of John, and receive that of Judas; to disallow all, and erect another of Thomas. And when neither their corruption by Valentinus, and Arius, their mutilation by Marcion, Manes, and Ebion could satisfie his design, he attempted the ruine and total destruction thereof; as he sedulously endeavoured, by the power and subtilty of Julian, Maximinus, and Disclesian.

But the longevity of that Piece, which hath fo long escaped the common fate, and the providence of that Spirit which ever waketh over it, may at last discourage such attempts; and, if not make doubtful its Mortality, at least indubitably declare; This is a stone too big for Saturns

mouth, and a bit indeed Oblivion cannot swallow.

And thus how strangely he possesseth us with Errors, may clearly be observed; deluding us into contradictory and inconsistent fassities; whilest he would make us believe, That there is no God. That there are many. That he himself is God. That he is less than Angels or Men.

That he is nothing at all,

Nor hath he only by these wiles depraved the conception of the Creator, but with fuch Riddles hath also entangled the Nature of our Redeemer. Some denying his Humanity, and that he was one of the Angels, as Ebion; that the Father and Son were but one person, as Sabellins. That his body was phantastical, as Manes, Basilides, Priscilian, Jovinianus; that he only passed through Mary, as Vtyches and Valentinus. Some denying his Divinity; that he was begotten of human principles, and the seminal Son of Foseph; as Carpocras, Symmachus, Phot nus. That he was Seth the Son of Adam, as the Sethians. That he was less then Angels as Cerinthus. That he was inferiour unto Melchifedeck, as Theodotus. That he was not God, but God dwelt in him, as Nicolaus. And some embroyling them both. So did they which converted the Trinity into a quaternity, and affirmed two persons in Christ, as Paulus Samofarenus; that held he was Man without a Soul, and that the Word performed that office in him, as Apollinaris. That he was both Son and Father, as Montanus. That Fefus suffered, but Christ remained impatible, as Cerinthus. Thus he endeavours to entangle Truths: And when he cannot possibly destroy its substance, he cunningly confounds its apprehenfions; that from the inconfiftent and contrary determinations thereof, confectary impieties, and hopeful conclusions may arise, There's no luch thing at all.

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CHAP. XI.

A further Illustration.

Ow although these wayes of delusion, most Christians have escaped; yet are there many other whereunto we are daily betrayed, and these we meet with in obvious occurrents of the World, wherein he induceth us, to ascribe effects unto causes of no cognation; and distorting the order and theory of Causes Perpendicular to their effects, he draws them aside unto things whereto they run parallel, and, in their proper

motions, would never meet together.

Thus doth he fometime delude us in the conceits of Starrs and Meteors, befide their allowable actions afcribing effects thereunto of independing causations. Thus hath he also made the ignorant fort believe, that natural effects immediately and commonly proceed from supernatural Powers: and these he usually drives from Heaven, his own principality, the air and Meteors therein; which being, of themselves, the effects of natural and created causes, and such as upon a due conjunction of actives and passives, without a miracle must arise unto what they appear, are alwaies looked on by ignorant spectators, as supernatural spectacles, and made the causes or signs of most succeeding contingencies. To behold a Rain-bow in the night, is no prodigy unto a Philosopher. Than Eclipses of Sun, or Moon; nothing is more natural. Yet with what superstition they have been beheld since the Tragedy of Niceas and his Army, many examples declare.

True it is, and we will not deny, that, although these being natural productions from second and setled causes, we need not alway look upon them as the immediate hand of God, or of his Ministring Spirits; yet do they sometimes admit a respect therein, and even in their naturals, the indifferency of their existences contemporised unto our actions, admits

a farther confideration.

That two or three Suns or Moons appear in any mans life or reign, it is not worth the wonder. But that the same should fall out at a remarkable time, or point of some decisive action; that the contingency of the appearance should be confined unto that time; that those, who should but make one line in the Book of Fate, stand together in the great Ephemerides of God; beside the Philosophical assignment of the Cause, it may admit a Christian apprehension in the signality.

But above all, he deceiveth us, when we afcribe the effects of things unto evident and feeming causalities, which arise from the secret and undiscerned action of himself. Thus hath he deluded many Nations in his Augurial and Excispicious inventions; from casual and uncontrived contingencies divining events succeeding Which Tuscan superstition seising upon Rome,

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hath since possessed all Europe. When Augustus found two galls in his sacrifice, the credulity of the City concluded a hope of Peace with Anthony; and the conjunction of persons in choler with each other, Because Brurus and Cassius met a Blackmore, and Pompey had on a dark or sad-coloured Garment at Phar (alia; these were presages of their overthrow. Which notwithstanding, are scarce Rhetorical sequels; concluding Metaphors from Realities, and from conceptions Metaphorical inferring Realities again.

Now these Divinations concerning Events, being in his power to force, contrive, prevent, or further; they must generally fall out conformably unto his predictions. When Graceus was flain, the fame day the Chickens refused to come out of the Coop: and Claudius Pulcher underwent the like fuccels, when he contemned the Tripudiary Augurations: They died, not because the Pullets would not feed, but, because the Devil fore. faw their Death, he contrived that abstinence in them. So, was there no natural dependence of the event upon the fign, but an artificial contrivance of the fign unto the event. An unexpected way of Delufion, and whereby he more eafily led away the incircumfpection of their belief. Which fallacy, he might excellently have acted before the death of Saul; for, that being within his power to foretel, was not beyond his ability to foreshow: and might have contrived signs thereof through all the creatures, which visibly confirmed by the event, had proved Authentick un-

to those times, and advanced the Art ever after.

He deludeth us also by Philters, Ligatures, Charms, ungrounded Amu- The danger lets, Characters, and many superstitious waies in the cure of common distant is in eases: Seconding herein the expectation of men with events of his own cures contriving. Which while some unwil ing to fall directly upon Magick, Charms, Amu impute unto the power of imagination, or the efficacy of hidden causes lets, Ligatures he obtains a bloody advantage : for thereby he begets not only a falle Characters, opinion, but fuch as leadeth the open way to destruction. In maladies admitting natural reliefs, making men rely on remedies, neither of real Operation in themselves, nor more than seeming efficacy in his concurrence Which, whenfoever he pleafeth to withdraw, they stand naked unto the mischief of their diseases; and revenge the contempt of the Medicines of the Earth, which God hath created for them. And therefore when neither Miracle is expected, nor connection of cause unto Effect from Natural grounds concluded; however, it be sometime successful, it cannot be safe to rely on such practises, and desert the known and Authentick provisions of God. In which rank of remedies, if nothing in our knowledg, or their proper power be able to relieve us, we must with patience submit unto that restraint, and expect the will of the Restrainer.

Now in these effects, although he seem oft times to imitate, yet doth he concurr unto their productions in a different way from that spirit which fometime in natural means produceth effects above Nature. For whether he worketh by causes which have relation, or none, unto the effect, he

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maketh it out by fecret and undifferened wayes of Nature. So when Cains the blind, in the reign of Antonians, was commanded to pass from the right side of the Altar unto the lest, to lay sive singers of one hand thereon, and sive of the other upon his eyes; although the cure succeeded and all the people wondred, there was not any thing in the action which did produce it, nor any thing in his power that could enable it thereunto. So for the same infirmity, when Aper was counselled by him to make a collyrium, or ocular medicine, with the blood of a white Cock, and honey, and apply it to his eyes for three dayes: When Julian for his spitting of blood, was cured by honey, and pine-Nuts taken from his Altar: When Lucius for the pain of his side, applied thereto the Ashes from his Altar with Wine: although the remedies were somewhat rational, and not without a natural vertue unto such intentions, yet need we not believe, that by their proper faculties, they produced these effects.

But the effects of Powers Divine flow from another operation; who either proceeding by visible means or not, unto visible effects, is able to conjoyn them by his co-operation. And therefore those sensible wayes which feem of indifferent natures, are not idle Ceremonies, but may be causes by his command, and arise unto productions beyond their regular activities. If Naaman the Syrian had washed in fordan without the command of the Prophet, I believe he had been cleanfed by them no more than by the waters of Damascus. I doubt, if any beside Elisba had cast in falt, the waters of Fericho had not been made wholesom. I know that . a decoction of wild Gourd or Colocynthis (though fomewhat qualified) will not from every hand be dulcified unto aliment by an addition of flower or meal There was some natural vertue in the Plaster of Figs applied unto Ezechias; we find that gall is very mundificative, and was a proper medicine to clear the eyes of Tobit: which carrying in themselves fome action of their own, they were additionally promoted by that power, which can extend their natures unto the production of effects beyond their created efficiences. And thus may he operate also from causes of no power unto their visible effects; for he that hath determined their actions unto certain effects, hath not so emptied his own, but that he can make them effectual unto any other.

Again, Although his delusions run highest in points of Practice, whose errors draw on offensive, or penal enormities; yet doth he also deal in points of Speculation, and things whose knowledg terminates in themselves. Whose cognition, although it seems indifferent, and therefore its aberration directly to condemn no man; yet doth he hereby preparatively dispose us unto errors, and deductively deject us into destructive

That the Sun, Moon, and Stars are living Creatures, endued with Soul and Life, feems an innocent Error, and an harmless digression from

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fruth; yet hereby he confirmed their Idolatry, and made it more plaufibly embraced. For wifely miltrusting that reasonable spirits would never firmly be lost in the adorement of things inanimate, and in the lowest form of Nature; he begat an Opinion, that they were living Creatures, and could not decay for ever.

That Spirits are corporeal, feems at first view but a conceit derogative unto himself, and such as he should rather labour to overthrow; yet hereby he establisheth the Doctrine of Lustrations, Amulets, and Charmes,

as we have declared before.

That there are two Principles of all things, one good, and another evil; from the one proceeding Vertue, Love, Light and Unity; from the other Division, Discord, Darkness and Deformity, was the speculation of Pythagoras, Empedocles, and many ancient Philosophers, and was no more than Oromasse and Arimanius, of Zoroaster. Yet hereby he obtained the advantage of Adoration, and as the terrible Principle became more dreadful than his Maker; and therefore not willing to let it fall, he furthered the conceit in succeeding Ages, and raised the Faction of Manes to maintain it.

That the Feminine Sex have no generative emission, affording no Seminal Principles of Conception, was Aristotles Opinion of old, maintained still by some, and will be countenanced by himfor ever. For hereby, he disparageth the fruit of the Virgin, scultrateth the fundamental Prophese, nor can the Seed of the Woman then break the head of the

Serpent.

Nor doth he only sport in speculative Errors, which are of consequent impieties; but the unquietness of his Malice hunts after simple lapses, and fuch, whose falsities do only condemn our understandings. Thus if Xenophanes will fay, There is another World in the Moon; If Heraclitus with his adherents will hold the Sun is no bigger than it appeareth; If Anaxagor as affirm, that Snow is black; If any other, opinion there are no Antipodes, Or that Stars do fall, he shall not want herein the applause or advocacy of Satan. For, maligning the tranquillity of truth, he delighteth to trouble its streams; and being a professed Enemy unto God (who is truth it felf) he promoteth any Error as derogatory to his nature; and revengeth himself in every difformity from Truth. If therefore at any time he speak or practise Truth, it is upon design, and a subtile inversion of the Precept of God, to do good, that evil may come of it, And therefore sometimes we meet with wholesom Doctrines from Hell : Nosse teipfum, the Motto of Delphos, was a good precept in Morality : That a just man is beloved of the gods, an uncontroulable verity. Twas a good deed, though not well done which he wrought by Vefpasian, when by the touch of his foot he reftored a lame man, and by the stroke of his hand another that was blind but the intention hereof drived at his own advantage; for hereby he not only confirmed the opinion of his power, with the the prople, but his integrity with Princes; in whose power he knew it lay to overthrow his Oracles, and silence the practice of his delusion.

But of such a dissused nature, and so large is the Empire of Truth, that it hath Place within the walls of Hell, and the Devils themselves are daily forced to practise it; not only as being true themselves in a Metaphysical verity, that is, as having their essence conformable unto the Intellect of their Maker, but making use of Moral and Logical verities; that is, whether in the conformity of words unto things, or things unto their own conceptions, they practise truth in common among themselves. For although with a result of the conformity of words unto things, or things unto their own conceptions, they practise truth in common among themselves.

How spi-though without speech, they intuitively conceive each other, yet do their under apprehensions proceed through realities; and they conceive each other nother.

And so also in Moral verities, although they deceive us, they lie rot uno each other; as well understanding that all community is continued by

Truth, and that of Hell cannot confift without it.

To come yet nearer the point, and draw into a sharper Angle; They do not only speak and practife truth, but they be sad, well-wishers hereunto, and in some sense do really desire its enlargement. For many things which in themselves are sale, they do desire were true; He cannot but wish he were as he prosessed, That he had the knowledg of suture Events; were it in his Power, the Jews should be in the right, and the Messias yet to come. Could his desires effect it, the opinion of Aristotle should be true the world should have no end, but be as immortal as himself. For thereby he might evade the accomplishment of those assistanted in he now but gradually endureth; for comparatively unto those stames, he is but yet in Balneo; then begins his Ignis Rota, and terrible sire, which will determine his disputed subtilty, and hazard his immortality.

But to peak strictly, he is in these wishes no promoter of verity, but

But to peak strictly, he is in these wishes no promoter of verity, but if considered some wayes injurious unto Truth, for (besides that, if things were true which now are falle, it were but an exchange of their natures, and things must then be falle, which now are true) the settled and determined order of the world would be perverted, and that course of things disturbed, which seemed best to the immutable Contriver. For whilest they must mure against the present disposure of things, regulating determinated realities unto their private optations, they rest not in their established natures; but unwishing their unalterable verities, do tacitely desire in them a dissormity from the primitive rule, and the Idea of that Minde the that formed all things best. And thus he offended truth in his sirst attempt; For not content with his created nature, and thinking it too low to be the highest Creature of God, he offended the Ordainer, not only in the attempt, but in the wish and simple volition thereof.

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THE SECOND BOOK:

Of Sundry popular Tenets concerning Mineral, and Vegetable bodies, generally held for truth; which examined, prove either false, or dubious.

CHAP. I. Of Crystal.

Freof the common Opinion hath been, and still remaineth amongst us, that Crystal is nothing else, but Ice, or Snow concreted, and, by duration of time, congealed beyond liquation. Of which affertion, if prescription of time, and numerosity of Affertors, were a sufficient demonstration, we might sit down herein, as an upquestionable Truth; nor should there need ulterior disquisition, For few opinions there are, which have found fo many friends, or been fo popularly received, through all Professions and Ages. Pling is positive in this Opinion: Crystallus fit gelu vehementius concreto: the same is followed by Seneca, elegantly described by Claudian, not denied by Scaiger, some way affirmed by Albertus, Brasavolus, and directly by many others. The venerable Pathers of the Church have also affented hereto; As B fil in his Hexameron, Isidore in his Etymologies; and not onely Aufin a Latine Father, but Gregory the Great, and Ferom upon occasion of that term expressed in the first of Ezekiel.

All which notwithstanding, upon a strict enquiry, we find the matter controvertible, and with much more reason denied than is as yet affirmed. fial is not Ice or Snow con-For, though many have passed it over with easie affirmatives; yet are gealed, there also many Authors that deny it, and the exactest Mineralogists have rejected it. Diodorus, in his Eleventh Book denieth it, (if Crystal be there taken in its proper acception, as Rhodiginus hath used it, and not for a Diamond, as Salmafins hath expounded it) for in that place he affirmeth; Crystalium effe lapidem ex agua pura concretum, non tamen frigore sed divini caloris vi. Solinus who transcribed Pliny, and therefore in almost all subscribed unto him, hath in this point differted from him. Putant quidam glaciem coire, & in Cryftallism

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Crystallum corporari, sed frustra. Mathiolus in his Comment upon Dioscorides, hath with confidence rejected it. The same hath been performed by Agricola, de natura fossi ium; by Cardan, Bætius de Eoot, Casius,

Bernardus, Sennertus, and many more.

Now besides Authority against it, there may be many reasons deduced from their several differences, which seem to overthrow it. And first, a difference is probable in their concretion, For, if Crystal be a stone (as in the number thereof it is confessedly received) it is not immediatly concreted by the efficacy of cold, but rather by a Mineral spirit, and Lapidifical principles of its own, and therefore while it lay in folutis principiis, and remained in a fluid bidy, it was a fubject very unapt for proper conglaciation; for Mineral Spirits do generally refift and scarce submit thereto. So we observe, that many waters and springs will never freez, and many parts in Rivers and Lakes, where are Mineral eruptions, will still perfist without congelations, as we also observe in Aqua fortis, or any Mineral folution, either of Vitriol, Alom, Salt-peter, Ammoniac or Tartar; which although to some degree exhaled, and placed in cold confervatories, will Crystalize and shoot into white and glacious bodies; yet is not this a congelation primarily effected by cold, but an intrinfecal induration from themselves; and a retreat into their proper folidities, which were absorbed by the liquor, and lost in a full imbibition thereof before. And so also when Wood and many other bodies do petrifie, either by the sea, other Waters, or Earths abounding in fuch spirits; we do not usually ascribe their induration to cold, but rather unto salinous spirits, concretive juices, and causes circumjacent, which do assimilate all bodies not indisposed for their impressions.

But Ice is water congealed by the frigidity of the air; whereby it acquireth no new form, but rather a confittence or determination of its diffluency, and amitteth not its effence, but condition of fluidity. Neither doth there any thing properly conglaciate but water, or watery humidity; for the determination of quick-filver, is properly fixation, that of milk, coagulation and that of oyl and unctuous bodies, only incraffation; And therefore Aciffotle makes a tryal of the fertility of human feed, from the experiment of congelation; for That, faith he, which is not watery and improlifical will not conglaciate; which perhaps must not be taken strictly, but in the germ and spirited particles: for Eggs 1 observe will freez, in the albuginous part thereof. And upon this ground Paraselfus in his Archidoxis, extracteth the magistery of Wine; after four months digestion in horse-dung, exposing it unto the extremity of cold; whereby the aqueous pares will freeze, but the Spirit retire and be found uncongealed

in the Cen er.

But whether this congelation be simply made by cold, or also by cooperation of any nitrous coagulum, or spirit of Salt the principle of concretion; (whereby we observe, that Ice may be made with Salt and Snow,) K. II.

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by the fire-fide; as is also observable from Ice made by Salt-peter and Water duly mixed and itrongly agitated at any time of the year) were a How to make very considerable enquiry. For, thereby we might cleer the generation Ice at any of Snow, Hail, and Hoary Frosts, the piercing qualities of some winds, time of the the coldness of Caverns and some Cel s. We might more sensibly conceive year. how Salt-peter fixeth the flying Spirits of Minerals in Chymical preparations; and how by this congealing quality it becomes an useful Medicine in Feavers.

Again, The difference of their concretion is collectible from their diffolution; which being many wayes performable in Ice, is few wayes effected in Crystal. Now the causes of liquation are contrary to those of concretion; and as the Atoms and indivisible parcels are united, so are they in an opposite way disjoyned. That which is concreted by exsiccation, or expression of humidity, will be resolved by humectation, as Earth, Dirt, and Clay; that which is coagulated by a fiery ficcity, will suffer colliquation from an aqueous humidity, as Salt and Sugar, which are eafily diffoluble in water, but not without difficulty in oyl; and well rectified spirits of wine. That which is concreted by cold, will diffolve by a moith heat, if it confift of watery parts, as Gums Arabick, Tragacanth, Ammoniack and others; in an airie heat or oyl, as all refinous bodies, Turpentine, Pitch and Frankincense; in both, as gummy refinous bodies, Mastick, Camphire, and Storax; in neither, as neutrals and bodies anamolous hereto, as Bdellium, Myrrhe, and others. Some by a violent dry heat, as Mettals; which although corrodible by waters, yet will they not fuffer a liquation from the powerfullest heat, communicable unto that Element, Some will dissolve by this heat al hough their ingredients be Earthy, as Glass, whose materials are fine Sand, and the ashes of Chali or Fearn : and so will Salt run with fire, although it be concreted by heat. And this way may be effected a liquation in Crystal, but not without some difficulty; that is calcination or reducing it by Art into a fubtle Powder; by which way, and a vitrous commixture, Glasses are sometimes made here nal ingrediof, and it becomes the chiefest ground for artificial and factitious gemms. ents of glass. But the same way of folution is common also unto many Stones; and not only Berylls and Cornelians, but Flints and Pebbles, are subject unto fufion, and will run like Glass in fire.

But Ice will dissolve in any way of heat; for it will dissolve with fire; it will colliquate in water, or warm oyl; nor doth it only submit unto an actual heat, but not endure the potential calidity of many waters. For it will presently dissolve in cold Aqua fortis, spirit of Vittiol, Salt, or Tartar, nor will it long continue its fixation in spirits of Wine, as may be obser-

ved in Ice injected therein.

Again, the concretion of Ice will not endure a dry attrition without liquation; for if it be rubbed long with a cloth, it melteth. But Crystal will calefie unto electricity; that is, a power to attract ftraws or leight bodies

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bodies, and convert the Needle freely placed. Which is a declarement of very different parts: wherein we shall not inlarge, as having discoursed

concerning fuch bodies in the Chap. of Electricks.

They are differenced by supernatation or floating upon water; for Crystal will fink in water, as carrying in its own bulk a greater ponderofity, than the space in any water it doth occupy; and will therefore only swim in molten metal and quickfilver. But Ice will svim in water of what thinnels foever; and though it fink in oyl, will float in spirits of wine and Aqua vita. And therefore it may fwim in water, not only as being water it felf, and in its proper place, but perhaps as weighing somewhat less than the water it poffeffeth. And therefore, asit will no: fink unto the bottom, fo will it neither float above like I ghter bodies, but being near in weight, lie superficially or almost Horizontally unto it. And therefore also an Ice or congelation of Salt or Sugar, although it descend not unto the bottom, yet will it abate, and decline below the furface in thin water, but very fensible in spirits of wine. For, Ice although it seemeth as transparent and compact as Crystal, yet is it short in either; for its Atoms are not concreted into continuity, which doth diminish its translucency; it is also full of spumes and bubbles, which may abate its gravity. And therefore waters frozen in pans, and open glaffes, after their diffolution do commonly leave a froth and spume upon them; which are caused by the airy parts diffused in the congealable mixture : which uniting themselves and finding no passage at the surface, do elevate the mals, and make the liquor take up a greater place than before: as may be observed in glasses filled with water, which being frozen, will seem to swell above the brim. So that if in this condensation any one affirmeth there is also some rarefaction, experience may affert it.

They are distinguished in substance of parts and the accidents thereof, that is, in colour and figure; for Ice is a similary body, and homogeneous concretion, whose material is properly water, and but accidentally exceeding the simplicity of that element. But the body of Crystal is mixed; its ingredients many, and fensibly containeth those principles into which mixt bodies are reduced. For, beside the spirit, and mercurial principle it containeth a fulphur, or inflamable part, and that in no small quantity; for besides its Electrick attraction, which is made by a sulphureous effluvium, it will ftrike fire upon percussion like many other stones; and upon collision with steel actively fend forth its sparks, not much inferiourly unto a flint. Now, such bodies as strike fire have sulphureous or ignitible parts within them and those strike belt, which abound most in them. For, these scintillations are not the accension of the ayr, upon the collifion of two hard bodies, but rather, the inflamable effluencies discharged from the bodies collided. For, Diamonds, Marbles, Heliotropes and Agachs, though hard bodies, will not read ly strike fire with a steel, much less with one another: Nor a flint fo readily with a fleel, if they both be very wet,

for then the sparks are sometimes quenched in their eruption.

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It containeth also a Salt, and that in some plenty, which may occasion its fragility, as is also observable in Coral. This, by the art of Chymistry is separable, unto the operations whereof it is liable, with other concretions, as Calcination, Reverberation, Sublimation, Distillation: And in the preparation of Crystal, Paracellus hath made a rule for that of Gemms. Briefly, it confisteth of parts de praparatiofo far from an Icie diffolution, that powerful menstruums are nibus. made for its emollition; whereby it may receive the tincture of minerals, and so resemble Gemms, as Boctius hath declared in the distillation of Urine, spirits of Wine and Turpentine; and is not only triturable, and reduceable into powder, by contrition, but will subsist in a violent fire, and endure a vitrification. Whereby are testified its earthy and fixed parts. For vitrification is the last work of fire, and a fusion of the falt and earth: which are the fixed Elements of the composition; wherein the susible salt draws the Earth and insusible part into one continuum; and therefore afhes will not run from whence the falt is drawn, as bone-ashes prepared for the Tett of Metals. Com- The Physimon fusion in Metals is also made by a violent heat, acting upon the vo-cal causes of latile and fixed, the dry and humid parts of those bodies; which liquation, or notwithstanding are so united that upon attenuation from heat, the melting of humid parts will not flie away, but draw the fixed one into flour with Mettals, Go. them. Ordinary liquation in wax and oily bodies is made by a gentler heat, where the oyle and falt, the fixed and fluid principles, will not eafily separate. All which, whether by vitrification, fusion, or liquation, being forced into fluent confidencies, do naturally regressinto their former solidities. Whereas, the melting of Ice is a simple refolution, or return from folid, to fluid parts, wherein it naturally refteth.

As for colour, although Crystal in his pellucid body seems to have none at all, yet, in its reduction into powder, it hath a vail and shadow of blew; and, in its coarfer pieces, is of a fadder hue, than the powder of Venice-glass; and this complexion it will maintain although it long endure the fire. Which notwithstanding needs not move us unto wonder; for, vitrified and pellucid bodies, are of a clearer complexion in their continuities, than in their powders and Atomical divisions. So Stibium, or glass of Antimeny, appears somewhat red in Glass, but in its powder yellow; so painted Glass of a sanguine-red will not ascend in powder above a murrey.

As for the Figure of Crystal (which is very strange, and forced Plinie to Despair of Resolution) it is for the most part Hexagonal, or Six-cornered; being built upon a confused matter, from whence, as it were from a Root, Angular figures arise, even as in the Amethyst and Basaltes. Which regular Figuration hath made fome to opinion, that it hath not its determination

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the figure of that part feems not to co-operate thereto. So the Alberia or lapis stellaris hath on it the Figure of a Star; so Lapis Indaicus hath circular lines in length all down its bodie, and equidiffant, as though they had been turned by Art. So, that we call a Fayrie-stone, and is often In stone-pits, found in gravel pits amongst us, being of an Hemispherical figure, hath five double lines arifing from the Center of its Basis, which if no accretion di ract them, do commonly concurrand meet in the Pole thereof. Which feem. The figures are regular in many other stones, as in the Belemnitiee, Lapis nites decima anguinus, Cornu cimmonis, and many more, as by those which have not Aldrovandi. experience hereof, may be observed in their figures expressed by Mine-Musai Metal- ralogists. But Ice receiveth its figure according unto the surface wherein it concreteth, or the circumambiency which conformeth it. So it is plain Rather Echi-upon the Surface of Water, but round in Hayl (which is also a glaciation,) nometrites, as and figured in its guttulous descent from the Air, and so growing greater, ling the Echi or leffer according unto the accretion or pluvious aggelation about nometra the mother, and fundamental Atoms thereof; which feems to be found com- fome feathery particle of Snow; although Snow it felf be fexangular, or monly on our at least, of a Starry and many-pointed Figure. They are also differenced in the places of their generation : for though

from circumscription, or as conforming unto contiguities, but rather

from a feminal Root, and formative principle of its own, even as we ob-

ferve in feveral other concretions. So the stones which are sometime

found in the Gall of a man are most triangular, and Pyramidal, although

Crystal be found in cold Countries, and where Ice remaineth long, and the air exceedeth in cold, yet is it also found in Regions, where Ice is seldom feen, or foon diffolved, as Plinie and Agricola relate of Cypius, Caramania, and an Island in the Red-Sea; It hath been also found in the Wherein the Veins of Minerals, sometimes agglutinated unto lead, sometimes in Rocks, found a piece opacous Stones, and the Marble face of Octavius Duke of Parma. It hath of pure Cry. also constant veins, as, beside others, That of Mount Salvino about the Territory of Bergamo; from whence if part be taken in no long tract of

time out of the same place, as from its mineral Matrix, others are observ-Mus Colceolar ed to arife. Which made the learned Ceratus to conclude, Videant bi an fit glacies, an vero corpus fossile. It is also found in the veins of Minerals, in Rocks, and sometime in common Earth. But as for Ice, it will not readily concrete but in the approachment of the air, as we have made trial in glasses of Water, covered an inch with Oyl, which will not easily freez in hard frosts of our Climate. For, Water commonly concreteth first in its Surface, and fo conglaciates downwards; and fo will it do although it be exposed in the coldest Metal of Lead; which well accordeth with that expression of fob; The waters are hid as with a stone, and the face of the deep is frozen. But whether water which hath been boyled or heated, doth fooner receive this congelation, as commonly is delivered, we reft in experiment of Cabens; who hath rejected the same in his excellent difcourse of Meteors.

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They have contrary qualities Elemental, and uses Medicinal; for Ice is cold and moist of the quality of water: but Crystal is cold and dry, according to the condition of Earth. The use of Ice is condemned by most Physicians; That of Crystal commended by many. For although Diofeorides and Galen, have lest no mention thereof; yet hath Mathiolus, Agricola, and many commended it in desenteries and fluxes; all for the increase of milk; most Chymists for the stone, and some, as Brassavolus and Batins, as an antidote against Poyson. Which occult and specifical operations are not expectible from Ice; for being but Water congealed, it can never make good such qualities; nor will it reasonably admit of secret proprieties which are the affections of forms, and compositions at

distance from their Elements.

Having thus declared what Crystal is not; it may afford some satisfaction to manifest, what it is. To deliver therefore what with the judgment stal is. of approved Authors, and best reason consisteth, It is a Mineral body in the difference of Hones, and reduced by some unto that subdivision, which comprehendeth Gemms, transparent and resembling Glass or Ice, made of a lentous percolation of Earth, drawn from most pure and limpid juice thereof, owing unto the coldness of the Earth some concurrence or coadjuvancy, but not immediate determination and efficiency, which are wrought by the hand of its concretive spirit, the seeds of petrification and Gorgon of it felf. As fensible Philosophers conceive of the generation of Diamonds, Iris, Benils. Not making them of frozen icecles or from meer aqueous and glaciable lubitances, condensing them by frosts into folidities, vainly to be expected even from Polary congelations: from thin and fineit Earths, fo well contempered and refolved, that transparency is not hindred; and continuing lapidifical spirits, able to make good their folidities, against the opposition and activity of outward contraries; and fo leave a fenfible difference between the bonds of glaciation, which as the mountaines of Ice, about the Northern Seas, are eafily dissolved by an ordina y heat of the Sun; and the finer ligatures of petrification, whereby not only the harder concretions of Diamonds and Saphirs; but the fofter veins of Crystal remain indisfolvable in scorching territories, and the Negro land of Congor.

And therefore I fear we commonly consider subterranities, not in contemplations sufficiently respective unto the Creation. For, though Moses have less no mention of Minerals, nor made any other description than suits unto the apparent and visible Creation, yet is there unquestionably, a very large Classis of Creatures in the Earth, far above the condition of Elementarity. And although, not in a distinct and indisputable way of vivency, or answering in all points the properties or affections of Plants, yet in inferiour and descending constitutions, they do like these contain specifical distinctions, and are determined by seminalities, that is, created and defined seeds committed unto the Earth from the beginning. Wherein

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although they attain not the indubitable requifites of Animation, yet have they a neer affinity thereto. And though we want a proper name and expressive appellation, yet are they not to be closed up in the general name of Concretions; or lightly passed over as only Elementary and Subterraneous mixtions.

The principal and most gemmary affection is its Tralucency: as for irradiancy or sparkling, which is found in many Gems, it is not discoverable in this; for it cometh short of their compactness and durity, and therefore requireth not the Emery, as the Saphir, Granate, and Topaz, but will receive impression from Steel, in a manner like the Turchois. As for its diaphanity or perspicuity, it enjoyeth that most eminently; and the reafon thereof is, its continuity; as having its earthy and falinous parts fo exactly refolved, that its body is left imporous and not discreted by ato-

pirts a caufe and why.

Exact c n- mical terminations. For, that continuity of parts, is the cause of perspicuity, it is made perspicuous by two wayes of experiment. That is, eiof transparen ther in effecting transparency in those bodies which were not so before, cy in things; or at least far short of the additional degree : So Snow becomes transparent upon liquation; fo horns and bodies refolvable into continued parts or gelly. The like is observable in oyled-paper, wherein, the interstitiall divisions being continuated by the accession of oyl, it becometh more transparent, and admits the visible rayes with less umbrosity. Or else the same is effected by rendring those bodies opacous, which were before pellucid and perspicuous. So Glass which was before diaphanous, being by powder reduced into multiplicity of superficies, becomes an opacous body, and will not transmit the light. So it is in the Crystal powdered, and fo it is also before; for, if it be made hot in a crusible, and presently projected upon water, it will grow dimm, and abate its diaphanity; for the water, entring the body, begets a division of parts, and a termination of Atoms united before unto continuity.

The ground of this Opinion might be, first, the conclusions of some men from ex erience; forasmuch as Crystal is tound sometimes in Rocks, and in some places not much unlike the stirious or stillicidious dependencies of Ice. Which notwithstanding, may happen either in plas ces which have been forfaken, or left bare by the Earth; or may be petrifications, or Mineral indurations, like other Gemms, proceeding from

percolations of the Earth disposed unto such concretions.

The fecond and most common ground is from the name Crystallus, whereby in Greek, both Ice and Crystal are expressed; which many not duly confidering, have from their community of name, conceived a community of Nature; and what was ascribed unto the one, not unfitly appliable unto the other. But this is a fallacy of Fquivocation, from a fociety in name inferring an Identity in Nature. By this fallacy was he deceived that drank Aqua-fortis for strong water : By this are they deluded, who conceive Sperma Cæti which is found about the head, to be yet have

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the spawn of the Whale; Or take sanguis draconis (which is the gumme of a tree,) to be the blood of a Dragon. By the same Logick we may inferr, the Crystalline humour of the eye, or rather the Crystalline Heaven above, to be of the substance of Crystal here below; Or that God send, eth down Crystal, because it is delivered in the vulgar translation, Pfal. 147 Mittit Cryftallum fuum ficut Buccellas. Which translation, although it literally express the Septuagint; yet is there no more meant thereby, than what our Translation in plain English expresseth, that is, He casteth forth his Ice like morfels, or what Tremelius and Junius as clearly deliver, Dejicit gelu suum sicut frusta; coram frigore ejus quis consistet? Which proper and Latine expressions, had they been observed in ancient translations, in name. elder expositors had not been misguided by the Synonomy; nor had they afforded occasion unto Austin, the Gloss, Lyranus, and many others, to have taken up the common conceit, and spoke of this text conformably unto the opinion rejected.

Agreement

CHAP. II.

Concerning the Load-stone.

of things particularly spoken thereof, evidently or probably true. of things generally believed, or particularly delivered, manifeftly or probably false. In the first, of the Magnetical vertue of the Earth: of the four motions of the Stone, that is, its Verticity or Direction, its Attraction or Coition, its Declination, its Variation; and also of its Antiquity. In the second, a rejection of Sundry opinions and relations thereof, Natural, Medical, Historical, Magical.

A N D first we conceive the Earth to be a Magnetical body. A Magnetical body, we term not only that which hath a power at- Earth is a tractive; but that which seated in a convenient Medium, naturally dif-Magnetical poseth it self to one invariable and fixed situation. And such a Magne-body. tical vertue we conceive to be in the Globe of the earth; whereby as unto its natural points and proper terms, it disposeth it selfunto the Poles; being so framed, constituted and ordered unto these points, that those parts which are now at the Poles, would not naturally abide under the Equator; nor Green-land remain in the place of Magellanica. And if the whole earth were violently removed, yet would it not forgo its primitive points, nor pitch in the East or West; but return unto its polary position again. For though

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become the Center of the Universe, yet that it makes good that point, not varying at all by the accession of bodies upon, or secession thereof, from its furface, perturbing the equilibration of either Hemisphere (whereby the altitude of the Stars might vary) or that it Hrictly maintains the North and Southern points; that neither upon the motions of the Heavens, Air, and Winds without, large eruptions, divisions of parts within, its polary parts should never incline, or veer unto the Equator (whereby the latitude of places should also vary) it cannot so well be salved from The foun-Gravity as a Magnetical verticity. This is probably, that foundation the Barths Rabili- wifdom of the Creator hath laid unto the Earth. In this fense we may more nearly apprehend, and fenfibly make out the expressions of holy Scripture, as, Firmavit orbem terra qui non commovebitur, he hath made the round World so sure, that it cannot be moved : as when it is said by Job, Extend t siquilonem super vacuo, &. He stretcheth forth the North upon the empty place, and hangeth the earth upon Nothing. And this is the most probable answer unto that great Question, Whereupon are the foundations of the Earth fastned, or who laid the Corner-stone thereof? Had they been acquainted with this principle, Anaxagoras, Socrates, and Democritus had better made out The ground of this stability: Xenophanes had not been fain to fay, the Earth had no hottom; and Thales

thought by compactness or gravity it may acquire the lowest place, and

Milefines to make it swim in water. The Mag-

Pfal. 93.

Job 38.

Nor is the vigor of this great Body included only in its felf, or circumnetical vertue cumferenced by its surface, but diffused at indeterminate distances of the Earth through the air, water, and all bodies circumjacent. Exciting and Impregdiffuted extra nating Magnetical-bodies within its furface, or without it; and performmunicated to ing in a fecret and invisible way, what we evidently behold effected by the bodies adja. Load-stone. For these effluxions penetrate all bodies, and like the species of visible objects are ever ready in the medium, and lay hold on all bodies proportionate, or capable of their action; those bodies likewise being of a congenerous nature, do readily receive the impressions of their Motor; and if not fettered by their Gravity, conform themfelves to fituations, wherein they best unite unto their Animator. And this will fufficiently appear from the observations that are to follow, which can no better way be made out, than by this we speak of, the Magnetical vigour of the Earth. Now whether these effluviums do flye by striated Atoms and winding particles as Renatus des Cartes conceiveth; or glide by ftreams attracted from either Pole and Hemisphere of the Earth unto the Equator, as Sir Kenelm Digby excellently declareth, it takes not away this vertue of the Earth, but more distinctly sets down the gests and progress thereof; and are conceits of eminent use to salve Magnetical phanomena's. And as, in Astronomy, those hypotheses though never so Apparencies, strange, are best esteemed which best do salve Apparencies; so surely, in

oble vations. Philosophy , those principles (though seeming monstrous) may with ad-

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vantage be embraced, which best confirm experiment, and afford the readieft reason of observation. And truly the Doctrine of effluxions, their The Doctrine penetrating natures, their invilible paths, and infuspected effects, are very of effluxions confiderable; for, besides this Magnettical one of the Earth, several effu- acknowledgfions there may be from divers other bodies, which invisibly act their thor. ed by the Auparts at any time, and perhaps, through any medium; a part of Philofophy but yet in discovery, and will, I fear, prove the last leaf to be turned isquartory that extre

over in the book of Nature.

First, therefore, True it is, and confirmable by every experiment, that Steel and good Iron never excited by the Load-stone, discover in themfelves a verticity; that is, a directive or polary facultie; whereby, conveniently placed, they do Septentrionate at one extream, and Australize at another. This is manifestible in long and thin plates of Steel perfora- Point to the ted in the middle, and equilibrated; or by an easier way, in long wires North. equiponderate with untwifted filk and foft wax; for in this manner pen- Point to the dulous, they will conform themselves Meridionally, directing one ex- South. tream unto the North, another to the South. The same is also manifest in Steel-wires thrust through little Spheres or Globes of Cork and floated on the water; or in naked Needles gently let fall thereon; for so dispofed, they will not rest, until they have found out the Meridian; and as near as they can lie parallel unto the Axis of the Earth: Sometimes the eye, sometimes the point Northward in divers Needles, but the same point alwayes in most : Conforming themselves unto the whole Earth, in the same manner as they do unto every Lead-stone. For, if a Needle untoucht be hanged above a Load-stone, it will convert into a Parallel position thereto; for in this fituation it can best receive its verticity, and be excited proportionably at both extreams. Now, this Direction proceeds not primitively from themselves, but is derivative, and contracted from the Magnetical effluxions of the Earth; which they have winded in their hammering and formation; or elfe, by long continuance in one polition, as we shall declare hereafter.

It is likewife true, what is delivered of Irons heated in the fire, that they contract a verticity in their refrigeration; for heated red hot, and cooled in the Meridian from North to South, they presently contract a polary power, and being poised in air or water, convert that part into the North which respected that point in its refrigeration; so that if they had no senfible verticity before, it may be acquired by this way; or if they had any, it might be exchanged by contrary position in the cooling. For, by the fire they omit not only many droffie and scorious parts, but what soever they had received from the Earth, or Load-stone; and so being naked, and despoiled of all verticity, the Magnetical Atoms invade their bod es

with more effect and agility.

Neither is it only true, what Gilbertus first observed, that Irons refrigerated North and South, acquire a Directive faculty; but, if they be

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cooled upright and perpendicularly, they will also obtain the same. That part which is cooled toward the North on this fide the Equator, converting it felf unto the North, and attracting the South point of the Needle: the other and highest extream respecting the South, and attracting the Northern, according unto laws Magnetical: For, (what must be observed) contrary Poles or faces attract each other, as the North the South and the like decline each other, as the North the North. New, on this fide of the Equator, that extream which is next to the Earth is animared unto the North, and the contrary unto the South; so that in Coition it applies it felfe quite oppolitely, the Coition or Attraction being contrary to the Verticity or Direction. Contrary, if we fpeak according unto common use; yet alike, if we conceive the vertue of the North. Pole to diffuse it self and open at the South, and the South at the North

This polarity from refrigeration upon extremity and in defect of a Load-stone, might serve to invigorate and touch a Needle any where;

not truly.

Point to the

some con- and this, allowing variation, is also the readiest way at any season to difgeive that the cover the North or South; and furely, far more certain than what is figure of the affirmed of the grains and circles in trees, or the figure in the root of tree or spread Fern. For, if we erect a red-hot wire untill it cool, then hang it up with root of Crake wax and untwisted filk, where the lower end, and that which cooled or fern stands next the Earth doth rest, that is, the Northern-Point; and this we affirm and will still be true, whether it be cooled in the air, or extinguished in water, South; but oyl of Vitriol, Agua fortis, or Quickfilver. And this is also evidenced in culinary utenfils and Irons that often feel the force of fire, as rongs, fire-shovels, prongs, and andirons; all which acquire a Magnetical and polary condition, and being suspended, convert their lower extream unto the North; with the same attracting the Southern point of the Needle. For easier experiment; If we place a Needle touched at the foot of tongs or andirons, it will obvert or turn afide its Lillie or North-point, and conform its cuspis or South-extream unto the andiron. The like verticity though more obscurely, is also contracted by bricks and tiles, as we have made tryal in some, taken out of the backs of Chimneys. Now, to contract this Direction there needs not a total ignition, nor, is it necessary the Irons should be red-hot all over. For, if a wire be heated only at one end, according as that end is cooled upward or downward, it respectively acquires a verticity; as we have declared in wires totally candent. Nor, is it absolutely requisite they should be cooled Perpendicularly, or firstly lye in the Meridian; for, whether they be refrigerated inclinatorily, or some what Equinoxially, that is, toward the Eastern or Western points; though in a leffer Degree, they discover some Verticity.

Nor is this only true in Irons, but in the Load-stone it felf. For, if a Load-stone be made red-hot, it loseth the Magnetical vigour it had before in it felf, and acquires another from the Earth in its refrigeration;

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for that part which cooleth toward the Earth will acquire the respect of the North, and attract the Southern-point, or cuspis of the
Needle. The experiment hereof, we made in a Load-stone of a parallelogram or long-square figure; wherein only inverting the extreams,
as it came out of the fire, we altered the Poles or faces thereof at

pleafure. It is also true, what is delivered of the direction and coition of Irons, that they contract a verticity by long and continued polition that is, not only being placed from North to South, and lying in the Meridian, but respecting the Zenith and Perpendicular unto the Center of the Earth; as is most manifest in barrs of windows, casements, hindges, and the like. For, if we present the Needle unto their lower extreams, it wheels about and turns its Southern point unto them. The same condition in long time do bricks contract which are placed in walls, and it may be a fallible way to find out the Meridian, by placing the Needle on a wall; for some bricks therein by a long and continued position, are often Magnetically enabled to diffract the polarity of the Needle. And therefore those Irons, which are faid to have been converted into Load-stones; whether they were real conversions, or only attractive augmentations, might be much promoted by this polition: as the Iron crofs of anhundred weight upon

the Church of St. John in Ariminum, or that Load from d Iron of Cafar De miner. 11. 21

Moderatus, fet down by Aldrovandus.

Lastly, Irons do manifest a verticity not only upon refrigeration and constant situation, but (what is wonderful and advanceth the Magnetical hypothesis) they evidence the same by meer position according as they are inverted, and their extreams disposed respectively unto the Earth. For, if an Iron or Steel not sirmly excited, be held Perpendicularly, or Inclinatorily unto the Needle; the lower end thereof will attract the cuspis or Southern point; but if the same extream be inverted and held under the Needle, it will then attract the Lilly or Northern point; for, by inversion it changeth its direction acquired before, and receiveth a new and Southern polarity from the Earth, as being the upper extream. Now, if an Iron be touched before, it varieth not in this manner; for then it admits not this Magnetical impression as being already informed by the Load-stone, and polarly determined by its præ-action.

And from these grounds may we best determine, why the Northern Pole of the Load-tione attracteth a greater weight than the Southern on this side the Equator; why the Stone is best preserved in a Natural and Polary situation; and why, as Gilbertus observeth, it respectes that Pole out of the Earth, which it regarded in its mineral

bed and fubterraneous position.

It is likewife true and wonderful, what is delivered of the Inclination

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or Declination of the Load stone; that is, the descent of the Needle be low the plain of the Horizon. For, long Needles which stood before upon their axis, parallel unto the Horizon, being vigoriously excited, incline and bend downward; depressing the North extream below the Horizon. That is the North on this, the South on the other fide of the Equator; and at the very Line or middle Circle stand without desection. And this is evidenced, not only from observations of the Needle in feveral parts of the Earth, but fundry experiments in any part thereof; as in a long Steel-wier, equilibrated or evenly ballanced in the air; for, excited by a vigorous Loadstone, it will somewhat depress its animated extream, and interfect the Horizontal Circumference. It is also manifest in a Needle pierced through a Globe of Cork, fo cut away and pared by degrees, that it will fwim under water, yet fink not unto the bottom: which may be well affected; for if the Cork be a thought too light, to fink under the Surface, the body of the water may be attenuated with spirits of Wine: if too heavy, it may be incraffated with Salt; and if by chance too much be added, it may again be thinned by a proportionable addition of fresh water. If then the Needle be taken out, actively touched and put in again, it will depress and bow down its Northern head toward the bottom, and advance its Southern extremity toward the brim. This way invented by Gilbertus, may feem of difficulty; the same with less labour may be observed in a Needle-Sphere of Cork equally contiguous unto the Surface of the water, for if the Needle be not exactly equiponderant, that end which is a thought too light, if touched becometh eeven; that Needle also which will but just swim under water, if forcibly touched will fink deeper, and fometimes unto the bottom. If likewise that inclinatory vertue be destroyed by a touch from the contrary Pole, that end which before was elevated, will then decline; and this perhaps might be observed in some Scales, exactly ballanced; and in such Needles, which for their bulk can hardly be supported by the water. For, if they be powerfully excited, and equally let fall, they commonly fink down, and break the water at that extream whereat they were Septentrionally excited : and by this way it is conceived, there may be some fraud in the weighing of precious Commodities, and fuch as carry a value in quartergrains; by placing a powerful Loadstone above or below, according as we intend to depress or elevate one extream.

Now if this Magnetical emissions be only qualities, and the gravity of bodies incline them only unto the Earth; surely that which alone moveth other bodies to descent, carrieth not the stroke in this, but rather the Magnetical alliciency of the Earth; unto which with alacrity it applyeth it self; and, in the very same way unto the whole Earth, as it doth unto a single Loadstone. For, if an untouched Needle be at a distance suspended over a Loadstone, it will not hang parallel, but decline at the North extream, and at that part will first salute its director. Again, what

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is also wonderful, this Inclination is not invariable: for, just under the Line, the Needle lieth Parallel with the Horizon; but, failing North or South it beginneth to incline, and encreafeth according as it approacheth unto either Pole; and would at last endeavour to erect it felf. And this no more, than what it doth upon the Loadstone, and that more plainly upon the Terrella, or Spherical Magnet, Cosmographically set out with Circles of the Globe. For, at the Equator thereof, the Needle will fland Rectangularly; but, approaching Northward toward the Tropick, it will regard the Stone obliquely , and when it attaineth the Pole , directly; and, if its bulk be no impediment, erect it felf and stand Perpendicularly thereon. And therefore upon strict observation of this inclination in several Latitudes, and due Records preserved, instruments are made, whereby without the help of Sun or Star, the Latitude of the place may be discovered, and, yet it appears the observations of men, have not as yet been so just and equal as is defirable; for, of those Tables of Declination which I have perused, there are not any two that punctually agree; though some have been exactly Calculated, especially, that which Ridley received from Mr. Brigs, in our time Geometry Profesior in Ox-

It is also probable, what is delivered concerning the variation of the Compass, that is the cause and ground thereof, for the manner as being confirmed by Observation, we shall not at all dispute. The variation of the Compass is an Arch of the Horizon intercepted between the true variation of and Magnetical Meridian; or more plainly, a deflection and fiding East the compass is and West from the true Meridian. The true Meridian is a major Circle

passing through the Poles of the World, and the Zenith or Vertex of any place, exactly dividing the East from the West. Now on this Line, the Needle exactly lyeth not, but diverts and varieth its points, that is, the North point on this fide of the Equator, the South on the other; fometimes unto the East, sometime toward the West, and in some few places varieth not at all. First, therefore it is observed, that betwixt the shore of Ireland, France, Spain, Guing, and the Azores, the North Point varieth toward the East, and that in some variety; at London it varieth Eleven Degrees, at Antwerp Nine, at Rome but Five : at some parts of the Azores it deflecteth not, but lyeth in the true Meridian, on the other fide : of the Azores, and this fide of the Equator, the North point of the Needle wheeleth to the West; so that in the Latitude of 36. near the shore the variation is about Eleven Degrees; but on the other fide the Equator, it is quite otherwise: for, about Capo Frio in Brafilia, the South-point varieth Twelve Degrees unto the West, and about the Mouth of the Straits Magellan, Five or Six; but elongating from the Coast of Brafilia toward the shore of Africa it varieth Eastward, and arriving at Capo de las Agullas, it resteth in the Meridian, looketh neither way.

Now, the cause of this variation may be the inequality of the Earth,

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variously disposed, and differently intermixed with the Sea: withal, the different disposure of its Magnetical vigour in the eminences and stronger parts thereof. For, the Needle naturally endeavours to conform unto the Meridian; but being distracted, driveth that way, where the greater and powerfuller part of the Earth is placed. Which may be Ilsustrated from what hath been delivered, and may be conceived by any, that understands the generalities of Geography. For, whereas, on this fide the Meridian, or the Ifles of Azores, where the first Meridian is placed, the Needle varieth Eastward; it may be occasioned by that vast tract of Earth, that is, of Europe, Afia, and Africa leated toward the East, and disposing the needle that way. For, arriving at some part of the Azores, or Islands of St Michael, which have a middle situation between these Continents, and that vast and almost answerable Tract of America, it seemeth equally distracted by both; and diverting unto neither, doth parallel and place it self upon the true Meridian. But sayling farther it veers its Lillie to the West, and regardeth that quarter, wherein the Land is nearer or greater; and in the same Latitude, as it approacheth the shore, Augmenteth its variation. And therefore, as some observe, if Columbus or whosoever first discovered America, had apprehended the cause, of this variation; having passed more than half the way, he might have been confirmed in the discovery; and affuredly fore-told there lay a vast and mighty Continent toward the West. The reason I confess and inference is good, but the instance perhaps not so. Columbus knew not the variation of the Compais, whereof Sebastian Cabot first took notice, who after made Discoveries in the Northern parts of that Continent. And it happened indeed that part of America was fielt discovered, which was on this side farthest distant, that is, 7 amaica, Cuba, and the Isles in the Bay of Mexico. And from this variation do some new discoverers deduce a probability, in the attempts of the Northern passage toward the Indies.

The cause of Now, because where the greater Continents are joyned, the action the variation and effluence is also greater; therefore those Needles do suffer the great-of the Com-est variation which are in Countries which most do feel that action. And, therefore hath Rome far less variation than London; for on the West side of Rome, are seated the great Continents of France. Stein and Continents of Present Stein

of Rome, are seated the great Continents of Prance, Spain, and Germany, which take off the exsuperance, and in some way ballance the vigor of the Eastern parts. But unto England there is almost no Earth West, but the whole extent of Europe and Asia, lieth Eastward; and therefore at London it varieth Eleven degrees, that is almost one Rhomb. Thus also by reason of the great Continent of Brasilia, Peru, and Chili, the Needle dessected toward the land Twelve Degrees; but at the Straits of Magellan where the land is narrowed, and the Sea on the other side, it varieth but sive or six. And so likewise, because the Cape delas Agullas hath Sea on both sides near it, and other land remote, and, as it were

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aquidistant from it, therefore at that point the Needle conforms unto the true Meridian, and is not distracted by the vicinity of Adjacencies, This is the general and great cause of variation. But, if in certain creeks and valleys the Needle prove irregular, and vary beyond expectation; it may be imputed unto some vigorous part of the Earth, or Magnetical eminence not far distant. And this was the invention of D. Gilbert, not many years past, a Physician in London. And therefore although some assume the invention of its Direction, and others have had the glory of the Card; yet, in the experiments, grounds, and causes thereof, England produced the Father Philosopher, and discovered more in it, than Columbus, or Americus did ever by it.

Unto this, in great part true, the reason of Kircherus may be added: That this variation proceedeth not only from terrestrious eminences, and Magnetical veins of Earth, laterally respecting the Needle, but the different coagmentation of the Earth disposed unto the Poles, lying under the Sea and waters; which affect the Needle, with great, or lesser variation, according to the vigour or imbecillity of these Subterraneous Lines: or the entire, or broken compagination of the Magnetical Fabrick under it. As is observable from several Loadstones placed at the bottom of any water: for, a Loadstone, or Needle upon the Surface, will variously conform it self, according to the vigour or faintness of the

Loadstones under it.

Thus also, a reason may be alledged for the variation of the Variation, and why, according to observation, the variation of the Needle, hath after some years been sound to vary in some places. For, this may proceed from mutations of the Earth, by Subterraneous Fires, Fumes, Mineral Spirits, or otherwise; which altering the constitution of the Magnetical Parts, in process of time, doth vary the variation over the place.

It is also probable, what is conceived of its Antiquity, that the knowledg of its polary Power and Direction unto the North, was unknown unto the Ancients; and though Levinus Lemnius, and Calius Calcagnius, are of another belief, is justly placed with new Inventions, by Pancirellus. For, their Achilles and Brongest argument, is an expression in Plantus, a very ancient Author, and contemporary unto Ennius. His ventus jam secundus est, cape modo versoriam. Now, this ve so iam they construe to be the Compass; which notwithstanding, according unto Pineda, who hath discussed the Point, Turnebus, Cabeus, and divers others, is better interpreted, the Rope that helps to turn the ship; or as we say, doth make it Tack about; the Compass, declaring rather the Ship is turned, than conferring unto its conversion. As for the long expeditions, and sundry voyages of elder times, which might confirm the Antiquity of this Invention, it is not improbable, they were performed by the help of Starrs; and so might the Phoenician Navigators, and

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also Ulysses, sail about the Mediterranean. By the flight of birds, or keeping near the shore; and so might Hanno coast about Africa: Or by the help of oars, as is expressed in the voyage of Jonah. And whereas it is contended that this Verticity was not unknown unto Salomon, in whom is presumed an universality of knowledge; it will as forcibly follow, he knew the Art of Typography, Powder, and Guns; or had the Philosopher's stone, yet sent unto Ophir for Gold. It is not to be denied, that, beside his political wisdom, his knowledg in Philosophy was very large; and perhaps from his works therein, the ancient Philosophers, especially Aistotle, who had the assistance of Alexanders acquirements, collected great Observables. Yet is he knew the use of the Compass, his ships were surely very slow, that made a three years voyage from Ezion-geber in the red-Sea unto Ophir; which is supposed to be Taprobana or Malaca, in the Indies, not many Months Sail; and since, in the same or lesser time, Drake and Candish performed their voyage about the Earth.

And, as the knowledge of its Verticity is not so old as some conceive, so is it more ancient than most believe; nor had its discovery with Guns, Printing, or, as many think, some years before the discovery of America. For, it was not unknown unto Petrus Percerinus a French-man, who, two hundred years since, lest a Tract of the Magnet, and a perpetual motion to be made thereby, preserved by Casserus. Paulus Venetus, and about five hundred years past, Albertus Magnus make mention hereof, and quote for it a book of Aristotle del pide; which book although we find in the Catalogue of Laertius, yet, with Cabeus, do rather judg it to be the work of some Arabick Writer, not many years before the daies of

Albertus.

Lastly, It is likewise true what some have delivered of Crocus Martis, that is, Steel corroded with vinegar, sulphur, or otherwise, and after reverberated by fire. For, the Loadstone will not at all attract it, nor will it adhere, but lie therein like sand This is to be understood of Crocus Martis well reverberated, and into a violet colour: for, common Chall be praparatus, or corroded and powdered Steel, the Loadstone attracts like ordinary fillings of Iron; and many times most of that which passet for Crocus Martis. So that this way may serve as a test of its preparation; after which it becometh a very good Medicine in sluxes. The like may be affirmed of Flakes of Iron that are rusty and begin to tend unto Earth; for their cognation then expireth, and the Loadstone will not regard them.

And therefore this may serve as a tryal of good Steel. The Loadflone taking up a greater Mass of that which is most pure; it may also decide the conversion of Wood into Iron, as is pretended from some waters: and the common conversion of Iron into Copper by the mediation of blew Coperose; for the Loadstone will not attract it. Although it may be questioned, whether in this operation, the Iron or Coperose or keep.

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L. Although Coperoli be transmuted; as may be doubted from the cognation of Coperose with Copper; and the quantity of Iron, remaining after the Conversion. And, the same may be useful to some discovery concerning Vitriol or Coperose of Mars, by some called Salt of Steel, made by the Spirits of Vitriol or Sulphur. For, the Corroded powder of Steel, will after ablution be actively attracted by the Load-stone: and also remaineth in little diminished quantity. And therefore whether those shooting Salts partake but little of Steel, and be not rather the vitriolous spirits sixed into Salt by the effluvium or odor of Steel, is not without good question.

CHAP. III.

Concerning the Loadstone; therein of sundry Common Opinions, and received relations: Natural, Historical, Medical, Magical.

Nd first not only a simple Heterodox, but a very hard Paradox. it will feem, and of great abfurdity unto obstina e ears, if we say, Attraction is unjustly appropriated unto the Load-Rone, and that perhaps we speak not properly, when we say, vulgarly and appropriatly, the Loadstone draweth Iron; and yet herein we should not want experiment and great Authority. The words of Renatus des Cartes in his Principles of Philosophy are very plain. Praterea magnes trabit ferrum, five potins magnes & ferrum ad invictm accedunt; neque enim ulla tibi tractio eft. The same is solemnly determined by Cabeus; Nec magnes trakit proprie ferrum, nec ferrum ad se magnetem provocat, sed ambo pari conatu ad invicem confluent. Concordant hereto is the affertion of Doctor Ridley, Physician unto the Emperor of Russia in his Tract of Magnetical bodies, defining Magnetical Attraction to be a natural incitation and disposition conforming unto contiguity; an union of one Magnetical body with another, and no violent haling of the weak unto the stronger. And this is also the Doctrine of Gilbertus; by whom, this motion is termed Co-ition, and that not made by any faculty attractive of one, but a Syndrome and concourse of each; a Co-ition alway of their vigours, and also of their bodies, if bulk or impediment prevent not. And therefore those contrary actions which flow from opposite Poles or Faces, are not so properly expulsion and attraction, as Sequela and Fuga, a mutual flight and following. Confonant whereto are also the determinations of Helmontius, Kircherus, and Licetus.

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The same is also confirmed by experiment; for, if a piece of reciprocal be. Iron be fastned in the side of a bowl, or bason of water, a Load-Loadstone & stone swimming freely in a boat of Cork, will presently make unto it. So, if a Steel or knife untouched, be offered toward the Needle that is touched, the Needle nimbly moveth toward it; and conformeth unto union with the Steel that moveth not. If a Loadstone be finely filed, the Atomes or dust thereof, will adhere unto Iron that was never touched, even as the powder of Iron doth also unto the Loadstone. And lastly, if in two skiffs of Cork, a Loadstone and Steel be placed within the Orb of their Activities, the one doth not move the other standing still; but both, hoife fayl, and steer unto each other. So that, if the Loadstone attract, the Steel hath also its attraction; for, in this action the Alliance is reciprocal; which joyntly felt, they mutually approach, and run into each others armes.

And, therefore furely more moderate expressions become this action, than what the Ancients have used; which some have delivered in the most violent terms of their language; so Austin calls It, Mirabilem ferri raptorem: Hippocrates, alo ot tor oldupor agralin Lapis qui ferrum rapit. Galen, disputing against Epicurus, useth the term, Exery; but this is also too violent: among the Ancients Aristotle Spake most warily, 189 Beis Tov oidnoor xive, Lapis qui ferrum movet: and, in some tolerable acceptation do run the ex-

pressions of Aquinas, Scaliger, and Cufanus.

Many relations are made, and great expectations are raifed from the Magnes Carness, or a Loadstone, that hath a faculty to attract, not only Iron but Flesh; but this, upon enquiry, and as Cabeus hath also observed, is nothing else but a weak, an inanimate kind of Loadstone, veined here and there with a few Magnetical and ferreous Lines; but chiefly, confifting of a bolary and clammy fubstance ; whereby, it adheres like Hamatites, or Terra Lemnia, unto the And, this is that stone which is to be understood, when Physicians joyn it with Etites, or the Eagle-Rone, and promise therein, a vertue against Abortion.

There is fometimes a mistake concerning the varietion of the Compass, and therein, one Point is taken for another. For, beyond the Equator, some men account its variation by the diversion of the Northern point, whereas, beyond that Circle, the Southern Point is Soveraign, and the North submits his preheminency. For, in the Southern coast, either of America, or Africa; the Southern point deflects, and varieth toward the Land, as being dispeled and spirited that way by the Meridional and proper Hemisphere. And, therefore on that fide of the Earth, the varying Point is best accounted

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by the South. And, therefore also the writings of some, and Maps of others, are to be enquired, that make the Needle decline unto the East Twelve Degrees at Capo Frio, and fix at the Straits of Magellan; accounting hereby one Point for another, and preferring the North in the Liberties and Province of the South.

But certainly, false it is what is commonly affirmed and believed, that Garlick doth hinder the attraction of the Loadstone; which is lick hinders notwithstanding delivered by grave and worthy Writers; by Pli- not the attrany, Solinus, Pto'emy, Plutarch, Albertus, Mathiolus, Rueus, Langins, ction of the and many more. An effect as firange, as that of Homer's Moly, and Loadstone. the Garlick that Mercury bestowed upon Vlyffes. But, that it is evidently falle, many experiments declare. For, an Iron Wire heated red-hot and quenched in the juyce of Garlick, doth notwithstanding contract a verticity from the Earth, and attracteth the Southern Point of the Needle. If also the tooth of a Loadstone be covered or fluck in Garlick it will notwithstanding attract; and Needles excited and fixed in Garlick untill they begin to ruft, do yet retain their attractive and polary respects.

- Of the same samp, is that which is obtruded upon us by Noryet the Authors, ancient and modern, that an Adamant or Diamond pre-Adamant or vents or suspends the attraction of the Loadstone: as is in open Diamond. termes delivered by Pliny. Adamas dissidet cum Magnete lapide,

ut juxtà positus ferrum non patiatur abstrabi, aut si admotus magnes apprehenderit, rapiat atque auferat. For, if a Damond be placed between a Needle and a Loadstone, there will nevertheless ensue a Coition even over the body of the Diamond. And, an easie matter it is, to touch or excite a Needle through a Diamond, by placing it at the tooth of a Loadstone; and therefore the relation is false, or our estimation of these Gems untrue; nor are

they Diamonds, which carry that name amongst us.

It is not suddenly to be received what Paracelfus affirmeth, that if a Loadstone be anointed with Mercurial-Oyle, or only one resum. put into Quick-filver, it omitteth its attraction for ever. For, we have found that Loadstones and touched Needles which have laid long in Quick-filver have not amitted their attraction. And, we also find, that red-hot Needles, or Wires extinguished in Quick-filver, do yet acquire a verticity, according to the Laws of position in extinction. Of greater repugnancy unto reason, is that which he delivers concerning its graduation, that heated in fire, and often extinguished in Oyl of Mars, or Iron, it acquires an ability to extract or draw forth a nail faitned in a wall; for, as we have declared before, the vigor of the Loadstone is destroyed

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Nor is it to be made out, what feemeth very plaufible, and formerly hath deceived us, that a Loadstone will not attract an Iron or Steel red hot. The fallity hereof, discovered first by Kircherus, we can confirm by iterated experiment; very fenfibly in armed Loadstones, and

obscurely in any other.

True it is, that, besides fire, some other waies there are of its destruction, as Age, Ruft; and, what is least dreamt on, an unnatural or contrary fituation. For being impolarily adjoyned unto a more vigorous Loadstone, it will in a short time exchange its Poles; or being kept in undue position, that is, not lying on the Meridian, or elfe with its poles inverted, it receives in longer time impair in activity; exchange of Faces, and is more powerfully preferved by position than by the dust of Steel. But the sudden and surest way is fire, that is, fire not only actual but potential; the one furely and fuddenly, the other flowly and imperfectly; the one changing, the other destroying the Figure. For, if distilled Vinegar or Aqua fortis be poured upon the Powder of Loadstone, the fubfiding Powder dried, retains some Magnetical vertue, and will be attracted by the Loadstone: but if the menstruum or dissolvent, be evaporated to a confishence, and afterward doth shoot into Icycles or Crystals, the Loadstone hath no power upon them; and if in a full dissolution of Steel a separation of parts be made by precipitation or exhalation, the exficcated Powder hath loft its wings, and afcends not unto the Loadstone. And though a Loadstone fired doth presently omit its proper vertue, and, according to the polition in cooling contracts a new verticity from the Earth; yet, if the same be laid a while in Aqua fortis, or other corrolive water, and taken out before a confiderable corrofion; it still referves its attraction, and will convert the Needle according to former polarity. And that, duly preferved from violent corrofion or the Natural difeafe of rust, it may long conserve its vertue, beside the Magnetical vertue of the Earth, which hath lasted since the Creation, a great example we In his learn. have from the observation of our learned Friend Mr. Graves in an Egyped Pyramido- tian Idol cut out of Loadstone, and found among the Mummies; which still retains its attraction, though probably taken out of the Mine about a

graphia.

thoufand years ago. I is improbable what Plint affi meth concerning the object of its attraction, that it attracts not only ferreous bodies, but also liquorom vit i; for, in the body of Glass there is no ferreous or Magnetical Nature which might occasion attraction. For, of the Glass we use, the purest is made of the finest Sand and the ashes of Chali or Glaswort; and the coarser, or green fort, of the Ashes of Brake or other Plants. True it is, that it the making of Glass, it hath been an ancient practice to cast-in pieces of Loadstone, conceiving it carried away all ferreous and earthy parts,

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from the pure and running portion of Glass, which the Loadstone would not respect; and therefore if that attraction were not rather Electrical than Magnetical, it was a wondrous effect what Helmont delivereth concerning a Glass, wherein the Magistery of Loadstone was prepared;

which after retained an attractive qual ty.

But, whether the Magnet attracteth more than common Iron, may be tried in other bodies. It feems to attract the Smyris or Emery in Powder; It draweth the shining or glassie Powder, brought from the Indies, and usually implied in writing dust. There is also in Smiths cinders, by some adhesion of Iron whereby they appear as it were glazed, sometime to be found a Magnetical operation; for, some thereof applied, have power to move the Needle. But, whether the ashes of Vegetables which grow over Iron Mines contract a Magnetical quality, as containing some Mineral particles, which, by sublimation ascend unto their Roots, and are attracted together with their Nourishment; according as some assist me from the like observations upon the Mines of Silver, Quick-silver, and

Gold; we must refer unto further experiment.

It is also improbable, and something singular what some conceive, and Ensebins Nierembergins, a learned Jesuit of Spain, delivers, that the body of Man is Magnetical, and being placed in a boat, the veffel will never rest, until the head respecteth the North. If it be true, the bodies of Christians do lye unnaturally in their Graves. King Cheops in his Tomb, and the Tews in their beds, have fallen upon the Natural position : who reverentially declining the fituation of their Temple, not willing to Iye as that flood; do place their Beds from North to South, and delight to fleep Meridionally. This Opinion confirmed, would much advance the Micocrosmical conceit, and commend the Geography of Paracellus; who according to the Cardinal points of the World divideth the body of man; and, therefore working upon human ordure, and by long preparation rendring it odoriferous, he terms it Zibeta Occidentalis, Western Civet making the face the East, but the posteriors the America or Western part of his Microcosm. The verity hereof, might easily be tryed in Wales, where there are portable Boats, and made of Leather, which would convert upon the impulsion of any verticity; and seem to be the fame, whereof, in his description of Britan, Cafar hath lest some menti-

Another kind of verticity, is that which Angelus doce minijus, alias, Michael Sundevogis, in a Tract de sulphure, descovereth in Vegetables, from
ticks let-fall or depressed under water; which equally framed and permitted unto themselves, will ascend at the upper end, or that which was
vertical in its vertigation; wherein notwithstanding, as yet, we have not
found satisfaction. Although perhaps too greedy of Magnalities, we
are apt to make but savourable experiments concerning welcome truths,

and fuch defired verities.

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It is also wondrous strange what Lalins Bisciola reporteth, that if unto ten ounces of Loadstone one of Iron be added, it encreaseth not unto eleven, but weighs ten ounces still. A relation inexcusable in a work of leasurable hours: the examination being as ready as the relation, and the fassity tryed as easily as delivered. Nor, is it to be omitted what is taken up by Casius Bernardus a late Mineralogist, and originally confirmed by Porta, that Needles touched with a Diamond contract a verticity, even as they do with a Loadstone; which will not consist with experiment. And therefore, as Gilbertus observeth, he might be deceived, in touching such Needles with Diamonds, which had a verticity, before, as we have declared most Needles to have; and so had he touched them with Gold or Silver, he might have concluded a Magnetical vertue therein.

In the same form may we place Fracastorius his attraction of Silver, Philostratus his Pantarbes; Apollodorus and Beda his relation of the Load-stone that attracted only in the Night. But most inexcusable is Franciscus Rueus, a man of our own Profession; who, in his discourse of Gems, mentioned in the Apocalyps, undertakes a Chapter of the Loadstone. Wherein, substantially and upon experiment, he scarce delivereth any thing: making long enumeration of its traditional qualities, whereof, he seemeth to believe many, and some above convicted by experience; he is sain to salve, as Impostures of the Devil. But Batins de Boot, Physician unto Rodulphus the second, hath recompenced this defect; and in his Tract, de Lapidibus & Gemmis, speaks very materially hereof; and

his Discourse is consonant unto Experience and Reason.

As for relations Historical, though many there be of less account, yet two alone deserve consideration; The first concerneth Magnetical Rocks, and attractive Mountains, in several parts of the Earth. The other, the Tomb of Mahomet and bodies suspended in the Air. Of Rocks Magnetical, there are likewise two Relations; for, some are delivered to be in the Indies, and some in the extremity of the North, and about the very Pole. The Northern account is commonly ascribed unto Olans Magnus Arch-Bishop of Opsale, who, out of his Predecessor Johannes, Saxo, and others, compiled a History of some Northern Nations; but, this affertion we have not discovered in that work of his, which commonly passeth among us; and should believe his Geography herein no more than that in the first Line of his Book; when he affirmeth, that Biarmia (which is not seventy Degrees in Latitude) hath the Pole for its Zenith, and Equinoctial for the Horizon.

Now, upon this foundation, how uncertain foever, men have erected mighty Illations, ascribing thereto the cause of the Needles direction, and conceiving the effluxions from these Mountains and Rocks, invite the Lilly toward the North. Which conceit, though countenanced by learned men, is not made out either by experience, or Reason;

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for, no man hath yet attained, or given a fensible account of the Pole by some degrees, It is also observed, the Needle doth very much vary as it approacheth the Pole; whereas, were there such direction from the Rocks, upon a nearer approachment, it would more directly respect them. Beside, were there such Magnetical Rocks under the Pole, yet, being so far removed, they would produce no such essection. For, they that sayl by the Isle of line, now called Elbe in the Tuscan Sea, which abounds in veins of Loadstone, observe no variation or inclination of the Needle; much less may they expect a direction from Rocks, at the end of the Earth. And lastly, men that ascribe thus much unto Rocks of the North, must presume to discover the like Magneticals at the Soush: For, in the Southern-Seas, and tar beyond the Equator, variations are large, and declinations as constant as in the Northern Ocean.

The other relation of Loadstone Mines and Rocks, in the shore of India, is delivered of old by Pliny; wherein, saith he, they are so placed both in abundance and vigor, that, it proves an adventure of hazard, to pass those coasts in a Ship, with Iron Nails. Serapion the Moor, an Author of good esteem, and reasonable Antiquity, confirmeth the same, whose expression in the word Magnes is this. The Mine of this Stone is in the Sea-coast of India; whereto, when Ships approach, there is no Iron in them which slies not like a bird unto the Mountains; and, therefore their Ships are fastned not with Iron but Wood, sor, otherwise they would be torn in pieces. But, this affertion, how positive soever, is contradicted by all Navigators that pass that way; which are now mathere be no ny, and of our own Nation; and, might surely have been controuled by Magnetical

Nearchus the Admiral of Alexander; who, not knowing the Compais, Rocks. was fain to coast that shore.

For the relation concerning Mahomet, it is generally believed, his Tomb at Medina Talnabi, in Arabia, without any visible supporters hangeth in the Air between two Loadstones artificially contrived both above and below; which conceit is fabulous and evidently false, from tomb of stone the testimony of Ocular Testators; who affirm, his Tomb is made of & built upon Stone, and lyeth upon the ground; as, besides others, the learned Vossius the ground. observeth from Gabriel Sionita, and Johannes Hefronita, two Maronites in their relations hereof. Of such intentions and attempt by Mahometass we read in some Relators; and that might be the occasion of the fable; which by tradition of time, and distance of place, enlarged into the story of being accomplished, And, this bath been promoted by attempts of the like Nature; for we read in Pliny, that one Dincerates began to Arch the Temple of Arfinoe in Atexandria with Loadstone, that so her Statue might be suspended in the Ayr, to the amazement of the beholders. And, to lead on our credulity herein, confirmation may be drawn from History and Writers of good authority. So is it reported by Ruffinus, that in the Temple of Serapis, there was an Iron

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Chariot suspended by Loadstones in the Air; which Stones removed; the Chariot fell and dashed into pieces. The like doth Beda report of Bellerophons Horse, which, framed of Iron, was placed between two

Loadstones, with wings expansed, pendulous in the Air.

The verity of thele stories, we shall not further dispute, their postibility we may in fome way determine; if we conceive, what no man will deny, that bodie; suspended in the Air, have this suspension from one or many Loadstones, placed both above and below it; or elfe, by one or many placed only above it. Likewise, the body to be suspended in respect of the Loadstone above, is either placed, first at a pendulous distance in the Medium, or else attracted unto that fite by the vigor of the Loadstone. And so we first affirm, that possible it is, a body may be suspended between two Loadstones; that is, it being so equally attracted unto both, that it determineth it felf unto neither. But, furely this position will be of no duration: for, if the Air be agitated, or the body waved either way; it omits the equilibration, and disposeth it self unto the nearest attractor. Again, it is not impossible (though hardly feisible) by a fingle Loadstone, to suspend an Iron in the Air, the Iron being artificially placed, and at a distance guided toward the stone, until it find the Neutral Point, wherein, its gravity just equals the Magnetical quality; the one exactly extolling, as much as the other depreffeth. And Lastly, impossible it is, that if an Iron rest upon the ground, and a Loadstone be placed over it, it should ever so arise, as to hang in the way or medium; for, that vigor, which at a distance is able to overcome the resistance of its gravity, and to lift it up from the Earth, will as it approacheth near, be still more able to attract it; never remaining in the middle, that could not abide in the extreams. Now, the way of Baptiffa Porta, that by a Thred fastneth a Needle to a Table, and then fo guides and orders the same, that, by the attraction of the Loadstone, it abideth in the Air, infringeth not this reason; for this is a violent retention; and, if the thred be loofned, the Needle afcends, and adheres unto the Attractor.

The third confideration concerneth Medical relations; wherein, what ever effects are delivered, they are either derived from its mineral and ferreous condition, or else Magnetical Operation. Unto the ferreous and Mineral quality pertaineth what Dioscorides, an ancient Writer, and Soldier under Anthony and Cleopatra, affirmeth, that half a dram of Powder of Loadstone given with honey and water, proves a purgative Medicine, what operation and evacuateth gross humors. But, this is a quality of great incertainty; for, omitting the Vehicle of water and honey, which is of a laxative power it self, the powder of some Loadstones in this dose, doth rather constipate and bind, than purge and losen the belly. And, if sometimes it cause any laxity, it is probable in the same way with Iron and Steel unprepared; which will disturb some bodies, and work by Purge and Vo-

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and Stell ige and the mit. And therefore, whereas it is delivered in a book afcribed unto Galen, that it is a good Medicine in Dropsies, and evacuates the waters of perfons fo affected: It may I confels, by ficcity and astriction afford a confirmation unto parts relaxed, and fuch as be Hydropically disposed; and by these qualities it may be useful in Hernia's, or Ruptures, and, for these it is commended by Etius, Egineta, and Oribatius; who only affirm, that it contains the vertue of Hamatites, and being burnt, was sometimes vended for it. Wherein, notwithstanding there is an higher vertue: and in the same prepared, or, in rich veins thereof, though crude, we have observed the effects of Chalybeat Medicines; and the benefits of Iron and Steel in strong obstructions. And, therefore that was probably a different vein of Loadstone; or infected with other Mineral mixture, which the ancients commended for a purgative Medicine, and ranked the fame with the violentest kinds thereof : with Hippophae, Cneoron, and Thymelea, as we find it in H piocrates : and might be fome-internis. what doubtful, whether by the Magnetical-stone, he understood the

Loadhone; did not Achilles Statius define the same, The stone that lov-

eth Iron.

To this Mineral condition belongeth what is delivered by some, that wounds which are made with weapons excited by the Loadstone, contract a Malignity, and become of more difficult cure; which nevertheless, is not to be found in the incision of Chirurgions with knives and lancets touched; which, leave no such effect behind them. Hither we also refer that affirmative, which saies, the Loadstone is poyson; and therefore in the lifts of poylon we find it in many Authors. But, this our experience cannot confirm, and the practice of the King of Zeilan clearly contradicteth; who, as Garcius ab horto, Physitian unto the Spanish Viceroy delivereth, hath all his meatierved up in dishes of Loadstone, and conceives thereby, he preserveth the vigor of youth.

But, surely from a Magnetical Activity must be made out, what is let fall by Etins, that a Loadstone held in the hand of one that is podagrical, doth eicher cure, or give great ease in the Gout. Or, what Marcellus Empericus affirmeth, that as an amulet, it also cureth the head-ach; which are but additions unto its proper nature, and hopeful enlargements of its allowed attraction. For, perceiving its fecret power to draw Magnetical Bodies, men have invented a new attraction, to draw out the dolour and pain of any part. And from fuch grounds, it furely became a philter, and was conceived a Medicine of some Veneral Attraction; and therefore, upon this Stone, they graved the Image of Venus, according unto that of Claudian, Venerem magnete gemma figurat. Hither must we also refer, what is delivered concerning its power, to draw out of the Body Bullets and heads of Arrows, and, for the like intention is mixed up in Plaisters. Which course, although, as vain and ineffectual, it be rejected by many good Authors, yet, it is not me-thinks fo readily to be denied, De morbis

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denied not the practice of many Physicians, which have thus compounded Plaisters, thus suddenly to be condemned, as may be observed in the Emplastrum divinum Nicolai, the Emplastrum nigrum of Augspurg, the Opodeldoch and Attractium of Paracellus, with several more in the Dif-De cultri-vo- pensatory of Wecker, and practice of Sennertus. The cure also of Her-20 Pruffiaco. nia's, or Ruptures in Parens : and, the method also of curation, lately de-636. livered by Daniel Beckherns, and approved by the Professors of Leyden, The cure of that is, of a young man of Spruceland that casually swallowed a knife the Prussian about ten inches long, which was cut out of his stomach, and the wound

Magnetica.

knife.

healed up. In which cure, to attract the knife to a convenient fituation, there was applied a plaister made up with the powder of Loadstone. In his Air Now, this kind of practice Libavins, Gilbertus, and lately Swickardus condemn, as vain, and altogether unuseful; because a Loadstone in powder hath no attractive power; for, in that form it omits his polary respects, and loseth those parts which are the rule of attraction.

Wherein, to speak compendiously, if experiment hath not deceived us, we first affirm, that a Loadstone in powder omits not all attraction. For, if the powder of a rich vein, be in a reasonable quantity presented toward the Needle freely placed, it will not appear to be void of all activity, but will be able to ftir it. Nor, hath it only a power to move the Needle, in powder and by it felf, but this will it also do, if incorporated and mixed with plaisters; as we have made trial in the Emplastrum de Minio; with half an ounce of the Mass, mixing a dram of Loadstone. For, applying Magdaleon or roal unto the Needle, it would both stir and attract it; not equally in all parts, but more vigorously in some, according unto the Mine of the stone more plentifully dispersed in the Mass. And lastly, in the Loadstone powdered, the polary respects are not wholly destroyed. For, those diminutive particles are not acomical, or meerly indivisible, but consist of dimensions sufficient for the roperations, though in obscure effects. Thus, if unto the powder of Loadstone or Iron, we admove the North Pole of the Loadstone, the powders or fmall divisions, will erect and conform themselves thereto: but, if the South Pole approach, they will subside, and inverting their bodies, respect the Loadstone with the other extream. And this will happen, not only in a body of powder together, but in any particleor dust divided from it.

Now, though we disavow not these plaisters, yet, shall we not omit twocautions in their use; that therein the stone be not too subtilly powdered; for,it will better manifest its attraction in a more sensible dimension. That, there is desired a speedy effect, it may be considered, whether it were not better to relinquish the powdered plaisters, and to apply an entire Loadstone unto the part : And, though the other be not wholly ineffectual, whether this way be not more powerful, and so might have been in the cure of the young man, delivered by Beckerus.

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The last consideration, concerning Magical relations; in which account, we comprehend effects derived and fathered upon hidden qualities, specifical forms, Antipathies, and Sympathies, whereof from received grounds of Art, no reasons are derived. Herein, relations are strange and numerous; men being apt in all ages to multiply wonders, and Philosophers dealing with admirable bodies, as Historians have done with excellent men; upon the ftrength of their great Achievements, ascribing acts unto them not only falle, but impossible; and exceeding truth as much in their relations, as they have others in their actions. Hereof, we shall briefly mention some delivered by Authors of good esteem : whereby, we may discover the fabulous inventions of some, the credulous supinity of others, and the great differvice unto truth by both : multiplying obscurities in nature, and authorizing hidden qualities that are false: whereas, wife men are ashamed there are so many true.

And first Dioscorides puts a shrewd quality upon it, and such as men are apt enough to experiment, who, therewith discovers the incontinency of a wife, by placing the Loadstone under her pillow : whereupon fhe will not be able to remain in bed with her husband. The same he also makes a help unto theevery. For, theeves, faith he, having a defign upon a House, do make a fire at the four corners thereof, and cast therein, the fragments of Loadstone; whence ariseth a sume, that so disturbeth the inhabitants, that, they forfake the house and leave it to the spoil of the robbers. This relation, how ridiculous soever, hath Albertus taken up, about a thousand years after, and, Marbodius the Frenchman hath continued it, the same in Latin verse: which, with the notes of Pictorius, is currant unto our daies. As strange must be the Lithomancy, or Divination from this Stone, whereby, as Tzetzes delivers Helenus the Prophet fore-told the Destruction of Troy : and the Magick thereof, not fafely to be believed, which was delivered by Orphens, that, sprinkled with water, it will upon a question emit a voice not much unlike an Infant. But, surely the Loadstone of Laurentius Gauscus the Physician, is never to be matched; wherewith, as Cardan delivereth, whatfoever Needles, or Bodies were touched, the Wounds and Punctures made thereby, were never felt at all. And, yet as strange is that delivered by some, that a Loadstone preserved in the salt of a Remora, acquires a power to attract Gold out of the deepest Wells. Certainly, a fludied absurditie, not casually cast out, but, plotted for perpetuity : for the strangeness of the effect ever to be admired, and, the difficulty of the tryal never to be convicted !

These conceits are of that Monstrosity, that they refute themselves in their recitements. There is another of better notice, and whispered thorow the World with some attention; credulous and vulgar auditors readily believing it, and more judicious and distinctive heads, not altogether rejeding it. The Conceit is excellent, and if the effect

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would follow somewhat divine : whereby, we might communicate like Spirits, and confer on Earth with Menippusin the Moon. And, this is pretended from the sympathy of two Needles touched with the same Loadstone, and placed in the Center of two Abecedary Circles, or Rings with Letters described round about them, one friend keeping one, and another the other, and agreeing upon the hour wherein they will communicate. For then, faith Tradition, at what distance of place soever, when one Needle shall be removed unto any Letter, the other, by a wonderful fympathy will move unto the same. But herein, I confess my experience can find no truth; for, having exprelly framed two Circles of Wood, and, according to the number of the Latine-letters divided each into twenty three Parts; placing therein two Stiles or Needles composed of the same Steel, touched with the same Loadstone, and, at the same Point: of these two, whensoever I removed the one, although but at the distance of half a span, the other would stand like Hercules Pillars, and, if the Earth stand still, have furely no motion at all. Now, as it is not possible that any body should have no boundaries or Sphears of its activity; fo it is improbable, it should effect that at a distance, which nearer hand it cannot at all perform.

Again, The conceit is ill contrived, and one effect inferred; whereas the contrary will ensue. For, if the removing, of one of the Needles from A to B, should have any action or influence on the other; it would intice it from A to B, but repel it from A to Z: for, Needles excited by the same Point of the Stone, do not attract, but avoid each other, even as these also do, when their invigorated extreams approach unto

one another.

Lastly, were this conceit assuredly true, yet, were it not a conclusion at every distance, to be tryed by every head: it being no ordinary or Almanack business, but, a Problem Mathematical, to find out the difference of hours in different places; nor do the wisest exactly satisfie themselves in all. For, the hours of several places anticipate each other, according unto their Longitudes; which are not exactly discovered of every place; and, therefore the tryal hereof at a considerable interval, is best performed at the distance of the Antaoi; that is, such habitations as have the same Meridian and equal Parallel, on different sides of the Equator; or, more plainly, the same Longitude, and the same Latitude unto the South, which we have in the North. For, unto such Situations it is Noon, and Midnight, at the very same time.

And, therefore the Sympathy of these Needles, is much of the same mould, with that intelligence which is pretended from the sless of one body transmuted by insition into another. For, if, by the Art of Taliacotius, a permutation of sless, or transmutation be made from one mans body into another; as if a piece of sless be exchanged from the bicipital muscle of either parties arm, and about them both, an Alphabet circum-

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fcribed, upon a time appointed as fome conceptions affirm, they may communicate at what distance soever. For, if one shall prick himself in A, the other at the same time, will have a sense thereof, in the same part : Chirurgia. and, upon inspection of his Arm, perceive what letters the other points out in his. Which is a way of intelligence very strange: and, would requite the lost Art of Pythagoras: who could read a reverse in the Moon.

Now, this Magnetical conceit, how strange soever might have some original in Reason; for, men observing no solid body, whatsoever did interrupt its action, might be induced to believe, no distance would terminate the same; and most conceiving, it poynted unto the Pole of Heaven, might also opinion, that nothing between could restrain it. Who foever was the Author, the Eolns that blew it about, was Famianus Strada, that Elegant Jesuite in his Rhetorical prolusions, who chose out this subject, to express the sile of Lucretius. But, neither Baptist a Porta, de furtivis literarum notis; Tritkemius in his Steganography, Selenus in his Cryptography, or Nuncius inanimatus, make any consideration nim.byD.Godhereof: although they deliver many waies to communicate thoughts at win Bilhop of distance. And, this we will not deny, may in some manner be effected Hereford. by the Loadstone: that is, from one room into another; by placing a Table in the Wall common unto both, and, writing thereon the same letters one against another: for, upon the approach of a vigorous Loadflone unto a letter on this fide, the Needle will move unto the fame on the other. But, this is a very different way from ours at prefent; and hereof, there are many waies delivered, and more may be discovered. which contradict not the rule of its operations. particular

As for Unguentum Armarium, called alfo Magneticum, it belongs not to this discourse, it neither having the Loadstone for its ingredient, nor any one of its actions: but supposeth other principles, as common and universal Spirits, which convey the action of the remedy unto the part, and conjoyns the vertue of bodies, farr dif-joyned. But, perhaps the cures it doth, are not worth fo mighty principles; it commonly healing but simple wounds, and fuch as, mund fied and kept clean, do need no other hand, than that of Nature, and the Balfam of the proper part. Unto which effect, there being fields of Medicines, it may be a hazardous curiofity to rely on this; and, because men fay, the effect doth generally follow, it might be worth the experiment to try, whether the same will not ensue, upon the same Method of cure, by ordinary Ballams, or common vulnerary Plaisters.

Many other Magnetisms may be pretended, and the like attractions through all the Creatures of Nature. Whether the fame be verified in the action of the Sun upon inferiour bodies, whether, there be not Eolian Magnets; whether, the flux, and reflux of the Sea, be caused by any: Magnetilm of the Moon; whether, the like be really made out, or ra-

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ther Metaphorically verified in the Sympathies of Plants and Animals, might afford a large dispute; and Kircherus in his Catena Magnetica hath excellently discussed the same; which work came late unto our hand,

but might have much advantaged this Discourse,

Other Discourses there might be made of the Loadstone: as Moral, Mystical, Theological; and, some have handsomly done them; as Ambrose, Austine, Gulielmus Parisiensis, and many more; but, these fall under no Rule, and are as boundless as mens inventions. And, though honest minds do glorisie God hereby; yet, do they most powerfully magnisse him, and are to be looked on with another eye, who demonstratively set forth its Magnalities; who, not from postulated or precarious inferences, entreat a courteous assent; but, from experiments and undeniable effects, enforce the wonder of its Maker.

CHAP. IV.

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Bodies Ele- Having thus spoken of the Loadstone and Bodies Magnetical, I shall in the next place deliver somewhat of Electrical, and such as may feem to have attraction like the other. Hereof we shall also deliver what particularly spoken, or not generally known, is manifestly or probably true; what generally believed, is also salse and dubious. Now by Electrical bodies, I understand not such as are Metallical, mentioned by Pling, and the Ancients; for, their Electrum was a mixture made of Gold, with the addition of a fifth part of Silver; a substance now as unknown, as true Aurichalcum or Corinthian Brass, and set down among things loft by Pancirollus. Nor, by Electrick Bodies do I conceive such only as take up shavings, straws, and light bodies, in which number, the Ancients only placed fer and Amber; but such as conveniently placed unto their objects, attract all bodies palpable whatfoever. I fay, conveniently placed, that is, in regard of the object, that it be not too ponderous, or any way affixed; in regard of the Agent, that it be not foul or fullied, but wiped, rubbed, and excitated; in regard of both, that they be conveniently distant, and no impediment interposed. I say, all bodies palpable, thereby excluding fire, which, indeed it will not attract, nor yet draw through it; for, fire confumes its effluctions by which it should attract.

Now, although in this rank, but two were commonly mentioned by the Ancients, Gilbertus discovereth many more; as Diamonds, Sapphyrs, Carbuncles,

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Carbuncles, Iris, Opalls, Amethysts, Beril, Crystal, Bristol-stones, Sulphur, Mastick, hard Wax, hard Rosin, Arsenic, Salgem, Roch-Allum, common-Glass, Stibium, or Glass of Antimony. Unto these Cabeus addeth, white Wax, Gum Elimi, Gum Guaici, Pix Hispanica, and Gypsum. And unto these we add Gum Anime, Benjamin, Talcum, Chyna-dishes, Sandaraca, Turpentine, Styrax, Liquida, and Caranna dried into a hard consistence. And the same attraction we find, not only in simple bodies, but such as are much compounded; as the Oxycroceum Plaitter, and obscurely that ad Herniam, and Gratia Dei; all which, smooth and rightly prepared, will discover a sufficient power to stir the Needle, settled freely upon a well-pointed pin; and so as the Electrick may be applied unto it, without all disadvantage.

But, the attraction of these Electricks we observe to be very different. Refinous or unctuous bodies, and fuch as will flame, attract most vigoroufly, and most thereof without frication; as Anime, Benjamin, and most powerfully good hard Wax, which will convert the Needle almost as actively as the Loadstone. And, we believe that all, or most of this substance if reduced to hardness, tralucency or clearness, would have some attractive quality. But, juices concrete, or Gumms easily dissolving in water, draw not at all: as, Aloes, Opium, Sanguis Draconis, Lacca, Galbanum, Sagapenum. Many stones also both precious and vulgar, although terfe and smooth, have not this power attractive : as, Emeralds, Pearl, Jaspis, Cornelians, Agathe, Heliotropes, Marble, Alablaster, Tunch-stone, Flint, and Bezoar. Glass attracts but weakly, though clear; some flickstones and thick Glasses indifferently : Arsenic but weakly; so likewise Glass of Antimony; But Crocus Metallorum not at all. Salts generally but weakly : as, Sali gemma, Allum, and also Talk; nor, very discoverably by any frication: but, if gently warmed at the fire, and wiped with a dry cloath, they will better discover their Electricities.

No Mettal attracts, nor Animal concretion we know, although polite and smooth; as we have made tryal in Elks-hoofs, Hawks-Talons, the sword of a Sword-fish, Tortoise-shells, Sea-horse, and Elephants-teeth, in bones, in Harts-horn, and what is usually conceived Unicorns-horn. No wood though never so hard and polished, although out of some thereof Electrick bodies proceed: as, Ebonie, Box, Lignum vita, Cedar, &c. And, although fet and Amber be reckoned among Bitumens, yet, neither do we find Asphaltus, that is, Bitumen of fudea, nor Sea-cole, nor Camphire, nor Mummia to attract; although we have tryed in large and polished pieces. Now, this attraction have we tryed in straws and paleous bodies, in Needles of Iron equilibrated; Powders of Wood and Iron, in Gold and Silver soliate. And, not only in solid but fluent and liquid bodies, as Oyls made both by expression and distillation; in water, in spirits of Wine, Vitriol, and Aqua fortis.

But, how this attraction is made, is not so easily determined; that its performed by effluviums is plain, and granted by most; for Electrick

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will not commonly attract, except they grow hot or become perspirable. For, if they become foul or obnubilated, it hinders their effluxion; nor, if they be covered, though but with Linen or Sarfenet, or if a body be interpoled; for, that intercepts the effluvium. If also a powerful and broad Electrick of Wax or Anime be held over fine powder; the Atoms or fmall Particles will afcend most numerously unto it; and if the Electrick be held unto the light, it may be observed, that many thereof will fly, and be as it were discharged from the Electrick, to the distance sometime of two or three inches. Which motion is performed by the breath of the effluvium iffuing with agility; for, as the Electrick cooleth, the projection of the Atoms ceafeth.

Cabeus his way for attra-

The manner hereof, Cabens wittily attempteth, affirming, that this ction in bo. effluvium attenuateth and impelleth the neighbour Air, which returning dies Electrick home in a gyration, carrieth with it the obvious bodies unto the Ele-Arick. And, this helabours to confirm by experiments; for, if the straws be raised by a vigorous Electrick, they do appear to wave and turn in their ascents. If likewise the Electrick be broad, and the straws leight and chaffy, and held at a reasonable distance, they will not arise unto the middle, but, rather adhere toward the Verge, or borders thereof. And lattly, if many straws be laid together, and a nimble Electrick approach, they will not all arise unto it, but some will commonly stare aside, and be whirled a reasonable distance from it. Now, that the Air impelled, returns unto its place in a gyration or whirling, is evident from the Atoms or Motes in the Sun. For, when the Sun fo enters a hole or window, that by its illimunation, the Atoms or Moats become perceptible, if then, by our breath, the Air be gently impelled, it may be perceived, that they will circularly return, and in a gyration, unto their places

The way of Digby.

Another way of their Attraction is also delivered; that is, by a tenui-Kenelm ous emanation or continued effluvium, which after some distance retracteth into it self: as is observable in drops of Syrups, Oyl, and seminal viscosities, which spun at length retire into their former dimenfions. Now these effluviums, advancing from the body of the Electrick, and in their return, do carry back the bodies whereon they have laid hold within the Sphear, or Circle of their continuities; and these they do not only attract, but with their viscous arms hold fast a good while after. And, if any shall wonder, why these effluviums issuing forth impell and protrude not the straw before they can bring it back; it is because the effluvium passing out in a smaller thred and more enlengthened filament, it flirreth not the bodies interposed, but returning unto its Original, falls into a closer substance, and carrieth them backunto it felf. And, this way of attraction is best received; embraced by Sir Kenelm Digby, in his excellent Treaty of Bodies; allowed by Des Cartes in his Principles of Philosophy, as far as concerneth fat and refinous bodies,

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and with exception of Glass, whose attraction he also deriveth from the recess of its effluxion. And this, in some manner, the words of Gilbertus will bear, Effluvia illa tenuiora concipiunt & amplectuntur corpora, quibus uniuntur, & Electris tanguam extensis brachiis & ad fontem propinguitate invalescentibus effluviis, deducuntur. And, if the ground were true, that the Earth were an Electrick body, and the Ayr but the Effluvium thereof; we might perhaps believe, that from this attraction, and by this effluxion, bodies tended to the Earth, and could not remain above it.

Our other discourse of Electricks concerneth a general opinion touching Jet and Amber, that they attract all light bodies, except Ocymum or Basil, and such as be dipped in oyl or oyled; and this is urged as high as Theophraffus: but Scal ger acquitteth him. And, had this been his affertion, Pling would probably have taken it up, who, herein stands out, and delivereth no more but what is vulgarly known. But, Plutarch speaks politively in his Sympoliacks, that Amber attracteth all bodies, excepting Bafil, and oyled functionees. With Plutarch confent, many Authors both Ancient and Modern; but the most inexcusable are Lemnius and Rueus, whereof the one delivering the nature of Minerals mentioned in Scripture, the infallible fountain of Truth, confirmeth their vertues with erroneous traditions; the other undertaking the occult and hidden Miracles of Nature, accepteth this for one; and endeavoureth to alledge

a reason of that which is more than occult, that is, not existent.

Now herein, omitting the authority of others, as the Doctrine of Experiment hath enformed us, we first affirm, That Amber attracts not Basil, is wholly repugnant unto truth. For, if the leaves thereof or dryed stalks be stripped into small straws, they arise unto Amber, Wax, and o her Electries, no otherwife than those of Wheat and Rye: nor is there any peculiar fatness, or fingular viscosity in that Plant that might cause adhesion, and so prevent its ascension. But, that fet and Am. ber attract not straws oyled, is in part true and false. For, if the straws be much wet, or drenched in oyl, true it is, that Amber draweth them not; for, then the oyl makes the straw to adhere unto the part whereon they are placed, fo that they cannot rife unto the Attractor; and this is true, not only if they be foaked in oyl, but spirits of Wine and Water. But, if we speak of straws or fellucous divisions lightly drawn over with oyl, and fo, that it caufeth no adhesion; or, if we conceive an Antipathy between Oyl and Amber, the Doctrine is not true. For, Amber will attract straws thus oyled; it will convert the Needles of Dials made either of Brass or Iron, although they be much oyled; for, in these Needles confisting free upon their Center, there can be no adhesion. It will likewise attract oyl it felf, and if it approacheth unto a drop thereof, it becometh conical, and arifeth up unto it; for, oyl taketh not away his attraction, although it be rubbed over it. For, if you touch a piece of

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Wax already excitated, with common oyl, it will notwithstanding attract, though not so vigorously as before. But, if you moisten the same with any Chymical oyl, water or spirits of wine, or only breathe upon it, it quite omits its attraction; for, either its effluencies cannot get through,

or will not mingle with those substances.

It is likewise probable the Ancients were mistaken concerning its substance and generation; they conceiving it a vegetable concretion made of the gums of trees, especially Pine and Poplar falling into the water, and after indurated or hardned; whereunto accordeth the fable of Phaetons fifters: but, furely the concretion is Mineral, according as is delivered by Bætins. For either it is found in Mountains and Mediterraneous parts; and so it is a fat and unctuous sublimation in the Earth, concreted and fixed by falt and nitrous spirits wherewith it meeteth: Or else, which is most usual, it is collected upon the Sea-shore; and fo it is a fat and bituminous juice coagulated by the faltness of the Sea. Now that falt-spirits have a power to congele and coagulate unctuous bodies, is evident in Chymical operations; in the distillations of Arfenick, sub-I mate and Antimony; in the mixture of oyl of Juniper, with the falt and acid spirit of Sulphur; for, thereupon ensueth a concretion unto the consistence of Bird-lime; as also in spirits of falt, or Aqua fortis, powred upon oyl of Olive; or more plainly in the manufacture of Sope. And, many bodies will coagulate upon commixture, whose separated natures promife no concretion. Thus upon a folution of Tin by Aqua fortis, there will ensue a coagulation, like that of whites of Eggs. Thus the volatil salt of Urine will coagulate Aqua vita, or spirits or Wine; How the and, thus perhaps (as Helmont excellently declareth) the stones, or cal-

flone is bred culous concretions in Kidney or Bladder may be produced: the spirits in the kidney or volatile falt of Urine, conjoyned with the Aqua vita potentially lying therein; as he illustrateth from the distillation of fermented Urine. From whence arifeth an Aqua vite, or spirit, which the volatile falt of the same Urine will congele; and finding an Earthy concurrence, strike

into lapideous subilance.

Lastly, We will not omit what Bellabonus upon his own experiment writ from Danizick unto Mellichius, as he hath left recorded in his Chapter, De succino, That the bodies of Flies, Pismires and the like, which are said oftimes to be included in Amber, are not real, but repre-Of aBee and fentative, as he discovered in several pieces broke for that purpose. aviper invol- If fo, the two famous Epigrams hereof in Martial are but Poetical, the ved in Amber Pismire of Brassavolus Imaginary, and Cardans Mausoleum for a flye, a Mart. li. 4. meer fancy. But, hereunto we know not how to affent, as having met with some whose reals made good their representments.

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Operation and come come to be ordered, that the Courses and be fed to the Compendiously of Sundry other common Tenets, concerning Mineral and Terreous bodies; which examined, prove either false or dutions.

And first we hear it in every mouth, and in many good Authors read it, That a Diamond, which is the hardest of stones, not veilding unto Steel, Emery, or any thing, but its own powder, is yet made foft, or broke by the blood of a Goat. Thus much is affirmed by Pliny, Solinus, Albertus, Cyprian, Austin, Isidore, and many Christian Writers; alluding herein unto the heart of man, and the precious blood of our Saviour; who was typified by the Goat that was flain, and the scape Goat in the Wilderness; and, at the effusion of whose blood, not only the hard hearts of his enemies relented, but the stony Rocks, and vail of the Temple were shattered. But, this I perceive is easier affirmed than proved. For Lapidaries; and fuch as profess the art of cutting this Stone, do generally deny it; and, they that feem to countenance it, have in their deliveries so qualified it, that little from thence of moment can be inferred for it. For first, the holy Fathers, without a further enquiry, did take it for granted, and rested upon the authority of the first deliverers. As for Aibertus, he promiseth this effect, but conditionally, not except the Goat drink wine, and be fed with Siler montanum, Petrofelinum, and such herbs as are conceived of power to break the stone in the bladder. But the words of Pliny, from whom most likely the rest at first derived it, if strictly considered, do rather overthrow, than any way advantage this effect. His words are these: Hircino rumpitur sanguine, nec aliter quam recenti, calidoque macerata, & sic quoque multis ictibus, tunc etiem prater quam eximias incudes malleofque ferreos frangens, That is, it is broken with Goats blood, but, not except it be fresh and warm, and that not without many blows; and then also it will break the best Anvils and hammers of Iron. And answerable hereto, is the affertion of Isidore and Solinus. By which account a Diamond steeped in Goats blood, rather increaseth in hardness, then acquireth any foftness by the infusion; for the best we have are comminuible without it; and are fo far from breaking hammers, that they fubmit unto pistillation, and resist not an ordinary pestle.

Upon this conceit arose perhaps the discovery of another; That the blood of a Goat, was Soveraign for the Stone, as it stands commended thousappiceus. by many good Writers, and brings up the composition in the powder of Nicholans, and the Electuary of the Queen of Coleins Orrather because it was found an excellent Medicine for the Stone,

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and its ability commended by some to dissolve the hardest thereof; it might be conceived by amplifying apprehensions, to be able to break a Diamond; and so it came to be ordered, that the Goat should be fed with faxifragous herbs, and, fuch as are conceived of power to break the However it were, as the effect is falle in the one, so is it surely very doubtful in the other. For, although inwardly received, it may be very diuretick, and expulse the stone in the kidney; yet, how it should dissolve, or break that in the bladder, will require a further dispute; and perhaps would be more reasonably tryed by a warm injection thereof. than as it is commonly used. Wherein not with standing, we should rather relye upon the Urine in a Castling's bladder, a resolution of Crabs eyes; or the second distillation of Urine, as Helmont hath commended : or rather (if any fuch might be found) a Chylifactory Menstruum, or digestive preparation, drawn from species or individuals, whose stomacks peculiarly diffolve lapideous bodies.

2. That Glass is for son, according unto common conceit, I know not how to grant. Not only from the innocency of its ingredients, that is. fine fand, and the ashes of glass-wort of fearn, which, in themselves are harmless and useful: or because, I find it by many commended for the stone; but, also from experience, as having given unto dogs above a dram thereof, subtilly powdered in butter or paste, without any visible disturbance.

poyfonous.

The conceit is furely grounded upon the vifible mischief of Glass grofly Why Glass or coursly powdered, for, that indeed is mortally noxius, and effectuheld to be ally used by some, to destroy Mice and Rats; for, by reason of its acuteness and angularity, it commonly excoriates the parts through which it passeth, and sollicits them unto a continual expulsion. upon, there enfues fearful symptoms, not much unlike those which attend the action of poylon. From whence notwithstanding, we cannot with propriety impose upon it that name, either by occult or elementary quality; which he that concedeth will much enlarge the catalogue or lifts of Poyfons. For, many things, neither deleterious by substance or quality, are yet destructive by figure, or some occasional activity. So are Leeches destructive, and by some accounted poyson: not properly, that is, by temperamental contrariety, occult form, or fo much as elemental repugnancy; but, because being inwardly taken, they fasten upon the veins, and occasion an effusion of blood, which cannot be easily stanched. So a sponge is mischievous; not in it self, for, in its powder it is harmles: but, because being received into the stomach it swelleth, and occasioning a continual distension, induceth a strangulation. So Pins, Needles, ears of Rye, or Barley, may be poylon. So Daniel defroyed the Dragon by a composition of three things, whereof, neither was poyfon alone, nor properly all together, that is, pitch, fat, and hair; according as is expressed in the history. Then Daniel took pitch, and fat, and of it

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hair, and did feethe them together, and made lumps thereof, these he put in the Dragons mouth, and so he burst assunder. That is, the sat and pitch being cleaving bodies, and, the hair continually extimulating the parts: by the attraction of the one, nature was provoked to expel, but by the tenacity of the other, forced to retain: so that there being lest no passage in or out, the Dragon brake in pieces. It must therefore be taken of grossy powdered Glass, what is delivered by Grevinus: and, from the same must that Mortal dysentery proceed, which is related by Sanstorius. And, in the same sense shall we only allow a Diamond to be poyson; and whereby, as some relate, Paracelsus himself was poysoned. So even the precious fragments and cordial gems, which are of frequent use in Physick, and, in themselves confessed of useful faculties; received in gross and angular powders, may so offend the bowels; as to procure desperate languors, or cause most dangerous suxes.

That, Glass may be rendred malleable and pliable unto the hammer, many conceive, and some make little doubt: when they read in Dio, Pliny, and Petronius, that one unhappily effected it for Tiberius. Which notwithstanding must needs seem strange, unto such as consider, that bodies are ductile from a tenacious humidity, which so holdeth the parts together; that though they dilate or extend, they part not from each others. That bodies run into Glass, when the volatile parts are exhaled, and the continuating humacur separated: the Salt and Earth, that is, the fixed parts remaining. And therefore, vitrification maketh bodies brittle: as destroying the viscous humours which hinder the disruption of parts. Which may be verified even in the bodies of Mettals. For.

fired out, which made their bodies ductile.

Whose fixed and flying parts are so co-joyned, whose sulphur and continuating principle is so united unto the salt, that some may be hoped to remain, to hinder fragility after vitrification. But, how to proceed, though after frequent corrosion, as that upon the agency of fire, it should not revive into its proper body, before it comes to vitrifie, will

Glass of Lead or Tin, is fragile, when that glutinous sulphur hath been,

prove no easie discovery.

3. That Gold inwardly taken, either in substance, insusion, decoction, or extinction, is a cordial of great efficacy, in sundry Medical uses, although a practise much used, is also much questioned, and by ro mandetermined beyond dispute. There are hereof I perceive two extream opinions; some excessively magnifying it, and probably beyond its denserts; others extreamly vilifying it, and, perhaps below its dements. Some affirming it a powerful Medecine in many diseases, others averring; that so used, it is effectual in none; and, in this number, are very eminent Physicians, Erastus, Duretus, Rondeletius, Brassavolus, and many other; who, beside the strigments and sudorous adhesions from mens. hands,

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hands, acknowledge, that nothing proceedeth from Gold in the usual decoction thereof. Now, the capital reason that led men unto this opinion, was, their observation of the inseparable nature of Gold; it being excluded in the same quantity as it was received, without alteration of

parts, or diminution of its gravity.

Now, herein to deliver fomewhat, which, in a middle way may be entertained; we first affirm, that the substance of Gold is invincible, by the powerfulest action of natural heat; and that not only alimentally in a fubstantial mutation, but also medicamentally in any corporeal conversion. As is very evident, not only in the swallowing of Golden Bullets, but, in the leffer and foliate divisions thereof: passing the stomack and guts even as it doth the throat, that is, without abatement of weight and confistence. So, that it entreth not the veins with those electuaries wherein it is mixed: but, taketh leave of the permeant parts, at the mouthes of the Meseraicks, and accompanieth the inconvertible portion unto the fiedge. Nor, is its fubitantial conversion expectible in any composition or aliment wherein it is taken. And, therefore that was truly a starving absurdity, which befel the wishes of Midas. And, little credit there is to be given to the Golden Hen, related by Wendlerus. So in the extinction of Gold, we must not conceive it parteth with any of its falt or diffoluble principle thereby, as we may affirm of Iron; for, the parts thereof are fixed beyond division: nor, will they separate upon the strongest test of fire. This we affirm of pure Gold: for, that which is currant and passeth in stamp amongst us, by reason of its allay, which is a proportion of Silver or Copper mixed therewith; is actually dequantitated by fire, and possibly by frequent extinction.

Secondly, Although the substance of Gold be not immuted, or its gravity sensibly decreased, yet, that from thence some vertue may proceed, either in substantial reception or insusion we cannot safely deny. For, possible it is, that bodies may emit vertue and operation without abatement of weight; as is most evident in the Loadstone, whose effluencies are continual, and communicable without a minoration of gravity. And, the like is observable in bodies electrical, whose emissions are less substile. So will a Diamond or Saphire emit an effluvium sufficient to move the Needle or a Straw, without diminution of weight. Nor, will polished Amber although it send forth a gross and corporal exhalement, be found a long time desective upon the exactest scales. Which is more easily conceivable in a continued and tenacious effluvium, whereof a great part retreats into its body.

Thirdly, If amulets do work by emanations from their bodies, upon those parts whereunto they are appended, and are not yet observed to abate their weight; if they produce visible and real effects by imponderous and invisible emissions; it may be unjust to deny the possible

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efficacy of Gold, in the non-omissition of weight, or dependition of any ponderous particles.

Laftly, Since Stibium or Glass of Antimony, since also its Regulus wil manifestly communicate unto water or wine, a purging and vomitory operation; and yet the body it self, though after iterated insusions cannot be found to abate either vertue or weight: we shall not deny but Gold may do the like; that is, impart some effluences unto the insusion, which carry

with them the separable subtilties thereof.

That therefore, this mettal thus received, hath any undeniable effect, we shall not imperiously determine; although, beside the former experiments, many more, may induce us to believe it. But since the point is dubious, and not yet, authentically decided, it will be no discretion to depend on disputable remedies; but rather in cases of known danger, to have recourse unto medicines of known and approved activity. For, beside the benefit accruing unto the sick, hereby may be avoided a gross and frequent error; commonly committed, in the use of doubtful remedies, conjoyntly with those which are of approved vertues; that is, to impute the cure unto the conceited remedy, or place it on that, whereon they place their opinion. Whose operation although it be nothing, or its concurrence not considerable; yet doth it obtain the name of the Whose Cure: and carrieth often the honour of the capital energie, which had no singer in it.

Herein exact and critical trial should be made by publick enjoinment: whereby determination might be settled beyond debate: for since thereby, not only the bodies of men, but great Treasures might be preserved, it is not only an error of Physick, but folly of State, to doubt thereof any

longer.

That a pot full of ashes, will still contain as much water as it would without them, although by Aristotle, in his problems, taken for granted, and so received by most, is not effectible upon the strictest experiment I could ever make. For when the aiery intersticies are filled, and as much of the falt of the affies, as the water will imbibe, is diffolved; there remains a groffe and terreous Portion at the bottom; which will possesse a space by its self; according whereto there will remain a quantity of water not receivable; so will it come to passe in a pot of Salt, although decrepitated; and so also in a pot of Snow. For so much it will want in reception, as its folution taketh up; according unto the bulk whereof, there will remain a portion of water not to be admitted. So a glass stuffed with pieces of spunge will want, about a fixt part of what it would receive without it. So Sugar will not diffolye beyond the capacity of the water; nor a mettal in agua fortis be corroded beyond its reception. And so a pint of salt of Tartar exposed unto a moitt air untill it diffolve, will make far more liquor, or as some term it oyl, than the former measure will contain.

Nor, is it only the exclusion of air by water, or repletion of cavities

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possessed thereby, which causeth a pot of ashes to admit so great a quantity of water, but also the solution of the salt of the ashes into the body of the dissolvent. So a pot of ashes will receive somewhat more of hot water than of cold, for the warm imbibeth more of the falt; and a glaffe vessel of ashes, more than of pin-dust, or filings of Iron; and a glass full of water, will yet drink in a proportion of falt or fugar without overflowing.

Neverthelesse to make the experiment with most advantage; and in which sense it approacheth nearest the truth, it must be made in ashes throughly burnt, and well reverberated by fire, after the falt thereof hath been drawn out, by iterated decoctions. For then, the body being reduced nearer unto earth, and emptied of all other principles, which had former ingression unto it, becometh more porous, and greedily drinketh in water. He that hath beheld what quantity of lead, the Test of saltless ashes will imbibe, upon the refining of Silver, hath encouragement to think it will do very much more in water.

Powder.

. Of white powder, and fuch as is discharged without report, there is T'e ingredi. no small noise in the world. But how far agreeable unto truth, few I perents of Gun- ceive are able to determine. Herein therefore to satisfie the doubts of some, and amuse the credulity of others. We first declare; that Gunpowder confisteth of three ingredients, Salt-peter, Small-coal, and Brimstone. Saltpeter, although it be also natural and found in several places; yet is thatof common use an artificial Salt, drawn from the infusion of Salt earth, as that of Stales, Stables, Dove houses, Cellars, and other covered places; where the rain can neither dissolve, nor the Sun approach to resolve it. Brimstone is a Mineral body, of fat and inflamable parts, and this is either used crude, and called Sulphur-vive, and is of a sadder colour; or after depuration, such as we have in Magdaleons or rolls, of a lighter yellow. Small-coal is known unto all; and for this, use, is made of Sallow, Willows, Alder, Hafal, and the like; which three, proportionably mixed, tempered, and formed into granulary bodies, do make up that Powder which is in use for Guns.

Now all these, although they bear a share in the discharge, yet have they diffinet intentions, and different offices in the composition. From Brimstone proceedeth the piercing and powerful firing: For Small-coal and Peter together will onely spit, not vigorously continue the ignition. From Small coal ensueth the black colour and quick accention; for neither Brimstone nor Peter, although in powder, will take fire like Small-coal; nor will they eafily kindle upon the sparks of a flint; as neither will Camphore, a body very inflamable: but Small-coal is equivalent to tinder, and ferveth to light the Sulphur. It may also serve to diffuse the ignition through every pare of the mixture : and being of more groß and fixed parts, may feem to moderate the activity of Salt-peter, and prevent too hafty rarefaction. From Sale-peter proceedeth the force and the report; for Sulphur

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On y. 24 of Jan. 1663. One Mr Brooks of Hampshire go Whichester bowds his house at Andover in a very bad Weather, a self slave by fyshing, y y. Lorse he rode on under him. for. I'm Winchest. he was found with his face beaten into g. grow beg in y. Nirrup, y. other in y. Horses I have: his Cloathy all bus his Back, n. a piece as big as a Jano kerchief left entire, peal his Bridg Singd. Wit ye lorse y! I have him down, his he beaten into his face, phis Chin unto his Breast, where was a late almost as low as his havel, y. Pieces of his Cloath, were a late almost as low as his havel, y. Pieces of his Cloath, were a late almost as low as his havel, y. Pieces of his Cloath, were a late almost as low as his havel, y. Pieces of his Cloath, were a late of the form of a that a be found; this glos whole, but his hands in em Singd to y. bone. The hip bone of his his horse burnly braid, phis laddle form in little pieces.

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and Small-coal mixed will not take fire with noise, exhibition; and powder which is made of impure and greafie Peter, hath but a weak emission, and giveth a faint report. And therefore in the three forts of powder, the ftrongest containeth most Salt-peter; and the proportion thereof, is about ten

parts of Peter, unto one of Coal and Sulphur.

But the immediate cause of the Report, is the vehement commotion of the air upon the sudden and violent eruption of the Powder; for that being fuddenly fired and almost altogether; upon this high it rarefaction, requiret h by many degrees a greater space then before its body occupied; but finding refistance, it actively forceth his way, and by concussion of the air, occasioneth the Report. Now with what violence it forceth upon the air. may eafily conceived, if we admit what Cardan affirmeth, that the powder fired doth occupy an hundred times a greater space than its own bulk : or rather what Snellins more exactly accounterh; that it exceedeth its former space no less then 1 2000. and 500 times. And this is the reason not onely of this fulminating report of Guns, but may refolve the cause of those terrible cracks, and affrighting noises of Heaven; that is, the nitrous and fulphurous exhalations, fet on fire in the clouds; whereupon requiring a larger place, they force out their way, not only with the breaking of the cloud, Vide Exect of but the laceration of the air about it. When if the matter be spirituous, and the cloud compact, the noise is great and terrible: If the cloud be thin, and the Materials weak, the eruption is languid, ending in corufcations and flashes without noise, although but at the distance of two Miles; which is effeemed the remotest distance of clouds. And therefore such lightnings The cause of do seldom any harm. And therefore also it is prodigious to have thunder Earth quake, in a clear sky, as is observably recorded in some Histories:

From the like cause may also proceed subterraneous Thunders and Earth-The greate't quakes; when sulphureous and nitrous veins being fired upon rarefaction, diffances of do force their way through bodies that refift them. Where if the kindled the Clouds. matter be plentiful, and the Mine close and firm about it, subversion of Hills and Towns do sometimes follow: If scanty, weak, and the Earth hollow or porous; there only ensueth some faint concustion or tremulous, and quaking Motion. Surely, a main Reason why the Ancients were fo imperfect, in the Doctrine of Meteors, was their Ignorance of Gunpowder and Fire-works, which best discover the causes of many there-

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Now therefore he that would destroy the Report of Powder, must workupon the Peter; he that would exchange the colour, must think how to alter the Small-coal. For the one, that is, to make white powder; it is furely many wayes feafible: The best I know, is by the Powder of rotten Willows; Spunk or Touch-wood prepared, might perhaps make it Ruffet: is Beringuccio affirmeth, have promised to make it Red. All which notwithstanding doth little concern the Report; for that, as we have shewed, depends on another Ingredient. And therefore also under the colour of

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black, this principle is very variable; for it is made not onely by willow, Alder, Hazel, &cc. But some above all commend the coals of Flax and Rushes; and some also contend, the same may be effected with Tinder.

As for the other, that is, to destroy the Report, it is reasonably attemptted but two wayes; either by quite leaving out, or elfe by filencing the Salt-peter. How to abate the vigour thereof, or filense its bombulations a way is promised by Porta, not onely in general terms by some fat bodies, but in particular by Borax, and butter, mixed in a due proportion; which faith the, will so go off as scarce to be heard by the discharger; and indeed plentifully mixed, it will almost take off the Report, and also the force of the charge. That it may be thus made without Salt-peter, I have met with but one Example, that is, of Alphonsus Duke of Ferrara; who in the relation of Brassavolus and Cardan, invented such a Powder, as would difcharge a bullet without Report.

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That therefore white powder there, may be, there is no absurdity; that also such an one, as may give no Report, we will not deny a possibility. But this however, contrived either with or without Salt-peter, will furely be of little force, and the effects thereof no way to be feared: For as it omits of Report, so will it of effectual exclusion; and so the charge be of fittle force, which is excluded. For thus much is reported of that famous Powder of Alphon'us, which was not of force enough to kill a Chicken according to the delivery of Brasavolus. Jamque pulvis inventus est qui glandem fine bombo projicit, net tamen vekem:nter ut vel pullum interficere

It is not to be denied, there are waies to discharge a bullet not onely: with powder that makes no noise, but without any powder at all; as is done by water and Wind-guns; but these afford no fulminating Report, and. depend on fingle principles. And even in ordinary powder there are pretended other waies, to alter the noise and strength of the discharge; and the best, if not onely way, consists in the quality of the Nitre: for as for other waies which make either additions or alterations in the Powder, or charge, I find therein no effect. That unto every pound of Sulphnr, an adjection of one ounce of Quick-filver, or unto every pound of Peter one once of Sal Armoniac will much intend the force, and confequently the Report, as Beringuecio hath delivered, I find no successe therein. That a piece of Opium will dead the force, and blow, as some have promiled, I find herein no such peculiarity, no more then in any Gum or viscose body: and as much effect there is to be found from Scammony. That a Bullet dipped in oyl by preventing the transpiration of air, will carry farther, and pierce deeper, as Porta affirmeth, my experience cannot difcern. That Quick-filver is more dest uctive than shot, is surely not to be made cut; for it will scarce make any sene ration, and, discharged from a Pistol, will hardly pierce through a parchment. That Vinegar, spirits of Wine, N 3

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or the distilled water of Orange pills, wherewith the powder is tempered, are more effectual unto the Report than common water, as some Cat, averti-do premise, I shall not affirm; but may assuredly more conduce unto menti intorno the preservation and durance of the Powder, as Cataneo hath well obser- decro

ved. That the beads of arrows and bullets have been discharged with that force, as to melt or grow red hot in their flight, though commonly received, and taken up by Aristotle in his Meteors, is not to easily allowable by any, who shall consider, that a Bullet of Wax will mischief without melting; that an Arrow or Bullet discharg'd against Linnen or Paper do not fet them on fire; and hardly apprehend how an Iron should grow red hot, fince the swiftest motion at hand, will not keep one red that hath been made red by fire; as may be observed in swinging a red hot Iron about, or fastening it into a wheel; which under that motion will fooner grow cold than without it. That a Bullet also mounts upwards upon the horizontal or point blank discharge, many Artists do allow: who contend that it describeth a parabolical and bowing Line, by reason of its natural gravity inclining

it alwaies downwards.

But, Beside the prevalence from Salt-peter, as Master-ingredient inthe mixture; Sulphur may hold a greater use, in the composition and further activity in the exclusion, than is by most conceived. For Sulphurvive makes better powder then common Sulphur, which nevertheleffe is of a quick accention. For Small-coal, Salt-peter, and Campbire, made into powder will be of little force, wherein notwithstanding there wants not the accending ingredient. And Camphire though it flame well, yet will a not fluth to lively, or defecate Salt-peter, if you inject it thereon, like Sulphur; as in the preparation of Sal prunelle. And laftly, though many waies may be found to light this powder, yet is there none I know to make aftrong vigorous powder of Salt-peter; with ut the admixtion of Sulphur. Arsenic red and yellow, that is, Orpiment and Sandarach may perhaps do fomething, as being inflamable and containing Sulphur in them; but containing also a salt, and Mercurial mixtion, they will be of little effect; and white or Crystalline Arfenic of less; for that being artificial, and sublimed with falt, will not indure flamation.

This Antipathy or contention between Salt-peter and Sulphur upon an actual fire in their compleat and distinct bodies, which invisibly contain them. Thus, is the preparation of Grocus Metallorum; the matter kindleth and flusheth like Gun-powder; wherein notwithstanding, there is nothing but Antimony and Salt-peter. But this proceedeth from the Sulphurof Antimony, not enduring the fociety of Salt-peter; for after three or four accentions through a fresh addition of Peter, the powder will flush no more: for the Sulphur of the Antimony is quite exhaled. Thus Iron inin Aqua fortis will fall into ebullition, with noise and emication, as also a crass and fumid, exhalation; which are caused from this combate of the Sul-

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phur of Iron, with the acid and nitrous spirits of Aqua fortis. - So it is also in Aurum fulminans, or powder of Gold dissolved in Agua Regis, and precipitated with oyl of Tartar, which will kindle without actual fire, and afford a report like Gun-powder; that is, not as Crollius affirmeth, from any Antipathy between Sal Armoniac and Tart r, but rather between the nitrous spirits of Aqua Regis, commixed per minima with the Sulphur of Gold

as Sennereus hath well observed.

6. That Coral (which is a Lythophyton or stone-plant, and groweth at the bottom of the Sea) is fost under water, but waxeth hard in the air, although the affertion of Dioscorides, Pliny, and consequently Solinus, Isidore, Rueus, and many others, and stands believed by most, we have some reason to doubt; especially if we conceive, with common believers, a total softness at the bottom, and this induration to be singly made by the air, not onely from so sudden a petrifaction and strange induration, not easily made out from the qualities of air; but because we find it rejected by experimental er quiries. Johannes Beguinus in his Chapter of the Tincture of Coral, underrakes to clear the world of this Error, from the express exper ment of John Baptista de Nicole, who was Overseer of the gathering of Coral upon the Kingdom of Thunis. This Gentleman, saith he, desirous to find the nature of Coral, and to be resolved how it groweth at the bottom of the Sea; caused a man to go down no less than a hundred fathom, with express to take notice, whether it were hard or foft in the place where it groweth. Who returning, brought in each hand a branch of Coral, affirming it was as hard at the bottom, as in the air where he delivered it.

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The same was also confirmed by a trial of his own, handling it a fathom How Coral of under water before it felt the air. Batius in his accurate Tract De Gemmis a plant be- is of the same opinion; not ascribing its concretion unto the air, but the comes assone coagulating spirts of salt, and ladipisical juyce of the sea, which entring the parts of that plant, overcomes its vegetability, and converts it into a lapidecus substance. And this, saith he, doth happen when the plant is ready to decay; for all Ceral is not hard, and in many concreted parts some parts remain unpetrified, that is, the livelier parts remain as wood, and were never yet converted. Now that plants and ligneous bodies may indurate under water without approachment of air, we have experiment in Coralline, with many Coralloidal concretions, and that little stony plant which Mr. Johnson nameth Hippuris Carolloides and Gesner folis mansu Arenosis, we have found in fresh water; which is the less concretive portion of that Element, We have also with us the visible petrification of wood in many waters; whereof fo much with waters converteth into flone; as much as is above it and in the air, retaineth the form of wood, and con-

Now though in a middle way we might concede, that some are soft and others hard; yet whether all Coral were first of a woody substance, and afterward converted; or rather some thereof were never such, but from the [prouting

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fprouting spirit of salt, were able even in their stony natures to ramisse and send forth branches; as is observable in some stones, in silver and Metalical bodies, is not without some Question. And such at least might some of those be, which Fiarounti observed to grow upon bricks at the bottom of the

Sea, upon the coast of Barbarie.

7. We are not throughly resolved concerning Porcellane or China-dishes, that according to common belief they are mide of Earth, which lieth in preparation about an hundred years under ground: for the relations thereof are not only divers, but contrary; and Authors agree not herein. Guido Pancirollus, will have them mide of Egg-shells, Lobsters-shells, and Gypsum laid up in the Earth, the space of eighty years: of the same affirmation is Scaliger, and the common opinion of most. Ramuzius in his Navigations is of a contrary affection; that they are made out of Earth, not laid under ground, but hardened in the Sun and Wind, the space of fourty years. But Gonz eles de Mendaza, a man imployed in ocular expe- of what matrience delivered a way different from all these. For, enquiring into the ter the Chi-Artifice thereof he found they were made of a Chalky Earth; which beaten na diffies be and sleeped in water, affordeth a Cream or Fatness on the top, and a made. gross subsidence at the bottom; out of the cream or superfluitance, the finest dishes, faith he, are made; out of the residence there f the coarse r; which being formed, they gild or paint, and not after an hundred years, but presently commit unto the furnace. This, faith he, is known by experience, and more probable than what Odoardus Barbosa hath delivered; that they are made of shells, and buried under earth an hundred years. And answerable in all points hereto, is the relation of Linschotten, a diligent enquirer, in his Orential Navigations. Later confirmations may be had from Alvarez the Jesuit, who lived long in those parts, in his Rela ions of China. That Porce lane Vessels were made but in one Town of the Province of Chiams: That the Earth was brought out of other Provinces, but for the advantage of water which makes them more polite and perspicuous, they were onely made in this. That they were wrought and fashioned like those of other Countries, whereof some were tincted Blew, some Red; others Yellow, of which colour only they presented un-

Now if any enquire, why being so commonly made, and in so short a time, they are become so scarce, or not at all to be had? The answer is given by these last Relators, that under great penalties it is forbidden to carry the first sort out of the Country. And of those surely the properties must be verified, which by Scaliger and others are ascribed to China-dishes; That they admit no poyson, That they strike fire, That they will grow hot no higher than the Liquor in them ariseth. For such as pass amongst us, and under the name of the finest, will only strike fire, but not discover Accounts. Me carry, or Arsenck; but may be useful in dysenteries and fluxes

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8. Whether a Carbuncle (which is esteemed the best and biggest of Rubies) doth flame in the dark, or shine like a coal in the night, though generally agreed on by common believers, is very much questioned by ma-By Millins; who accounts it a vulgar Error: By the learned Barius; who would not find it verified, in that famous one Rodalphus, which was as big as an Egg, and esteemed the biggest in Europe. Wherefore although we dispute not the possibility, whether herein there be not too high an apprehension, and above its natural radiancy, is not with out just doubt : however it be granted a very splendid Gem and whose sparks may somewhat refemble the glances of fire; and Metaphorically deferve that name. And therefore when it is conceived by some, that this stone in the Brestplate of Aaron respected the Tribe of Dan, who burnt the City of Lash; and Sampson of the same tribe, who fired the Corn of the Philistims; in some sense it may be admitted, and is no intoler able conception.

As for that Indian stone, that shined so brightly in the Night, and pre-Licet de que- tended to have been shewn to many in the Court of France, as Andreas fit per Epif. Chi ceus hath declared out of Thuanus; it proved but an imposture, as eminent Philosopher Licetus hath discovered; and therefore in the revised Editions of Thuanus, it is not to be found. And as for the Phosphorus or Bononian Stone, which, exposed unto the Sun, and then closely shut up, will afterward afford a light in the dark; it is of like confideration, for that re-Licet de laidep quireth calcination, or reduction into a dry powder by fire; wherein it imbibeth the light in the vaporous humidity of the air about it; and therefore maintaineth its light not long, but goes out when the vaporous vehicle is confumed.

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9. Whether the Erites or Eag'e-Rone hath that eminent property to promote Delivery, or restrain abortion, respectively applied to lower or upward parts of the body, we shall not discourage common practise by our question: but whether they answer the account thereof, as to be taken out of Eagles-nest;, co-operating in women unto such effects, as they are conceived towards the young & gles: or whether the fingle fignature of one stone included in the Matrix and Belly of another, were not sufficient at first to derive this vertue of the pregnant Stone, upon others in impregnation, may yet be farther confidered. Many forts there are of this rathing Stone, beade the Geodes, containing a fofter substance in it. Divers are found in of England, and onewe met with on the Sea-shore, but because many of emi-Theodorus Jo. nent uf are pretended to be brought from Island wherein are several ayries

la Pastor

nas Hitterda Eagles; we cannot omit to deliver, what we received from a learned person in that country, Etites an inquidis Apuilarum aliquando fuerit repertus. nescio. N stra certe memoria, etiam inquirentibus non contigit invenisse, quare in fabulis habendum.

10 Terrible apprehensions and answerable unto their names, are raised of Fairy Stones, and Elves sputs found commonly with us, in Stone, Chalk and Chalk-ps,, which notwithstanding are no more then Echinomitrites and,

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Belemnites, the Sea-hedg-hog, and the Dart-stone, arising from some siliceous Roots, and softer than that of slint; the master-stone, lying more regularly in courses, and arising from the primary and strongest spirit of the Mine. Of the Echinites, such as are found in Chalk-pits are white, glassy, and built upon a Chalky Inside; some of an hard and slinty substance are found in Stone-pits and else-where, Common opinion commendeth them for the Stone; but are most practically used against Films in Horses eyes.

11. Lastly, He must have more Heads, than Rome had Hills, that makes out half of those vertues ascribed unto stones, and their not only Medical, but Magical proprieties, which are to be sound in Authors of great Name: In Psellus, Serapion, Evax, Albertus, Aleazer, Marbodeo; in Majolus,

Ruens, Mylins, and many more.

That, Lapis Lasuli, hath in it a purgative Faculty, we know; that Bezoar, is Antidotal, Lapis Judaicus diuretical, Coral Antepileptical, we will not deny. Cornelians, Jaspis, Heliotropes, and Blood-stones, may be of vertue to those intentions they are imployed, experience and visible effects will make us grant. But that an Amethift, prevents inebriation; that an Emerald, will break if worn in copulation. That a Diamond laid under a pillow, will betray the incontinency of a Wife. That, a Saphire is preservative against Inchantments; that the sume of an Agath will avert a tempest, or the wearing of a Crysoprase make one out of love with Gold; as some have delivered, we are yet, I confels, to believe, and in that infidelity are likely to end our dayes. And therefore they, which in the explication of the two Beryls upon the Ephod, or the twelve Stones, in the Rational or Breast-plate of Aron, or those Twelve, which garnished the wall of the Holy City in the Apocalyps, have drawn their fignifications from such as these; or declared their symbolical Verities from such traditional Falsites; have surely corrupted the finceritie of their Analogies, or milunderstood the Mysterie of their intentions.

CHAP. VI.

Of sundry Tenets concerning Vegetables or Plants, which examined prove either false or dubious.

1. Many Mola's and falle conceptions there are of Mandraks: the first, from great Antiquity, conceiveth the Root thereof Resembleth the shape of Man; which is a conceit not to be made out by ordinary inspection, or any other eyes, than such as, regarding the Clouds, behold them in shapes conformable to pre-apprehension.

Now, whatever encourageth the first invention, there have not been wanting many waies of its promotion. The first, a Catachrestical and

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far derived fimilitude, it holds with Man; that is, in a bifurcation or division of the Root into two parts, which some are content to call Thighs: whereas notwithstanding, they are oft-times three, and when but two, commor ly fo complicated and croffed, that men for this deceir, are fain to effect their defign in other Plants; And, as fair a resemblance is often found in Carrots, Parinips, Briony, and many others. There are, I confess, divers plants which carry about them, not only the shape of parts, but also of whole Animals, but furely not all thereof, unto whom this conformity is imputed. Whoever shall peruse the signatures of Crollins, or rather, the Phytognomy of Porta, and strictly observe, how vegetable realities are commonly forced into Animal Representations, may easily perceive in very many, the femblance is but postulatory; and must have a more affimilating phancy than mine to make good many thereof.

Illiterate heads have been led on by the name; which, in the first fyl-

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lible expresseth its Representation; but, others have better observed the Laws of Etymology, and deduced it from a word of the same Language, because it delighteth to grow in obscure and shady places; which derivation, although we shall not stand to maintain, yet, the other seemeth answerable unto the Etymologies of many Authors, who, often confound In the old fuch nominal Notations. Not to enquire beyond our own profession, the Latine Physitians which most adhered unto the Arabick way, have often failed herein; particularly, Valefous de Tarranta, a received Phyfician, in whose Philonium or Medical practice these may be observed; Diarrhea, faith he, Quia pluries venit in die. Herisepila quasi harens pilis, Emorrohis, ab emach (anguis & morrohis quod eft cadere. Lithargia a Litos quod est oblivio & Targus mo bus, Scotomia a Scotus quod est videre, & mias musca. Opthalmia ab Opus Grace quodest succus, & Talmon quod est oculus. Paralysis, quasi latio partis. Fistula à fos sonus, & stolon quod est emissio, quasi emissio soni vel vocis. Which are derivations as strange indeed as the other, and hardly to be parallel'd elsewhere; confounding, not only the words of one Language with another, but, creating fuch, as were never yet in any.

> The received distinction and common notation by Sexes, hath also premoted the conceit; for true it is, that Herbalists from ancient times have thus diffinguished them; naming that the Male, whose leaves are lighter, and fruit and Apples rounder; but this is properly no generative division, but rather, some note of distinction in colour, figure, or operation. For though, Empedocles affirm, there is a mixt and undevided Sex in Vegetables; and Scaliger upon Ariffeele doth favorably explain that opinion; yet, will it not confift with the common and ordinary acception, nor yet with Aristotles definition. For, if hat be Male which generates in another, that Female which procreates in it felf; if it be understood of Sexes conjoyned, all Plants a e Female; and if; of difjoyned and congressive generation, there is no Male or Female in them at all.

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But, the Atlas or main Axis which supported this opinion, was daily experience, and, the visible testimony of Sense. For, many there are in several parts of Europe, who carry about Roots and sell them unto stures tou hignorant people, which, handsomly make out the shape of Man or ing the Root ignorant people, which, handsomly make out the shape of Man or of Mandrake. Woman, But, these are not productions of Nature, but contrivances of Art, as divers have noted, and Mathiolus plainly detected, who learned this way of Trumpery from avagabond Cheater lying under his Cure for the French-Disease. His words are these, and may determine the point, Sed profecto vanum & fabulofum, &c. But this is vain and fabulous, which ignorant people, and fimple women believe; for, the Roots which are carried about by Impostors to deceive unfruitful women, are made of the Roots of Canes, Briony and other Plants: for, in these yet fresh and virent, they carve out the figures of men and women, first sticking therein the grains of barley or millet where they intend the hair should grow; then bury them in fand, until the grains shoot forth their roots, which at the longest wil happen in twenty daies; afterward, clip and trim those tender strings in the fashion of beards and other hairy teguments. All which, like other Impostures, once discovered is easily effected, and in the root of white Brion may be practifed every Spring.

What is therefore delivered in favour thereot, by Authors ancient or Modern, must have its root in tradition, imposture, far derived similitude, or casual and rare contingency. So may we a smit of the Epithet of Pythagoras, who calls it Anthropomorphus; and that of Columella, who terms it Semihomo; more appliable unto the Man-Orchis whose flower thropomorphus represents a man. Thus is Albertus to be received when he affirmeth, cujus icon in that Mandrakes represent Mankind, with the distinction of either Sex. Kircheri Magia Under these restrictions may those Authors be admitted, which for this parastatica. opinion are introduced by Drusius; nor shall we need to question the De mandrago.

monstrous root of Briony described in Aldrovandus. The fecond affertion concerneth its production, That it naturally groweth under gallowses and places of execution, arising from fat or urine that drops from the body of the dead; a story somewhat agreeable unto the fable of the Serpents teeth fowed in the Earth by Cadmus; or rather the birth of Orion from the urine of Jupiter, Mercury, and Neptune. Now, this opinion feems grounded on the former, that is, a conceived similitude it hath with man; and therefore from him in some way they would make out its production: Which conceit, is not only Erroneous in the foundation, but injurious unto Phelosophy in the fuperstruction. Making putrifactive generations, correspondent unto feminal productions; and conceiving in equivocal effects an univocal conformity unto the efficient. Which is fo far from being verified of animals in their corruptive mutations into Plants, that they maintain not this similitude in their nearer translation into Animals. So when the Oxe corrupteth

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corrupteth into Bees, or the Horse into Hornets, they come not forth Generations in the image of their originals. So the corrupt and excrementous huequivocal, are ours in man are animated into Lice; and we may observe, that Hogs, yet common- Sheep, Goats, Hauks, Hens, and others, have one peculiar and proper ly regular, & kind of vermine : not refembling themselves according to seminal connate form or ditions, yet carrying a fetled and confined habitude unto their corruptive originals. And, therefore come not forth in generations erratical. or different from each other; but feem specifically and in regular shapes to attend the corruption of their bodies; as do more perfect conceptions, the rule of feminal productions.

> The third affirmeth, The Roots of Mandrakes do make a noise, or give a shreek upon eradication: which is indeed ridiculous, and false below confute; arifing perhaps from a smal and stridulous noise, which being firmly rooted, it maketh upon divulsion of parts. A slender foundation for fuch a vast conception: for, such a noise we sometime observe in other Plants, in Parsnips, Liquorifh, Eringium, Flags, and others.

> The last concerneth the danger ensuing, That, there follows an hazard of life to them that pull it up, that some evil fate pusues them, and they live not very long after. Therefore the attempt hereof among the Ancients was not in ordinary way, but, as Pliny informeth, when they intended to take up the root of this Plant, they took the wind thereof, and with a fword describing three Circles about it, they digged it up, looking toward the West. A conceit, not only injurious unto truth, and confutable by daily experience, but somewhat derogatory unto the Providence of God; that is, not only to impose so destructive a quality on any Plant, but to conceive, a Vegetable, whose parts are useful unto many, should in the only taking up prove mortal unto any. To think, he suffereth the poyson of Nubia to be gathered, Napellus Aconite and Thora to be eradicated, yet, this not to be moved; that he permitteth Arfenick and mineral poyfons to be forced from the bowels of the Earth, yet not this from the Surface thereof. This were to introduce a fecond forbidden fruit, and inhance the first malediction; making it not only mortal for Ad m to take the one, but capital unto his posterity to eradicate or dig up the other.

> Now what begot, at least promoted so strange Conceptions, might be the Magical opinion hereof; this being conceived the Plant fo much in use with Circe, and therefore named Circea, as Dioscorides and Theophrastus have delivered; which being the eminent Sorceress of elder ftory, and by the Magick of Simples believed to have wrought many wonders; some men are apt to invent, others to believe any tradition or

Magical promife thereof.

Analagous relations concerning other Plants, and fuch as are of near affinity unto this, have made its current smooth, and pass more easily among us. For, the same effect is also delivered by Josephus concerning

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the root Baaras; by Elian of Cynosphastus; and we read in Homer the very fame opinion concerning Moly.

> MEAN So Her xoylover Beol, xoy adr 3 T o, veren Ardedoi ye Syntoin To Seel d'e TR Mayra Suravras. The Gods it Moly call, whose root to dig away, Is dangerous unto Man; but Gods they all things may.

Now Parallels or like relations alternately relieve each other: wle1 neither will pass asunder, yet, are they plausible together; their mutu-

al concurrences supporting their solitary instabilities.

Signaturists have somewhat advanced it; who feldom omitting what Ancients delivered, drawing into inferences received distinctions of fex, not willing to examine its human refemblance; and, placing it in the form of strange and Magical simples, have made men suspect there was more therein, than ordinary practife allowed; and so became apt to embrace whatever they heard or read conformable unto fuch conceptions.

Lastly, The Conceit promoteth it self: for, concerning an effect whose tryal must cost so dear, it fortifies it felf in that invention; and few there are whole experiment it need to fear. For, (what is most contemptible) although not only the reason of any head, but experience of every hand may well convict it, yet will it not by divers be rejected; for, prepoffessed heads will ever doubt it, and timorous beliefs will never dare to try it. So these traditions how low and ridiculous soever, will find fuspition in some, doubt in others, and serve as tests or tryals of

Melancholy, and superflitious tempers for ever.

2. That Cinamon, Ginger, Clove, Mace, and Nutmeg, are but the feveral parts, and fruit of the same tree, is the common belief of those mon, Ginger, which daily use them. Whereof to speak distinctly; Ginger, is the Root are not of the of neither tree nor shrub, but of an herbaceous Plant, resembling the same trees Water-flower-De-luce, as Garcias first described; or rather the common Reed, as Lobelius fince affirmed. Very common in many parts of India, growing either from Root or Seed, which in December and January they take up, and, gently dried, role it up in Earth; whereby occluding the pores, they conferve the natural humidity, and fo prevent corruption.

Cinamon is the inward bark of a Cinamon tree, whereof the best is brought from Zeilan: this, freed from the outward bark, and exposed unto the Sun, contracts into those folds wherein we commonly receive it. If it have not a sufficient insolation, it looketh pale, and attains not its laudable colour; if it be Sunned too long, it suffereth a torrefaction,

and descendeth somewhat below it

Clove feems to be either the rudiment of a fruit, or the fruit it felf growing

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growing upon the Clove-tree; to be found but in few Countries. The most commendable, is that of the Isles of Molucco; it is first white, afterward green, which beaten down and dried in the Sun, becometh black, and in the complexion we receive it.

Nutmeg is the fruit of a tree differing from all these, and, as Garcias describeth it, somewhat like a Peach; growing in divers places, but fructifying in the 1st of Banda. The Fruit hereof consistent of four parts; the first or outward is a thick and carnous covering, like that of a Walnut. The second a dry and social could be commonly called Mace. The third a harder tegument or shell, which lieth under the Mace. The fourth a kernel included in the shell, which is the same we call Nutmeg. All which both in their parts and order of disposure, are easily discerned in those fruits, which are brought in Preserves unto us.

Now if because Mace and Nutmegs, proceed from one Tree, the rest must bear them company; or because they are all from the East-Indies, they are all from one Plant: the Inference is precipitons; nor will there such a Plant be found in the Heibal of Nature.

3. That Viscous Arboreous or Miffeltoe is bred upon trees, from seeds which birds, especially Thrushes, and Ring-doves let fall thereon, was the Creed of the Ancients, and is still believed among us; is the account of its production, is fet down by Pliny, delivered by Virgil, and subscribed by many more. If io, some reason must be affigned, why it groweth only upon certain Trees, and not upon many whereon thefe birds do light. For as Exotick observers deliver, it groweth upon Almond-Trees, Chefaut, Apples, Oakes, and Pine-trees; As we observe in England, very commonly upon Apple, Crabs, and White-thorn, fometimes Sallow, Hazel, and Oak: rarely upon Ash and Maple; never, that I could observe, upon Holly, Elm, and many more. Why, it groweth not in all Countries, and places where these birds are found; for so Braffavolus affirmeth, it is not to be found in the Territory of Ferrara; and was fain to supply from other parts of Italy. Why if it arifeth from a feed, if fown it will not grow again, as Pliny affirme.h, and as by fetting the Berries thereof, we have in vain attempted its production; why if it cometh from feed that falleth upon the tree it groweth often down-wards, and puts forth under the bough, where feed can neither fall nor yet remain. Hereof befide some others, the Lord Verulam hath aken notice. And furely speak they probably who make arboreous excreicence, or rather super-plant, bred of viscous and superfluous sap, which the tree it felf cannot affimulate. And therefore sprouteth not forth in boughs and furcles of the same shape, and similary unto the tree that beareth it; but in a different form, and secondary unto its specifical intention; wherein one failing, another form succeedeth: and in the first place, that of Misseltoe, in plants and trees disposed to its production. And therefore also where ever it groweth, it is of constant shape, and maintains a regular figure; like other supercrescences, and such as live upon the stock of

What the Misseltoe in fome trees is.

others, are termed paralitical plants, Polypody, Mols, the smaller Capillaries, and many more: So that feveral Regions, produce feveral Miffeltoes; India one, America another, according to the Law and Rule of their

degenerations.

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Now what begot this conceit, might be the enlargment of some part of truth contained in its flory, For certain it is, that some birds do feed upon the Berries of this Vegetable, and we meet in Arifotle, with one kind of Thrush called the Missel Thrush or feeder upon Misseltoe. But that hath most promoted it, is a received Proverb, Turdus sibi m lum cacat ; 15000. Appliable unto such men as are Authors of their own misfortune, For according unto Ancient tradition, and Plinies relation, the bird not able to digest the fruit whereon she feedeth; from her inconverted Muting, ariseth this plant of the berries whereof birdlime is made wherewith the is after entangled. But although Proverbs be popular principles, yet is not all t ue. that is proverbial; and in many thereof there being one thing delivered. and another intended; though the verbal expression be falle, the proverb is true enough in the verity of its intention,

As for the Magical vertues in this plant, and conceived efficacy unto veneficial intentions, it seemeth a pagan Relique derived from the Ancient Paganish su-Druides, the great admirers of the Oak; especially the Misseltoe that grew perstirion athereon; which according unto the particular of Pliny, they gathered with bout the great solemnity. For after sacrifice the Priest in a white garment ascended Mill It e of the tree, cut down the Miffeltoe with a golden Hook, and received it in a the Oak. white coat; the vertue whereof was to relift all poylons, and make fruitfull any that used it. Vertues not expected from Classical practice; And did they answer their prom fe which are so commended, in Epileptical intentions; weshould abate these qualities. Country practice hath added another; to provoke the after-birth, and in that case the decoction is given unto Cows. That the berries are poylon as some conceive, we are so far from averring, that we have fafely given them inwardly; and can confirm the experiment of

Braffavolus, that they have some purgative quality.

4. The Role of fericho, that flourishes every year about Christmas Eve, is famous in Christian reports, which notwithstanding we have some reason to doubt; and are plainly informed by Bellonius, it is but a Monastical imposture; as he hath delivered in his observation, concerning the plants in fericho. That which promoted the conceit, or perhaps begot its continuance, was a propriety in this plant. For though it be dry, yet will it upon imbition of moisture dilate it leaves, and explicate its flowers contracted, and seemingly dried up. And this is to be effected, not only in the plant yet growing, but in some manner also in that which is brought exuccous and dry Which quality being observed, the subtilty of contrivers did commonly play this thew upon the Eve of our Saviours Nativity; when by drying the plant again, it closed the next day, and so pretended a double My-Herie: referring unto the opening and cloting of the womb of Mary.

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Cap .24.

There wanted not a specious confirmation from a Text in Ecclesiasticus Quasi palma exa'ta a sum in Cad s, & quasi plantatio Rosa in Jericho: I was exalted like a Palm-tree in Engaddi, and as a Rose in Jericho. The found whereof in common Ears, begat an extraordinary opinion of the Role of that denomination. But herein there seemeth a mistake; for by the Rose in the Text, is implied the true and proper Role; as first the Greek, and ours, accordingly rendereth it. But that which paffeth under this name, and by us is commonly called the Rose of feric'o, is propetly no Rose, but a small Shrub or kind of heath, bearing little white flowers, far differing from the Rose; whereof Bellonius, a very inquisitive Herbalist, could not find any in his Travels thorow Jericho. A plant so unlike a Rose, it hath been miltaken by some good Simplifts for Amamum; which truly understood, is so unlike a Rose, that as Dioscorides delivers, the flowers thereof are like the white violet, and its leaves retemble Bryonie.

Surable unto this relation, almost in all points is that of the thorn at Glaffenbury, and perhaps the Daughter thereof: herein our Indeavours as yet have not attained Satisfaction, and cannot therefore enlarge. Thus much in general, we may observe that strange effects, are naturely taken for Miracles by weaker heads; and artificially improved to that apprehension by wifer. Certainly many præcocius trees, and fuch as spring in the Winter, may be Such a thorn found in most parts of Europe, and divers also in England. For most trees do begin to sprout in the fall of the leaf or Autumn, and if not kept back by Parham Park cold and outward causes, would leaf about the Solftice. Now if it happen,

there is in eliewhere.

in suffol A and that any be so strongly constituted, as to make this good against the power of winter, they may produce their leaves or bloffoms in that feafon. And perform that in some fingles, which is observable in whole kinds; as in Ivy, which bloffoms and bears at least twice a year, and once in the winter; as

also in Furze which flowereth in that season.

That ferrum Equinum, or Sferra Cavillo hath a vertue attractive of Iron a power to break locks, and draw off the shooes of a horse that passeth over it; whether you take it for one kind of Securidaca, or will also take in Lunaria, we know it to be false: And cannot but wonder at Mathielus, who upon a parallel in Pliny was staggered into suspension. Notwithstanding in the imputed vertue to open things, close and thut up, could laugh himself at that promise from the herb Æthiopis or Æthiopian mullen; and condemn the judgment of Scipio, who having such a pick-lock, would spend so many years in battering the Gates of Carthage. Which strange and Magical conceit, seems to have no deeper reason, than the figure of its seed; for therein indeed it somewhat resembles a horse-shoo; which notwithstanding Bastista porta hath thought too low a figuation, and raised the same unto a Lunary redresentation.

6. That Bayes will protect from the mischief of lightning and thunder, is a quallity ascribed thereto, common with the fig-tree, Eagle, and skin of a Seal. Against so famous a quality, Vicomercatus produceth experiment ficu

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of a Bay-tree blafted in Italy. And therefore, although Tiberius for this intent, did wear a Lawrel upon his Temples; yet did Ang frus take a more probable course, who fled under Arches, and hollow Vaults for protection. And though Porta conceive, because in a streperous eruption, it riseth against fire, it doth therefore refift Lightning, yet is that no emboldning Illation. And if we consider, the threefold effect of Jupiter's Trisule, to burn, discuis, and terebrate: and if that be true which is commonly delivered, that it will melt the Blade, yet pass the Scabbard, kill the Child, yet spare the Mother, dry up the Wine, yet leave the Hogshead intire; though it favour the Amulet, it may not spare Us; it will be unfure to relye on any preservative; 'tis no fecurity to be dipped in Styx, or clad in the armour of Ceness. Now that Beer, Wine, and other Liquors, are spoiled with Lightning How Beer an and Thunder, we conceive it proceeds not only from noise and concussion of Wine come the ayr, but also noxious spirits, which mingle therewith, and draw them to corruption; whereby they become not only dead themselves, but sometime deadly unto others, as that which Sineca mentioneth; whereof who-

foever drank, either loft his life, or elfe his wits upon it.

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7. It hath much deceived the hopes of good fellows, what is commonly expected of bitter Almonds, and though in Plutarch confirmed from the practife of Claudius his Physitian, that Antidote against ebriety hath commonly failed. Surely men much verst in the practise, do err in the theory of Inebriation; conceiving in diffurbance, the brain doth only suffer from exhalations and vaporous ascentions from the stomack, which fat and oylie substances may suppress. Whereas the prevalent intoxication is from the spirits of drink dispersed into the veins and arteries; whence by common conveyance they creep into the brain, infinuate into its ventricles, and beget those vertigoes, accompaning that perversion. And therefore the same ef- How Berksn feet may be produced by a Gliffer; the head may be intoxicated by a medicine intoxica ,tdi at heel. So the poylonous bites of Serpents, although on parts at distance or overcome from the head, yet having entered the veins, disturb the animal faculties, and men. produce the eff: cts of Drink, or Poylon swallowed. And so as the head may be diffurbed by skin, it may the same way be relieved; as is observable in balneations, washings, and fomentations, either of the whole body, or of that part alone.

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CHAP. VII.

Of some Insects, and the properties of several Plants.

1. He presage of the year succeeding which is commonly made from Infects, or little Animals in Oak-apples, according to the kinds thereof, either Maggot, Fly, or Spider; that is, of Famine, War, or Pestilence; whether we mean that woody excrescence, which shooteth from the branch about May, or that round and Apple-like accretion, which groweth under the leaf, about the latter end of Summer, is I doubt

too diffinct, nor verifiable from event,

For, Flies and Maggots are found every year; very seldom Spiders: And Helmont affirmeth, he could never find the Spider and the Fly upon the same Trees, that is, the signes of War and Pestilence, which often go together: Beside, That the Flies found, were at first Maggots, experience hath informed us; for, keeping these excrescencies, we have observed their conversions; beholding in Magnifying-Glasses, the daily progression thereof. As may be also observed in other Vegetable excretions; whose Maggots do terminate in Flies of constant shapes; as in the Nutgalls of the Outlandish-Oak, and the Mossie tust of the wild Briar; which having gathered in November, we have found the little Maggots which lodged in woodden Cels all Winter, to turn into Flies in June.

We confess the opinion may bold some verity in the Analogy, or Emblematical Phancy. For, Pestilence is properly fignified by the Spider, whereof, some kinds are of a very venemous Nature. Famine, by Maggots; which destroy the fruits of the Earth. And War, not improperly by the Fly; if we rest in the phancy of Homer, who compares the

valiant Grecian unto a Fly.

Some verity it may also have in it self, as truly declaring the corruptive constitution in the present sap and nutrimental juyce of the Tree; and may consequently discover the disposition of that year, according to the plenty or kinds of these productions, For, if the putrifying juyces of bodies, bring forth plenty of Flies and Maggots, they give testimony of common corruption, and declare, that the Elements are full of the feeds of putrifaction; as the great number of Caterpillers, Gnats, and Abundance ordinary Insects do also declare. If they run into Spiders, they give of Hie, Mag- fignes of higher putrefaction, as plenty of Vipers and Scorpions are may they na- confessed to do; the putrefying Materials producing Animals of higher turally figni. Mischiess, according to the advance and higher strain of corrupti-

2. Whether all Plants have feed, were more easily determinable, if we could conclude concerning t a ts-tongue, Fern, the Capillaries and

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fome others. But, whether those little dusty Particles, upon the lower side of the leaves, be feeds and seminal parts; or rather, as it is commonly conceived, excremental separations, we have not been able to determinate by any germination or univocal production from them. Thus much we observe, that they seem to renew yearly, and come not fully out, till the Plant be in its vigour: and, by the help of Magnifying-Glasses, we find these dusty Atoms to be round at first, and, fully representing seeds; out of which proceed little Mites, almost invisible; so that such as are old stand open, as being emptied of some bodies formerly included; which, though discernable in Harts-tongues, is more notoriously discoverable in some differencies of Brake or Fern.

3. Whether the sap of trees runs down to the Roots in Winter, whereby they become naked and grow not; or whether they do not cease to
draw any more, and reserve so much as sufficeth for conservation, is not
a point indubitable. For we observe, that most trees, as though they
would be perpetually green, do bud at the sall of the leaf; although
they sprout not much forward until the Spring, and warmer weather approacheth, and many Trees maintain their leaves all Winter, although
they seem to receive very small advantage in their growth. But that the
sap doth powerfully rise in the Spring, to repair that moisture whereby
they barely subsisted in the Winter, and also, to put the Plant in capacity
of fructification; he that hath beheld how many gallons of water may in
a small time be drawn from a birch-tree in the Spring, hath slender reafon to doubt.

4. That Camphire, or Eunuchates, begets in Men an impotency unto venery, observation will hardly confirm; and, we have found it to fail in Cocks and Hens, though given for many daies; which was a more favorable trial than that of Scaliger, when he gave it unto a Bitch that was proud. For, the instant turgescence is not to be taken off, but, by Medicines of higher Natures; and, with any certainty, but one way that we know; which notwithstanding, by suppressing that natural eva-

cuation, may incline unto Madness, if taken in the Summer.

5. In the History of Prodigies we meet with many showers of Wheat; how true or probable, we have not room to debate. Only thus much we shall not omit to inform; That, what was this year found in many places, and almost preached for Wheat rained from the clouds; was but the seed of Ivy-berries, which somewhat represent it; and, though it were found in Steeples, and high places, might be conveighed thither, or Muted out, by birds: for, many feed thereon, and in the crops of some we have found no less than three ounces.

6. That every Plant might receive a Name according unto the difease it cureth, was the wish of Paracelsus. A way more likely to multiply Empericks than Herbalists; yet, what is practised by many, is advantagious unto neither; that is, relinquishing their proper appellations,

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to re-baptize them by the name of Saints, Apostles, Patriachs, and Martyrs; to call this the herb of John, that of Peter, this of James or Joseph, that of Mary or Barbara. For, hereby apprehensions are made additional unto their proper Natures; whereon, superstitious practifes ensue; and stories are framed accordingly, to make good their foundations.

7. We cannot omit to declare the gross mistake of many in the Nominal apprehension of Plants; to instance but in few. An Herb there is commonly called Betonica Pauli, or Pauls Betony; hereof, the people have some conceit in reference to St. Paul; whereas indeed that name is derived from Paulus Egineta, an ancient Physitian of Egina, and is no more than Speed-well, or Fluellen. The like expectations are raised from Herba Trinitatis; which notwithstanding obtaineth that name from the Figure of its leaves, and is one kind of Liverwort, or Hepatica. In Milium Solis, the Epithete of the Sun hath enlarged its Opinion; which hath indeed no reference thereunto, it being no more than Lithospermon, or Grummel, or rather Milium Soler; which, as Serapion from Aben Julier hath taught us, because it grew plentifully in the Mountains of Soler, received that Appellation. In fews-ears fomething is conceived extraordinary from the Name, which is in propriety but Funthe gus Sambucinus, or an excrescence about the Roots of Elder, and concerneth not the Nation of the Jews, but Judas Iscariot, upon a conceit, used for fore he hanged on this Tree; and is become a samous Medicine in Quinsies, fore-Throats, and strangulations ever fince. And, so are they deceived in the name of Horfe-Radift, Horfe-Mint, Bull-Ruft, and many more: conceiving therein some prenominal consideration; whereas, indeed that expression is but a Grecism; by the prefix of Hippor and Bous, that is, Horse and Bull, intending no more than Great. According whereto the great Duck is called Hippo-lapathum; and, he that calls

> 8. Lastly, Many things are delivered and believed of other Plants, wherein at least, we cannot but suspend. That there is a property in Basil to propagate Scorpions, and that by the smell thereof, they are bred in the brains of Men, is much advanced by Hollerius, who found this Infect in the brains of a man that delighted much in this smell. Wherein, beside that we find no way to conjoyn the effect unto the cause assigned; herein the Moderns speak but timorously, and some of the Ancients quite contrarily. For, according unto Oribafins, Physician unto Julius, The Africans, men best experienced in Pisons, affirm, Whosoever hath eaten Bafel, although he be stung with a Scorpion, shall feel no pain thereby: which is a very different effect, and rather Antidotally destroying, than Seminally promoting its production.

> the Horse of Alexander, Great-head, expresseth the same which the

Greeks do in Bucephalus.

That the leaves of Cataputia or Spurge being plucked upward, or downward

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downward respectively perform their Operations by Purge or Vomit, as some have written, and old wives still do preach, is a strange Conceit, ascribing unto Plants positional. Operations, and after the manner of the Loadstone; upon the Pole whereof, if a knife be drawn from the handle unto the point, it will take up a Needle; but, if drawn again

from the point to the handle, it will attract it no more,

That Cucumbers are no commendable Fruits; that being very waterish, they fill the Veins with crude and windy ferofities; that containing little Salt or Spirit, they may also debilitate the vital acidity, and fermental faculty of the flomach, we readily concede. But that they should be so cold, as to be almost Poyson by that quality, it will be hard to allow, without the contradiction of Galen: who accounteth them cold, but, in the fecond degree, and in that Classis have most tomia Sambu-Phyfitians placed them,

That Elder-berries are Poyfon, as we are taught by tradition, experience will unteach us. And, beside the promises of Blochwitins, the

healthful effects thereof daily observed will convict us.

That an Ivy-Cup will separate Wine from Water, if filled with both the Wine foaking through, but the water still remaining, as after Pliny many have averred, we know not how to affirm; who making tryal thereof, found both the liquors to foak indistinctly through the bowl.

That sheep do often get the Rot, by feeding in boggy grounds where Ros-folis groweth, feems beyond dispute. That this Herb is the cause thereof, shepherds affirm and deny; whether it hath a cordial vertue by fudden refection, sensible experiment doth hardly confirm, but that it may have a Balfamical and resumptive Vertue, whereby it becomes a good Medicine in Catarrhs and Consumptive dispositions, practife and Reason conclude. That the lentous drops upon it are not extraneous, and rather an exsudation from it self, than a rorid concretion on from without, beside other grounds, we have reason to conceive; for, having kept the Roots moist and Earthed in close Chambers, they have, though in leffer plenty, fent out these drops as before.

That Flos Africanus is poison, and destroyeth Dogs, in two expe-

riments we have not found.

That Yew and the berries thereof are harmless, we know.

That a Snake will not endure the shade of an Ash, we can deny. Nor is it inconsiderable what is affirmed by Bellonius; for, if his affer- servat, tion be true, our apprehension is oftentimes wide in ordinary Simples, and in common use we mistake one for another. We know not the true Thyme; the Savory in our Gardens, is not that commended of old; and that kind of Hyfop the Ancients used, is unknown unto us, who make great use of another.

We omit to recite the many Vertues, and endless faculties ascribed unto Plants, which sometime occurr in grave and serious Authors; and

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we shall make a bad transaction for truth to concede a verity in half. To reckon up all, it were imployment for Archimedes, who undertook to write the number of the Sands. Swarms of others there are, some whereof our future endeavours may discover; common reason I hope will fave us a labour in many . Whose absurdities stand naked unto every eye; Errors not able to deceive the Emblem of Justice, and need no Argus to descry them. Herein there furely wants expurgatory animadversions, whereby, we might strike out great numbers of

hidden qualities; and having once a ferious and conceded lift, we might with more encouragement and fafety, attempt their Reasons. Alegala he fold, as to be alried Poyton by ther quality it will be have to miles who welcome the control election of Galla, who welcome the

them cold, burying the recond deprees, and in that Cladis have mad once Physique blaced them

Tione Ettel heries are Loylon, using are saught by tradition, easter even e will enneach us. And, befide the promites of Blackness its

Places A. S. Caronil Separate Wise from Naver, if filled wanted .

tine Wine (on ingranench, burithe water fiell remaining, as after Print many have averred, we know not how to aisem; who making tryel

many have averyed, we show and now to seem, who meanly the court, therefore, the both the minute of least indicated variough the bowl, that there is done of the Rods by feeding in borest circulations. The first that the seems is the configure, there is a seem of the configure of the configuration of the co

everuse by fielden refedient fentible expension; doin hardly cor arm. but that it will have a Ballimical and relemptive Vertice, whereby a be-

comes a freed Medic ne in Courses and Confumetive differences profite and the afford comfode, That the ferrous of its upon it are that

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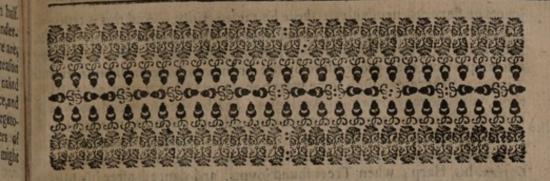
the few and the bereios thereof are harmous, we know it there a deale will not endure the lands of an Ath, we are done

and in common use we midake one for another. Ale those for the

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THE THIRD BOOK

Of divers popular and received Tenents concerning Animals; which examined prove either false or dubious.

CHAP. I.

orion, maintaining the body at learn or in its n

disnougad is an direct of the Elephant.

HE first shall be of the Elephant; whereof there generally passeth an Opinion, it hath no joynts; and this absurdity is seconded with another, that being unable to lie down, it fleepeth against a Tree; which, the Hunters observing, do saw almost afunder; whereon, the Beaft relying, by the fall of the Tree, falls alfo down it felf, and is able to rife no more. Which conceit, is not the daughter of later times, but an old and gray-headed Error, even in the daies of Aristotle, as he delivereth in his book, de incessu animalium, and stands successively related by several other Authors : by Diodorns Siculus, Strabo, Ambrose, Cassiodore, Solinus, and many more. Now, herein me-thinks men much forget themselves, not well considering the

absurdity of such affertions.

For first, they affirm it hath no joynt, and yet concede it walks and moves about; whereby they conceive there may be a progression or gression is advancement made in Motion without inflection of parts. Now, all pro- made in anigreffion, or Animal loco-motion being (as Ariftotle teacheth) performed mals. tractu & pulsu, that is, by drawing on, or impelling forward for e part which was before in flation, or at quiet; where there are to

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joynts or flexures, neither can there be thele actions. And this is true. not only in Quadrupedes, Volatils, and F. Shes, which have distinct and prominent Organs of Motion, Legs, Wings, and Finns; but in fuch allo as perform their progression by the Trunk, as Serpents, Worms, and Leeches. Whereof though some want bones, and all extended articulations, yet have they arthritical Analogies; and, by the Motion of fibrous and Musculous paris, are able to make progression. Which, to conceive in bodies inflexible, and without all protrusion of parts, were to expect a Race from Hercules his Pillars; or hope to behold the effects of Orphens his Harp; when Trees found joynts, and danced after his Mufick.

Toynt-like parts.

> Again, While men conceive they never lie down, and enjoy not the position of rest, ordained unto all pedestrious Animals, hereby, they imagine (what reason cannot conceive) that an Animal of the vastest dimension and longest duration, should live in a continual Motion, without that Alternity and Viciflitude of rest whereby all others continue; and yet must thus much come to pass, if we opinion they lie not

down and enjoy no decumbence at all. For, station is properly no rest, Extensive but one kind of Motion, relating unto that which Physitians (from Ga-Tonical len) do name extensive or tonical; that is, an extension of the Muscles or Organs of Motion, maintaining the body at length, or in its proper figure. Wherein, although it feem to be unmoved, it is not without all Motion; for, in this position the Muscles are sensibly extended, and labour to support the body; which permitted unto its proper gravity, would suddenly subside and fall unro the Earth, as it happeneth in sleep, diseases, and death. From which occult action and invisible Motion of the Muscles in Station (as Galen declareth) proceed more offensive lassitudes than from Ambulation. And, therefore the Tyranny of some have tormented men, with long and enforced station; and though Ixion and Sisiphus which alwayes moved, do seem to have the hardest measure; yet was not Titins savoured, that lay extended upon Caucasus; and Tantalus suffered somewhat more than Thirst, that stood perpetually in Hell. Thus Mercurialis, in his Gymnasticks justly makes flanding one kind of exercise; and Galen when we lie down, commends unto us middle Figures; that is, not to lie directly, or at length, but somewhat inflected, that the Muscles may be at rest; for, such as he termeth Hypobolemaioi or Figures of excess, either shrinking up or Stretching out, are wearisome positions, and such as perturb the quiet of those parts. Now, various parts do variously discover these indolent and quiet positions, some in right-lines, as the wrists; some at rightangles, as the Cubit; others at oblique-angles, as the fingers and the knees: all resting satisfied in postures of Moderation, and, none enduring the extremity of flexure or extension.

Moreover, men herein do strangely forget the obvious relations of History,

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105 O. 145/1 history, affirming they have no joints, whereas they daily read of several actions which are not performable without them. They forget what is delivered by Xiphilinu, and also by Suctionius, in Galba, I hat Herhands havebeen instructed to walk on ropes, in publick shews before the people. Which is not eafily performed by man; and requireth not only a broad root, but a pliable flexure of joints, and commandible dispolure of all parts of pro reffor. They pals by that memorable place in Curtius, concerning the Elephant of King Porus, Indus qui Elephaniem regebat, aescendere eum r atus, more sol to procumbere justit in genua, cateri quoque (ita enim instituiterant) demisere corporain erram. They remember not the expression of O orius, De rebus ge is when he speaks of the Elephant presented to Leo the tenth, Pontificem Emanuelis. ter genibus flexis, & demisso corporis habitu venerabundui salutavit. But above all, they call not to mind that memorable shew of German cus, wherein twelve Elephants danced unto the found of Mulick; and after laid them down in the Tricliniums, or places of festival Recumbency.

They forget the Etymologie of the knee, approved by some Grammarians. They disturb the positions of the young ones in the Womb: which upon extension of legs, is not easily conceivable; and contrary unto the general contrivance of Nature. Nor do they confider the impossible exclusion there-

of, upon extension and rigour of the legs.

Lattly, They forget or confult not experience; whereof not many years past, we have had the advantage in England, by an Elephant shewn in many parts thereof; not only in the posture of standing, but kneeling, and lying down. Whereby although the opinion at present be well suppressed, yet from lome strings of tradition, and fruitfull recurrence of Errer, it is not improbable, it may revive in the next Generation again. This being not the first bath been seen in England; for (besides some other since) as Polidore Virgil relateth, Lewis the French King fent one to Henry the third; ard Emanuel of Portuga' another to Leo the tenth into Italy; where notwith tancing the error is still alive and epidemical, as with us.

The Hint and Ground of this Opinion might be the gross and somewhat Cylindrical composure of the legs, the equality and less perceptible disp fure of the joints, especially in the former legs of this Animal; they a pearing when he flandeth, I'ke Pillars of flesh, without any evidence of a:ticulation. The different flexure and order of the joints might also courtenance the same; being not disposed in the Elephant, as are in other quadrupedes, but carry a nearer conformity unto those of man; that is, the bought of the fore-legs, not directly backwards, but laterally and inward; but the hough or suffraginous flexure behind rather outward. Somewhat different unto many other quadrupedes, as Horses, Camels, Deer, Sheep, and Dogs; for their fore-legs bend like our legs, and their hinder legs like our a ms when we move them to our shoulders. But quadrupedes oviparous, as Frogs, Lizards, Crocodiles, have their joints and motive fl xures mor apalagously framed unto ours: and some among viv parous, that is, sich

thereof as can bring their fore-feet and meat therein unto their mouths, as most can do, that have the Clavicles of collar-bones: whereby their breasts are broader, and their shoulders more as under, as the Ape, the Monkey, the Squirrel, and some others. If therefore any shall affirm the joints of Elephants are differently framed from most of other quadrupedes, and more obscurely and grossy almost then any, he doth herein no injury unto truth. But if a disto seen dum quid ad distam simpliciter, he affirmeth also they have no articulations at all, he incurrs the controlment of reason, and cannot avoid the contradiction of sense.

As for the manner of their Venation, if we consult historical experience, we shall find it be to otherwise than as is commonly presumed, by sawing away of trees. The accounts whereof are to be seen at large, in Johannes, Hugo, Edwardus Lopez, Gar. ias ab horto, Cadamustus, and

many more.

Other concernments there are of the Elephant, which might admit of difcourse: and if we should question the teeth of Elephants. that is, whether they be properly so termed, or might rather be called horns: it were no new enquiry of mine, but a paradox as old as Oppianus. Whether as Pliny and divers fince affirm, that Elephants are terrified, and make away upon the grunting of Lwine, Garrias ab Horto may decide, who affirmeth upon experience, they enter their stalls, and live promiscuously in the wood of Ma-Lavar. That the lituation of the genitals, is averse, and their copulation, like that of Camels, as Pliny hath also delivered, is not to be received; for we have beheld that part in a different position; and their coition, is made by superfaliency, like that of Horses; as we are informed by some who have beheld them in that act. That some Elephants have not only written whole fentences, as e Elian ocularly testifieth, but have also spoken, as Oppianus delivereth, and Christophorus a Costa particularly relateth; although it sound like that of Achilles Horse in Homer, we do not conceive impossible. Nor beside the affinity of reason in this Animal, any such intolerable incapacity in the Organs of divers Quadrupedes, whereby they might norbe taught to speak, or become limitators of speech-like Birds. Strange it is how the curiofity of men that have been active in the instruction of beasts, have never fallen upon this artifice; and among those, many paradoxical and unheard-of Imitations, should not attempt to make one speak. pent that spake unto Eve, the Dogs and Cats that usually speak unto Witches, might afford some encouragement. And since a broad and thick Chors is required in Birds that speak, since Lips, and Teeth, are also Organs of Speech, from these there is also an advantage in quadrupedes; and a proximity of resion in Elephants, and Apes, above them all. Since allo an Echo will spe k without any mouth at all articulately returning the voice of min, by only ordering, the vocal Spiritin concave and holl w places; Whether the mirculous and motive Parts, about the hollow Mouths of Beatls, m y nor dispose the passing Spirit into some articulate Notes, seems a querte of no great doubt. CHAP. THE for south good Harles It for he booke, and the ferror is all

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And therefore when this hadour at any tethers correspond these if weethers

grows coffive, and the exercinents of the Hells, white; as it nappearent of the times in the joundace. Of the Horse.

THE second Assertion, that an Horse hath no Gall, is very general, noronly swallowed by the People and common Farriers, but also received by good Veterrinarians, and some who have laudably discoursed upon veterrinarians. Horses It seemeth also very ancient; for it is plainly set down by Aristosle, or farriar. An horse, and all solidungulous or whole-hoosed animals have no gall; and the same is also delivered by Pliny; which notwithstanding we find repugnant unto experience and reason. For first, it calls in question the providence or wise provision of Nature; who not abounding in superstuties, is neither deficient in necessities. Wherein nevertheless there would be a main defect, and her improvision justly accusable; if such a seeding Animal, and so subject unto diseases from bilious causes, should want a proper conveyance for choler; or have no other receptacle for that humour, than the veins,

and general Mais of Blood.

It is again controlable by experience; for we have made some search and enquiry herein; encouraged by Absyrtus a Greek Author, in the time of Constantine; who in his Hippiatricks, obscurely assigneth the Gall a place in the Liver; but more especially by Carlo Ruini the Bononian, who in his Anatomia del Cavallo, hath more plainly described it, and in a manner as I Medecina found it. For in the particular enquiry into that part, in the concave or si-equaria. mous part of the Liver. where-about the Gall is usually feated in quadrupedes, I discover an Hollow, Long, and Membranous Substance, of a pale colour without, and lined with Choler, and Gall within; which part is by Branches diffused into the Lobes, and several Parcels of the Liver, from whence receiving the fiery superfluity, or cholerick remainder, upon the second concoction, and the general Mass of Blood; by a manifest and open passage, it conveyeth it into the Duodenum or upper Gut, thence into the lower Bowels; which is the manner of its derivation in Man, and, other Animals. And therefore although there be no eminent, and circular Follicle, ro round Bag, or Veficle which fong containeth this humour : yet is there a manifest receptacle and passage of Choler, from the Liver, into the Guts : which being not so shut up: or at least not so long detained, as it is in other animals: procures that frequent excretion, and occasions the Horse to dung more often then many other, which confidering the plentiful feeding the largeness of the Guts, and their various circumvolution, was prudently contrived by providence in this Animal. For choler is the natural gliffer, or one excretion whereby nature excludeth another; which descending duly into the Bowels, extimulates those parts, and excites them unto expulsion. alastyn Aperales I for sections

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And therefore when this humour aboundeth or corrupteth, there succeeds ofttimes a ch lerica fassio; that is, a sudden and vehement Purgation upward and downward: and when the passage of gall becomes obstructed, the body grows costive, and the excrements of the Belly, white; as it happeneth

oft-times in the jaundice.

If any therefore affirm an Horse hath no Gall, that is, no receptacle, or part ordained for the separation of choller, or not that humour at all; he hath both sense, and reason, to oppose him. But if he saith, it hath no Bladder of Gall, and fuch as is observed in many more animals, we shall oppose our sense if we gainsay him. Thus must Aristotle be made out, when he denyeth this part : by this distinction, we may relieve Pliny of a contradiction; who in one place affirmeth a Horse hath no Gall, delivereth yet in another, that the Gall of an Horse, was accounted Poison; and therefere at the sacrifices of Horses in Rome, it was unlawful for the Flamen to touch it. But with more difficulty, on hardly at all, is that reconcileable which is delivered by our Country-man, and received Veterinarian; whose words in his Master-piece, and Chapter of diseases from the Gall, are somewhat too ftriet, and scarce admit a Reconciliation. The Fallacy therefore of this conceit is not unlike the former ; A dieto secundum, quid ad dietum simpliciter. Because they have not a Bladder of Gall, like those we usually observe in others, they have no Gall at all. Which is a Paralogism not admittable; a Fallacy that dwells not in a cloud, and needs not the Sun to scatter it.

CHAP. III.

Of the Dove.

THE third affertion, is somewhat like the second, that a Dove, or Mageon hath no Gall; which is affirmed from very great Antiquity; for, as Pierus observeth from this consideration, the Egyptians did make it Hieroglyphick of Meekness. It hath been averred by many Holy Writers; commonly delivered by Postillers, and Commentators; who from the frequent mention of the Dove in the Canticles, the precept of our Saviour, to be wise as Serpents, and innocent as Doves: and especially the appearance of the Holy Ghost, in the similitude of this Animal: have taken occasion to set down many affections of the Dove, and what doth most commend it, is, that it hath no Gall. And hereof have made use, not only Minor Divines but Cyprian Anstin, Isidore, Beda, Rupertus, Jansenius, and many more.

Whereto, notwithstanding we know not how to assent, it being repugnant, anto the Authority, and positive determination of ancient Philosophy. The assirmative of Aristotle in his history of Animals is very plain, Fel aliis ven-

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tri, aliis intestino jungitur: Some have the Gall adjoined to the Guts, as the Crow, the Swallow, the Sparrow, and the Dove; the same is also attested by Pliny; and not without some passion by Galen, who in his book de Atra bile accounts him ridiculous that denies it.

It is not agreable to the conftitution of this animal, nor can we fo reasonably conceive there wants a Gall, that is, the hot and fiery humour in a body fo hot of temper; which Flegm or Melancholly could not effect. Now of what complexion it is, Julius Alexandrinus declareth, when he affirmeth that fome upon the use thereof, have fallen into Feavers and Quinfies. The temper of their Dung, and intestinal Excretions do also confirm the same ; which Topically applied become a Phanigmus or Rubifying Medecine; and are of fuch fiery parts, that as we read in Ga'en, they have of themselves conceived fire, and burnt a house about them. And therefore when in the the famine of Samaria (wherein the fourth part of a Cab of Pigeons Dung was fold for five pieces of filver,) it is delivered by Josephus, that men made use hereof instead of common falt; as, beside the effects before expressed, is discernable by taste, and the earth of Columbaries or Dove-houses, so much defired in the artifice of Salt-peter. And to speak generally, the excrement of birds which want both Bladder and Kidnies, hath more of falt acrimony, then that of other animals, who beside the Guts have also those conveyances; for whereas in thefe, the falt and lixivated Serocity with some portion of choler, is divided between the Guts and Bladder, it remains undevided in birds; and hath but a fingle descent, by the Guts, with the exclusion of the Belly. Now if because the Dove is of a milde and gentle nature, we cannot conceive it should be of an hot temper; our apprehensions are not distinct in the measure of conflictutions, and the several parts which evidence such conditions. For the Irafcible p flions do follow the temper of the Heart, but the concu, ifcible distractions the crass of the Liver. Now many have hot Livers, which Whence the have but cool and temperate Hearts; and this was probably the temper of Par irafeible, ris, a contrary constitution to that of Ajax; and both but short of Medea, whence the who feemed to exceed in either.

Lastly, it is repugnant to experience; for Anatomical enquiry discovereth most arise. in them a Gall: and that according to the determination of Aristotle, not annexed unto the Liver, but adhering unto the Guts: nor is the humour contained in smaller veins, or obscurer capillations, but in a vessele or little bladder, though some affirm it hath no bag at all. And therefore the Hieroglyphick of the A. yptians, though allowable in the fense, is weak in the foundation : who expressi g meekness and lenity by the portracture of a Dove with a tail erected, affirmed it had no Gall in the inward parts, but only in the Rump, and as it were out of the body. And therefore if they conceived their Gods were pleased with the sacrifice of this animal, as being without Gall, the ancient Heathens were furely mistaken in the reason, and in the very oblation. Whereas in the Holocaust or burnt-Offering of Moses, the Gall was cast away : for, as Ben: Maimon instructeth, the inwards whereto the

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the Gall adhereth, were taken cut with the Crop, according unto the Law : Which the Priest did not burn, but cast unto the East, that is, behind his back, and readiest place to be carried out of the Sanctuary. And if they also conceived that for this reason, they were the birds of Venus, and wantbi ds of Venus ing the furious and discording parts, were more acceptable unto the Deity of Love: they furely added unto the conceit: which was at first venereal : and in this animal, may be sufficiently made out from that concepti-

> The ground of this conceit is partly like the former; the obscure fituatis on of the Gall, and out of the Liver, wherein it is commonly enquired But this is a very injust illation, not well considering with what variety this his part is feated in Birds. In some, both at the Stomack and Liver, as in the Capriceps; in some at the Liver onely, as in Cocks, Turkeys, and Phesants; in others at the Guts, and Liver, as in Hauks and Kites; in some at the Guts alone, as Crows, Dove, and many more. And these perhaps may take up all the wayes of fituation, not onely in Birds, but also other Animals; for what is faid of the Anchovy, that answerable unto its name, it carrieth the Ga'l in the Head, is further to be enquired. And though the discoloured particles in the skin of an Heron, be commonly termed Galls, yet is not this animal deficient in that part, but containeth it in the Liver. And thus when it is conceived that the eyes of Tobias, were cured by the Gall of the fifth Callionymus, or Scorpius marinus, commended to that effect, by Dioscorides; although that part were not in the Liver; yet there were no reason to doubt, that Probability. And whatfoever animal it was, it may be received without exception, when its delivered, the married Couple as a testimony of fu we concord, did cast the Galt of the sacrifice behind the Alter.

> A strict and literal accepation of a loose and tropical expression was a second ground hereof. For, while some affirmed it had no Gall, intending onely thereby no evidence of anger or fury; others have conflrued it anatomically, and denied that part at all. By which illation we may infert, and that from Sacred Text, a Pigeon hath no heart; according to that expression, Fastus est Ephraim sicut Co'umba seducta non babens Cor. And so from the Letter of Scripture we may conclude it is no mild; but a fiery and furious Animal, according to that of ferenge Facta est terra in desclationem a facie ira Columba: and again, Revertamur ad terrem nativitatis nostre a facie gladii Columba. Where notwithstanding, the Dove is not literally intended; but thereby are implied the Babylonians, whose Queen Semiramis was called by that name; and whose successors did bear the Dove in their Standard. So is it proverbially said, Formice sua bilis inest , habet & musca splenem; whereas we know Philosphy denieth these parts, nor hath Anatomy discovered them in infects.

> If therefore any affirm a Pigeon hath no Gall implying no more thereby, than the lenity of this Animal, we Mall not controverthis affirmati-

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on. Thus may we make out the affertions of ancient Writers, and fafely receive the expressions of Divines and worthy Fathers. But, if by a transition from Rhetorick to Logick, he shall contend, it hath no such part or humour; he committeth an open fallacy, and fuch as was probably first committed concerning Spanish Mares; whose swiftness tropically expressed from their generation by the Wind, might after be grossy taken, and a real truth conceived in that conception.

CHAPOIV. animalows, but me the baye much advantaged the delic of east ton

the Bever. Hat a Bever, to escape the Hunter, bites off his testicles or stones, is logues a Tenent very Ancient; and, hath had thereby advantage of pro- what Antiquipagation. For, the same we find in the Hieroglyphicks of the Egypti- ty. ans; in the Apologue of Afop, an Author of great Antiquity, who lived in the beginning of the Persian Monarchy, and in the time of Cyrus; the same is touched by Aristotle in his Ethicks, but seriously delivered by Etian, Pliny, and Solinus. With the fame we meet with, in Juvenal; who by an handfom and Metrical expression, more welcomly engrasts it in our junior Memories,

imitatus Caftora, qui fe Eunuchum ipse facit, cupiens evadere damno Testiculorum, adeo medicatum intelligit inguen.

It hath been propagated by Emblems; and some have been so bad Grammarians, as to be deceived by the Name, deriving Caftor a Caftrando; whereas, the proper Latine word is Fiber, and Caftor, but borrowed from the Greek, so called quasi visue, that is, Animal ventricosum,

from his fwaggy and prominent belly. Herein therefore to speak compendiously, we first presume to affirm, that from a frict Enquiry, we cannot main ain the evultion or biting off. any parts; and this is declarable from the best a d most professed Writers: for, though some have made the hereof in a Moral or Tropical way, yet have the professed Discourters by silence deserted, or by experience rejected, this affertion. Thus was it in ancient times discovered, and experimentally refuted by one sestins a Physician, as it stands related by Pliny : by Diofcorides, who plainly affirms that this tradition is falle; by the discoveries of Modern Awhors, who have exprestly discoursed hereon, as Aldrovandus, Mathiolus, Sefnerns, Bellonins, by Olans Mag-

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nus, Peter Martyr, and others; who have described the manner of their Venations in America, they generally omitting this way of their escape, have delivered several other, by which they are daily taken.

The Original of the conceit was probably Hieroglyphical; which after became Mythological unto the Greeks, and so set down by £sop; and, by process of tradition, stole into a total verity, which was but partially true, that is, in its covert sense and Morality. Now why they placed this invention upon the Bever (beside the Medical and Merchantable commodity of Castoreum, or parts conceived to be bitten away) might be, the sagacity and wisdom of that Animal, which from the works it performs, and especially its Artisice in building is very strange; and surely not to be matched by any other. Omitted by Plutarch de sole tia animalium, but might have much advantaged the drift of that Discourse.

If therefore any affirm, A wife man should demean himself like the Bever, who, to escape with his life, contemneth the loss of his genitals; that is, in case of extremity, not strictly to endeavour the preservation of all, but to fit down in the enjoyment of the greater good, though with the detriment and hazard of the leffer; we may hereby apprehend a real and useful Truth. In this latitude of belief, we are content to receive the Fable of Hippomanes, who redeemed his life with the loss of a Golden Bal; and, whether true or false, we reject not the Tragedy of Absyrtus, and the dispersion of his Members by Medea, to perplex the pursuit of her Father. But if he shall positively affirm this Act, and cannot believe the Moral, unless he also credit the Fable; he is surely greedy of Delusion, and will hardly avoid deception in Theories of this Nature. The Error therefore and Alogy in this Opinion, is worfe than in the last; that is, not to receive figures for realities, but expect a verity in Apologues; and believe, as ferious affirmations, confessed and studied Fables.

Again, if this were true, and that the Bever in Chase makes some divulfion of parts, as that which we call Castoreum; yet, are not the same
to be termed Testicles or Stones; for, these Cods or Follicles are
found in both Sex, though somewhat more protuberant in the Male.
There is hereto no derivation of the seminal parts, nor any passage from
hence, unto the Vessels of Ejaculation: some perforations only in the
part it self, through which, the humour included doth exsudate: as may
be observed in such as are fresh, and not much dried with age. And
lastly, The Testicles, properly so called, are of a lesser Magnitude and
seated inwardly upon the loyns: and therefore it were not only a fruitless attempt, but impossible act, to Eunuchate or Castrate themselves:
and might be an hazardous practise of Art, if at all attempted by
others.

Now, all this is confirmed from the experimental Testimony of five

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very memorable Authors: Bellonius, Gesnerus, Amatus, Rondeletius, and Mathiolus : who receiving the hint hereof from Rondeletius in the Anatomy of two Bevers, did find all true, that had been delivered by him, whose words are these in his learned Book de piscibus : Fibri in inguinibus geminos tumores habent, utrinque unicum, ovi Anserini Magnitudine:inter hos est mentula in maribus, in fæminis pudendum; hi cumores testes non sunt, sed folliculi membrana contecti, in quorum medio singuli sunt meatus, è quibus ex sudat liquor pinguis & seros us, quem ipse Casto sape admoto ore lambit & exfugit, postea veluti oleo, corporis partes oblinit; Hos tumores testes non e Je binc maxime colligitur, quod ab illis nulla eft ad mentulam viagneque ductus quo humor in mentula meatum derivetur, & foras emittatur; prateres quod testes intus reperiuntur, cos dem tumores Moscho animali inesse puto, e quibus adoratum illud pus emanat. Than which words there can be none plainer, nor more evidently discover the impropriety of this appellation. That which is included in the Cod, or visible Bag about the Groin, being not the Testicle, or any spermatical part; but rather a collection of some superfluous matter deflowing from the body, especially the parts of nutrition as unto their proper emunctories; and as it doth in Musk and Civet-Cats, though in a different and offenfive odour; proceeding partly from its food, that being especially Fish; whereof this humour may be a garous excretion and olidous separation.

Most therefore of the Moderns before Rondeletins, and all the Ancients excepting Seffins have mifunderstood this part, conceiving Caftoeum the l'efticlesof the Bever ; as Dioscorides, Galen Egineta, Etius, and others have pleased to name it. The Egyptians also failed in the ground of their Hieroglyphick, when they expressed the punishment of Adultery, by the Bever depriving himfelf of his Testicles; which was amongst them the penalty of such inconstancy. Nor is Ætins perhaps, too strictly to be observed, when he prescribeth the Stones of the Otter, or River-Dog as succedaneous unto Castoreum. But, most inexcusable of all is Pliny; who having before him in one place the experiment of Seftius against it, fets down in another, that the Bevers of Pontus bite off their Testicles; and in the same place affirmeth the like of the Hyina. Which was indeed well joyned with the Bever, as having also a Bag in those parts; if thereby we understand the Hyena odo-ata, or Civet-Cat, Hyena odorife-

as is delivered and graphically described by Castellus. Now, the Ground of this mistake, might be the resemblance and Situation of these tumors about those parts, wherein, we observe the tellicles in other Animals. Which notwithstanding, is no well founded illation; for, the Tellicles are defined by their Office, and not determined by place or Situation; they having one Office in all, but different feats in many.

For beside that, no Serpent or Fishes oviparous have any stones at all; that neither biped, nor quadruped oviparous have any exteriorly, or prominent in the Groin; some also that are viv parous contain these

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parts within, as beside this Animal, the Elephant, and the Hedg-bog. If any therefore shall term these Testicles, intending Metaphorically and in no strict acception; his language is tolerable, and offends our ears no more than the Tropical names of Plants; when we read in Herbals, of Dogs, Fox, and Goat-stones. But, if he institleth thereon and maintaineth a propriety in his language : our discourse hath overthrown his affertion, nor will Logick permit his illation; That is, from. things alike, to conclude a thing the same; and from an accidental convenience, that is, a similitude in place or figure, to inferr a special congruity or substantial concurrence in Nature.

one plainer, nor more c.V. .. . P. H. O impropriety of this ap-

That which is included in the Coastor vilible day about the a reside and same last of the Badger. To do son anied menoshingal amorto na

Hat a Brock or Badger hath the legs of one fide shorter than of the other, though an opinion perhaps not very ancient, is yet very general; received not only by Theoriffs and unexperienced believers, but affented unto by most who have the opportunity to behold and hunt them daily. Which notwithstanding upon enquiry, I find repugnant unto the three Determinators of truth, Authority, Sense, and Reason. For first, Albertus Magnus speaks dubioutly, confessing he could not confirm the verity hereof; but Aldrovandus plainly affirmeth, there can be no fuch inequality observed. And for my own part, upon indifferent enquiry, I cannot discover this indifference, although the regardible fide be defined, and the brevity by most imputed unto the left.

Again, It seems no easie affront unto Reason, and generally repugnant unto the course of Nature; for, if we survey the total set of Animals, we may in their legs, or Organs of Progression, observe an equality of length, and parity of Numeration; that is, not any to have an odd leg, or the Supporters and Movers of one fide not exactly answered by Although, the hinder may be unequal unto the fore and the other. middle legs, as in Frogs, Locusts, and Grashoppers; or both unto the De inceffu middle, as-in some Beetles and Spiders, as is determined by Ariftotle de incessing animalium. Perfect and viviparous quadrupeds, so standing in their position of proneness, that the opposite joynts of neighbour-legs confift in the same plane; and a line descending from their Navel interfects at right-Angles the Axes of the Earth. It happeneth often, I confess, that a Eabster hath the Chely or great Claw of one side longer than the other; but this is not properly their leg, but a part of apprehension, and whereby, they hold or feize upon their prey; for, the legs and proper parts of progression are inverted backward, and stand in a position opposite unto these,

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Lastly, The Monstrosity is ill contrived, and with some disadvantage; the shortness being affixed unto the legs of one side, which might have Diagonian, a been more tolerably placed upon the thwart or diagonial Movers. For, line drawn the progression of quadrupeds being performed per diametrum, that is, angles. the cross legs moving or resting together, so that two are alwaies in Motion, and two in Station at the same time; the brevity had been more tolerable in the crofs legs. For, then the Motion and Station had been performed by equal legs; whereas, herein they are both performed by unequal Organs, and the imperfection becomes discoverable at every

CHAP. VI.

of the Bear.

Hat a Bear brings forth her young informous and unshapen, which The fashioneth after by licking them over, is an opinion, not only vulgar, and common with us at present : but hath been of old delivered by Ancient Writers. Upon this foundation it was an Hieroglyphick with the Egyptians: Ariffotle feems to countenance it : Solinus, Pliny, and Elian, directly affirm it, and Ovid smoothly delivereth

> Nec catulus partu quem reddidit urfa recenti Sed male viva caroeft, lambendo mater in artis Ducit, & in formam qualem cupit ipfa reducit.

Which opinion notwithstanding, is not only repugnant unto the sense of every one that shall enquire into it, but, the exact and deliberate experiment of three Authentick Philosophers. The first of Mathiolus in his comment on Dioscorides, whose words are to this effect. In the valley of Anania about Trent, in a Bear which the Hunters eventered or opened, I beheld the young ones with all their parts diffinet, and not without shape, as many conceive : giving more credit to Aristotle and Pliny, than experience and their proper senses. Of the same assurance was Julius Scaliger in his Exercitations, Orfam fatus informes potius ejecere, quam parere, si vera dicunt, quos postea linet n effing et : Quid hujusce fabula authoribus fidei habendum, ex hac hiftoria cognosces ; In nostris Alpibus venatores; fatam ur sam cepere difficta ea, fatus plane formatus intus inventus eft: And laftly, Aldrovandus, who from the teltimony of his

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own eyes affirmeth, that in the Cabinet of the Senate of Bononia, there was preserved in a Glais, a Cub diffected out of a Bear perfectly form-

ed, and compleat in every part.

It is moreover injurious unto reason, and much impugneth the course and providence of Nature, o conceive a birth should be ordained before there is a formation. For, the conformation of parts is neceffarily required, not only unto the pre-requifites and previous conditions of Birth, as Motion, and Animation : but also unto the Parturition or very birth it felf: Wherein, not only the Dam, but the Younglings play their parts; and the cause and act of exclusion proceedeth from them both. For, the exclusion of Animals is not meerly passive like that of Eggs, nor the total action of delivery, to be imputed unto the Mother: but, the first attempt beginneth from the Infant: which at the accomplished period attempteth to change his Mansion a and strugling to come forth, dilacerates and breaks those parts which restrained him before.

Beside, (what sew take notice of) Men hereby do in a high measure vilifie the works of God, imputing that unto the tongue of a Beaft, which Formation is the strangest Artifice in all the acts of Nature; that is, the formation of the in the Matrix, Infant in the Womb: not onely in Mankind, but all viviparous Animals. the admirable Wherein the plattick or formative faculty, from matter appearing Homogework of Na-neous, and of a fimilary substance, erecteth Bones, Membranes, Vens, and Arteries: and out of these, contriveth every part in number, place, and figure, according to the law of its species. Which is so far from being fashioned by any outward agent, that once omitted or perverted by a slip of the inward Phidias, it is not reducible by any other whatfoever. And therefore Mire me plasmaverunt manus tue, though it originally respected the generation of Man, yet is it appliable unto that of other Animals; who etring the Womb in distinct and simple Materials, return with oillinction of parts, and the perfect Breath of Life. He that shall consider these alterations without, must needs conceive there have been strange operations within; which to behold, were a Spectacle almost worth ones Being; a fight beyond all; except that man had been created first, and might have feen the shew of five days after.

Now, as the Opinion is repugnant both unto Senfe and Reafon, fo hath it probably been occasioned from some flight ground in either. Thus in regard the Cub comes forth involved in the Chorion, a thick and tough Membrance obscuring the formation . and which the Dam doth after bite and tear afunder; the beholder at fight first conceives it a rude and ir formous lump of flesh, and imputes the enfuing shape unto the Mouthing of the Dim; which adde h nothing thereun o, but only draws the (n tain, and takes away that Vail which concealed the Piece before. And, thus have fome endeavoured to enforce the same from reason; that is, the smal and slender time of the Bears gestation,

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or going with her young; which lasting but few daies (a Month some fay) the exclusion becomes precipitous, and the young ones consequently informous; according to that of Solinus, Trigefimus dies uterum lib rat ursa, unde evenit ut pracipitata facunditas informes cree partus. But, this will overthrow the general Method of Nature, in the works of Generation. For, therein the confirmation in not only antecedent, but proportional unto the exclusion; and, if the period of the birth be short, the term of conformation will be as sudden also. There may, I confess, from this narrow time of gestation ensue a Minority, or smallnes in the exclusion; but this however inferreth no informity, and, it still receiveth the Name of a Natural and Legitimate birth; whereas, if we affirm a total informity, it cannot admit so forward a term as an Abortment, for, that supposeth conformation. So we must call this constant and intended act of Nature, a slip or effluxion, that is, an exclusion before conformation : before the birth can bear the name of the Parent, or be fo much as properly called an Embryon. clary ferror big at 2 cat rubbons. Sometimes on habe head of

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addition of Leas, the Metalds, and Painters till describe it. Not was it

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Many Opinions are passant concerning the Basilisk, or little King of Serpents, commonly called the Cockatrice: some affirming, others denying, most doubting the relations made hereof. What therefore in these incertainties, we may more furely determine, That such an Animal there is, if we evade not the testimony of Scripture, and human Writers, we cannot fafely deny. So is it faid, Pfalm 91. Super aspidems & Basiliscum ambulabis, wherein the vulgar Translation retaineth the Word of the Septuagint, using in other places the Latine expression Regulus, as Proverbs 23. Mordeb.t. ut coluber, & ficut Regulus venena diffundet: and feremy 8. Ecce ego mittam vobis ferpentes Regulos, &c. That is, as ours franslate it, Behold I will fend Serpents Cochatrices among jon, which will not be charmed, and they Shall bite you. And as for human Authors, or fuch as have discoursed of Animals, or Poysons, it is to be found almost in all: in Diefcorides, Galen, Pling, Solinus, Elian, Etius, Avicen, Ardoynus, Grevinus, and many more. In Aristotle, I con-fels we find no mention thereof, but Scaliger, in his Comment, and enumeration of Serpents, hath made supply; and, in his Exercitations delivereth, that a Bafilish was found in Rome, in the dayes of Leo the Fourth. The like is reported by Sigenius; and some are so far from denying one, that they have made several kinds thereof; for, such is the Catobienas

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of Pliny, conceived by fome; and the Dryinus of Etins by others. But although we deny not the existence of the Basilisk, yet whether we do not commonly mistake in the conception hereof, and call that a Basisisk which is none at all, is furely to be questioned. For certainly that which from the conceit of its generation, we vulgarly call a Cockatrice, and wherein (but under a different name) we intend a formal Indentity and adequate conception with the Basilisk; is not the Basilisk of the Ancient, whereof fuch wonders are delivered. For this of ours is generally described with Legs, Wings, a serpentine and winding Tail, and a Crift or Comb somewhat like a Cock, But the Basilisks of elder times was a proper kind of Serpent, not above three palms long, as some account; and differenced from other Serpents by advancing his head, and some white Marks, or coronary spots upon the Crown; as all authentick Writers have delive-

Nor is this Cockatrice, only unlike the Bafilisk, but of no real shape in Nature; and rather an Hieroglyphical fancy, to express different intentions, fet forth in different fashions. Sometimes with the head of a Man, sometimes with the head of an Hawk, as Pierius hath delivered; and as with addition of Legs, the Heralds, and Painters still describe it. Nor was it only of old a symbolical and allowable invention, but is now become a manual contrivance of Art, and artificial imposture; whereof besides others Scaliger hath taken notice : Bafilisci formam mentiti sunt vu'go Gallinaceo similem, & pedibus binis; neque enim absimiles sunt cateris serpentibus, nifi macula quasi in vertice candida, unde illi nomen Regium; that is, men commonly counterfeit the Form of a Basilisk, with another like a Cock, and with two Feet; whereas they differ not from other Serpents, but in a white speck upon their Crown. Now although in some manner it might be counfeited in Indian Cocks, and flying Serpents; yet is it commonly contrived out of the skins of Thorn-backs, Scats or Maids, as Aldrovand hath observed; and also graphically described in his excellent Book of Fishes.

Nor, is only the existency of this Animal considerable, but many things By way of fi- delivered thereof, particularly its poifon and its generation. Concerning the first, according to the Doctrine of the Ancients, men still affirm, that it killeth at a distance, that it poisoneth by the eye, and by priority of vision. Now that deliterious it may be at some distance, and destructive without corporal contraction, what uncertainty soever there be in the effect, there is no high improbability in the relation. For if Plagues or peftilential A-toms have have been conveyed in the air, from different Regions; if men at a distance have infected each other; if the shadows of some trees be noxious; If Torpedoes deliver their opium at a distance, and stupisie beyond themselves; we cannot reasonably deny, that (beside our gross and reftrained poisons requiring contiguity unto their actions) there may proceed from subtiller seeds, more agile emanations; which contemn those Laws, and invade at diffance unexpected,

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That this venenation, shooteth from the eye, and that this way a Basilisk may empoison, although thus much be not agreed upon, by Authors, some imputing it unto the breath, others unto the bite, it is not a thing impossible. For eyes receive offensive impressions, from their objects, and may Effluxion of have influences destructive to each other. For the visible species of things corporal speftrike not our fenses immaterially; but streaming in corporal Raies, do carry with them the qualities of the object from whence they flow, and the medium through which they pass. Thus, through a green, or red Glass, all things we behold appear of the same Colours; Thus, fore eyes affect those which are found; and themselves also by reflexion; as will happen to an inflamed eye that beholds it felf long in a Glass; thus is fascination made out; and thus also it is not impossible, what is affirmed of this Animal: the visible Raies of their eyes carrying forth the subtilest portion of their poilon; which received by the eye of Man, or Beaft, infecteth first the Brain, and is from thence communicated unto the Heart. But laftly, That this destruction should be the effect of the first beholder, or depend upon priority of aspection, is a point not easily to be granted; and very hardly to be made out, upon the principles of Aristotle, Alhazen, Vitel'o, and others; who hold that Sight is made by reception, and not by extramission; by receiving the Raies of the Object into the eye, and not by fending any out. For hereby although he behold a man first, the Basilisk should rather be destroyed, in regard he first receiveth the Raies of his Antipathy, and venemous Emissions which objectively move his sense; but how powerfull foever his own poison be, it invadeth not the sense of Man in regard he beholdeth him not. And therefore this conceit was probably begot by such as held the opinion of fight by extramission; as did Pythagoras, Plato, Empedocles, Hipparchus, Galen, Macrobius, Proclus, Simp'icins, with most of the Ancients, and is the postulate of Euclide in his Opticks; but now sufficiently convicted from observations of the dark chamber.

As for the generation of the Bafilisk, that it proceedeth from a Cocks Egg hatched under a Toad or Serpent, it is a conceit as monstrous as the broodit felf. For if we should grant that Cocks growing old, and unable for emition, amais within themselves some seminal matter, which may after conglobate into the form of an Egg. yet will this substance be unfruitfull. As wanting one principle of generation, and a comixture of the feed of both fexes, which is required unto production, as may be observed in the eggs of Hens not Troden; and as we have made trial in some which are termed Cocks eggs. It is not indeed impossible, that from the sperm of a Cock, Hen, or other Animal being once in putrescence, either from in- Onum Centes cubation, or otherwise, some generations may ensue; not univocal and of ninum or the the same species, but some imperfect or monstrous production; even as in which is a the body of man from putrid humors, and peculiar waies of corruption; very little there have succeeded Brange, and unseconded shapes of worms; whereof one.

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we have beheld some our selves, and read of others in medicinal observations. And so may strange and venemous serpents be several waies engendered; but that this generation should be regular, and alwaies produce a Basilisk, is be ond our a simuation, and we have good reason to doub:

Again, It is unreasonable to ascribe the equivocacy of this Form unto the hatching of a Toad, or imagine, that diverlifies the production. For Incubation alters not the Species; nor if we observe it, so much as concurrs either to the Sex, or Colour: as appears in the Eggs of Ducks or Partridges hatched under a Hen: there being required unto their exclusion, only a gentle and continued Heat; and that not particular or confined unto the Species, or Parent. So have I known the feed of Silk-worms hatched on the bodies of women : and Pliny reports that L via the wife of Augustus hatched an Egg in her Bosome. Nor is only an animal heat required hereto, but an elemental and artificial warmth will fuffice : for as Diodorus delivereth, the Æ ;yptians were wont to hatch their Eggs in Ovens, and many eye-witnesses confirm that practise unto this day. And therefore this generation of the Basilisk, scems like that of Castor and Helena: he that can credit the one, may eafily believe the other: that is, that these two were hatched out of the Egg, which Jupiter in the form of a Swan, begat on his Mistress Leda.

The occasion of this conceit, might be an Æ syptian tradition concerning the Bird 16is: which after became transferred unto Cocks. For an opinion it was of that Nation, that 16is feeding upon Serpents, that vene-mous food so inquinated their ovall conceptions, or eggs within their bodies that they sometimes came forth in Serpentine shapes; and therefore they alwaies brake their Eggs, nor would they endure the bird to sit upon them. But how causeless their sear was herein, the daily incubation of Ducks, Pea-hens, and many other testifie: and the Stork might have informed them; which Bird they honoured, and cherished, to destroy their Serpents.

That which much promoted it, was a misapprehension in holy Scripture upon the Latine translation in Esay 51. Ova aspidum ruperunt, & telas aranearum texuerunt; qui comedent de ovis eorum morietur, & quod confotum est erumpet in Regulum. From where can be nothing concluded; and what kind of Serpents from Eggs, there can be nothing concluded; and what kind of Serpents are meant, not easie to be determined; for translations are very different: Tremellius rending the Asp Hæmorrhous, and the Regulus or Basilisk a Viper, and our translation for the Asp sets down a Cockatrice in the Text, and an Addet in the Margin.

Another place of Fsay, doth also seem to countenance it. Chap. 14. Ne leteris Philistea quomiam diminuta est virga percussoris ini, de radice enim colubri egredietur Regulus, & semen ejus obsorbens volucrem; which ours semewhat savou ably renderesb; Cutof the Serpents Root shall come a

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and his Fruit shall be a fiery slying Serpent. But Tremellins, è radice Serpentis prodit Hamorrhous, & frustus illius praster volans; wherein the words are different, but the sense is still the same; for therein are figuratively intended Uzziah, and Ezakias; for though the Philistin s had escaped the minor Serpent, Uzziah, yet from his stock, a fiercer snake should arise,

that would more terribly fting them, and that was Exechias.

But the greatest promotion, it hath received from a misunderstanding of the Hieroglyphical intention. For being conceived to be the Lord and King of Serpents to awe all others, not to be destroyed by any; the Ægyptians hereby implyed Eternity, and the aweful power of the supress m Destie: and therefore described a crowned Asp, or Basisisk upon the heads of the Gods.

As may be observed in the Bembine-table, and other Ægyptian Monuments.

CHAP. VIII.

of the Wolfe.

Such a story as the Basilisk, is that of the Wolf, concerning priority of vision, that a min becomes hoarse, or dumb, if a Wolf have the advantage first to eye him. And this is in plain language affirmed by Pling: In Italia, ut creditur, Luperum visus est noxius, vocemque homini, quem prins contemplatur, adimere; so is it made out what is delivered by Theorritus, and after him by Virgil.

Jam fugit ipsa, Lupi Marim videre priores.

Thus is the Proverb to be understood, when during the discourse if the party or subject interveneth, and there ensueth a sudden silence, it is usually said, Lupus oft in Fabula. Which conceit being already convicted, not only by Scaliger, Riolanus, and others; bu daily consutable almost every

where out of England; we shall not further refute.

The Ground, or occasional Original hereof, was probably the amazement and sudden silence the unexpected appearance of Wolves do often put upon Travellers: not by a supposed Vapour, or venemous Emanation, but a vehement Fear which naturally produceth Obmutescence; and sometimes irrecoverable silence. Thus Birds are silent in presence of an Hawk, and Pling saith that Dogs are mute in the shadow of an Hizna. But thus could

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not the mouthes of worthy Martyrs be filenced; who being exposed, not only unto the eyes, but to the merciles teeth of wolow, gave loud expressions of their Faith; and their holy clamours were heard as high as Heaven.

That which much promoted it, befide the common Proverb, was an expression in Theogratus, a very ancient Poet, offin gu nicen eldes, E deremon poteris stocem, Lyous est tibi vifus; Which Lyous was Rival unto another; and fuddenly appearing stopped the mouth of his Corrival; now Lyons fignifying also a wolf, occasioned this apprehension; men taking that appellatively, which was to be understood properly, and translating the genuine acception. Which is a fallacy of Equivocation, and in some Opinions begat the like conceit; concerning Romulus and Remus, that they were fostered by a wolf; the name of the Nurse being Lupa; and founded the fable of Europa, and her carriage over Sea by a Bull, because the Ship, or Pilot's name was Taurus, and thus have some been flartled at the Proverb, Bosin Lingua; confusedly apprehending, how a man should be said to have an Oxe in histongue, that would not speak his mind; which was no more than that a piece of money had filenced him: For, by the Oxe was only implyed a piece of Coin stamped with that Figure, first current with the Athenians, and after among the Ro-

L. I vilion, that a man becomes hoarfe, or dome, if a Wolf have the all. In Italia, at creatur, I appear exist et Handermage affirmed b Pling : In Italia, at creatur, I appear exist et a militaria, con emp e centai, que m print contemplator, acomere ; tous a made en en bar is delivered by I he order, and effer bire by Firefil.

"He common Opinion concerning the long life of Animals, is very Ancient, especially, of Crows, Choughs, and Deer; in moderate accounts, exceeding the Age of Man; in fome, the daies of Neftor, and in others, surmounting the years of Artephius, or Methuselab. From whence Antiquity hath raifed proverbial expressions; and the real conception of their duration, bath been the Hyperbolical expression of many others. From all the rest, we shall single out the Deer; upon conceffion a long-liv'd Animal, and in long wity, by many conceived to attain unto hundreds; wherein, permitting every man his own belief, we shall our selves crave liberty to doubt ; and our reasons are these en-

pon Travellers; not by a fu The first is that of Aristotle, drawn from the increment and gestation of this Animal, that is, its fudden arrivance unto growth and Macurity, and the small time of its remainder in the Womb. His words in the Translation of Scaliger are these; Deejus vita longitudine fabulantur;

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neque enim aut gestatio aut incrementum hinnulorum ejusmodi sunt, ut prafent argumentum longavi animalis; that is, Fables are railed concerning the vivacity of Deer; for, neither are their gestation or increment, such as may afford an argument of long life. And, these faith Scaliger, are good Mediums conjunctively taken, that is, not one without the other. For, of Animals viviparous fuch as live long, go long with young, and attain but flowly to their Maturity and Stature. So the Horse that liveth about Thirty, arriveth unto his Stature about Six years, and remaineth above ten Months in the Womb; fo the Camel that liveth unto Fifty, goeth with young no less than ten Montes, and ceaseth not to grow before Seven; and so the Elephant that fiveth an hundred, beareth its young above a year, and arriveth unto perfection at Twenty. On the contrary, the Sheep and Goat, which live but Eight or Ten years, go but five Months, and attain to their perfection at Two years; and the like proportion is observable in Cats, Hares, and Conies. And to the Deer that endureth the Womb but eight Months, and is compleat at lix years, from the course of Nature, we cannot expect to live an Hundred; nor in any proportional allowance much more than Thirty. As having already paffed two general Motions, observable in all animations, that is, its beginning and encresse; and having but two more to run thorow, that is, its flate and declination; which are proportionally fer out by Nature in every kind; and naturally proceeding admit of inference from each other.

The other ground that brings its long life into queltion, is the immoderate salacity, and almost unparalleld excess of Venery, which every September may be observed in this Animal ; and is supposed to shorten the lives of Cocks, Partridges, and Sparrows. Certainly, a confelled and undeniable enemy unto longavity: and that not only as a fign in the complexional defire and impetuofity: but also as a cause in the frequent act, or iterated performance thereof. For, though we confent not with that Philosopher, who thinks a spermatical emission unto the weight of one drachm, is rquivalent unto the effusion of fixty ounces of blood; yet confidering the exfolution and languor enfuing that act in fome, the extenuation and marcour in others, and the vifible acceleration it makes of age in most : we cannot but think, it much abridgeth our daies. Although we also concede, that this exclusion is natural, that nature it felf will find away hereto, without either act or object . And, although it be placed among the fix non-naturals, that is, fuch as neither naturally constitutive, nor meerly deffructive; do preferve or destroy according unto circumstance yet do we sensibly observe, an impotency or total privation thereof, prolongeth life; and they live longest in every kind that exercise it not at all. And this is true, not only in Ennucls by Nature, but Spadoes by Art, for, castrated animals in every species are longer lived, than they which retain their virilities:

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For, the generation of bodies, is not effected, as some conceive, of Souls; that is, by irradiation, or answerable unto the propagation of light, without its proper Diminution: but therein a transmission is made materially from some parts, and Ideally from every one: and the propagation of one, is in a strict acception, some minoration of another. And therefore also that Axiom in Philosophy, that, The generation of one thing, is the corruption of another; although it be substantially true concerning the form and matter, is also dispositively verified in the efficient or producer.

As for more sensible Arguments, and such as relate unto experiment: from these we have also reason to doubt its age, and presumed Vivacity: for where long-life is natural, the marks of age are late: and when they appear, the Journey unto Death cannot be long. Now the age of Deer (as Aristotle long ago observed) is best conjectured, by view of the Horns and Teeth. From the Horns, there is a particular and annual account unto fix years : they arising first plain, and so successively branching : after which the judgment of their years by particular marks becomes uncertain. But when they grow old, they grow less branched, and first do sole their cations next the Head: which Ariffolle faith the young ones use in fight: and the old, as needless, have them not at all, The same may be also colletted from the loss of their Teeth, whereof in old age they have few or none before, in either jaw. Now these are infallible marks of age, and, when they appear, we must confess a declination : which notwithstanding (as men inform us in England, where observations may well be made) will happen between twenty and thirty. As for the Bone, or rather Induration of the Roots of the arterial Vein, and great Artery, which is thought to be found only in the Heart of an old Deer, and therefore becomes more precious in its Rarity; it is often found in Deer, much under thirty; & we have known some affirm they have found it in one of half that age. And therefore in that account of Pliny, of a Deer with a collar about his neck, put on by Alexander the Great, and taken alive an hundred years after, with other relations of this nature, we much suspect imposture or mistake. And if we grant their Verity, they are but fingle relations, and very rare contingencies in individuals, not affording a regular diduction upon the species. For though uly fes his Dog lived unto twenty, and the Athenian Mule unto fourscore years, yet do we not measure their dayes by those years; or usually say They live thus long. Nor can the three hundred years of John oftimes, or Neftor, overthrow the affertion of Moses, or afford a reasonable encouragement beyond feptuagenary determination.

The Ground and Authority: of this conceit, was first Hieroglyphical, the Egyptians expressing long exity by this Animal; but upon what uncertainties, and also convincible falsities they often erected such Emblemes, we have elsewhere delivered. And if that were true which Aristotle deli-

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vers of his time, and Pliny was not affraid to take up long after, the Egyptians could make but weak observations herein; for, though it be faid that Encas feafted his followers with Venison, yet Ariftotle affirms, that neither Deer nor Boar were to be found in Africa. And, how far they miscounted the lives and duration of Animals, is evident from their conceit of the Crow, which they presume to live Five hundred years; and from the lives of Hawks, which (as Elian delivereth) the Egyptians do reckon no less than at Seven hundred,

The fecond which led the conceit unto the Grecians, and probably descended from the Egyptians, was Poetical; and that was a passage of

Hefiod, thus rendred by Aufonius.

Ter binos deciesque novem super exit in annos, Infta senescentum quos implet vita virorum; Hos novies superat vivendo garrula cornix; Et quater egreditur cornicis sacula ceruus; Alipedem cervum ter vincit corvus .----To Ninety fix the life of Man ascendeth, Nine times as long that of the Chough extendeth, Four times beyond; the life of Deer doth go And thrice is that surpassed by the Crow.

So that according to this account, allowing Ninety fix for the Age of Man, the life of a Deer amounts unto Three thousand, four hundred, fifty fix. A conceit so hard to be made out, that many have deserted the common and literal construction. So Theon in Aratus, would have the number of Nine not taken strictly, but for many years. In others Opinion, the compute fo far exceedeth truth, that they have thought it more probable to take the Word Genea, that is, a Generation confifting of many years, but for one year, or a fingle Revolution of the Sun; which is the remarkable measure of time, and within the compass whereof we receive our perfection in the Womb. So, that by this construction, the years of a Deer should be but Thirty fix, as is discoursed at large in that Tract of Plutarch, concerning the ceffation of Oracles; and whereto, in his discourse of the Crow, Aldrovandus also inclineth, Others not able to make it out, have rejected the whole account, as may be observed from the words of Pliny, Hesiodus qui primus aliquid de longavitate vita prodidit, fabulose (reor) multa de hominum avo referens, cornici novem nostras attribuit atates, quadruplum ejus cervis, id triplicatum corvis, & reliqua f bulosius de Phænice & Nymphis. And this, how siender soever, was probably the strongest ground Antiquity had for this longevity of Animals; that made Theophrastus expostulate with Nature concerning the long life of Crows; that begat the Epithete of Deer in 7 Opianus, and that expression of Invenal The

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The third ground was Philosophical, and founded upon a probable Reason in Nature, that is, the defect of a Gall; which part, (in the opinion of Aristotle and Pliny), this Animal wanted, and was conceived a cause and reason of their long life; according (say they) as it happeneth unto some few men, who have not this part at all. But this affertion is first defective in the verity concerning the Animal alledged: for, though it be true, a Deer hath no Gall in the Liver, like many other Animals, yet hath it that part in the Guts, as is discoverable by taste and colour : and therefore Pliny doth well correct himfelf, when having affirmed before, It had no Gall, he after faith, Some hold it to be in the Guts; and that, for their bitterness, Dogs will refuse to eat them. It is also deficient in the verity of the Induction or Connumeration of other Animals conjoyned herewith, as having also no Gall; that is, as Pliny accounteth, Equi, Muli, &c. Horses, Mules, Asses, Deers, Goats, Boars, Camels, Dolphins, have no Gall. Concerning Horfes, what truth there is, herein we have declared before; as for Goats, we find not them without it. What Gall the Camel hath, Arifferte declareth; that Hogs also have it, we can affirm; and that not in any obscure place, but in the Liver, even as it is feated in Man.

That therefore the Deer is no thort-lived Animal we will acknowledg: that comparatively, and in some sense long-liv'd, we will concede; and thus much we shall grant, if we commonly account its daies, by thirty fix or forty years: for thereby it will exceed all other cornigerous Animals. But, that it attaineth unto hundreds, or the years delivered by Authors; fince we have no authentick experience for it, fince we have reason and common experience against it, fince the grounds are false and fabulous

which do establish it; we know no ground to assent the Males thereof, do yearly lofe their Pizzle. For, men observing the decidence of their horns, do fall upon the like conceit of this part, that it annually rotteth away, and successively reneweth again. Now, the ground hereof, was furely the observation of this part in Deer, after immoderate venery, and about the end of their Rutt, which sometimes becomes so refaxed and pendulous, it cannot be quite retracted, and being often befet with flies, it is conceived to rot, and at last to fall from the body. But, herein experience will contradict us : for Deer which either die or are killed at that time, or any other, are always found to have that part entire. And reason also will correct us: for spermatical parts, or such as are framed from the feminal principles of parents, although homogeneous or fimilary, will not admit a Regeneration, much less will they receive an integral restauration, which being organical and instrumental Members, confift of many of those. Now this part, or Animal of Plato, confitteth not only of languineous and reparable particles, but is made up of veins, nerves, arteries, and in some Animals, of bones : whose reparation

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reparation is beyond its own fertility, and a fruit not to be expected from the fructifying part it felf. Which faculty, were it communicated unto Animals, whose originals are double, as well as unto Plants, whose feed is within themselves: we might abate the art of Taliacotius, and the new in-arching of Nofes. And therefore the fancies of Poets have been so modest, as not to set down such renovations, even from the powers of their Deities: for that the mutilated shoulder of Pelops was pieced out with Ivory : and that the limbs of Hippolytus were fet together, not regenerated by Afoulapius, is the utmost affertion of Poof grown is a freque King glair be branged not with unswiffed file in an open round, and where the air is free, it oblesves not n constant respect uncome mon h of the Wind, but variously convenient, doth foldom threast it appears if two he talpeared to the fame room, they will not

a challesty conform their in calls, but off-nines refrect the opposite comes of Menyon. And X .. P. A. H. Dar, for exact excloration,

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Hat a King-fifter hanged by the bill, theweth in what quarter the wind is, by an occult and fecret propriety, converting the breft to that point of the Horizon, from whence the wind doth blow, is a received opinion, and very strange; introducing natural Weather-cocks, and extending Magnetical politions as far as Animal Natures. A conceit supported chiefly by present practice, yet not made out by reason or expe-

Unto Reason it seemeth very repugnant, that a Carcass or Body disanimated, should be so affected with every Wind, as to carry a conformable respect and constant habitude thereto. For, although in fundry Animals, we deny not a kind of natural Meteorology or innate prefention both of wind and weather, yet, that proceeding from fense receiving impressions from the first mutation of the Ayr, they cannot in reason retain that apprehension after death; as being affections which depend on life, and depart upon disanimation. And therefore with more favou- is, that some rable Reason may we draw the same effect or sympathy upon the Hedg- creatures prehog; whose presention of Winds is so exact, that it stoppeth the North fage the weaor Southern-hole of its Nelt, according to pre-notion of these Winds ther. enfuing; which fome men observing, have been able to make predictions which way the Wind would turn, and been esteemed hereby wife men in point of Weather. Now, this proceeding from fense in the creature alive, it were not reasonable to hang up an Hedg-hog dead, and to expect a conformable Motion unto its living convertion, And, though in fundry Plants, their vertues do live after death, and we know that Scammony, Rhubarb, and Senna will purge without any vital affiftance;

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stance; yet in Animals and sensible Creatures, many actions are mixt, and depend upon their living form, as well as that of mission; and, though they wholly seem to retain unto the body, depart upon distunion. Thus Glow-worms alive, project a lustre in the dark; which fulgour not-withstanding ceaseth after death; and thus the Torpedo which being alive stupisses at a distance, applied after death, produceth no such effect; which had they retained, in places where they abound, they might have

Supplied Opium, and served as frontals in Phrensies.

As for Experiment: we cannot make it out by any we have attempted; for if a fingle King-fisher be hanged up with untwifted filk in an open room, and where the air is free, it observes not a constant respect unto the mouth of the Wind, but variously converting, doth seldom breast it right. If two be suspended in the same room, they will not regularly conform their breasts, but oft-times respect the opposite Points of Heaven. And if we conceive that, for exact exploration, they should be suspended, where the air is quiet and unmoved, that, clear of impediments, they may more freely convert upon their natural verticity; we have also made this way of inquisition, suspending them in large and capacious Glasses clossy stopped; wherein, nevertheless we observe a casual station, and that they rested irregularly upon conversion. Wheresoever they rested, remaining inconverted; and possessing one Point of the Compass, whilst the wind perhaps had

passed the two and thirty.

The ground of this popular practice might be the common opinion concerning the vertue Prognostick of these Birds; the natural regard they have unto the Winds, and they unto them again; more especially semarkable in the time of their Nidulation, and bringing forth their young. For at that time, which happeneth about the brumal Solflice, it hath been observed even unto a Proverb, that the Sea is calm, and the Winds do cease, till the young ones are excluded and forfake their Nest, which floateth upon the Sea, and by the roughness of winds might otherwise be overwhelmed. But how far hereby to magnify their prediction we have no certain rule; for, whether out of any particular prenotion, they chuse to fit at this time, or whether it be thus contrived by concurrence of causes, and providence of Nature, securing every species in their production, is not yet determined. Surely, many things fall out by the defign of the general motor, and undreamt of contrivance of Nature, which are not imputable unto the intention or knowledg of the particular Actor. So though the seminality of Ivy be almost in every Earth, yet that it ariseth and groweth not, but where it may be supported; we cannot ascribe the same unto the distinction of the feed; or conceive any science therein, which suspends and conditionates its eruption. So if, as Pliny and Plutarch report, the Crocodiles of exempt, fo aptly lay their Eggs, that the Natives ther by are able to

know how high the flood will attain; it will be hard to make ou t, how they should divine the extent of the in undation, depending on causes so many miles remote, that is, the measure of showers in Athiopia; and whereof, as Athanafius in the life of Anthony delivers, the Devil himfelf upon demand could make no clear prediction. So are there likewise many things in Nature, which are the Fore-runners or Signs of future Effects, whereto they neither concurr in causality or prenotion; but are secretly ordered by the providence of causes, and concurrence of actions collateral to their fignati-

It was also a Custom of old to keep these Birds in Chests, upon opinion that they prevented Moths. Whether it were not first hang'd up in Rooms to such effects, is not beyond all doubt. Or whether we mistake not the posture or suspension; hanging it by the Bill, whereas we should do it by the Back, that by the Bill it might point out the Quarters of the Wind; for so hath Kircherus described the Orbis, and the Sea-Swallow. But the eldest custom of hanging up these Birds was founded upon a tradition that they would renew their Feathers every year as though they were alive. In expectation whereof, four hundred years ago Albertus magnus was deceiv-

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CHAP. XI.

of Griffins.

Hat there are Griffins in Nature, that is, a mixt and dubious Animal I in the fore-part refembling an Eagle, and behind, the shape of a Lion with directed Ears, four Feet, and a long Tail, many affirm and most, I perceive, deny not. The same is averred by Elian, Solinus, Me'a, and Herodotus, countenanced by the Name fometimes found in Scripture, and

was an Hieroglyphick of the Ægyptians.

Notwithstanding, we find most diligent enquirers to be of a contrary asfertion. For beside that Albertus and Pliny, have disallowed it, the learned Aldrovandus, hath in a large discourse rejected it; Mathias Michovins, who writ of those Northern Parts, wherein men place these Griffins, hath positively concluded against it; and if examined by the Doctrine of Animals, the Invention is Monstrous, nor much inferiour unto the figment of Sphinx, Chimæra, and Harpies; for though there be some flying Animals of mixed and participating Natures, that is, between Bird, and Quadruped; yet are their Wings and Legs to fet together, that they fe m to make each

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each other; there being a commixtion of both, rather than adaptation or cement of prominent parts unto each other; as is observable in the Bat, whose Wings and Fore-legs are contrived in each other. For though some species there be, of middle and participating Natures, that is, of Bird and Beast, as Bats and some few others; yet are their parts so conformed and set together, that we cannot define the beginning or end of either; there being a commixtion of both in the whole, rather than an adaptation or ce-

ment of the one unto the other.

Now for the word 2004 or Gryps sometimes mentioned in Scripture, and frequently in humane Authors, properly understood, it fignifies some kind of Bagle or Vulture; from whence the Epithete Grypus for an hooked or Aquiline Nofe. Thus when the Septuagint makes use of this word, Tremet. lins and our Translation hath rendered it the Offirage; which is mentioned of the Eagle. And although the Vulgar Translation, and that annexed unto the Septuagint retain the word Gryps, which in ordinary and school-construction is commonly rendred a Griffin; yer cannot the Latine affume any other then the Greek, from whence it is borrowed. And though the Latine Gryphes be altered somewhat by the addition of an h, or aspiration of the letter w, yet is not this unusual; so what the Greeks call rebrausy, the Latines will call Trophaum, and that person which in the Gospel is named KASOTAS, the Latine will render Cleophas. And therefore the quarrel of Origen was injust, and his conception erroneous, when he conceived the food of Griffins forbidden by the Law of Moses: that is, Poetical Animals, and things of no existence. And therefore when in the Hecatombs and mighty oblations of the Gentiles, it is delivered, they factificed Gryphes or Grffins: hereby we may understand some stronger fort of Eagles. And therefore also when it is faid in Virgit of an improper Match, or Mopfus marrying Nysa, Jungentur jam Gryphes equis; we need not Hunt after other sense, than that strange unions shall be made, and different natures be joined together.

As for the Testimonies of ancient Writers, they are but derivative, and terminate all in one Ariseus a Poet of Proconssus; who affirmed that neer the Arimaspi, or one-eyed Nation, Griffins defended the Mines of Gold. But this, as Herodotus delivereth, he wrote by hear-suy; and Michovius who hath expressly written of those parts, plainly affirmeth, there is neither Gold nor Griffins in that country, nor any such animal extant; for so doth he conclude, Ego vero contraspeteres authores, Gryphes nec in illa Se p:entrionis,

nec in aliis orbis partibus inveniri affirmarim.

Lastly, Concerning the Hieroglyphical Authority, although it neerest approacheth the truth, it doth not inferr its existency. The conceit of the Griffin properly taken being but asymbolical phancy; in so intolerable a shape including allowable morality. So doth it well make out the properties of a Gnardian, or any person intrusted; the ears implying attention, the wings celerity of execution, the Lion-like shape, courage and audacity,

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the hooked Bill, refervance and tenacity. It is also an Embleme of valour and magnanimity, as being compounded of the Eagle and Lion, the noblest Animals in their kinds; and so is it appliable unto Princes, Presidents, Generals, and all Heroick Commanders; and so it is also born in the Coat-

arms of many noble Families of Europe.

But the Original Invention feems to be Hieroglyphical, derived from the Agyptians, and of an higher fignification. By the mystical Conjunction of Hawk and Lion, implying either the Genial or the syderous Sun, the great Celerity thereof, and the strength and vigout in its operations. And therefore under such Hieroglyphicks, Offris was described; and in ancient Coins, we meet with Gryphins conjointly with Apollo's, Tripodes and Chariot Wheels, and the marble Gryffins at St. Peters in Rome; as learned Men conjecture, were first translated from the Temple of Apollo. Whether hereby were not also mystically implyed the activity of the Sun in Leo, the power of God in the Sun, or the influence of the Coelestial Offris, by Moptha the Genius of Nilus, might also be considered. And, than the learned Kircherus no man were likely to be a better Oedipus.

CHAP. XII.

Of the Phanix.

That there is but one Phoenix in the World, which after many hundred years burneth it self, and from the asnes thereof ariseth up another, is a conceit not new nor altogether popular, but of great Antiquity; not only delivered by humane Authors, but frequently expressed by holy Writers; by Cyril, Epiphanius and others, by Ambrose in his Hexameron, and Tertullian in his Poem de judicio Domini, but more agreeably unto the present sense, in his excellent Tract, de Resurrestione carnis. Illum dico alitem, Orientis peculiarem, de singularitate famosum, de posteritate monstrosum; qui semetipsum libenter sunerans renovat, natali sine decedens, atque succed ns iterum Phoenix. Ubi sam nemo, iterum ipse; quia non sam, alius idem. The Scriptures also seem to favour it; particularly that of Job 21. In the interpretation of Beda, Dicebam in nidulo meo moriar, & sicut Phoenix multiplicabo dies: and Psal. 31. Sincus connected posivis division, Vir sustus ut Phoenix florebit, as Tertullian renders it, and so also expounds it in his Book before al-

leadged.

All which notwithstanding, we cannot presume the existence of this A-Against the nimal; nor dare we affirm there is any Phoenix in Nature. For, first there Phoenix.

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wants herein the definitive Confirmator and Test of things uncertain, that is, the sense of Man. For though many Writers have much enlarged hereon, yet is there not any ocular Describer, or such as presumeth to confirm it upon aspection. And therefore Herodotus that led the story unto the Greeks, plainly saith, he never attained the fight of any but only in the

picture.

Again, Primitive Authors, and from whom the stream of relations is derivative, deliver themselves very dubiously; and either by a doubtful parenthesis, or a timorous conclusion, overthrow the whole Relation. Thus Herodotus in his Euterpe, delivering the story hereof, presently interposeth, suol μέν επίςα λέγονζες; that is, which account feems to me improbable. Tacitasin his Annals affordeth a larger story, how the Phoenix was first seen at Heliopolis in the reign of Sesostris, then in the reign of Amasis, after in the dayes of Prolemy, the third of the Maccionian Race, but at last, thus determineth, Sed antiquitas obseura; & nonnulli falsum effe hunc Phoenicem, neque Arabum e terris, credidere, Plinyimakes yet a fairer flory; that the Phonix flew into Egypt in the Consul-Thip of Quintus Planeius, that it was brought to Rome in the Cenfor-ship of Claudius, in the eight hundred year of the City, and tellified also in their Records; but after all concludeth, Sed qua falfa nemo dubitavit, as we read it in the fair and ancient impression of Brescia, as Aldrovandus hath quoted it, and as it is found in the manufcript Copy, as Dalechampins hath also noted.

Moreover, Such as have naturally discoursed hereon, have so diversly, contrarily, or contradictorily delivered themselves, that no affirmative from thence, can reasonably be deduced. For most have positively denied it, and they which affirm and believeit, affign this name unto many, and mistake two or three in one. So hath that Bird been taken for the Phoenix which liveth in Arabia, and buildeth its Nest with Cinnamon; by Herodotas, called Cinnamulgus, and by Aristotle, Cinnammus, and as a fabulous conceit is censured by Scal ger: Some have conceived that Bird to be the Phoenix, which by a Persian name with the Greeks, is called Rhimace; but how they made this good, we find occasion of doubt; whilst we read in the Life of Artaxeres, that this is a little Bird brought often to their tables, and wherewith Parafytis cunningly poisoned the Queen. The Manucodiata or Bird of Paradife, hath had the honour of this name, and their Feathers brought from the Molucca's do país for those of the Phænix. Which though promoted by rarity with us, the Eastern Travailers will hardly admit; who know they are common in those parts, and the ordinary plume of Janizaries among the Turks. And laftly, the Bird Semenda hath found the same appellation, for so hath Scaliger observed and refuted; nor will the solitude of the Phoenix allow this denomination; for many there are of that species, and whose trifisfulary Bill and Crany, we have beheld our selves. Nor are men only at variance in regard of the Phoenix it felf, but very difagreeing in she accidents ascribed thereto: for some affirm it liveth three hundred, some

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Norsa Norsa agreeing a five, others fix, some a thousand, others no less than fifteen hundred years; some say it liveth in Æshio; ia, others in Arabia, some in Ægypt, others in India, and some in Utopia; for such must that be which is described by Lastantius; that is, which neither was sindged in the combustion of Placton,

or over-whelmed by the innundation of Deucalion.

Lastly, Many Authors who have discoursed hereof, have so delivered themselves, and with such intentions, as we cannot from thence deduce a confirmation. For some have written Poetically, as Ovid, Mantuan, Lattantius, Claudian, and others: Some have written Mystically, as Paracelsus in his Book de Azoth, or de ligno & linea vita; and as Hermetical Philosophers, involving therein the Secret of their Elixir, and enigmatically expressing the Nature of their great Work. Some have writ Rhetorically, and Concessively, not controverting, but assuming the Question, which taken as granted, advantaged the illation. So have holy men made use hereof, as far as thereby to confirm the Refurrection; for discoursing with Heathens who granted the story of the Phœnix, they induced the Refurrection from principles of their own, and positions received among themselves. Others have spoken Emblematically and Hieroglyphically; and so did the Ægyptians, unto whom the Phoenix was the Hieroglyphick of the Sun. And, this was probably the Ground of the whole Relation; succeeding ages adding fabulous accounts, which laid together built up this fingularity, which

every pen proclaimeth.

As for the Texts of Scripture, which feem to confirm the conceit, duly perpended, they add not thereunto. For whereas in that of fob, according to the Septuagint or Greek Translation we find the word Phoenix, yet can it have no Animal figntification; or therein it is not expressed point but sexexes colvinos, the Trunk of the Palm-tree, which is also called Phoenix; and therefore the construction will be very hard, if not applied unto some vegetable Nature. Nor can we fafely infift upon the Greek expression at all; for though the Vulgar translate it Palma, and some retain the word Phoenix, others do render it by a word of different fenfe; for so hath Tremellius delivered : Dicebam quod apud nidum meum exfpirabo, & ficut arenas multiplicabo dies; fo bath the Geneva and ours translated it, I said I shall die in my Nest, and shall multiply my dayes, as the sand. As for that in the book of Pfalms, Vir justus ut Phanix florebit, as Epiphanius and Tertullian render it, it was only a mistake upon the Homonymy of the Greek word Phoenix, which fignifies also a Palm-tree. Which is a fatlacy of equivocation, from a community in name inferring a common Nature; and whereby we may as firmly conclude, that Diaphoenicon a purging Electuary hath some part of the Phoenix for its ingredient; which receive that name from Dates, or the fruit of the Palm-tree, from whence, as Pliny delivers, the Phoenix had it name.

Nor do we only arraign the existence of this Animal, but many things are questionable which are ascribed thereto, especially its unity, long life,

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and generation. As for its unity, or conceit there should be but one in nature. it seemeth not only repugnant unto Philosophy, but also holy Scripture; which plainly affirms, there went of every fort, two at least into the Ark of Noab, according to the Text, Every Fowl after his kind, every Bird of every fort, they went into the Ark, Two and two of all flesh wherein there is the Breath of Life; and they that went in, went in both Male and Female of all Flesh. It infringeth the Benediction of God concerning Multiplication. God bleffed them, faying, Be fruitful and multiply, and fill the waters in the Seas, and let Fowl multiply on the Earth; And again, Bring forth with thee, every living Thing, that they may breed abundantly in the Earth, and be fruitful and multiply upon the Earth, which terms are not appliable unto the Phænix; whereof there is but one in the World, and no more now living then at the first Benediction. For the Production of one, being the destruction of another, although they Produce and generate, they increase not; and must not be said to multiply, who do not transcend an

As for Longavity, that it liveth a thousand years, or more; besides that from imperfect observations, and rarity of appearance, no confirmation can be made; there may probably be a mistake in the compute. For the tradition being very ancient, and probably Ægyptian, the Greeks who dispersed the Fable, might sum up the account, by their own numeration of years; whereas the Conceit might have its Original in times of shorter compute. world should For if we suppose our present Calculation, the Phoenix now in nature will be but the fixt from the Creation; and in the middle of its years; and if the Rabbines Prophesiesucceed, shall conclude its dayes, not in its own, but the

last and general flames, without all hope of Reviviction.

That the last but fix thousand yer.

Concerning its Generation, that without all conjunction it begets and reseminates itself, hereby we introduce a vegetable production in Animals; and unto sensible natures, transferr the Propriety of Plants; that, is to multiply within themselves, according to the Law of the Creation, Let the Earth bring forth Grass, the Herb yeelding Seed, and the Tree yeelding Fruit whose seed is in it self. Which is indeed the natural way of plants, who having no distinction of Sex, and the power of species contained in every Individuum, beget and propagate themselves, without commixtion; and therefore their Fruits proceeding from simpler Roots, are not so unlike, or distinguishable from each other, as are the off-springs of sensible Creatures and Prolifications descending from double Originals. But Animal-Generation is accomplished by more; and the concurrence of two sexes is required to the constitution of one. And therefore such as have no distinction of Sex engender not all, as Aristotle conceives of Eels, and testaceous Animals And though Plant-animals do multiply, they do it not by copulation, but in a way analogous unto plants. So Hermaphrodises although they include the parts of both Sexes, and may be fufficiently potent in either; yet unto a conception require a separated Sex, and cannot impregnate themselves.

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pet unto i bemfelies. And so also though Adam included all human nature, or was (as some opinion) an Hermaphrodite, yet had he no power to propagate himself; and therefore God said, It is not good that man should be alone, let us make him an help meet for him; that is, an help unto generation; for as for any other help, it had been fitter to have made another man.

Now, whereas some affirm that from one Phanix there doth not immediately proceed another, but the first corrupteth into a Worm, which after becometh a Phanix, it will not make probable this production. For, hereby they consound the generation of perfect animals with imperfect, sanguineous with exsanguious, vermiparous with oviparous, and erect Anomalies, disturbing the laws of Nature. Nor, will this corruptive production be easily made out in most imperfect generation. Irregularities, ons; for, also be we deny not, that many Animals are vermiparous, beganing members at a distance, and as it were at the second hand (as generall Insects, and more remarkably Buttersies and Silk-worms)

begating the meleves at a distance, and as it were at the second hand (as generall Infects, and more remarkably Buttersies and Silk-worms) yet, proceeds not this generation from a corruption of themselves, but rather a specifical and seminal dissussion, retaining still the Idea of themselves, though it act that part a while in other shapes. And this will also hold in generations equivocal, and such as are not begotten of parents like themselves; so from Frogs corrupting, proceed not Frogs again; so if there be Anatiserous trees, whose corruption breaks forth into Bernaeles, yet if they corrupt, they degenerate into Maggots, which produce not them again. For, this were a consusion of corruptive and seminal Production, and a frustration of that seminal power committed to Animals at the Creation. The Problem might have been spared, Why we sove not our Lice as well as our Children? Noahs Ark had been needless: the graves of Animals would be the fruitfullest Wombs; for death would not destroy, but empeople the World again.

Since therefore we have so slender grounds to confirm the existence of the Phanix; since there is no ocular witness of it; since, as we have declared by Authors from whom the story is derived, it rather stands rejected; since they who have seriously discoursed hereof, have delivered themselves negatively, diversly, or contrarily; since many others cannot be drawn in to argument, as writing Poetically, Rhetorically, Enigmatically, Hieroglyphically; since holy Scripture alledged for it, duly perpended, doth not advantage it; and lastly, since so strange a generation, unity and long life, hath neither experience nor reason to confirm it; how far to rely on this tradition, we refer unto considera-

But, surely they were not well-wishers unto parable Physick, or re- in moderate medies easily acquired, who derived Medecines from the Phanix; as some have done, and are justly condemned by Pliny; Irridere est, vita remediat postinilless mam armem reditura monstrare; It is a folly to find out remedies that are not recoverable under a shouland years; or

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propose the prolonging of life by that which the Twentieth generation may never behold. More veniable is a dependance upon the Philosophers Stone, potable Gold, or any of those Arcana's, whereby Paracelfus that died himself at Forty seven, gloried, that he could make other men Immortal. Which, although extreamly difficult, and tantum non infesible, yet, are they not impossible; nor do they (rightly understood) impose any violence on Nature. And therefore, if strictly taken, for the Phanix, very frange is that which is delivered by Plutarch, That De fanitate the brain thereof is a pleasant bit, but that it causeth the head-ach. Which notwithstanding, the luxurious Emperour could never taste; though he had at his Table many a Phanicopterus, yet had he not one Phanix; for though he expected and attempted it, we read not in Lampridius that he performed it; and confidering the unity there, it was a vain delign, that is, to destroy any species, or Mutilate the great accomplishment of Six daies. And, although some conceive, and it may feem true, that there is in Man a natural possibility to destroy the World in one Generation, that is, by a general Conspire to know no woman themfelves, and disable all others also: yet will this never be effected. And therefore Cain, after he had killed Abel, were there no other woman living, could not have also destroyed Eve: which although he had a natural power to effect, yet, the execution thereof the Providence of God would have refisted: for, that would have imposed another creation upon him, and to have animated a second Rib of Adam.

Reliogabalus.

CHAP XIII.

Of Frogs, Toads, and Toad ftone.

Oncerning the venemous urine of Toads, of the Stone in the Toads head, and of the generation of Frogs, conceptions are entertained which require confideration. And first that a Toad piffeth, and this way diffuseth its venome, is generally received, not only with us, but also in other parts; For so hath Scaliger observed in his Comment, Aversam urinam reddere ob oculos persecutoris perniciosum ruricolis persua-Sum est; and Mathiolus hath also a passage, that a Toad communicates its venom, not only by Urine, but by the huraidity and flaver of its mouth: which notwithstanding strictly understood, will not confist with truth. For to speak properly a Toad piffeth not : nor do they contain those urinary parts which are found in other Animals, to avoid that ferous ex. cretion : for though not only birds, but oviparous quadrupeds and Serpents have Kidneys and Ureters, and some fishes also bladders : yet fo

the moist and dry excretion they have one vent and common place of exclusion: and with the same propriety of language, we may ascribe that action unto Crows, and Kites. And this is not only verified in Frogs, and Toads, but may be enquired in Tortoyses: whether that be strictly true, or to be taken for a distinct and separate miction, when Aristotle assirtment, that no oviparous Animal, that is, which either spawneth, or layeth Eggs, doth Urine, except the Tortoise.

The ground or occasion of this expression might from hence arise, that Toads are sometimes observed to exclude or spirt out a dark and liquid matter behind: which we have observed to be true, and a venemous condition there may be perhaps therein, but it cannot be called their Urine: not because it is emitted aversly or backward, by both Sexes, but because it is confounded with the intestinal excretions, and

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As for the Stone commonly called a Tead-stone, which is presumed to be found in the head of that Animal, we first conceive it not a thing impossible: nor is there any substantial reason, why in a Tead there may not be found such hard and lapideous concretions. For the like we daily observe in the heads of Fishes, as Cods, Carps, and Pearches: the like also in Snails, a soft and exosseous Animal, whereof in the naked and greater fort, as though she should requite the Desect of a shell on their back, Nature, neer the head, hath placed a stat white stone, or rather testaceous concretion. Which though Aldrovandus affirms that, after diffection of many, he found but in some sew: yet of the great gray Snails, I have not met with any that wanted it: and the same indeed so palpable, that without desection it is discoverable by the hand.

Again, though it be not impossible, yet it is surely very rare; as we are induced to believe from some enquiry of our own: from the tryal of many who have been deceived; and the frustrated search of Porta, who upon the explorement of many, could scarce find one. Nor is it onely of rarity, but may be doubted whether it be of existency, or really any such stone in the head of a Toad at all. For although Lapidaries and questuary enquirers affirm it, yet the Writers of Minerals and Natural speculators, are of another belief: conceiving the stones which bear this name, to be a Mineral concretion: not to be found in Animals, but in fields. And therefore Boetius referrs it to Asteria or some kind of Lapis stellaris, and plainly concludeth, Reperiuntur in agris, quos tamen alii in annosis, ac qui din Arundinetis interrubos sentesque deliturum, bufonis capitibus generari pertinaciter affirmant.

Lastly, If any such thing there be, yet must it not, for ought I see, be taken as we receive it, for a loose and moveable stone, but rather a concretion or induration of the Crany it self; for being of an earthy temper, living in the Earth, and as some say seeding hereon, such indurations may sometimes happen. Thus when Brassavelus after a long

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fearch, had discovered one, he affirms it was rather the fore-head bone petrified, than a stone within the crany : and of this belief was Gefner. Which is also much confirmed from what is delivered in Aldrovandus, upon experiment of very many Toads; whose Cranies or Skulls in time grew hard, and almost of a stony substance. All which considered, we must with circumspection receive those stones, which commonly bear this name, much less believe the traditions, that in envy to mankind, they are cast out, or fwallowed down by the Toad; which cannot confift with Anatomy, and with the rest inforced this censure from Boetius, Ab eo tempore pro nugis habui quod de bufonio lapide, ejusque origine traditur.

What therefore best reconcileth these divided determinations, may be a middle opinion; that of these stones some are mineral and to be found in the Earth; some animal, to be met with in Toads, at least by the induration of their Cranies. The first are many and manifold, to be found in Germany and other parts; the last, are fewer in number, and in substance not unlike the stones in Carps heads. This is agreeable unto the determination of Aldrovandus, and is also the judgment of learned Spigelius in his E-

lariani. Selt. 3. Commo Pignorius.

Concerning the generation of Frogs, we shall briefly deliver that account which observation hath taught us. By Frogs I understand, not such as arifing from putrefaction, are bred without copulation, and because they subsist not long, are called Temporaria, nor do I mean the little Frog of an excellent Parrot-green, that usually fits on Trees and Bushes, and is therefore called Ranunculus viridis, of arboreus; but hereby I understand the Aquatile or Water-Frog; whereof in Ditches and standing Plashes we may behold many millions, every Spring in England. Now these do not as Pliny conceiveth, exclude black pieces of fleth, which after become Frogs; but they let fall their spawn in the water, of excellent use in Physick, and fcarce unknown unto any. In this spawn of a lentous and transparent body. are to be difcerned many specks, or little conglobations, which in a small time become of deep black; a substance more compacted and terrestrious than the other; for it rifeth not in distillation, and affords a powder, when the white and aqueous part is exhaled. Now of this black or dusky substance is the Frog at last formed; as we have beheld, including the spawn with water in a glass, and exposing it unto the Sun. For that black and round substance, in a few dayes began to dilate and grow longer, after a while the head, the eyes, the tail to be discernable, and at last to become that which the Ancients call Gyrinus, we a Pormigle or Tadpole. This in some weeks after, becomes a perfect Frog, the legs growing out before, and the tail wearing away, to supply the other behind; as may be observed in some, which have newly forfaken the water: for in such, some part of the tail will be feen, but curtail'd and short, not long and finny as before. A part provided them a while to fwim and move in the water, that is, untill fuch time as nature excluding legs, whereby they might be provided not only

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to swim in the water, but move upon the land; according to the amphibious and mixt intention of Nature, that is, to live in both. So that whoever observeth the first progression of the seed before motion, or shall take notice of the strange indistinction of parts in the Tadpole, even when it moveth about, and how successively the inward parts do seem to discover themselves, untill their last perfection; may easily discern the high curiosity of natures in these inferiour animals, and what a long line is run to make a

And because many affirm, and some deliver, that in regard it hath Lungs and breatheth, a Frog may be eafily drowned; though the reason be probable, I find not the experiment answerable; for fastning one about a span un- Amphibious der water, it lived almost fix dayes. Nor is it hard to destroy one in water, aslive in both but difficultialso at land : for it will live long after the lungs and heart be out; elements of how long it will live in the feed, or whether the spawn of this year being land and wapreserved, will not arise into Frogs in the next, might also be enquired: and ter., we are prepared to trie.

CHAP. XIV.

of the Salamander.

Hat a Salamander is able to live in flames, to endure and put out fire. is an affertion, not only of great Antiquity, but confirmed by frequent, and not contemptible testimony. The Egyptians have drawn it into their Hieroglyphicks; Aristotle seemeth to imbrace it; more plainly Nicander, Sarenus, Samnonicus, Ælian, and Pliny, who affigns the cause of this effect : An Animal (saith he) fo cold that it extinguisheth the fire, like All which notwithstanding, there is on the negative, Authority and Experience; Sexius a Physitian, as Pliny delivereth, denied this effect; Diescorides affirmed it a point of folly to believe it : Galen that it endureth the fire a while; but in continuance is confumed therein. For experimental conviction, Mathiolus affirmeth : he faw a Salamander burnt in a very short time; and of the like affertion is Amatus Lustranus; and most plainly Pierius, whose words in his Hieroglyphicks are these; Whereas it is commonly said, that a Salamander extinguisheth fire, we have found by experience, that its fo far from quenching hot coals, that it dieth immediately therein. As for the contrary affertion of Aristotle, it is but by hear-say, as common opinion believeth, Hac enim (ut ainnt) ignem ingrediens, enm extinguit; and therefore therefore there was no absurdity in Galen, when as A corruptive a Septical medicine he commended the ashes of a Sa'amander; and Magi-firoying the cians in vain from the power of this tradition, at the burning of towns or parts like Arhouses expect a relief from Salamanders. The

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The ground of this opinion, might be some sensible resistance of fire observed in the Salamander: which being, as Galen determineth, cold in the fourth, and moist in the third degree, and having also a mucous humidity above and under the skin, by vertue thereof it may a while endure the flame : which being confumed, it can resist no more. Such an humidity there is observed in Newts, or water-Lizards, especially, if their skins be perforated or pricked. Thus will Frogs, and Snails endure the flames : thus will whites of Eggs, Vitreous, or glaffie Flegm extinguish a coal: thus are unquents made which protect a while from the fire : and thus beside the Herpini there are later stories of Men that have pass'd untoucht through file. And therefore some truth we allow in the tradition: truth according unto Galen, that it may for a time refift the flame, or as Scaliger averrs, extinguish or put out a coal : for thus much will many humid bodies perform : but that it perfeveres and lives in that destructive Element, is a fallacious enlargement. Nor do we reasonably conclude, because for a time it endureffi fire, it subdueth and extinguisheth the same, because by a cold and aluminous moiflure, it is able a while to refift it: from a peculiarity of Nature, it subsileth and liveth in it.

It hath been much promoted by Stories of Incumbustible Napkins and Textures which endure the fire, whose materials are called by the name of Sal-manders Wooll. Which many too literally apprehending, conceive some investing part, or tegument of the Salamander: wherein beside that they mistake the condition of this Animal (which is a kind of Lizard, a quadruped corticated and depilous, that is, acthout wool, sur, or hair, they observe not the method and generall rule of Nature: whereby all quadrupeds oviparous, as Lizards Frogs, Tortois, Camelions, Coccediles, are without bair, and have no covering part, or hairy investment at all. And, if they conceive that from the skin of the Salamander, these incremable pieces are composed; beside the experiments made upon the living, that of Brassavo'us will step in, who in the search of this truth, did burn the skin of one dead.

Nor, is this Salamanders woo! defumed from any Animal, but a Mineral fubstance Metaphorically fo called from this received opinion. For beside Germanicus his heart, and Pyrrhus his great Toe, which would not burn with the rest of their bodies, There are in the number of Minerals, some bodies incombustible; more remarkably that which the Ancients named Asbest n, and Pancirellus treats of, in the chapter of Linum vivum. Whereof by Art, were weaved Napkins, Shirts, and Coats, inconsumable by fire; and wherein in Ancient times to preserve their Ashes pure, and without commixture, they burnt the bodies of Kings. A Napkin hereof Pliny reports that Nero had, and the like, saith Paulus Venetus, the Emperour of Tartary sent unto Pope Alexander; and also assirts, that in some part of Tartary, there were Mines of Iron whose

Plutarch: Suetonius.

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filaments were weaved into incombustable Cloth. Which rare manufacture, although delivered for lost by Pancirollus, yet Salmuth his Commentator affirmeth, that one Podocaterus a Cyprian, had shewed the fame at Venice; and his materialls were from Cyprus, where indeed Di-afcorides placeth them; the fame is also ocularly confirmed by Vives upon Auftin, and Maiolus in his Colloquies. And thus in our daies do men practife to make long lasting Snatts for Lamps, out of Alumen plumosum; and by the same we read in Pansanias, that there alwaies burnt a Lamp before the Image of Minerva.

CHAP. XV.

of the Amphisbana.

Hat the Amphishana, that is, a smaller kind of Serpent, which moveth forward, and backward, hath two heads, or one at either extream, was affirmed first by Nicander, and after by many others, by the Author of the Book de Theriaca ad Pisonem, ascrib unto Galen; more plainly Pliny, Geminum habet caput, tanguam parum effet uno ore effundi venenum: but Elian most confidently, who referring the conceit of himera, and Hydra unto Fables, hath fet down this as an unde-

niable truth.

Whereunto while men affent, and can believe a bicipitous conformation in any continued species, they admit a gemination of principal parts, not naturally discovered in any Animal. True it is, that other parts in Animals are not equal; for some make their progression with many legs, even to the number of an hundred, as Juli, Scolopendra, or fuch as are termed Centipedes: fome fly with two wings, as birds and many infects. fome with four, as all farinacious or mealy-winged Animals, as Butterflies, and Moths: all vaginipermous or theath winged infects, as Beetles, and Dorrs. Some have three Testicles, as Aristorle speaks of the Buzzard; and some have four stomacks, as horned and ruminating Animals: bue for the principal parts, as Liver, Heart, and especially the Brain; regularly they are but one in any kind, or species whatsoever.

And, were there any fuch species or natural kind of animal, it would be hard to make good those fix positions of body, which according to the three Dimensions are ascribed unto every animal: that is, infra fupea, anteretro, dextrosum finificosum : for if (as it is determined) that bethe anterior and upper part, wherein the senses are placed, and that the posterior and lower part which is opposite thereunto; there is no infe-

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riour or former part in this Animal: for the senses being placed at both extreams, do make both ends Anterior, which is impossible: the terms being Relative, which mutually subsist and are not without each other. And therefore this duplicity was ill contrived to place one head at both extreams; and had been more tolerable to have setled three or four at one. And therefore also Poets have been more reasonable than Philosophers, and Geryon, or Cerberus less monstrous than Amphishe-

Again, If any fuch thing there were, it were not to be obtruded by the name of Amphishana, or as an animal of one denomination; for properly the Animal is not one, but multiplicious or many, which hath a duplicity or gemination of of principal parts. And this doth Ariftotle define, when he affirmeth a Monster is to be esteemed one or many, according to its principal part, which he conceived the heart, whence he derived the Original of Nerves, and thereto ascribed many acts, which Physitians assign unto the Brain: and therefore it cannot be called one. which hath a duplicity of Hearts in his fenfe; it cannot receive that appellation with a plurallity of heads in ours. And this the practice of Christians hath acknowledged, who hath baptized these geminous births, and double connascencies with several names; as conceiving in them a distinction of souls, upon the divided execution of their functions; that is, while one wept, the other laughing, while one was filent, the other speaking, while one awaked, the other sleeping; as is declared by three remarkable examples in Petrarch, Vincentins, and the Scottiff History of

It is not denied there have been bicipitous Serpents with the head at each extream, for an example hereof we find in Aristotle, and of the like form in Aldrovandus we meet with the Icon of a Lizzard; and of this kind perhaps might that Amphishana be, the Picture whereof Caffianus Puetus shewed unto the learned Faber. Which double formations do often happen unto multiparous generations, more especially, that of Serpents, whose productions being numerous, and their Eggs in chains or links together (which fometimes conjoyn and inoculate into each other) they may unite into various shapes, and come out in mixed formations. But these are mon trous productions, beside the intention of Nature, and the statutesof generation, neither begotten of like Parents, nor begetting the like again, but irregularly produced, do stand as Anomalies in the general book of Nature. Which being shifts and forced pieces, rather than genuine and proper effects, they afford us no illation; nor is it reafonable to conclude, from a monstrosity unto a species, or from accidental effects, unto the regular works of Nature.

Lastly, the ground of the conceit was the figure of this Animal, and motion oft times both wayes; for described, it is to be like a worm, and so equally framed at both extreams, that at an ordinary distance it is no

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easie matter to determine which is the head; and therefore some obferving them to move both wayes, have given the appellation of heads
unto both extreams, which is no proper and warrantable denomination;
for many Animals with one head, do ordinarily perform both different
and contrary Motions; Crabs move fideling, Lobsters will swim swiftly
backward, Worms, and Leeches will move both wayes, and so will most of
those Animals, whose bodies consist of round and annulary fibers, and
move by undulation, that is, like the waves of the Sea, the one protruding the other, by inversion whereof they make a backward Motion.

Upon the same ground hath risen the same mistake concerning the Scolopendra or hundred-sooted Insect, as is delivered by Rhodiginus from the Scholiast of Nicander: Dicitur a Nicandro, apqua his, idest, dicephalus aut biceps sictum vero, quoniam retrorsum (ut scribit Aristoteles) arrepit, observed by Aldrovandus, but most plainly by Musseus, who thus concludeth upon the Text of Nicander: Tamen pace tanti anthoris dixerim, unicum illi duntaxat caput aliisque imposuisse dubito: that is, Under savour of so great an Author, the Scolopendra hath but one head, although with equal facility it moveth forward and backward, which I suspect deceived Nicander and others.

CHAP. XVI.

of the Viper.

That the young Vipers force their way through the bowels of their Dam, or that the female Viper in the act of generation bites off the head of the Male, in revenge whereof the young ones eat through the womb and belly of the female, is a very ancient Tradition. In this sense entertained in the Hieroglyphicks of the Egyptians, affirmed by Herodotus, Nicander, Pling, Plutareh, Elian, Jerome, Bafil, Isidore; and feems countenanced by Arifforle, and his Scholar, Theophraftus : from hence is commonly assigned, the reason why the Romans punished Parvicides by drowning them in a fack with a Viper; and fo perhaps upon the same opinion the men of Melita when they saw a Viper upon the hand of Paul, faid presently without conceit of any other sin, No doubt this man is a murtherer; who though he have escaped the Sea, yet vengeance suffereth him not to live. That is, he is now paid in his own way, the parricidous Animal and punishment of murtherers is upon him. And though the tradition were current among the Greeks, to confirm the same the Latine name is introduced, Vipera quasi vi pariat; That passage also in the Gospel; O ye generation of Vipers, hath found

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expositions which countenance this conceit. Notwithstanding which authorities, transcribed relations, and conjectures; upon enquiry we find

the same repugnant unto experience and reason.

And first, it feems not only injurious, unto the providence of Nature, to ordain a way of production which should destroy the producer; or contrive the continuation of the species, by the destruction of the Continuator; but it overthrows and frustrates the great benediction of God, which is expressed, God bleffed them, saying, Be fruitful and multiply. Now if it be so ordained, that some must regularly perish by multiplication, and these be the fruits of fructifying in the Viper, it cannot be faid that God did blefs, but curfe this Animal. Upon thy belly halt thou go, and dust shalt the u eat all thy life, was not so great a punishment unto the Serpent after the Fall, as encrease, Be fruitful This were to contound the maledictions of and multiply, was before. God, and translate the Curse of the Woman upon the Serpent : that is. In delore paries, In forrow shalt thou bring forth; which being proper unto the Woman, is verified best in the Viper, whose delivery is not only accompanied with pain, but also with death it self. And lastly, it overthrows the careful course, and parental provision of Nature, whereby the young ones newly excluded are fultained by the Dam: and protected until they grow up unto a sufficiency for themselves. All which is perverted in this eruptive generation: for, the Dam being destroyed, the Younglings are left to their own protection: which is not conceivable they can at all perform, and whereof they afford us a remarkable confirmance many daies after birth. For, the young ones supposed to break through the belly of the Dam, will upon any fright for protection run into it; for, then the old one receives them in at her mouth, which way the fright being past, they will return again, which is a peculiar way of refuge; and although it feem strange, is avowed by frequent experience and undeniable testimony.

As for the experiment, although we have thrice attempted it, it hath not well succeeded; for though we fed them with milk, bran, cheese, &c. the semales alwaies died before the young ones were mature for this eruption; but rest sufficiently confirmed in the experiments of worthy Enquirers. Wherein to omit the Ancient conviction of Appollonius,

That Vipers we shall set down some sew of modern Writers. The first, of Amatus do exclude Lusitanus in his Comment upon Dioscorides, Vidimus nos viperas pragnantheir young tes inclusas pixidibus parere, que inde ex partu nec mortue, nec visceribus ordinary pal. Personate manserunt. The second is that of Scaliger, Viperas ab impasage, as other tientibus mora setibus numerosissimis rumpl atque interire falsum ese sciviviparous mus, qui in Vincentii Camerini circulato is lignea theca vidimus, enatas vicreatures.

mantinus, a Spanish Physitian of Alcala de Henares, whose words in his third de Animantibus Scriptura, are these: Cum vero per me & per alios

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hae ipfa difquififfem, fervata Viperina progenie, &c. that is, When by my felf and others I had enquired the truth hereof, including Vipers in a Glass. and feeding them with cheefe and bran; I undoubtedly found that the Viper was not delivered by the tearing of her bowels, but I beheld them excluded by the passage of generation, near the orifice of the seidge. Whereto we might also add the ocular confirmation of Lacura upon Dioscorides, Ferdinandus Imperatus, and, that learned Physician of Na-

ples, Aurelins Severinus.

Now although the Tradition be untrue, there wanted not many grounds which made it plaulibly received. The first was a favourable indulgence and special contrivance of Nature; which was the conceit of Herodotus, who thus delivereth himfelf. Fearful Animals, and fuch as ferve for food, nature hath made more fruitful; but upon the offensive and noxious kind, the hath not conferred fertility. So the Have that becometh a prey unto Man, unto Beafts, and Fowls of the Ayrg is fruitful or an armada even to superfectation; but the Lyon a fierce and ferocious Animal hath young ones but feldome, and also but one at a time; V pers indeed, although destructive, are fruitful, but, lest their number should encrease, providence hath contrived another way to abate it for in copulation the female bites off the head of the Male, and the young ones deflered the Mother ... But this will not confile with reason, as we have declared before. And if we more nearly confider the condition of Vipers and noxious Animals, we shall discover an higher provision of Nature. how, although in their paucity the hath not abridged their malignity: yet hath the notoriously effected it by their fecestion, or lantancy. For, not only offenfive infects, as Horners, wafpr, and the like; but languineous corticated Animais, as Serpents, Toads, and Lizzards do lie hid, and betake themselves to coverts in the Winter. Whereby most Countreys enjoying the immunity of Ireland and Candie, there ar feth a temporal fecurity from their venoms, and an intermission of their mischiefs, mercifully requiting the time of their activities.

A second ground of this effect, was conceived the Justice of Nature, whereby the compensates the death of the Father by the matricide, for murther of the Mother; and this was the expression of Nicander. But the cause hereof is as improbable as the effect; and were indeed an improvident revenge in the young ones, whereby, in confequence, and upon defect of provision, they must destroy themselves. And whereas he expresset this decollation of the Male by so full a term as emonomine, that is, to to cut or lop off, the act is hardly concervable: for the Female Viper, hath but four confiderable teeth, and those fo difposed, so slender and Needle-pointed, that they are apter for puncture than any act of incilion. And if any like action there be, it may be only some fast retention or sudden compression in the Orgasmus or sury of their hill; according as that expression of Horace is construed

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Others ascribe this effect unto the numerous conception of the Viper,

and this was the opinion of Theophrastus. Who though he denieth the excison or forcing through the Belly, conceiveth nevertheless that upon a full and plentiful impletion there may perhaps succeed a disruption of the Matrix, as it happeneth sometimes in the long and slender fish Needle-fish, Acus. Now although in hot Countries, and very numerous conceptines upon ons, in the Viper or other Animals, there may sometimes ensue a dilathe sea-shore, ceration of the genital parts, yet is this a rare and contingent effect, consisting of and not a natural and constant way of exclusion. For the wise Creator sour lines unhath formed the Organs of Animals unto their operations, and in whom to the vent, he ordaineth a numerous conception, in them be hath prepared convent

thence unto nient receptacles, and a futable way of exclusion.

Others do ground this disruption upon their continued or protracted time of delivery, presumed to last twenty daies, whereat, excluding but one a day, the later brood impatient, by a forcible proruption anticipate their period of exclusion; and this was the affertion of Pliny, Cateritardivatis impatientes prorumpunt latera, occisa parente; which was occasioned upon a mislake of the Greek text in Aristotle, tixtu Is in finitely and since and it is invosiv, which are literally thus translated, Parit autem una die secundum unum, parit autem plures quam viginti, and may be thus Englished, She bringeth forth in one day, one by one, and sometimes more than twenty; and so hath Scaliger rendred it, Singillatim parit, absolvit una die, interdum plures quam viginti: But Pliny, whom Gaza solloweth, hath differently translated it, Singulos diebus singulis parit, numero fere viginti; whereby he extends, the exclusion unto twenty daies, which in the textuary sense is fully accomplished in one.

But what hath most advanced it, is a mistake in another Text of Aristotle, which seemeth directly to determine this disruption, tixturing a contain the second and a second contains and a second contains a secon

As for the Latin word Vipera, which in the Etymology of Isidore promoteth this conceit; more properly it may imply, Vivipara. For whereas other Serients lay Eggs, the Viper excluding living Animals, and though the Ce after be also viviparous, and we have found formed Snakes in the belly of the Cicilia or Slow-worm; yet may the Viper empha-

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nd torms 17 代本 tically bear the Name. For the Notation of Etymology is not of neceffity adequate unto the name; and therefore though Animal be deduced from anima, yet are there many animations beside, and plants will challenge a right therein as well as fenfible Creatures.

As touching the Text of Scripture, and compellation of the Pharifees, by Generation of Vipers; although constructions be made hereof conformable to this Tradition; and it may be plaufibly expounded, that out of a viperous condition they conspired against their Prophets, and destroyed their spiritual parents ; yet (as fansenius observeth) Gregory and ferome, do make another construction; apprehending thereby, what is usually implied by that Proverb, Mali corvi malum ovum; that is, Of evil parents, an evil generation; a posterity not unlike their majority; of mischievous progenitors, a venemous and destructive progeny.

And lastly, concerning the Hieroglyphical account, according to the vulgar conception fet down by Orus Apollo, the Authority thereof is only Emblematical; for were the conception true or falfe, to their apprehensions, is expressed filial impiety. Which strictly taken, and totally received for truth, might perhaps begin, but furely promote

this conception.

CHAP. XVII.

of Hares. The day of days of the state of th

The double fex, of fingle Hares, or that every Hare is both Male and Female, beside the vulgar opinion, was the affirmative of Archelaus, of Plutarch, Philostratus, and many more. Of the same belief have been the Jewish Rabbins: The same is likewise confirmed from the Hebrew word; which, as though there were no fingle Males of that Arnabeth kind, hath only obtained a name of the feminine gender. As also from the Symbolical foundation of its prohibition in the Law, and what vices therein it figured, that is, not only pufillanimity and timidity from its temper, feneration or usury from its fecundity and superfetation; but from this mixture of Sexes, unnatural venery and degenerous effemination. Nor are there hardly any who either treat of mutation, or mixtion of Sexes, who have not left some mention of this point; some speaking positively, others dubiously, and most resigning it unto the enquiry of the Reader. Now hereof to speak distinctly, they must be Male and Female by mutation and succession of Sexes; or else by composition, mixture or union thereof. X 2

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As for the mutation of Sexes, or transition into one another, we cannot deny, it in Hares, it being observable in Man. For hereof beside, Empedocles or Tiresias, there are not a few examples: and though very few, or rather none which have emasculated or turned Women, yet very many who from an esteem or reality of being Women have infallibly proved Men. Some at the first point of their menstrous eruptions, some in the day of their Marriage, others many years after: which occasioned disputes at Law, and contestations concerning a restore of the dowry. And, that not only Mankind, but many other Animals, may suffer this trans-sexion, we will not deny or hold it at all impossible; although I confess by reason of the postick and backward position of the Feminine parts in quadrupedes, they can hardly admit the substitution of a protrusion, essective be in

Retromingents, and fuch as couple backward.

Nor shall we only concede the succession of Sexes in some, but shall not dispute the transition of reputed species in others, that is, a transmutation, or (as Paracelfians term it) Transplantation of one into another. Hereof in perfect Animals of a congenerous feed, or near affinity of natures, examples are in imperfect kinds, and in fuch where the difcrimination of Sexes is obscure, these transformations are more common: and in some within themselves, without commixion; as particularly in Caterpillers or Silk-worms, wherein there is a visible and triple transfiguration. But in Plants, wherein there is no distinction of Sex, these transplantations are conceived more obvious than any : as that of Barly into Oats, of Wheat into Darnel; and thole grains which generally arise among Corn, as Cockle, Aracus, Egilops, and other degenerations; which come up in unexpected fhapes, when they want the support and maintenance of the primary and mafter-forms. And the same do some affirm concerning other Plants in less Analogy of Figures as the mutation of Mint into Creffes, Bafil into Serpoil, and Turneps into Radishes. In all which, as Severinus conceiveth, there may be equivocal feeds and Hermaphroditical Principles, which contain the radicality and power of different forms; thus in the feed of Wheat there lieth obscurely the seminality of Darnel, although in a secundary or inferiour way, and at some distance of production; which nevertheless if it meet with convenient promotion, or a conflux and conspiration of Causesmore powerful than the other; it then beginneth to edifie in chief, and contemning the superintendent form, produceth the fignatures of its felf.

Now therefore, although we deny not these several mutations, and do allow that Hares may exchange their Sex, yet this we conceive doth come to pass but sometimes, and not in that vicissitude or annual alternation as is presumed. That is, from impersection to persection, from persection to impersection; from semale unto male, from male to se-

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male again, and so in a circle to both without a permansion in either. For, beside the inconceivable mutation of temper, which should yearly alternate the sex; this is injurious unto the order of nature, whose operations do rest in the persection of their intents: which having once attained, they maintain their accomplished ends, and relapse not again into their progressional impersections. So if in the minority of Natural vigor, the parts of seminality take place; when upon the encrease or growth thereof the masculine appear, the first design of Nature is atchieved, and those parts are after maintained.

But surely it much impeacheth this iterated trans-section of Hares, if that be true, which Cardan and other Physitians affirm, That transmutation of sex, is only so in opinion; and that these transforminated persons were really men at first; although succeeding years produced the manifesto or evidence of their virilities. Which although intended and formed, was not at first excluded; and that the examples hereof, have undergone no real or new trans-sexion, but were Androgynally born, and under some kind of Hermaphrodites. For though Galen do sayour the opinion, that the distinctive parts of sexes are only different in Position, that is, inversion or protrusion; yet will this hardly be made out from the Anatomy of those parts. The Testicles being so seated in the semale, that they admit not of protrusion; and the neck of the Matrix wanting those parts which are discoverable in

the organ of virility.

The second and most received Acception, is, that Hares are Male and female by conjunction of both fexes; and fuch as are found in Mankind, Poetieally called Hermaphrodites: supposed to be formed from the equality, or non-victorie of either feed; carrying about them, the parts of Man and Woman; although with great variety in perfection, fite, and ability: not only as Aristotle conceive , with a constant impotency in one; but as latter Observers affirm, sometimes with ability of either Venery. And therefore the providence of some Laws have thought good, that at the years of maturity they should elect one fex, and the errors in the other should suffer a feverer punishment. Whereby, endeavouring to prevent incontinency, they unawares enjoined perpetual chastity; for being executive in both parts, and confined unto one, they restrained a natural Power, and ordained a partial virginity. Plato and some of the Rabbins proceed higher; who conceived the first Man an Hermaphrodite; and Marcus Leo the learned Jew, in some sense hath allowed it; affirming, that Adam in one Suppositum without division, contained both male and female. And therefore whereas it is faid in the text, That God created Man in his own Image, In the Image of God crea ed be bim, Male and Female created he them, applying the fingular and plural unto Adam; it might denote, that in one substance, and in himself he included both sexes, which was after divided, and the female called Woman. The opinion of Arifforle extendeth further, from whose affertion, all men should be Hermaphrodites; for affirming, that Women

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do not spermatize, and conferr a place or receptacle rather then essential principles of Generation, he deductively include both sexes in Mankind; for from the father proceed not only males and females, but from him also must Hermaphrodital and masculo-femine Generation be derived, and a commixtion of both fexes arise from the feed of one. But the School-men have dealt with that fex more hardly then any other, who though they have not much disputed their generation, yet they have controverted their Resurre &ion, and raisen a query, whether any at the last day should arise in the sex of women; as may be observed in the supplement of Aquinas.

confifting of man and womant

Bacch. de H y maphroditis.

Now as we must acknowledg this Androgynal condition in Man, so can we not deny, the like doth happen in Beafts. Thus do we read in Pliny, that Neroes Chariot was drawn by four Hermaphraditical Mares, and Cardan affirms he also beheld one at Antwerp. And thus may we also concede, that Hares have been of both Sexes, and some have ocularly confirmed it; but that the whole Species or Kind should be bifexous or double-fexed, we cannot affirm, who have found the parts of male and female, respectively distinct and fing'e in any wherein we have enquired : And the like 'success had Bacchinns in such as he diffected. And whereas it is conceived, that being an harmless Animal and delectable food unto man, nature hath made them with double fexes, that actively and paffively performing, they might numerously er crease; we forget an higher providence of nature whereby The especially promotes the multiplication of Hares, which is bysuperfetation; that is, a conception upon a conception, or an improvement of a fecond fruit before the first be excluded; preventing hereby the usual intermission and vacant time of generation; which is very common and frequently observable in Hares, mentioned long ago by Aristott, Herodotus, and Pliny; and we have often observed, that after the first cast, there remain fuccessive conceptions, and other yonglings very immature, and far from their term of exclusion.

women, and that unto a

Nor need any man to question this in Hares, for the same we observe doth supersetation sometime happen in Women; for although it be true, that upon conception, the inward Orifice of the Matrix exactly closeth, so that it commonly admitteth nothing after; yet falleth it out sometime, that in the act of coip rect birth, tion, the avidity of that part dilateth it felf, and receiveth a fecond burden; which if it happen to be near in time unto the first, they commonly do both proceed unto perfection, and have legitimate exclusions, periodically fucceeding each other. But if the superfetation be made with considerable intermission, the latter most commonly proves abortive; for the first being confirmed, engroffeth the aliment from the other. However therefore the project of Julia feem very plaulible, and that way infallible, when the received not her Paffengers, before the had taking in her lading, yet was there a fallibility therein, nor indeed, any absolute security in the policy of adultery, after conception. For the Matrix (which some have called another Animal withis us, and which is not subjected unto the Law of our will)

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after the reception of its proper Tenant, may yet receive a strange and spurious inmate. As is confirmable by many examples in Pliny; by Larissan in Hippocrates; and that mery one in Plantus urged also by Aristotle: that is, of Iphicles and Hercules, the one begat by Jupiter, the other by Amphitryon on Alemana; as also in those super-conceptions, where one Child was like the Father, the other like the Adulterer, the one favoured the Servant, the other resembled the Master.

Now the Grounds that begat, or much promoted the Opinion of a double fex in Hares, might be some little bags or tumours, at first glarc:s representing Stones of Testicles, to be found in both sexes about the parts of generation; which men observing in either sex, were induced to believe a masculine sex in both. But to speak properly, these are no Testicles, or Parts official unto generation; but glandulous substances that seem to hold the nature of Emunctories. For herein may be perceived stender perforations, at which may be expressed, a black and socculent matter. If therefore from these we shall conceive a mixtion of sexes in Hares, with fairer reason we may conclude it in Bevers, whereof both sexes, contain a double Bag or Tumour in the groin, commonly called the Cod of Castor, as we have delivered before.

Another Ground, were certain holes or cavities observable about the fiedge; which being perceived in Males, made some conceive there might be also a feeminine nature in them. And upon this very ground, the same opinion hath been passed upon the Hiena, and is declared by Aristotle, and thus translated by Scaliger; Quod autem aiunt utriusque sexus habere genitalia, falsumest, quod videtur esse fæmineum sub canda est simile figura fæminino, verum pervium nonest: and thus is it also in Hares, in whom these holes, although they feem to make a deep cavity, yet do they not perforate the skin; nor hold a community with any part of generation; but were (as Pliny delivereth) esteemed the marks of their age, the number of those deciding their number of years. In which opinion, what truth there is we shall not contend; for if other Animal there be authentick Notations, if the characters of years be found in the horns of Cows, or in the antlers of Deer, if we conjecture the age of Horses from joints in their Docks, and undeniably prefume it from their Teeth; we cannot affirm, there is in this conceit, any affront unto Nature; although, whoever enquireth, shall find no affurar ce therein.

The last Foundation, was Retro-mingency or Pissing backward; for men observing both sexes to urine backward, or aversly between their legs, they might conceive there was a seeminine part in both; wherein they are deceived by the ignorance of the just and proper site of the Pizel, or part designed unto the Excretion of urine; which in the Hare holds not the common position, but is aversly seated, and in its distention enclines unto the Coccix or Scut. Now from the nature of this position, there ensueth a necessity of Retro-copulation, which also promoteth the conceit; for some obter-

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ving them to couple without male ascension; have not been able to judge of male and female, or to determinate the proper fex in either. And to speak generally, this way of copulation is not appropriate unto Hares, nor is there one, but many wayes of coition: according to divers shapes and different conformations. For, some couple laterally or side-wife, as Worms: fome circularly, or by complication, as Serpents: fome pronely, that is, by the contaction of the venereal parts in both, as Apes, Porcupines, Hedg-hogs, and fuch as are termed Mollia, as the Cuttle-fifth and the Purple; some mixtly, that is, the Male ascending the Female, or by application of the venereal parts of the one, unto the politick parts of the other, as most Quadrupeds; Some aversly, as also Crusta-ceous Animals, Lobsters, Shrimps, and Crevises, and all Retromingents, as Panthers, Tygers, and Hares. This is the constant Law of their Coition, this they observe and transgress not: only the vitiosity of Man hath acted the varieties hereof; nor content with a digreflion from fex or species, hath in his own kind through the Anomalies of Venery, been so bold, not only to act, but represent to view, the irregular wayes of luft.

C H A P. XVIII.

be affor a feediging talufe in them, And upon this yery ground, one forms

Apother Ground, with courin bales or cavities oblinedists spein the

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hotes, then girthey came make a deep cavity, ye doubty not perform Hat Moles are blind and have no eyes, though a common Opinion, is received with much variety; fome affirming only they have no fight, as Oppianus, the Proverb Talpa Gacior, and the word managla or Talpitas, which in Hefschius is made the same with Cacitas : some that they have eyes, but no fight, as the Text of Arifforte feems to imply; some neither eyes nor fight, as Albertus, Pling, and the rulgar Opinion, some both eyes and fight, as Scalger, Aldrovandas, and some others. Of which Opinions the last, with fome restriction, is most conforant unto truth; for that they have eyes in their head is manifelt unto any that wants them not in his own; and are discoverable, not only in old ones, but as we have observed in young and naked conceptions, taken out of the belly of the Dam. And he that exactly enquires into the cavity of their cranies, may perhaps discover some propagation of Nervs communicated unto these parts. But that the humours together with their coats are also diffinct (chough Galen feem to affirm it) transcendeth our discovery; for separating these little Orbs, and inspecting them in Magnifying Glaffes, we difcern no more, than existent mentiC. Al

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ons, Woodanie pinara, that is, a black humour, nor any more if they be broken. That therefore they have eyes, we must of necessity affirm; but that they be comparatively incompleat, we need not to deny: So Galen affirm the parts of generation in Women are impersed, in respect of those of Men, as the eyes of Moles in regard of other Animals: So Aristotle terms them appending, which Gaza traslates Oblasos, and Sca-

liger, by a word of imperfection, incheater.

Now, as that they have eyes is manifest unto Sense, so that they have fight not incongruous unto Reason; if we call not in question the providence of this provision, that is, to assign the Organs, and yet deny the Office, to grant them eyes, and withhold all manner of vision. For, as the inference is fair, affirmatively deduced from the action to the Organ, that they have eyes because they see; so is it also from the Organ to the Action, that they have eyes, therefore some fight designed; if we take the intention of Nature in every species, and except the cafual impediments or morbolities in individuals. But, as their eyes are more imperfect than others, so do we conceive of their fight or act of vision; for, they will run against things, and hudling forwards fall from high places. So that they are not blind, nor yet distinctly see; there is in them no Cecity, yet more than a Cecutiency; they have fight enough to differn the light, though not perhaps to diffinguish of objects or colours : so are they not exactly blind, for light is one object of vision. And this (as Scaliger observeth) might be as full a sight as Nature first intended; for living in darkness under the Earth, they had no further need of eyes than to avoid the light; and to be fensible when ever they lost that darkness of Earth, which was their natural confinement. And therefore however Translators do render the word of Aristotle or Galen, that is, imperfectes, oblajos, or inchoates, it is not much considerable; for their eyes are sufficiently begun to finish this action, and competently perfect for this imperfect Vision.

And lastly, although they had neither eyes nor fight, yet could they not be termed blind. For blindness being a privative term unto fight, this appellation is not admittible in propriety of speech, and will overthrow the doctrine of privations; which presuppose positive forms or habits; and are not indefinite negations, denying in all subjects, but such alone wherein the positive habits are in their proper Nature, and placed without repugnancy. So do we improperly say, a Mole is blind, if we deny it, the Organs or a capacity of vision from its created Nature; so when the Text of John had said, that person was blind from his Nativity, whose Cecity our Saviour cured, it was not warrantable in Nonnus to say, he had no eyes at all, as, in the judgment of Heinsteen, he describeth in his paraphrase; and as some ancient Fathers affirm, that by this Miracle they were created in him. And so, though the sense may be accepted, that Proverb must be candidly interpreted, which maketh Fi-

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thes mute; and calls them-filent which have no voice in Nature. Now, this conceit is erected upon a misapprehension or mistake in the fymptoms of vision; men confounding abolishment, diminution and depravement, and naming that an abolition of fight, which indee! is but an abatement. For if Vision be abolished, it is called cacitas, or blindness; if depraved and receive its objects erroneously, Hallucination; if diminished, bebetudo visus, caligatio, or dimness. Now, instead of a diminution or imperfect vision in the Mole, we affirm an abolition or total privation; instead of a caligation or dimness, we conclude a cecity or blindness, Which hath been frequently inferred concerning other Animals; fo some affirm the Water-Rat is blind, so Sammonicus and Nicander do call the Mus-Araneus, the Shrew, or Ranny, blind : And because darkness was before light, the Egyptians worshiped the same. So are Slow-worms accounted blind, and the like we affirm proverbially of the Beetle; although their eyes be evident, and they will fly against lights, like many other Infects; and though also Aristotle determines, that the eyes are apparent in all flying Infects, though other fenses be obscure, and not perceptible at all. And if from a diminucion we may inferr a total privation, or affirm, that other Animals are blind which do not acutely fee, or comparatively unto others, we shall condemn unto blindness many not so esteemed; for such as have corneous or horney eyes, as Lobsters and crustaceous Animals, are generally dim-fighted; all Infects that have antenna, or long horns to feel out their way, as Butterflies and Locusts, or their fore-legs so disposed, that they much advance before their heads, as may be observed in Spide s; and, if the Eagle were Judg, we might be blind our felves. The expression therefore of Scripture in the story of facob is surely with circumspection; And it came to pass when Jacob was old, and his eyes were dini, quando caligarunt oculi, faith Ferome and Tremellins, which are expressions of diminution, and not of absolute privation.

CHAP. XIX.

of Lampries.

Hether Lamprics have Nine eyes, as is received, we durst referr it unto Polyphemus, who had but one to judge it. An error concerning eyes, occasioned by the Error of eyes, deduced from the appearance of divers cavities or holes on either side, which some call eyes, that carelessy behold them, and is not only resurable by experience, but also repugnant unto reason. For, beside the monstrosity

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they fasten unto Nature, in contriving many eyes, who hath made but two unto any Animal, that is, one of each fide, according to the division of the brain; it were a superfluous and inartificial act to place and fettle fo many in one plane; for the two extreams would fufficiently perform the Office of fight without the help of the intermediate eyes, and behold as much as all feven joyned together. For, the visible base of the object would be defined by these two; and the middle eyes, although they behold the same thing, yet could they not behold so much thereof as these; so were it no advantage unto man to have a third eye between those two he hath already; and the fiction of Argus seems more reasonable than this, for though he had many eyes, yet were they

placed in circumference and positions of advantage.

Again, these cavities which men call eyes, are seated out of the head, the nine eyes and where the Gills of other Fish are placed; containing no Organs of in a Lam rie fight, nor having any communication with the brain. Now all fense do serve. proceeding from the brain, and that being placed (as Galen observeth) for the fitter fituation of the eyes, and conveniency required unto fight; it is not reasonable to imagine that they are any where else, or deserve that name which are feated in other parts. And therefore we relinquish, as fabulous, what is delivered of Sternopthalmi, or men with eyes in their breast; and when it is said by Solomon, A wise mans eyes are in his head, it is to be taken in a second sense, and affordeth no objection. True it is, that the eyes of Animals are feated with some difference, but all what foever in the head, and that more forward than the ear or hole of hearing. In quadrupedes, in regard of the figure of their heads, they are placed at some distance; in lati-rostrous and flat-bill'd birds, they are more laterally feated; and therefore when they look intently, they turn one eye upon the object, and can convert their heads to fee before and behind, and to behold two opposite points at once. But at a more easie distance are they situated in Man, and in the same circumference with the ear; for if one foot of the Compass be placed upon the Crown, a Circle described thereby will intersect, or pais over

The Error in this conceit confifts in the ignorance of these cavities, and their proper use in Nature; for this is a particular disposure of paris and a peculiar confirmation whereby these holes and fluces supply the defect of Gils, and are affifted by the conduit in the head; for like cetaceous Animals and Whales, the Lamprie hath a fistula, spout, or pipe at the back part of the head, whereat it spurts out water. Nor, is it only fingular in this formation, but also in many other; as in defect of bones, whereof it hath not one; and for the spine or back bone, a cartilaginous substance without any spondyles, processes or protuberance whatfoever. As also in the provision which Nature hath made for the heart; which in this Animal is very strangely secured, and lies immu-

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ed in a cartilage or griftly substance. And lastly, in the colour of the Liver; which is in the Male of an excellent grass-green; but of a deeper colour in the Female, and will communicate a fresh and durable verdure.

CHAP. XX.

Of Snails.

"Hat Snails have two eyes, and at the end of their Horns; beside the assertion of the people, is the opinion of some learned men. Which notwithstanding Scaliger terms but imitation of eyes; which Plimy contradicts, and Aristotle upon consequence denies, when he affirms that testaceous Animals have no eyes at all. And, for my own part after much enquiry, I am not fatisfied that these are eyes, or that those black and atramentous spots which feem to represent them are any ocular realities. For if any object be presented unto them, they will sometime feem to decline it, and sometime run against it. If also these black extremities, or presumed eyes be clipped off, they will notwithstanding make use of these protrusions or horns, and poke out their way as before. Again, if they were eyes or instruments of Vision, they would have their originals in the head, and from thence derive their motive and optick Organs; but their roots and first extremities are feated low upon the fides of the back, as may be perceived in the whiter fort of Snails when they retract them. And lastly, if we concede they have two eyes, we must also grant they have no less than four; for not only the two greater extensions above, have these imitations of eyes, but also the two lesser below; and if they be dextrously disseded, there will be found on either fide two black filaments or membranous strings, which extend into the long and shorter cornicle upon protrusion, And therefore if they have two eyes, they have also four, which will be All sense is monstrous, and beyond the affirmation of any.

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Now, the reason why we name these black strings, eyes, is, because we know not what to call them else, and understand not the proper use of that part; which indeed is very obscure, and not delivered by any; but may probably be said to affish the protrusion and retraction of their horns; which being a weak and hollow body, required some inward establishment, to confirm the length of their advancement; which we observe they cannot extend without the concurrence hereof. For, if with your singer you apprehend the top of the horn, and draw out this

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black and membranous emission, the horn will be excluded no more; but if you clip off the extremity, or only findge the top thereof with Aqua firtis, or other corrolive water, leaving a confiderable part behind; they will nevertheless exclude their horns, and therewith explorate their way as before. And indeed the exact fense of these extremities is very remarkable; for if you dip a pen in Aqua fir is, oyl of Vitriof or Turpentine, and present it towards these points, they will at a reafonable distance, decline the acrimony thereof, retiring, or distorting them to avoid it; and this they will nimbly perform if objected to the extreams, but flowly or not at all, if approached unto their roots.

What hath been therefore delivered concerning the plurality, paucity, or anomalous scituation of eyes, is either monstrous, fabulous, or, under things never feen, includes good fenfe or meaning. And fo may we reseive the figment of Argus, who was an Hieroglyphick of Heaven, in those centuries of eyes expressing the Stars; and their alternate waking, the vicifitude of day and night. Which strictly taken cannot be admitted: for the subject of sleep is not the eye, but the common sense, which once afleep, all eyes must be at rest. And therefore what is delivered as an Emblem of vigilancy, that the Hare and Lion do sleep with one eye open, doth not evince they are any more awake than if they were both closed. For the open eye beholds in sleep no more, than that which is closed; and no more one eye in them, than two in other Animals that fleep with both open; as some by disease and others naturally which have no eye-lids at all.

As for Polyphemus, although the story be fabulous, the monstrofity is not impossible. For the act of Vision may be performed with one eye, and in the deception and fallacy of fight, bath this advantage of two that it beholds not objects double, or fees two things for one. For, this doth happen, when the axis of the visive cones, diffused from the happen to be object, fall not upon the same plane, but that which is conveyed into ble. one eye, is more depressed or elevated, than that which enters the other. So, if beholding a Dandle, we protrude either upward or downward the pupil of one eye, the object will appear double; but if we thut the other eye, and behold it with one, it will then appear but fingle; and if we abduce the eye unto either corner, the object will not duplicate: for in that position the axis of the cones remain in the same plane, as is demonstrated in the opticks, and delivered by Galen, in his tenth De usu partium.

Relations also there are of men that could make themselves invisible, which belongs not to this discourse, but may serve as notable expressions of wife and prudent men, who fo contrive their affairs, that although their actions be manifest, their defigns are not discoverable. In this acception there is nothing left of doubt, and Giges Ring remaineth still amongst us: for vulgar eyes behold no more of wife men than doth

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the Sun: they may discover their exteriour and outward wayes, but their interiour and inward pieces he only sees, that sees into their Beings.

CHAP. XXI.

Of the Cameleon.

Oncerning the Cameleon, there generally passeth an opinion that it liveth only upon ayr, and is sustianed by no other aliment: Thus much in plain terms affirmed by Solinus, Pliny, and others, and by this periphrass is the same described by Ovid. All which notwithstanding, upon enquiry I find the affertion mainly controvertible, and very much

to fail in the three inducements of belief.

And first for its verity, although asserted by some, and traditionally delivered by others, yet is it very questionable. For beside Elian, who is seldom desective in these accounts, Aristotle distinctly treating hereof, hath made no mention of this remarkable propriety: which either suspecting its verity, or presuming its salsity, he surely omitted: for that he remained ignorant of this account it is not easily conceivable: it being the common opinion, and generally received by all men. Some have positively denied it, as Angustinus, Niphus, Stobaus, Dalechampius, Fortunius, Licetus, with many more: others have experimentally refuted it, as namely, Joannes Landius, who in the relation of Scaliger, Comment in observed a Cameleon to lick up a Fly from his breast: But Bellonius hath Ocell. Lucan, been more satisfactorily experimental, not only affirming, they feed on Flies, Caterpillers, Beetles and other Insects, but upon exenteration he found these Animals in their bellies: whereto we might also add the experimental decisions of the worthy Peireschius and learned Emanuel

advantage of our own observation, yet have we received the like confirmation from many ocular spectators.

As touching the verisimility or probable truth of this relation, several reasons there are which seem to overthrow it. For first, there are found in this animal, the Guts, the Stomach, and other parts official unto nuarition; which were its aliment the empty reception of Ayr, their provisions had been superstuous. Now, the wisdom of Nature abhorning superstuities, and effecting nothing in vain, unto the intention of these operations, respectively contriveth the Organs; and therefore

Vizzanius, in that Cameleon which had been observed to drink water, and delight to feed on Meal-worms. And although we have not had the

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where we find such instruments, we may with strictness expect their actions, and where we discover them not, we may with safety conclude, the non-intention of their operations. So when we observe that oviparous Animals, as Lizards, Frogs, Birds, and most Fishes have neither bladder nor kidneys, we may with reason infer they do not Urine properly. But whereas in the same kind we discover these parts in the Tortoife, we cannot deny he exerciseth that excretion; nor was there any absurdity in Pliry, when for medicinal uses he commended the Urine of a Tortoife. So, when we perceive that Bats have teats, it is not unreasonable to infer, they fuckle their younglings with milk; but whereas no other flying Animal hath these parts, we cannot from them expect a viviparous exclusion; but either a generation of Eggs, or some vermiparous separation, whose Navel is within it self at first, and its nutrition after not connexedly depending of its original,

Again, Nature is fo far from leaving any one part without its proper action, that she oft times imposeth two or three labours upon one: fo the Pizel in Animals is both official unto Urine and to Generation, but the first and primary use is Generation, for many Creatures enjoy that part which Urine not, as Fishes, Birds, and quadrupeds oviparous. But not on the contrary; for the Secundary action sublisteth not alone, but in concomitancy with the other. So the nostrils are useful both for respiration and smelling, but the Principal use is Smelling; for many have nostrils which have no lungs, as Fishes, but none have lungs or respiration, which have not some shew, or some analogy of nostrils. Thus we vides no part perceive the providence of Nature, that is, the wisdom of God, which without disposeth of no part in vain, and some parts unto two or three uses, will properfunctinot provide any without the execution of its proper office, nor, where on or office. there is no digestion to be made, make any parts infervient to that in-

tention. Beside the remarkable teeth, the tongue of this Animal is a second argument to overthrow this airy nutrication: and that not only in its proper Nature, but also its peculiar figure. For, of this part properly taken there are two ends; that is, the formation of the voice, and the execution of taste : for the voice, it can have no office in Cameleons, for they are mute animals; as befide Fishes, are most other forts of Lizards. As for their tafte, if their nutriment be ayr, neither can it be an inftrument thereof; for the body of that Element is ingustible, void of all fapidity, and, without any action of the tongue, is by the rough artery or weazon conducted into the lungs. And therefore Pliny much forgets the strictness of his affertion, when he alloweth excrements unto that Animal, that feedeth only upon ayr, which notwithstanding, with the Urine of an Ass, he commends as a magical medicine upon our ene-

The figure of the Tongue seems also to overthrow the presumpti-

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tion of this aliment, which according to exact delineation, is in this Animal peculiar, and seemeth contrived for prey. For, in so little a creature it is at the least a palm long, and being it self very flow in motion, hath in this part a very great agility; withal its food being flyes and fuch as fuddenly escape, it hath in the tongue a mucous and slimy extremity, whereby upon a sudden emission it inviscates and tangleth those And therefore some have thought its name not unfuitable unto its nature; the nomination in Greek is a little Lion, not so much for the resemblance of shape, as affinity of condition; that is, for vigilancy in its prey, and sudden rapacity thereof, which it performeth not like the Lyon with its teeth, but a sudden and unexpected ejaculation of the tongue. This exposition is favoured by some, especially the old gloss upon Levitions, whereby in the translation of ferome and the Septuagint, this Animal is forbidden; what ever it be, it feems as reasonable as that of Isidore, who derives this name a Camelo & Leone, as presuming herein resemblance with a Camel.

As for the possibility hereof, it is not also unquestionable; and wife men are of opinion, the bodies of Animals cannot receive a proper aliment from Air; for, beside that taste being (as Aristotle terms it) a kind of touch; it is required the aliment should be tangible, and fall under the palpable affection of touch; beside also that there is some sapor in all aliments, as being to be diftinguished and judged by the gust, which cannot be admitted in Air; Beside these, I say, if we consider the nature of aliment, and the proper use of Air in respiration, it will very hardly fall under the name hereof, or properly attain the act of nutricati-

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And first concerning its nature, to make a perfect nutrition into the Requifites body nourished, there is required a transmutation of nutriment : now where this conversion or aggeneration is made, there is also required in the aliment a familiarity of matter, and fuch a community or vicinity unto a living nature, as by one act of the foul may be converted into the body of the living, and enjoy one common foul. Which cannot be effected by Ayr, it concurring only with our flesh in common principles, which are at the largest distance from life, and common also unto inanimated constitutions. And therefore when it is said by Fernelius, and afferted by divers others, that we are only nourished by living bodies, and fuch as are some way proceeding from them, that is, the fruits, effects, parts, or seeds thereof; they have laid out an object very agreeable unto affimilation; for, these indeed are fit to receive a quick and immediate conversion, as holding some community with our felves, and containing approximate dispositions unto animation.

Senondly, (as is argued by Ar Stotle against the Pythagoreans,) Whatfoever properly nourishesh before its assimilation, by the action of natural heat, it receivesh a corpulency or incrassation progressional un15 in dis

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to its conversion; which notwithstanding cannot be effected upon Air; for the action of heat doth not condense but rarifie that body, and by attenuation rather than nutrition, disposeth it for expulsion.

Thirdly, (Which is the argument of Hippocrates) all aliment received into the body, must be therein a considerable space retained, and nor immediately expelled. Now Air but momentally remaining in our bodies, it hath no proportionable space for its conversion; only of length enough to refrigerate the heart; which having once performed, left being it felf heated again, it should suffocate that part, it maketh no stay,

but hasteth back the same way it passeth in.

Fourthly, the proper use of Air attracted by the lungs, and without which, there is no durable continuation in life, is not the nutrition of parts, but the contemperation of that fervour in the heart, and the ventilation of that fire alwaies maintained in the forge of life; whereby although in some manner it concurreth unto nutrition, yet can it not receive the proper name of nutriment. And therefore by Hippocrates it is termed Alimentum non- Alimentum, a nourishment and no nourishment. D: A'imente That is, in a large acception, but not in propriety of language, conferving the body, not nourishing the same; not repairing it by assimilation, but preserving it by ventilation; for thereby the natural frame is preferved from extinction, and so the Individuum supported in some way like nutrition. So when it is faid by the same Author, Pulmo contrarium corpori alimentum trabit, reliqua omnia idem, it is not to be taken in a strict and proper sense; but the quality in the one, the substance is meant in the other. For Air, in regard of our natural heat is cold, and in that quality contrary unto it; but what is properly aliment, of what quality foever, is potentially the fame, and in a substantial identity unto it.

Again, some are so far from affirming the Air to afford any nutriment, that they plainly deny it to be any Element, or that it entreth into mixt bodies, as any principle in their compositions, but performeth other offices in the Universe; as to fill all vacuities about the earth or beneath it, to convey the heat of the Sun, to maintain fires and flames, to ferve for the flight of volatils, respiration of breathing Animals, and refrige-

ration of others. And although we receive it as an Element, yet fince wherein vathe transmutation of Elements and simple bodies, is not beyond great pour is comquestion; since also it is no easie matter to demonstrate that Air, is so monly minamuch as convertible into water; how transmutable it is into flesh, may ken for Air:

be of deeper doubt.

And although the Air attracted may be conceived to nourish the invisible flame of life, in as much as common and culinary flames are nourished by the Air about them; we make some doubt, whether Air is the pabulous supply of fire, much less, that stame is properly Air-kindled. And the same before us, bath been denied by the Lord of Verulam, in his Tract of Life and Death; and also by Dr. forden in his book of Mi-

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bustible matter in the kindled body, and not the ambient ayr, which affordeth exhalation to its fuliginous Atoms; nor that which causeth the flame properly to be termed ayr, but rather, as he expressed it, the accension of fuliginous exhalations, which contain an unctue sity in them, and arise from the matter of fuel, which opinion is very probable, and will salve many

doubts, whereof the common conceit affordeth no Solution,

As first, how Fire is stricken out of Flints? That is, not by kindling the air, from the Collision of two hard Bodies: for then Diamonds should de the like better than flints, but rather from the sulphur and inflamable effluviums contained in them. The like, faith forden, we observe in Canes and Woods, that are unctuous and full of Oyl, which will yeeld fire by Frication or Collision, not by kindling the air about them, but the inflamable Ovi within them. Why the fire goes out without air? That is, because the fuliginous exhalations wanting evaporation, recoil upon the flame and choak it, as is evident in cupping-glasses; and the artifice of Charcoals, where it the air be altogether excluded, the fire goes out. Why some lamps included in close bodies have burned many hundred years, as that discovered in the Sepulcher of Tuilia the fifter of Cicero, and that of Olibius many years after, near Padua? Because whatever was their matter, either a preparation-Gold or Naptha, the duration proceeded from the Purity of their Oyl, which yeelded no fuliginous exhalations to fuffocate the Fire; for if air had nourished the stame, it had not continued many minutes, for it would have been spent and wasted by the Fire. Why a piece of fl x will kindle, although it touch not the flame? Because the fire extendeth further, than indeed it is visible, being at some distance from the week, a pellucide and transparent body, and thinner than the air it felf. Why Metals in their liquation, although they intenfly heat the air above their furface, arise not yet into a flame, not kindle the air about them? Because their sulphur is more fixed, and they emit not in flamable exhalations. And laftly, why a lamp or candle burneth o: ly in the air about it, and inflameth not the air at a diffance from it? Because the Flame extendeth not beyond the inflamable Effluence, but closely adheres unto the original of i.s Inflamation? and therefore it only warmeth. not kindleth the air about it. Which notwithstanding it will do, if the ambient air be impregnate with subtile Inflamabilities, and such as are of quick acception; as experiment is made in a close room, upon an evaporation of spirits of Wine and Camphire; as subterraneous Fires do sometimes happen; and as Creusa, and Alexanders boy, in the Bath were set on fire by

Lastly, the Element of air, is so far from nourishing the body, that some have questioned the power of water; many conceiving it enters not the body in the power of aliment; or that, from whence proceeds a substantial supply. For, besides that some creatures drink not at all, unto others it perform the common office of air, and serves for refrigeration of the heart, as unto

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fishes, who receive it, and expel it by the Gils. Even unto our selves, and more perfect Animals, though many wayes affistent thereto, it performs no substantial nutrition, serving for refrigeration, dilution of solid aliment, and its elixation in the stomack; which from thence as a vehicle it conveys through leffe accessible cavities into the liver, from thence into the veins and fo in a torid substance through the capillary cavities into every part; which having performed, it is afterward excluded by urine, Iweat, and ferous separations. And this opinion surely possessed the Ancients: for when they so highly commended that water which is suddenly hot and cold, which is without all favour, the lightest, the thinnest, and which will soonest boil Beans or Peale, they had no confideration of Nutrition; whereunto had by Fine they had respect, they would have surely commended gross and turbid mile of Areams, in whose confusion at least, there might be contained some Nutriment, and not je june or limpid water, neerer the simplicity of its Element. A feed of Although, I confess, our clearest waters, and such as seem simpler unto sense; plants and as as, wet are much compounded unto reason, as may be observed in the evaporation nimals conof large quantities of water; wherein belide a terreous residence, some salt tained in rain is also sound, as is also observable in rain water, which appearing pure and water. yearsh: empty, is full of ieminal principles, and carrieth vital Atoms of Plants and Animals in it, which have not perithed in the great Circulation of Nature; arabon-Gil is may be discovered from several Insects generated in Rain-water, from the prevalent fructification of Plan's thereby; and (befide the real Plant of Cornerius) from vegetable figurations, upon the fides of glasses, so rarely

delineated in Frofts. All which confidered, feverer heads will be apt enough to conceive the opinion of this Animal, not much unlike that of the Astomi, or men without mouths in Pliny; futable unto the relation of the Mares in Spain, and heir subventaneous conceptions, from the Western Wind, and in some vay more unreasonable than the figment of Rabican the samous Horse in Arrofto, which being conceived by Flame, and Wind, never tafted Grafs, orfed on any groffer Provender than Ayr; for this way of Nutrition was inswerable unto the principles of his generation. Which being not airy, out gross and feminal in the Cameleon, unto its conservation there is requied a folid Pasture; and a Food congenerous unto the principles of its Na-

The Grounds of this Opinion are many: the first observed by Theophrawas the inflation or swelling of the body, made in this Animal upon ofpiration or drawing in its Breath; which people observing, have thought to feed upon ayr. But this effect is rather occasioned upon the greatness f its Lungs, which in this Animal are very large, and by their backward tuation, afford a more observable dilatation; and though their lungs be less, be like inflation is also observable in Toads.

A fecond is the continued hiation or holding open its Mouth, which men blerving, conceive the intention thereof to receive the aliment of Ayr;

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but this is also occasioned by the greatnes of its lungs; I for repletion whereof not having a sufficient or ready supply by its nostrils, it is en-

forced to dilate and hold open the jaws.

The third is the paucity of blood observed in this Animal, scarce at all to be found but in the eye, and about the heart; which desect being observed, inclined some into thoughts, that the Air was a sufficient maintenance for these exsanguious parts. But this desect or rather paucity of blood, is also agreeable unto many other Animals, whose solid Nutriment we do not controvert; as may be observed in other sorts of Lizards, in Frogs, and divers Fibes; and therefore an Horseleech will not readily fasten upon every Fib; and we do not read of much blood that was drawn from Frogs by Mice, in that samous battel of Homer.

The last and most common ground which begat or promoted this opinion, is the long continuation hereof without any visible food; which some observing, precipitously conclude they eat not any at all. It cannot be denied, it is (if not the most of any) a very abstemious Animal, and such as by reason of its frigitity, paucity of blood, and latitancy in the Winter (about which time the observations are often made) will long subsist without a visible sustentation. But, a like condition may be also observed in many other Animals: for Lizards and Leeches, as we have made tryal, will live some moneths without sustenance; and we have included Snails in glasses all Winter, which have returned to feed again in the Spring. Now these notwithstanding, are not conceived to pass all their lives without sood; for so to argue is fallacious, and is moreover sufficiently convicted by experience. And therefore probably other relations are of the same verity, which are of the like affinity; as is the conceit of the Rhintace in Persia, the Canis Levis of America, and the Manucodiata or bird of Paradise in India.

To assign a reason of this abstinence in Animals, or declare how without a supply there ensueth no destructive exhaustion, exceedeth the limits and intention of my discourse. Fortunins Licetus in his excellent Tract, De his qui din vivunt sine alimento, hath very ingeniously attempted it; deducing the cause hereof, from an equal conformity of natural heat and moisture, at least no considerable exsuperancy in either; which concurring in an unactive proportion, the natural heat consumeth not the moisture (whereby ensueth no exhaustion) and the condition of natural moisture is able to resist the slender action of heat (whereby it needeth no reparation) and this is evident in Snakes, Lizards, Snails, and divers other Insects latitant many months in the year; which being cold creatures, containing a weak heat in a crass or copious humidity, do long subsist without nutrition. For the activity of the agent, being not able to over-master the resistance of the Patient, there will ensure the no dependition. And upon the like grounds it is, that cold and phlegmatick bodies, and (as Hippocrates determineth) that old men will

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best endure fasting. Now, the same harmony and stationary constitution as it happeneth in many Species, so doth it fall out sometimes in Individuals. For, we read of many, who have lived long time without aliment; and beside deceits and impostures, there may be veritable relations of some, who without a miracle, and by a peculiarity of temper, have far out-sasted Elias. Which notwithstanding doth not take off the Miracle; for that may be miraculously effected in one, which is naturally causable in another. Some naturally living unto an hundred; unto which age, others notwithstanding could not attain without a Miracle.

CHAP. XXII.

of the Oftridge.

The common opinion of the Oestridge, Strutbio-camelus or Sparrowaffirmacions of many, beside swarms of others, Rhodiginus in his presections taketh it for granted, Johannes Langius in his Epistles pleadeth experiment for it; the common Picture also confirmeth it, which usually describeth this Animal with an Horshoe in its mouth. Notwithstanding upon enquiry we find it very questionable, and the Negative seems most reasonably entertained, whose verity indeed we do the rather desire, because hereby we shall relieve our ignorance of one occult quality; for in the list thereof it is accounted, and in that notion imperiously obtunded upon us. For my own part, although I have had the sight of this Animal, I have not had the opportunity of its experiment, but have received great occasion of doubt, from learned discourses thereon.

For, Aristotle and Oppianus, who have particularly treated hereof are filent in this singularity; either omitting it as dubious, or, as the Comment saith, rejecting it as sabulous. Pliny speaketh generally, affirming only, the digestion is wonderful in this Animal; Elian delivereth, that it digesteth Stones, without any mention of Iron; Leo Africanus, who lived in those Countries wherein they most abound, speaketh diminutively, and but half way into this affertion; Surdum ac simplex Animal est; quicquid invenit, absque delection, usque ad so rum devorat: Fermelius in his second De abditis rerum causis, extenuates it, and Riclanus in his Comment thereof positively denies it. Some have experimentally resuted it, as Albertus Magnus; and most plainly Visses Aldrovandus, whose words are these; Ego serri strusta devorare, dum Tridentic (sem)

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effem, observavi; sed que incotta rursus excerneres, that is, At my being at Trent, I observed the Oestridge to swallow Iron, but yet to exclude it

undigested again.

Now befide Experiment, it is in vain to attempt against it by Philoso-How (post- phical argument, it being an occult quality, which contemns the Law bly) the flo. of Reason, and defends it self by admitting no reason at all. As for mack of the its possibility, we shall not at present dispute; nor will we affirm that Oeffridg may Iron ingested, receiveth in the stomack of the Oestridge no alteration at all; but if any fuch there be, we suspect this effect rather from some way of corrolion, than any of digestion; not any liquid reduction or tendence to chylification by the power of natural heat, but rather some attrit on from an acid and vitriolous humidity in the Stomach, which may absterse and shave the scorious parts thereof. So, rusty Iron, crammed down the throat of a Cock, will become terfe and clear again in its gizzard: So the Counter, which, according to the relation of Amatus, remained a whole year in the body of a youth, and came out much confumed at last; might suffer this diminution, rather from sharp and acid humours, than the strength of natural heat, as he supposeth. So Silver swallowed and retained some time in the body, wil turn black, as if it had been dipped in Aqua fortis, or some corrosive water; but Lead will remain unaltered, for that Metal containeth in it a fweet Salt or Sugar, whereby it relisteth ordinary corrolion, and will not easily disfolve even in Aqua fortis. So when, for Medical uses, we take down the filings of Iron or Steel, we must not conceive it passeth unaltered from us ; for, though the groffer parts be excluded again, yet are the dissoluble parts extracted, whereby it becomes effectual in de-oppilations; and therefore for speedier operation we make extinctions, insusions, and the like, whereby we extract the falt and active parts of the Medicine; which What the being in folution, more easily enter the Veins. And this is that the Chymifts mainly drive at in the attempt of their Aurum Potabile; that would have is, to reduce that indigestible substance into such a form as may not be rum Potabile, ejected by fiege, but enter the cavities, and less accessible parts of the

body, wi:hout corrolion. The ground of this Conceit is, its swallowing down fragments of Iron, which men observing, by a forward illation, have therefore conceived it digesteth them; which is an inference not to be admitted, as being a fallacy of the consequent, that is, concluding a position of the consequent, from the polition of the antecedent. For, many things are swallowed by Animals, rather for condiment, gust, or Medicament, than any substantial nutriment. So Poultrey, and especially the Turkey, do of themselves take down stones; and we have found at one time in the gizzard of a Turkey no less than seven hundred. Now these rather concurr unto digestion, than are themselves digested; for we have found them also in the guts and excrements; but their descent is very flow, for we have

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given them Stones and small pieces of Iron, which, eighteen daies after, we have found remaining in the Gizzard. And therefore the experiment of Langins, and others might be mistaken, whilst after the taking they expected it should come down within a day or two after. Thus How Cherryalso we swallow Cherry- fones, but void them unconcocted, and we usu- fones may be ally fay, they preserve us from surfeit; for being hard bodies, they con_ thought ceive a strong and durable heat in the stomack, and so prevent the cru- prevent surdities of their fruit : And upon the like reason do culinary operators eating Cherobserve, that flesh boils best, when the bones are boiled with it. Thus ries. Dogs will eat grass, which they d gest not; Thus Camels, to make the water fapid, do raife the Mud with their feet : Thus Horfes will knable at Walls, Piageons delight in falt Stones. Rats will knaw Iron, and Aristotle laith, the Elephant swalloweth Stones. And thus may also the Oestridge swallow iron; not as his proper aliment, but for the ends above expressed, and even as we observe the like in other Animals.

And whether these fragments of Iron and hard substances swallowed by the Oeffridge, have not also that use in their stomacks, which they have in other birds, that is, in some way to supply the use of teeth, by commolition, grinding and compression of their proper aliment, upon the action of the strongly conformed Museles of the Stomack, as

the honor'd Dr. Harvey discourleth; may also be considered.

What effect therefore may be expected from the Stomack of an Ocfridg by application alone to further digestion in ours, beside the experimental refute of Galen, we refer it unto confiderations above alledg. ed: Or whether there be any more credit, to be given unto the Medicine of Elian, who affirms, The Stones they swallow have a peculiar vertue for the eyes, than that of Hermolans and Pliny drawn from the Urine of this Animal; let them determine, who can swallow so frange a transmission of qualities, or believe that any Bird or flying Animal doth separately and distinctly Urine, beside the Bat.

That therefore an Oestridge will swallow and take down Iron, is easily to be granted: that often times they pass entire away, if we admit of ocular testimony, not to be denied. And though some experiment may also plead, that sometimes they are so altered, as not to be found, or excluded in any discernable parts: yet, whether this be not effected by fome way of corrosion, from sharp and dissolving humidicies, rather than any proper digestion; chylifactive mutation or alimental con-

version, is, with good reason, doubted.

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CHAP. XXIII.

of Unicorns-horn.

Reat account, and much profit, is made of Unicorns-born, at least of Ithat which beareth the name thereof; wherein notwithstanding, many I perceive suspect an Imposture, and some conceive there is no such Animal extant. Herein therefore to draw up our determinations; beside the several places of Scripture mentioning this Animal (which some may well contend to be only meant of the Rhinoceros) we are so far from denying there is any Unicorn at all, that we affirm there are many kinds thereof. In the number of Quadrupeds, we will concede no less than five; that is, the Indian-Oxe, the Indian-Ass, Rhinoceros, the Oryx, and that which is more eminently termed Monoceros or Unicornis. Some in the list of Fishes, as that in described by Olaus, Albertus, and others: and some Unicorns we will allow even among Insects; as those four Kinds of nascornous Beetles described by

some doubt to be made what DN7 fignifieth in Scripture.

> Adufferns. Secondly, Although we concede there be many Unicorns, yet are we ftill to feek; for whereunto to affix this Horn in question, or to determine from which thereof we receive this magnified Medicine, we have no affurance, or any satisfactory decision. For although we single out one, and eminently thereto ailign the name of the Unicorn; yet can we be secure what Creature is meant thereby; what constant shape it holdeth, or in what number to be received? For as far as our indeavours discover, this Animal is not uniformly described, but differently set forth, by those that undertake it. Pling affirmeth it is a fierce and terrible creature; Varromannus, a tame and manfuete Animal : those which Garcias ab Horto describeth, about the Cape of Good. Hope, were beheld with heads like Horses; those which Vartomannus beheld, he described with the head of a Deer; Pliny, Elian, Solinus, and after these from ocular assurance, Paulus Venetus affirmeth, the feet of the Unicorn are undivided, and like the Elephants : But those two which Vartomannus beheld at Mocha, were, as he describeth, footed like a Goat. As Ælian describeth, it is in the bigness of an Horse; as Vartomannus, of a Colt; that which Thevet speaks of, was not so big as an Heiser; but Panlus Venerus affirmeth, they are but little less than Elephants. Which are discriminations very material, and plainly declare, that under the same name, Authors describe not the same Animal; so that the Unicorns-horn of one, is not that of another, although we proclaim an equal vertue in all.

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menal.

Thirdly, Although we were agreed what Animal this was, or differed not in its description, yet would this also afford but little satisfaction; for the Horn we commonly extol, is not the same with that of the Ancients. For that in the discription of Elian and Pliny was black: this which is the wed amongh us, is commonly white, none black; and of those five which Scaliger beheld, though one spadiceous, or of a light Red, and two enclining

to Red, yet was there not any of this complexion among them.

Fourthly, What Horns foever they be which pass amongst us, they are " that of not furely the Horns of any one kind of Animal, but must proceed from several forts of Unicorns. For some are wreathe i, some not : That famous one which is preserved at St. Dennis near Paris, hath wreathy Spires, and that chocleary Turnings about it, which agreeth with the description of the Unicorns born in Elsan: Those two in the Treasure of St. Mark are plain, and best accord with those of the Indian-Als, or the description of other thetel, la Unicorns; Albertus Magnus describeth one ten foot long, and at the Base that is, the about thirteen inches compais: And that of Antwerp which Goropius Beminimum canus describeth, is not much inferiour unto it; which best agree unto the the both descriptions of Sea-Unicorns; for these, as Olaus affirmeth, are of that Arength and bigness, as able to penetrate the Ribs of ships. The same is delinedby more probable, in that it was brought from an Island, from whence, as Becanus affirmeth, three others were brought in his dayes. And we have heard detection of fome, which have been found by the Sea-fide, and brought unto us from emine from America. So that while we commend the Unicorns born, and conceive it peculiar but unto one Animal; under apprehension of the same vertue, we nitelligatif use very many; and commend that effect from all, which every one conhin (mute fineth unto some one he hath either feen or described)

Fifthly, although there be many Unicorns, and confequently many Horns, isnot un. yet many there are that bear that name, and currently pass among us, which heit. Play are no Horns at all. Such are those fragments, and pieces of Lapis Geramendant tites, commonly termed Cornu foffile, whereof Bacius had no less than twenthe Coped ty feveral forts presented him for Unicorns-torn. Hereof in subterraneous Variations Cavities, and under the earth, there are many to be found, in feveral places Salas, and of Germany; which are but the Lapidescencies and petrifactive mutations effect of the of bard bodies; fometime of Horn, of Teeth, of Bones, and Branches of Trees, whereof there are some so imperfectly converted, as to retain the Gal. As odor and qualities of their Originals; as he relateth of pieces of Ash and Walnut. Again, in most, if not all which pass amongst us, and are extolled for precious Horns, we discover not an affection common unto other Horns; Who that is, they mollifie not with fire, they foften not upo a decoction or infufion, nor will they afford a Gelly, or mucilaginous Concretion in either; which notwithstanding we may effect in Goats-horn, Sheeps, Cows, and

Harts-horn, in the horn of the Rhinoceros, the Horn of the Prifts or Sword-

fish. Nor do they become freable or easily pow erable by Puilofophical

Calcination, that is, from the vapour or threem of water, but split and rift Aa

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contrary to other Horns. Briefly, that which is commonly received, and whereof there be so many fragments preserved in England; is not only no Horn, but a substance harder than a bone; that is, the tooth of Unicorns - a Morfe or Sea-horfe: in the midit of the folider part containing a curd-Horn, com- led grain, which is not to be found in Ivory. This in Nonthern Regimonly used in ons is of frequent use for hafts of knives, or hilts of Swords, and being England, what burnt, becomes a good remedy for fluxes: but Antidotally used, and exposed for Vnicorns-horn, it is an insufferable delusion; and with more

veniable deceit, it might have been practifed in Harts-horn.

The like deceit may be practifed in the teeth of other Sea-animals; in the geth also of the Hippopotamus, or great Animal which frequenteth the River Nilus: For we read that the same was anciently used instead of Ivory or Elephants-touth. Nor is it to be omitted what hath been formerly suspected, but now confirmed by Olans Wormins, and Thomas Bartholinus, that those long horns preserved as precious rarities in many places, are but the teeth of Narh-Whales, to be found about Island, Greenland, and other Northern Regions; of many feet long, commonly wreathed, very deeply fastned in the upper jaw, and flanding directly forward, graphically described in Bartholinus, according unto one feat from a Bishop of Island, not seperated from the Crany. Hereof Mercator hath taken notice in his description of Island: fome relations hereof there feem to be in Purchas, who also delivereth, that the Horn at Winfor, was in his second voyage brought hither, by These before the Northern discoveries, as unknown rarities, were carried by Merchants into all parts of Euro;e, and though found on the Sea-shore, were fold at very high rates; but are now become more common, and probably in time will prove of little esteem; and the bargain of Julius the third, be accounted a very hard one, who fluck not to give many thousand crowns for one.

Nor is it great wonder, we may be so deceived in this, being daily gulled in the brother-Antidote Bezear: whereof though many be talle, yet one there passeth amongst us of more intolerable delusion; somewhat paler than the true stone, and given by women in the extremity of great difeases, which notwithstanding is no stone, but feems to be the stony feed of some Lithospermum or greater Gaumwel; or the Lobus Echinatus of Clusius, called also the Bezoar Nut; for being broken, it discovereth a kernel of a leguminous smell and taste, bitter like a Lupine, and will swell and sprout it fet in the ground, and therefore more

serviceable for iffues, than dangerous and virulent Difeafes.

Sixthly, although we were fatisfied we had the Unio rns-bo n, yet were it no injury unto reason to quettion the efficacy thereof, or whether those vertues pretended, do properly belong unto it. For what we ob-ferve, (and it escaped not the observation of Paulus fovius many years past) none of the Ancients ascribed any Medicinal or Antidotal vertue

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unto the Unicorns-horn; and that which Elian extolleth, who was the first and only man of the Ancients, who spake of the Medical vertue of any Vnicorn, was the horn of the Indian Afs; whereof, faith he, the Princes of those parts make bowls and drink therein, as preservatives against Poison, Convulsions, and the Falling-sickness. Now the description of that horn is not agreeable unto that we commend; for that (faith he) is red above, white below, and black in the middle; which is very different from ours, or any to be seen amongst us. And thus, though the description of the Unicorn be very ancient, yet was there of old no vertue ascribed unto it, and although this amongst us, receive the opinion of the same vertue, yet is it not the same horn, whereunto the Antients ascrib-

ed it. Lastly, although we allow it an Antidotal efficacy, and such as the Ancients commended, yet, are there some vertues ascribed thereto by Moderns not eafily to be received; and it hath furely faln out in this, as other magnified Medicines, whose operations effectual in some diseases, are presently extended unto all. That some Antidotal quality it may have, we have no reason to deny; for, fince Elks Hoofs and Horns, are magnified for Epilepfies, fince not only the bone in the heart, but the Horn of a Deer is Alexiphramacal, and ingredient into the confection of Expulsive of Hyacinth, and the Electuary of Maximilian; we cannot without pre-Poifons. judice except against the efficacy of this. But when we affirm, it is not only Antidotal to proper venoms, and substances destructive by qualities we cannot express; but that it relisteth also Sublimate, Arfenick, and poyfons which kill by fecond qualities, that is, by corofion of parts; I doubt we exceed the properties of its nature, and the promifes of experiment will not secure the adventure. And therefore in such extremities, whether there be not more probable relief from fat and oyly fubitances, which are the or entyrants over falt and corrolive bodies, then precious and cordial Medidines which operate by fecret and disputable proprieties; or whether he that swallowed Lyme, and drank down Mercury-water, did not more reasonably place his cure in milk, butter or oyl, then if he had recurred unto Pearl and Bezoar, common reason at all times, and necessity in the like cases would easily deter-

mine. Since therefore there be many Unicorns; fince that whereto we appropriate a Horn is so variously described, that it seemeth either never to have been feen by two perfons, or not to have been one Animal; Since though they agreed in the description of the Animal, yet is not the Horn we extol the same, with that of the Ancients; Since what Horns foever they be that pals among us, they are not the Horns of one, but feveral Animals: Since many in common use and high esteem are no Horns at all : Since if there were true Horns, yet might their vertues be questioned: Since though we allowed some vertues, yet were

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not others to be received; with what security may a man rely on this remedy, the mistress of fools hath already instructed some, and to wisdome (which is never too wife to learn) it is not too late to consider.

CHAP. XXIV.

That all Animals of the Land, are in their kind in the Sea.

That all Animals of the Land, are in their kind in the Sea, although received as a principle, is a tenent very questionable, and will admit of restraint. For, some in the Sea are not to be matcht by any enquiry at Land, and hold those snapes, which terrestrious forms approach not; as may be observed in the Moon-sish, or Orthragoriscus, the several forts of Raia's, Torpedo's, Orsters, and many more; and some there are in the Land, which were never maintained to be in the Sea, as Panthers, Hyana's Camels, Sheep, Moles, and others, which carry no name in Ithyology, nor are to be found in the exact descriptions of Rondeleti-

us, Gesner, or Aldrovandus.

Again, Though many there be which make out their nominations, as the Hedg-kog, Sea-ferpents, and others; yet are there also very many that bear the name of Animals at Land, which hold no resemblance in corporal configuration; in which account we compute Vilpecula, Canis, Rana, Paffer, Cuculus, Afellus, Tardus, Lipus, &c. Wherein, while some are called the Fox, the Dog, the Sparrow, or Frog-fift, and are known by common names with those at Land; as their describers attest, they receive not these appellations from a total similitude in figure, but any concurrence in common accidents, in colour, condition, or any fingle conformation. As for Sea-horfes, which much confirm this affertion; in their common descriptions, they are but Crotescoventions, which fill up empty spaces in Maps, and meer pictoreal inventions, not any Physical shapes; sutable unto those which (as Pliny delivereth) Praxiteles long ago fet out in the Temple of Domitius. For that which is commonly called a Sea-Horfe, is properly called a Morfe, and makes not out that shape. That which the Antients named Hippocampus is a little Animal about fix inches long, and not preferred beyond the classis of Infects. That which they termed Hippopotamus, an amphibeous Animal, about the River Nile, so little resembleth an Horse, that as Mathiolas observeth, in all, except the feet, it better makes out a Swine. That which they termed a Lyon, was but a kind of Lobster: and that they called the Bear, was but one kind of Crab: and that which they named

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Bosmarinus, was not as we conceive, a fish resembling an Oxe, but a Skaite or Thornback, so named from its bigness, expressed by the Greek word Bons, which is a prefix of augmentation to many words in that

Language. And therefore, although it be not denied, that some in the water do carry a justifiable resemblance to some at Land; yet are the major part which bear their Names unlike; nor do they otherwise resemble the Creatures on Earth, then they on Earth the Constellations which pass under Animal names in Heaven: nor the Dog-fish at Sea much more make out the Dog of the Land, then that his Cognominal or name-fake in the Heavens. Now if from a similitude in some, it be reasonable to infer a correspondency in all, we may draw this analogy of Animals upon plants; for Vegetables there are which carry a near and allowable similitude unto Animals. We might also conclude, that Animal shapes Fab. Columna

were generally made out in Minerals : for, several Stones there are that de firp. rarios bear their names in relation to Animals or their parts, as Lapis angui- ribus, orthis, nus, Conchites, Echinites, Encephalites, Egopthalmus, and many more ; phora. Anthron as will appear in the Writers of Mimerals, and especially in Batims, and pophera.

Aldrovandus.

Moreover if we concede, that the Animals of one Element, might bear the names of those in the other, yet in first reason, the watery productions should have the prenomination : and they of the land rather derive their names, then nominate those of the Sea. For the watery Plantations were first existent, and as they enjoyed a priority in form, had also in nature precedent denominations : but falling not under that Nomenclature of Adam, which unto terrestrious Animals assigned a name appropriate unto their natures; from fucceeding spectators they received arbitrary appellations, and were respectively denominated unto creatures known at Land, who in themselves had independent names, and not to be called after them, which were created before them,

Lastly, By this affertion we restrain the hand of God, and abridg the variety of the Creation; making the Creatures of one Element, but an acting over those of another, and conjoyning as it were the species of things which flood at distance in the intellect of God; and though united in the Chaos, had feveral feeds of their Creation. For, although in that indistinguisht Mass, all things seemed one, yet seperated by the voice of God, according to their species, they came out in incommunicated varieties, and irrelative feminalties, as well as divided places; and fo although we fay the world was made in fix daies, yet was there as it were a World in every one; that is, a diltinct Creation of distinguisht Creatures; a diftinction in time of creatures divided in nature, and a feveral approbation and furvey in every one.

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CHAP. XXV.

Concerning the common course of Diet, in making choice of some Animals, and abstaining from eating others.

Why we confine our food unto certain Animals, and totally reject fome others; how these distinctions crept into several Nations; and whether this practice be built upon solid reason, or chief-

ly supported by custom or opinion, may admit consideration.

For first, there is no absolute necessity to feed on any; and if we refist not the stream of Authority, and several deductions from Holy
Scripture, there was no Sarcophagie before the Flood; and without the
eating of slesh, our fathers from vegitable aliments, preserved themselves unto longer lives, than their posterity by any other. For, where-

Eating of flesh as it is plainly said, I have given you every Herb, which is upon the face of Gen. 1. 29. all the Earth, and every Tree, to you it shall be for meat; presently after The natural the Deluge, when the same had destroyed or infermed the Nature of vertue of Verentles, by an expression of enlargement, it is again delivered: Everetables impaired by the ry moving thing that liveth, shall be meat for you, even as the green Herb, Deluge. beve I given you all things.

And therefore although it be faid, that Abel was a Shepherd, and it be not readily conceived, the first men would keep Sheep, except they made food thereof; great Expositors will tell us, that it was partly for their skins, wherewith they were cloathed, partly for their milk, whereby they were sustained, and partly for Sacrifices, which they also offered.

And though it may seem improbable, that they offered sesh, yet eat not thereof; and Abel can hardly be said to offer the Firstlings of his Flock, and the sat or acceptable part, if men used not to tast the same, whereby to raise such distinctions: some will confine the eating of slesh unto the Line of Cain, who extended their luxury, and confined not unto the rule of God. That is at any time the Line of Seth eat slesh, it was extraordinary, and only at their Sacrifices; or else (as Grotius hinteth) if any such practice there were, it was not from the beginning, but from that time when the waies of men were corrupted, and whereof it slesh probation of is said, that the wickedness of mans heart was great; the more righteous bly) not so part of mankind probably conforming unto the diet prescribed in Pacommon be radise, and the state of Innocency. And yet however the practice of sore the slood men conformed, this was the injunction of God, and might be therefore

fufficient, without the food of flesh.

That they fed not on flesh, at least the faithful party before the flood, may become more probable, because they refrained the same for some time after. For so it is generally delivered of the Golden Age and reign of Saturn; which is conceived the time of Noah, before the build-

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And he that confidereth how agreeable this is unto the ing of Babel. tradition of the Gentiles; that that age was of one tongue : that Saturn devoured all his Sons but three; that he was the Son of Oceanus and Thefis; that a Ship was his Symbole, that he taught the culture of Vineyards, and the art of husbandry, and was therefore described with a Sickle; may well conceive, these traditions had their original in Noah. Nor did this practice terminate in him, but was continued at least in many after; as (beside the Pythagoreans of old, and Bannyans now in India, who upon fingle Opinions refrain the food of flesh) ancient Records do hint, or plainly deliver. Although we descend not so low, as that of Esclepiades delivered by Porphyrius, that men began to feed on mepi anoxis. flesh in the reign of Pygmaleon brother of Dido, who invented several

torments, to punish the eaters of flesh.

Nor did men only refrain from the flesh of beasts at first, but as some will have it, beafts from one another. And if we should believe very grave conjectures, carnivorous Animals now, were not flesh-devourers then, according to the expression of the Divine provision for them. To Gen 1. 30. every Beast of the Earth, and to every Fowl of the Ayr, I have given every green Herb for meat, and it was so. As is also collected from the store laid up in the Ark; wherein there seems to have been no sleshy provision for carnivorous Animals. For of every kind of unclean beaft there went but two into the Ark; and therefore no stock of flesh to sustain them

many dayes, much less almost a year.

But when ever it be acknowledged, that men began to feed on flesh, yet how they betook themselves after to particular kinds thereof, with rejection of many others, is a point not clearly determined. As for the distinction of clean and unclean beasts, the Original is obscure, and salveth not our practice. For no Animal is naturally unclean, or hath this How Mofes Character in Nature; and therefore whether in this distinction there might distinwere not some Mystical intention; whether Moses after the distinction guish Beasts made of unclean heasts, did not name these so before the Flood by an made of unclean beafts, did not name these so before the Flood by an-unclean beticipation : Whether this diffinction before the Flood, were not only in fore the flood. regard of Sacrifices, as that delivered after, was in regard of food: (for many were clean for food, which were unclean for Sacrifice) or whether the denomination were but comparative, and of bealts less commodious for food, although not simply bad, is not yet resolved.

And as for the same distinction in the time of Moses, long after the Flood, from thence we hold no restriction, as being no rule unto Nations besides the fews in dietetical consideration, or natural choice of diet, they being enjoyned or prohibited certain foods upon remote and fecret intentions Especially thereby to avoid community with the Gen- . tiles upon promiscuous commensality; or to divert them from the Idolatry of Egypt whence they came, they were enjoyeed to eat the Gods of Egypt in the food of Sheep and Oxen. Withal, in this diffinction of

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Animals, the confideration was Hieroglyphical; in the bosom and inward fente implying an abstinence from certain vices symbolically intimated from the nature of those Animals; as may be well made out

in the prohibited meat of Swine, Cony, Oyl, and many more.

At least the intention was not Medical, or such as might oblige unto conformity, or imitation; For, some we refrain which that Law alloweth, as Locusts and many others; and some it prohibiteth, which are accounted good meat in strict and Medical censure: as beside many fishes which have not fins and scales, the Swine, Coney, and Hare, a dainty dish' with the Ancients; as is delivered by Galen, teltified by Martial, as the popular opinion implyed; that men grew fair by the flesh thereof: by mattya the diet of Cato, that is Hare and Cabbage; and the fus nigrum, or Black-broath of the Startans, which was made with the blood and bowels of an Hare.

Inter quadres . prima Lepus.

> And if we take a view of other Nations, we shall discover that they refrained many meats, upon like considerations. For, in some the abstinence was symbolical; so Pythagoras enjoyned abstinence from F fb, that is, luxurious and dainty diffies : So according to Herodetus, fome Egyptians refrained Swines-flesh, as an impure and fordid Animal:

which whoever but touched, was fain to wash himself.

Some abstained superstitiously or upon religious consideration : So the Syrians refrained Fish and Pigeons; the Egyptians of old, Dogs, Ee's, and Crocodiles; though Leo Africanus delivers, that many of late, do eat them with good guft : and Herodotus also affirmeth, that the Egyptians of Elephantina (unto whom they were not facred) did eat thereof in elder times : and Writers testifie, that they are eaten at this day in India and America. And so, as Cefar reports, unto the ancient

Lib. 5. de. belle Britans it was piaculous to tastea Goofe, which dish at present no table is Gall.

without.

Unto some Nations the abstinence was political, and for some civil advantage : So the Th falians refrained Storks, because they destroyed their Serpents; and the like in fundry Animals is observable in other

And under all these considerations were some Animals refrained : so the Jews abstained from Swine at first symbolically, as an Embleme of impurity; and not for fear of the Leprosie, as Tacitus would put upon them. The Cretians superstitiously, upon tradition that Jupiter was suckled in that Country by a Sow. Some Egyptians politically, because they supplyed the labour of plowing by rooting up the ground, And upon like considerations, perhaps, the Phenicians and Syrians fed not on this Animal; and as Solinus reports, the Arabians also and Indians. A great part of mankind refraining one of the best foods, and such as Py hagoras, himself would eat; who, as Aristoxinus records, refused not

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Moreover, while we fingle out feveral diffies and reject others, the felection feems but arbitrary, or upon opinion; for many are commended and cryed up in one age, which are decried and nauseated in another. Thus in the daies of Mecanas, no flesh was preferred before Ce tain dishes young Affer; which notwithstanding became abominable unto succeed-in great reing appetites. At the Table of Heliogabalus, the Combs of Cocks were quest with an eleemed fervice; which Country-flomacks will not admit at ours, not fo much The Sumen, or belly and dugs of Swine with Pig, and sometimes beaten effected now and bruifed unto death; the Womb of the same Animal, especially that was barren, or elfe had cast her young ones, though a tough and membranous part, was magnified by Roman Palates; whereunto nevertheless, we cannot persivade our stomacks. How Alec, Muria, and Garum, would humour our guft, I know not; but furely few there are that could delight in their Gyceon, that is, the common draught of Hony, Cheefe, parche Barly flower, Oyl and Wine; which notwithstanding was a commended mixture, and in high effeem among them. We mortifie our felves with the diet of Fish, and think we fare coarsly, if we refrain from the flesh of other Animals. But antiquity held another opinion hereof: when Pythagoras in prevention of luxury advised, not so much as to tast on Fish. Since, the Rhodians were wont to call them Clowns that eat Flesh; and fince, Plato, to evidence the temperance of the noble Greeks before Troy, observed, that it was not found they fed on Fife, though they lay so long near the Hellespont, and was only observed in the companions of Menelaus, that, being almost starved, they betook themselves to Fishing about Pharos.

Nor will, I fear, the attest or prescript of Philosophers, and Physicians, be a fufficient ground to confirm or warrant common practice, as is deducible from ancient Writers, from Hippocrates, Galen, Simeon, Sethi: and the late Tracts of Nonnus, and Cast llanus. So Aristotle and Al- Non dere ciberius commend the flesh of young Hawks: Galen, the flesh of Foxes baria. about Antumn, when they feed on Grapes; but condemneth Quails, Cast. de efe and ranketh Geefe but with Oestriges : which notwithstanding, present carnium. practice and every table extolleth. Men think they have fared hard y, lib. 3. if in times of extremity they have descended so low as Dogs : but Ga-Gal. Simpl. fac len delivereth, that young, fat, and gelded, they were the food of ma, lib. 3. ny Nations; and Hipportates ranketh the flesh of Whelps with that of Hip. as morbis Birds: who also commends them against the Spleen, and to promote de superfit. conception. The opinion in Galens time, which Pliny also followeth, deeply condemned Horfe-flesh, and conceived the very blood thereof destructive; but no diet is more common among the Tartars, who also drink their blood. And though this may feem an adventure of Northernitomacks, yet, as Herodotus tells us, in the hotter clime of Persia, the same was a convival diff, and folemnly eaten at the feast of their Nativities : whereat, they dressed whole Horses, Camels, and Asses; contemning the

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poverty of Grecian feasts, as unfurnished of dishes sufficient to fill the bellies of their Guests.

Again, while we confine our diet in several places, all things almost are eaten, if we take-in the whole Earth: for that which is resused in one Countrey, is accepted in another; and in the collective judgment of the World, particular distinctions are overthrown. Thus were it not hard to shew, that Tygirs, Elephants, Camels, Mice, Bass, and others, are the sood of several Countries; and Lerins with others delivers, that some Americans eat of all kinds, not refraining Toads, and Serpents: and some have run so high, as not to spare the Flesh of Man: a practice inexcusable, nor to be drawn into example; a diet beyond the rule and largest indulgence of God.

As for the objection against Beasts and Birds of prey, it acquitteth not our practice, who observe not this distinction in Fishes; nor regard the same in our diet of Pikes, Perches, and Eels; nor are we excused herein, if we examine the stomacks of Mackerels, Cods, and Whitings. Nor is the soulness of feed sufficient to justifie our choice; for (beside that their natural heat is able to convert the same into laudable aliment) we result not many whose diet is more impure than some which we reject:

as may be confidered in Hogs, Ducks, Puets, and many more.

Thus we perceive the practice of diet doth hold no certain course, nor solid rule of selection, or confinement; some in an indistinct voracity eating almost any, others out of a timerous pre-opinion refraining very many. Wherein indeed necessity, reason, and Physick, are the best determinators. Surely many Animals may be fed on, like many Plants, though not in alimental, yet medical considerations: Whereas, having raised Antipathies by prejudgment or education, we often nauseate proper meats, and abhor that diet which disease or temper requirest.

A Problem.

Now whether it were not best to conform unto the simple diet of our fore-Fathers, whether pure and simple waters, were not more healthful than fermented liquors; whether there be not an ample sufficiency without all sless, in the food of honey, oyl and the several parts of milk; in the varieties of grains, pulses, and all forts of fruits; since either bread or beverage may be made almost of all? Whether Nations have rightly confined unto several meats? Or whether the common food of one Countrey be not more agreeable unto another? How indistinctly all tempers apply unto the same, and how the diet of youth and old age is consounded: were considerations much concerning health, and might prolong our daies, but must not this discourse.

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CHAP. XXVI.

some refemblance or trace her pof there thems to be in the of Sperma-Ceti, and the Sperma-Ceti Whale. Mad Orl, mas from the base of right Archard

7 Hat Sperma-Ceti is, men might justly doubt, fince the learned De medica-Hofmannus in his work of Thirty years, faith plainly, Nefcio mentis officina quid fir. And therefore need not wonder at the variety of opinions ; while some conceived it to be flos maris, and many, a bituminous substance floating upon the Sea, hard brighten bure

That it was not the spawn of the Whale, according to vulgar conceit, or nominal appellation, Philosophers have alwaies doubted; not easily conceiving the feminal humour of Animals, should be inflamable; or of

a floating Nature. That it proceedeth from the Whale, beside the relation of Clusius and other learned observers, was indubitably determined, not many years fince by a Sperma-Ceti Whale, cast on our Coast of Norfolk. Which, to lead on further enquiry, we cannot omit to inform. It contained no lefs than Sixty foot in length, the head somewhat peculiar, with a large prominency over the mouth; teeth only in the lower jaw, received into fleshy fockets in the upper. The weight of the largest, about two pound: No griffly fubfiances in the mouth, commonly called Whale-bones; only two fhort fins feated forwardly on the back; the eyes but fmall, the Pizel large, and prominent. A leffer Whale of this kind about twenty years ago was cast up on the same shore.

The description of this whale feems omitted by Gesner, Rondeletius, and the first Editions of Aldrovandus, but described in the Latin impression of Pareus, in the Exoticks of Clusius, and the natural History of Nirembergius; but more amply in the Icons and Figures of Johnsto-

Mariners (who are not the best Nomenclators) called it a Jubartas, or rather Gibbarras. Of the same appellation we meet with one in Rondeletius, called by the French Gibbar, from its round and gibbous back. The name Gibbarta we find also given unto one kind of Greenland Whales : But this of ours feemed not to answer the Whale of that denomination; but more agreeable unto the Trumpa or Sperma-Ceti Whale: according unto the account of our Greenland describers in Parchas. And maketh the third among the eight remarkable Whales of that carge composare of the head, and hisloric or she is about to

Out of the Head of this Whale, having been dead divers daies, and under putrifaction, flowed streams of Oyl, and Sperma-Ceri; which was carefully taken up and preferved by the Coasters. But, upon breaking up, the Magazin of Sperma-Ceri, was found in the head lying in foulds and couries,

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courses in the bigness of Goose eggs, encompassed with large flaky substances, as large as a mans head, in form of hony-combs, very white

and full of Oyl.

couries

Some resemblance or trace hereof there seems to be in the Phy fiter or Capidelio of Rondeletins, while he delivers, that a fatnels more liquid than Oyl, runs from the brain of that Animal; which being out, the Reliques are like the Scales of Sarainos preffed into a Mass, which melting with heat, are again concreted by cold. And this many conceive to have been the Fift which swallowed Jonas. Although for the largeness of the mouth, and frequency in these Seas, may possibly be the Lamia.

Some part of the Sperma-Ceti found on the thore was pure, and needed little depuration; a great part mixed with foetid Oyl, needing good preparation, and frequent expression, to bring it to a flaky consistency. And not only the head, but other parts contained in it. For the carnous parts being roafted, the Oyl dropped out, an axungeous and thicker part subsiding; the Oylit self contained also much in it, and still after ma-

ny years fome is obtained from it. and chair extra

Greenland-Enquirers seldom meet with a whale of this kind : and therefore it is but a contingent commodity, not reparable from any other. It flameth white and candent like Champhire, but diffolveth not in Aqua fortis, like it. Some lumps containing about two ounces, kept ever fince in water, afford a fresh, and flosculous smell. Well prepared and separated from the Oyl, it is of a substance unlikely to decay, and may

out-last the Oyl required in the composition of Matthio'us.

Of the large quantity of Oyl, what first came forth by expression from the Sperma-Ceti, grew very white and clear, like that of Almonds or Ben; what came by decoction, was red. It was found to spend much in the Vessels which contained it : It freezeth or coagulateth quickly with cold, and the newer foonest. It feems different from the Oyl of any other Animal, and very much frustrated the expectation of our Seap-boilers, as not incorporating or mingling with their lyes. But it mixeth well with painting colours, though hardly drieth at all. Combers of Wooll made use hereof, and Countrey-people for Cuts, Aches, and hard Tumours. It may prove of good Medical ule, and serve for a ground in compounded Oyls and Balsoms. Distilled, it affords a strong Oyl, with a quick and piercing Water. Upon Evaporation it gives a Balfom, which is better performed with Turpentine distilled with Sperma-

Had the abominable fcent permitted enquiry had been made into that strange composure of the head, and hillock of slesh about it. Since, the workman affirmed, they met with perma-Ceti before they came to the bone, and the head yet preferved, cems to confirm the same. The Sphinsters inferving unto the Fiftula or Spout, might have been examined, fince they are so notably contrived in other cetaceous Animals, as ge Butt Per Per

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also the Larynx or Throttle, whether answerable unto that of Dolphins and P rpofes, in the strange composure and figure which it maketh; What figure the flomack maintained in this Animal of one jaw of teeth, fince in Porpofes which abound in both, the venticle is trebly divided, and fince in that formerly taken nothing was found but weeds and a Loligo. The heart, lungs, and kidneys, had not escaped; wherein are remarkable differences from Animals of the Land, likewife what humour the bladder contained, but especially the seminal parts, which might have determined the difference of that humour, from this which beareth its

In vain it was to rake for Ambergreece in the panch of this Levia bin, as Greenland-discoverers, and attests of experience dictate, that they sometimes swallow great lumps thereof in the Sea; insufferable fector denying that enquiry. And yet if, as Paracelfus encourageth, Ordure makes the best Musk, and from the most fætid substances may be drawn the most odoriferous Essences; all that had not Vespasians Nose, might odor luci ex boldly swear, here was a subject fit for such extractions, re qualiber.

Cui dulcis

CHAP. XXVII.

Compendiously treating of Sundry Tenents concerning other Animals, which examined, prove either false or dubious.

ND first from great Antiquity, and before the Melody of Syrens, I the Musical note of Swans hath been commended, and that they fing most sweetly before their death. For thus we read in Plato, that, from the opinion of Metempsuchosis, or transmigration of the Souls of Men into the bodies of Beafts most suitable unto their human condition, after his Death, Orphius the Musitian became a Swan. Thus was it the bird of Apollo the god of Musick by the Greeks, and an Hieroglyphick of Musick among the Egyptians, from whom the Greeks derived the conception; hath been the affirmation of many Latines, and bath not wanted affertors almost from every Nation.

All which notwithstanding, we find this relation doubtfully received by Elian, as an hear-fay accounted by Bellonius, as a falle one by Pliny, expressy refuted by Myndius in Athenaus, and severely rejected by & heir sing-Scaliger; whose words unto Cardan are these. De Cygni vero cantu sua- ing before vissimo quem cum parente mendaciorum Gracia jactare ausus es, ad Luciani death. tribunal, apud quem novi aliquid dicas, statue. Authors also that countenance it, speak not fatisfactorily of it. Some affirming, they fing not till they die, fome that they fing, yet die nor. Some speak generally,

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The figura- as though this note were in all ; fome but particularly, as though it were tion to be only in fome; fome in places remote, and where we can have no tryal found in Elles of it; others in places where every experience can refute it; as Aldrovandus upon relation, delivered, concerning the Mulick of the Swan. common Swans.

on the river of Thames near London.

Now that which countenanceth, and probably confirmeth this opinion. is the strange and unusual conformation of the wind pipe, or vocal Organ in this Animal : observed first by Aldrovandus, and conceived by fome contrived for this intention. For in its length it far exceedeth the Gullet; and hath in the chest a sinuous revolution, that is, when it arifeth from the Lungs, it afcendeth out directly unto the Throat, but defeending first into a capsulary reception of the breast bone; by a Serpentine and Trumpet recurvation it ascendeth again into the Neck; and To by length thereof a great quantity of Air is received; and by the figure thereof a Musical modulation effected. But to speak indifferently, this formation of the Weazon, is not peculiar unto the Swan, but common also unto the Placea or Shovelard, a bird of no musical Throat; And, as Aldrovandus confesseth, may thus be contrived in the Swan to contain a larger flock of Ayr, whereby being to feed on weeds at the bottom, they might the longer space detain their heads under water. But were this formation peculiar, or had they unto this effect an advantage from this part: yet have they a known and open disadvantage from another; that is, a flat bill. For no Lati-rostrous Animal (whereof nevertheless there are no slender numbers) were ever commended for their note, or accounted among those Animals which have been instructed to fpeak.

When therefore we consider the diffention of Authors, the falsity of relations, the indisposition of the Organs, and the immusical note of all we ever beheld or heard of; if generally taken and comprehending all Swans, or of all places, we cannot affent thereto. Surely he that is bit with a Tarantula, shall never be cured by this Musick; and with the same

hopes we expect to hear the harmony of the Spheres.

cock

Of the Pea. 2. That there is a special propriety in the flesh of Peacocks, roals or boiled, to preferve a long time incorrupted, hath been the affertion of many; stands yet confirmed by Austin, De Civitate Dei; by Gygas Sempronius, in Aldrovandus; and the same experiment we can confirm our felves, in the brawn or fleshy parts of Peacocks so hanged up with thred, that they touch no place whereby to contract a moisture: and hereof we have made tryal both in Summer and Winter. The reason, fome, I perceive, attempt to make out from the ficcity and drynels of its flesh, and some are content to rest in the secret propriety thereof. As for the liccity of the flesh, it is more remarkable in other Animals, as Engles, Hawks, and Birds of prey; That it is a propriety or agreeable to mone other, we cannot with reason admit ; for the same preservation, or

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rather incorruption we have observed in the flesh of Turkeys, Capons, Hares, Partridge, Venison, suspended freely in the Ayr, and after a year and a half, Dogs have not refused to eat them.

As for the other conceit, that a Peacock is ashamed when he looks on his Legs, as is commonly held, and also delivered by Cardan; beside what hath been faid against it by Scaliger; let them believe that hold special deformities; or that any part can seem unhandsome to their eyes, which hath appeared good and beautiful unto their Maker. The occasion of this conceit, might first arise from a common observation, that when they are in their pride, that is, advance their Train, if they decline their neck to the ground, they presently demit, and let fall the same : which indeed they cannot otherwise do ; for contracting their body, and being forced to draw in their fore-parts to establish the hinder in the Elevation of the Train; if the fore-parts depart and incline to the ground, the hinder grow too weak, and fuffer the same to fall,

And the same in some degree is also observable in Tarkeys.

3. That Stocks are to be found, and will only live in Republicks or Of the Stock. free States, is a pretty conceit to advance the opinion of popular policies, and from Antipathies in Nature, to disparage Monarchial Government. But how far agreeable unto truth, let them confider who read in Pliny, that among the Theffalians, who were governed by Kings, and much abounded with Sergents; it was no less than Capital to kill a Stork. That the ancient Agyptians honoured them, whose Government was from all times Monarchical. That Bellonius affirmeth, Men make them. Nests in France. That relations make them common in Persia, and the dominions of the Great Turk. And Lastly, how feremy the Prophet delivered himself unto his Country-men, whose Government was at that time Monarch cal. The Stork in Heaven knoweth her appointed times, Jer. 8, 70 the Turtle, Crane and Swallow observe the time of their coming, but my People know not the judgment of the Lord. Wherein to exprobrate their ftupidity, he induces the Providence of Sto ks. Now if the Bird had been unknown, the illustration had been obscure, and the exprobration not so

4. That a Bittor maketh that mutigent noise, or as we term it bump- Of the Bittor . ing, by putting its bill into a Reed as most believe, or as Bellonius and Aldrevanius conceive, by putting the fame in water or mud, and after a while retaining the Ayr, they fuddenly excluding it again, is not fo eafily made out. For my own part, though a ter diligent enquiry, I could never behold them in this motion; Notwithstanding by others, whose observations we have exprestly requested, we are informed, that some have beheld them making this noise on the shore, their bills being far enough removed from Reed or Water; that is, first strongly attracting the Ayr, and unto a manifest distention of the Neck, and presently after with great contention and violence excluding the same again. As

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for what others affirm of putting their bill in water or mud, it is also hard to make out. For what may be observed from any that walketh the Fins, there is little intermission, nor any observable pawse, between the drawing in and sending forth of their breath. And the expiration or breathing forth doth not only produce a noise, but the inspiration or haling in of the Ayr, affordeth a found that may be heard almost a

A ght-fhot.

Now the reason of this strange and peculiar noise, is deduced from the conformation of the wind-pipe, which in this Bird is different from other volatils. For at the upper extream it hath no fit Larynx, or Throttle, to qualifie the sound; and at the other end, by two branches deriveth it sels into the Lungs. Which division consisteth only of Semicircular fibers, and such as attain but half way round the part; by which formation they are dilatable into larger capacities, and are able to contain a fuller proportion of Air; which being with violence sent up the Weazon, and finding no resistance by the Larynx, it issues forth in a found like that from Caverns, and such as sometimes subterraneous eruptions from hollow Rocks afford. As Aristotle observeth in a Problem, and is observable in Pitchers, Bottles, and that Instrument which Aponensis upon that Problem describeth, wherewith in Aristotles time Gardners affrighted Birds.

Whether the large perforations of the extremities of the Weazon, in the abdomen, admitting large quantity of Ayr within the cavity of its membrans, as it doth in Frogs: may not much affift this mugiency or boation, may also be considered. For such as have beheld them making this noise out of the water, observe a large differtion in their bodies,

and their ordinary note is but like that of a Raven.

Of whelps.

Sest. 15.

5 That Whelps are blind nine daies, and then begin to fee, is the common opinion of all, and fome will be apt enough to descend unto Oaths. upon it. But this I find not answerable unto experience; for upon a strict observation of many, I have scarce found any that see the ninth day, few before the twelfth, and the eyes of some not open before the fourteenth day. And this is agreeable unto the determination of Ariffotle: who computeth the time of their anophe, or non-vision by that of their gestation. For, some, saith he, do go with their young the fixth part of a year, two daies over or under that is, about fixty daies or nine weeks: and the Whelps of these see not till twelve daies. Some go the fifth part of a year, that is, seventy one daies, and these, saith he, see not before the fourteenth day. Others do go the fourth part of a year, that is, three whole months, and these, faith he, are without fight no less than seventeen dayes. Wherein although the accounts be different, yet doth the least thereof exceed the term of nine daies, which is so generally received. And this compute of Ariffetle doth generally overthrow the common cause alledged for this effect, that is, a precipitation or over-hasty exclusion K III

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GTCTendate. Exclusion, before the Birth be perfect, according unto the vulgar Adage, Pestinans canis cacos parit catulos: for herein the Whelps of longest Gestaion, are also the latest in vision. The manner hereof is this. At the first littering, their Eyes are faltly closed, that is, by coalition or joining together if the eye-lids, and so continue, until about the twelfth day; at which ime they begin to separate, and may be easily divelled or parted asunder; hey open at the inward Canthis or greater Angle of the eye, and so by detrees dilate themselves quite open. An effect very it range, and the causes f much obscurity, wherein as yet mens Enquiries are Blind, and satisfactionequirable from no man. Whatever it be, thus much we may observe, those Animals are only excluded without Sight, which are multiparous and multiidous, that is, which have many at a Litter, and have also their feet divided nto many portions. For the Swine, although multiparous, yet being bifulous, and only cloven hoofed, is not excluded in this manner, but Farrowed vith open eyes, as other bifulcous Animals.

6. The Antipathy between a Toad and a Spider, and that they poilonously leftroy each other, is very famous, and solemn flories have been written of Of a Toad heir Combats; wherein most commonly the victory is given unto the Spi-and a Spider.

ler. Of what Toads and Spiders it is to be understood, would be considered. for the Phalangium and deadly Spiders, are different from thole we generaly behold in England. However the Verity hereof, as also of many others, recannot but defire; for hereby we might furely be provided of proper Anidotes in cases which require them; but what we have observed herein, we cannot in reason conceal; who having in a Glass included a Toad, with seveeral Spiders; we beheld the Spiders without refistance to fit upon his head ind pals over all his body, which at last, upon advantage he swallowed down, nd that in few houres, unto the number of feven. And in the like maner will Toads also serve Bees, and are accounted Enimies unto their

lives. 7. Whether a Lion be also afraid of a Cock, as is related by many, and Of a Lyon & believed by most, were very easie in some places to make trial. Although a Cock. low far they stand in fear of that Animal, we may sufficiently understand, rom what is delivered by Camerarius, whose words in his Symbols are hese: Nostris temporibus in Aula serenissimi Principis Bavaria, unus ex Leonibus miris saltibus in vicinam cujus dam domus aream sese demisit, ubi Gallinaceorum cantum aut clamores nibil reformidans, ipsos una cum plurimis vallings devoravit; that is, In our time in the Court of the Prince of Bavaria, one of the Lions leaped down into a Neighbours yard, where, nothing egarding the crowing or noise of the Cocks, he eat them up with many other Hens. And therefore a very unfafe defensative it is against the fury of this Animal (and furely no better then Virginity or Blood-royal) which Pliny doth place in Cock-broth : For herewith, faith he, whoever is anoint De facei cis ed (especially if Garlick be boiled therein) no Lion or Panther will touch & magia. aim. But of an higher Nature it were, and more exalted Antipathy, if that

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were certain which Proclus delivers, that folary Damons, and fuch as appear in the shape of Lions, will disappear and vanish, if a Cock be presented

upon them.

8. It is generally conceived, an Earwig hath no Wings, and is reckoned amongst impennous insects by many; but he that shall narrowly observe them, or shall with a needle put aside the short and sheathy cases on their Back, may extend or draw forth two Wings of a proportionable length for slight, and larger than in many Flies. The Experiment of Pennius is yet more perfect, who with a Rush or Brissle so pricked them as to make them slie.

Of Wormes.

9. That Worms are exsangueous Animals, and such as have no Blood at all is the determination of Philosophy, the general Opinion of Scholars, and Iknow not well to distent from thence my self. If so, surely we want a proper term whereby to express that humour in them, which so strictly resembleth Blood: and we referr it unto the discernment of others what to determine of that red and sanguineous humour, sound more plentifully about the Torquis or carneous circle of great Worms in the Spring, affording in linnen or paper an indiscernable tincture from Blood. Or wherein that different from a Vein, which in an apparent Blew runneth along the body, and if dexterously pricked with a Lancet, emitteth a red drop, which pricked on either side it will not readily afford.

In the upper Parts of Worms, there are likewise found certain white and oval glandulosities, which Authors term Egges, and in magnifying Glasses they also represent them; how properly, may also be enquired, fince if in them, there be distinction of Sexes, these Eggs are to be found in both. For in that which is presumed to be their coition, that is, their usual Complication or lateral Adhesion above the Ground, dividing suddenly with two Knives the adhering Parts of both. I have found these Eggs in

either.

their Mouth, or, as many believe, with their wings only, would be more warily afferted, if we consulted the determination of Aristotle, who, as in fundry other places, so more expressly in his Book of Respiration affirmeth, this Sound to be made by the Illision of an inward spirit, upon a Pellicle of little Membrane about the precinct, or pectoral Division of their Body. It we also consider that a Bee or Flie, so it be able to move the body, will buz, though its head be off, that it will do the like if deprived of wings, reserving the Heal, whereby the Body may be the better moved. And that some also which are Big and Lively will Hum without either Head or Wing.

Nor is it only the beating upon this little Membrane, by the inward and connatural Spirit, as Aristotle determines, or the outward ayr, as Scaliger conceiveth, which affordeth this humming noise, but most of the other parts may also concurr hereto; as will be manifest, if while they hum, we lay our finger on the Back or other parts, for thereupon will be felt a serrous or

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arring motion, like that which happeneth while we blow on the Teeth of a omb through paper; and so if the head or other parts of the trunk be touchd with oyl, the found will be much empaired, if not defroyed; for those eing also dry and membranous parts, by attrition of the spirits do help to dvance the noise; And therefore also the found is strongest in dry weather, nd very weak in rainy feason, and towards Winter; for then the ayr is noist; and the inward spirit growing weak, makes a languid and dumb alli

ion upon the parts.

11. There is found in the Summer a kind of Spider, called a Tainct, of red colour, and so little of body, that ten of the largest will hardly outweigh a grain; this by Countrey-people is accounted a deadly poifon unto Cows, and Horses; who if they suddenly die, and swell thereon, ascribe their Death hereto, and will commonly fay, they have licked a Tainct. Now to fatisfie the doubts of men, we have called this Tradition unto experiment; we have given hereof, unto Doggs, Ghicken, Calves, and Horses, and not in the fingular number; yet could never find the least disturbance ensue. tiniy to There must be therefore other causes enquired of the sudden Death and Swelling of Cattel; and perhaps this Infect is mistaken, and unjustly accufed for some other. For some there are, which from elder-times have been observed pernicious unto Cattel; as the Buprest is or Burst-cow, the Pityocamp or Eruca Pinuum, by Dioscorides, Galen, and Ætius, the Staphilinus, described by Aristotle and others, or those red Phalangious Spiders like Cantharides mentioned by Muffetus. Now although the Animal may be miffaken, and the opinion also false, yet in the ground or reason which makes men most to doubt the verity hereof; there may be truth enough, that is, the inconsiderable quantity of this Infect. For that a poison cannot deliroy in so small a Bulk, we have no reason to affirm. For if, as Leo Africanus reporteth, the tenth part of a grain of the poison of Nubia will dispatch aman in two houres; If the Bite of a Viper, and Sting of a Scorpion, is not conceived to impart so much; if the Bite of an Asp, will kill within an Hour, yet the Impression scarce visible, and the Poison communicated not ponderable; We cannot as impossible reject this Way of destruction; or deny the power of Death in fo narrow a circumfcription.

12. Wondrous Things are promifed, from the Glew-worm; thereof perpetual lights are pretended, and Waters said to be distilled which afford a Lustre in the Night; and this is afferted by Cardan, Albertus, Gandentinus, Mizaldus, and many more. But hereto we cannot with reason affent; for the Light made by this Animal, depends upon a living Spirit, and feems by some Vital Irradiation to be actuated into this Lustre. For when they are dead, they shine not, nor alwaies while they live, but are obscure, or light, according to the diffusion of this spirit, and the protrusion of their luminous Parts, as observation will instruct us. For this flammecus light is not over all the body, but only visible on the inward side; in a small white part near the Tail. When this is full and seemeth protruded, there ar feth a

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BOOK III.

flame of a circular figure, and Emerald-green Colour; which is more difcernable in any dark place, than day; but when it falleth and feemeth contracted, the light disappeareth, and the colour of that Part only remaineth. Now this Light, as it appeareth and disappeareth in their Life, so doth it go quite out at their Death. As we have observed in some, which, preserved in fresh Grass, have lived and shined eighteen dayes; but as they declined, their Light grew languid, and at last went out with their Lives. the Torpedo, which alive, hath power to flupifie at a diffance, hath none upon contaction being dead, as Galen and Rondeletins, particularly experimented. And this hath also disappointed the mischief of those intentions, which study the advancement of poisons; and fancie destructive compositions from Asps or Vipers Teeth, from Scorpions or Hornet stings. these omit their efficacy in the death of the individual, and act but dependantly on their Forms. And thus far also those Philosophers concurr with us, which held the Sun and Stars were living Creatures, for they conceived their Luftre depended on their lives; but if they ever died, their light muft also perish.

And whether the Light of Animals, which do not occasionally shine from contingent causes, be not of kin unto the light of Heaven; whether the invisible Flame of Life received in a convenient matter, may not become visible, and the diffused Ætherial Light make little stars by Conglobation in idoneous Parts of the Compositum; whether also it may not have some original in the seed and spirit Analogous unto the Element of Stars, whereof some Glimpse is observable in the little resulgent Humour at the first at-

tempts of Formation; Philosophy may yet enquire.

True it is, that a Glow-worm will afford a faint light, almost a dayes space when many will conceive it dead; but this is a mistake in the compute of Death, and term of disanimation; for indeed it is not then dead, but if it be distended will slowly contract it self again, which when it cannot do, it ceases to shine any more. And to speak strictly, it is no easie matter to determine the point of Insects, and creatures who have not their vitalities radically confined unto one part; for they are not dead when they cease to move or afford the visible evidences of life; as may be observed in Flies, who when they appear even desperate and quite forsaken of their Forms; by vertue of the Sun or warm ashes will be revoked unto life, and perform its functions again.

Now whether this Lustre, a while remaining after death, dependeth not still upon the first Impression, and Light communicated or raised from an inward spirit, subsisting a while in a moist and apt recipient, nor long continuing in this, or the more remarkable Indian-Glow-worm; or whether it be of another nature, and proceedeth from different causes of Illumination; yet seeing since it confessedly subsistent so a while after their lives, how to make perpetual lights, and sublunary moons thereof as is pretended, we rationally doubt, though not so sharply deny, with Scaliger and Mufferus.

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ricks of their Providence we alwayes meet with this, that, To prevent the growth of Corn which they flore up, they bite off the end thereof: And Nemalab a fome have conceived that from hence they have their name in Hebrew: Namal circum-From whence arifeth a conceit, that Corn will not grow if the extreams cidit, be cut or broken. But herein we find no fecurity to prevent its germination; as having made tryal in Grains, whose ends cut off, have notwithstanding suddenly sprouted, and according to the Law of their Kinds; that is, the Roots of Barley and Oats at contrary ends, of Wheat and Rye at the same. And therefore some have delivered, that after rainy weather they dry these Grains in the San; which if effectual, we must conceive to be made in a high degree and above the progression of Malt; for that Malt will grow, this year hath enformed us, and that unto a perfect Ear.

And if that be true, which is delivered by many, and we shall further Experiment, that a decoction of Toad-stoles, if poured upon earth, will A natural viproduce the same again: If Sow-thistles will abound in places manured with cissiude of Dung of Hogs, which feed much upon that Plant: If Horse-dung reprogeneration in duceth Oats; if Winds and Rains will transport the Seminal of Plants; Homoge cousti will not be easie to determine where the Power of Generation ceaseth. thirgs.

The Forms of things may be deeper then we conceive them; seminal principles may not be dead in the divided Atoms of Plants; but, wandring in the Ocean of nature, when they hit upon proportionable materials, may

unite, and return to their visible selves again.

But the Prudence of this Animal, is, by Knawing, Piercing, or otherwife, to destroy the little Nebbe, or Principle of Generation. Which notwithstanding is not easily discoverable; it being no ready business to meet with such grains in Ant-hills; and he must dig deep, that will seek them in the Winter.

CHAP. XXVIII.

of some others.

That a Cicken is formed out of the Yelk of the Egg, was the opinion of fome Ancient Philosophers. Whether it be not the nutriment of the Pullet, may also be considered: Since umbilical Vessels are carried unto it: Since much of the Yelk remaineth after the Chicken is formed: Since in a Chicken newly hatched, the stomack is tincted yellow, and the Belly sull of Yelk, which is drawn in at the Navel or Umbilical Vessels toward the Vent, as may be discerned in Chickens, within a day or two before Exclusion.

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Whether the Chicken be made out of the White, or that be not also its aliment, is likewise very questionable: Since an umbilical vessel is derived unto it: Since, after the formation and perfect shape of the Chicken, much of the White remaineth.

Whether it be not made out of the grando, gallature, germ, or tread of the Egg, as Aquapendente and stricter enquiry informeth us, doth seem of lesser doubt: for at the blunter end it is not discovered after the Chicken is formed; by this also the yelk and white are continued, whereby it may conveniently receive its nutriment from them both.

Now that from such slender Materials, nature should effect this production, it is no more than is observed in other Animals; and even in grains and kernels, the greatest part is but the nutriment of that genera-

A greater difficulty in the doctrine of Eggs, is, how the sperm of the Cock prolificates and makes the Oval conception fruitful, or how it attaineth unto every Egge, since the vitellary or place of the yelk is very high: Since the ovary or part where the white involveth it, is in the second region of the Matrix, which is somewhat long and inverted: Since also a Cock will in one day fertilitate the whole racemation or cluster of

Eggs, which are not excluded in many weeks after.

But these at last, and how in the Cicatricula or little pale circle formation first beginneth, how the Grando or Tredle, are but the poles and establishing particles of the tender membrans, firmly conserving the floating parts, in their proper places, with many other observables, that ocular Philosopher, and singular discloser of truth, Dr. Harvey hath discovered, in that excellent discourse of Generation; So strongly erected upon the two great Pillars of truth, Experience and solid Reafon.

That the Sex is discernable from the figure of Eggs, or that Cocks or Hens proceed from long or round ones, as many contend, experiment will easily frustrate.

The Ægyptians observed a better way to hatch their Eggs in ovens, than the Babylonians to roast them at the bottom of a sling, by swinging them round about, till heat from motion had concocted them; for that consuseth all parts without any such effect.

Though flight distinction be made between boiled and roasted Eggs, yet is there no stender difference, for the one is much drier than the other: the Egg expiring less in the elixation or boyling; whereas in the assation or roating, it will sometimes abate a dragm, that is, threescore grains in weight. So a new laid Egge will not so easily be boyled hard, because it contains a greater stock of humid parts; which must be evaporated, before the heat can bring the inexhalable parts into consistence.

Why the Hen hatcheth not the Egg in her belly, or maketh not at least

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fome rudiment thereof within her felf, by the natural heat of inward parts, fince the same is performed by incubation from an outward warmth after; Why the Egge is thinner at one extream? Why there is fome cavity or emptiness at the blunter end? Why we open them at that part? Why the greater end is first excluded? Why some Eggs are all red, as the Kestrills; some only red at one end, as those of Kites and Buzzards? Why some Eggs are not ovall but round, as those of Fifties? &c. Are Problems, whose decisions would too much enlarge this difcourfe.

Of Snakes That Snakss and Vipers do sting or transmit their mischief by the tail, is a common expression, not easily to be justified; and a determination The Poylon of Viners of their venoms unto a part, wherein we could never find it; the poylon. lying about the teeth, and communicated by bite, in such are destructive is with in y Tieth, And therefore when biting Serpents are mentioned in the Scripture, they har in 4. Tails nor in are not differentially fet down from fuch as mischief by stings; nor cany gall, but in two Ven conclusions be made conformable to this opinion, because when the rod clay or Aladders which of Mofes was turned into a Serpent, God determinately commanded him cover y. Tech, we wan to take up the same by the tail.

Nor are all Snakes of fuch empoysoning qualities, as common opinion ing to be threshed to ye prefumeth; as is confirmable from the ordinary green Snake with us Nipers bite do emitta from several Histories of domestick Snakes, from Ophiophagous Nativertain yellowish Ligity runs along yt Teeth c ons, and fuch as feed upon Serpents.

Surely the destructive delusion of Satan in this shape, hath much en-poisons ge Wound larged the opinion of their mischief. Which notwithstanding was not so high with the Heathens, in whom the Devil had wrought a better opinion of this Animal, being Sacred unto the Egyptians, Greeks, and Romans, and the common fymbol of fanity. In the shape whereof Afculapius the God of Health appeared unto the Romans, accompanied their Embassadours to Rome from Epidaurus; and the same did stand in the Tiberine Iste upon the Temple of Esculapius.

* NEg. Some doubt many have of the Tarantula, or poylonous Spider of Ca- The curs is effected by labria, and that Magical cure of the bite thereof by Mufick. But fince putting ye Body into we observe that many attest it from experience: Since the learned Kir-putting ye motion to cherius hath politively averred it, and fet down the longs and tunes lo-any violent motion, by lemnly used for it; Since some also affirm the Tarantula it self will promoting, Perspicali dance upon certain stroaks, whereby they set their instruments against on in a biol 2 29 rec its Poyfon; we shall not at all question it. X

Much wonder is made of the Boramez, that strange Plant-Animal ort, a Fancied June may Vegetable Lamb of Tartary, which wolves delight to feed on, which let us agog as well as hath the shape of a Lamb, affordeth a bloody juyce upon breaking, and most things, you liveth while the Plants be consumed about it. And yet, if all this be no holhing in June it more, than the shape of a Lamb in the flower or seed, upon the top of the stalk, as we meet with the forms of Bees, Flies, and Dogs in some self, for it is alloways y. Ture yo. Pakent 76 others; he hath feen nothing that shall much wonder at it.

It Eights in most hes this Efect over him

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fermenti, &c.

It may feem too hard to question the swiftness of Tigers, which hath therefore given names unto Horfes, Ships, Rivers, nor can we deny what all have thus affirmed; yet cannot but observe, that facobus Bontius late Physician at fava in the East Indies, as an ocular and frequent witness is not afraid to deny it; to condemn Pliny, who affirmeth it, and that indeed it is but a flow and tardigradous Animal, preying upon advantage.

and otherwise may be escaped.

Many more there are whose serious enquiries we must request of others, and shall only awake considerations, Whether that common opinion that Snakes do breed out of the back or spinal marrow of Man. doth build upon any constant root or feed in nature; or did not arise from contingent generation, in some single bodies remembred by Pliny or others, and might be parallel'd fince, in living corruptions of the guts and other parts; which regularly proceed not to putrefactions of that

Whether the story of the Remora be not unreasonably amplified: whether that of Bernacles and Goof-trees be not too much enlarged; whether the common history of Bees will hold, as large accounts have delivered: whether the brains of Cars be attended with such destructive

malignities, as Diefcorides and others put upon them.

Whether the fasting-spittle of Man be Poylon unto Snakes and Vipers, as experience hath made us doubt? Whether the Nightingal's fitting with her breast against athorn, be any more than that she placeth some prickles on the outfide of her Neft, or roofteth in thorny and prickly places, where Serpents may least approach her? Whether Mice may be bred by putrifaction as well as univocal production, as may be eafily believed, if that receit to make Mice out of Wheat will hold, which Hel-Holm. Imago mont hath delivered. Whether Quails from any Idiosyncracy or peculiarity of conftitution, do innocuously feed upon Hellebore, or rather fometime but medically use the same; because we perceive that Stares, which

are commonly faid harmlesly to feed on Hemlock, do not make good the

viole the plans be conferred about it. And et, it all the ne more, charache disage, of, a Lamban the flower of Icel, upon ele to a or the Halk, as we meet aim the focus of Los, They and Day in long.

mied for it; belocation also chires the latence dance upon certain threats, where withey fet their in it amonts

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tradition; and he that observes what Vertigoes, Cramps, and Convulfions follow thereon in these Animals, will be of our belief.

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FOURTH BOOK

ion, or in Angalan pollutes upon the back, the belly, and all the Of many Popular and received Tenents concerning Man; which examined, prove either false or dubious. The high war and the state of a woll a as Else for Go a and Garate, are but parily Pedney and have fome po

of necessary and A add CHAP I.

of the Erectness of Man.

and with their Brent and He Hat only Man hath an Erect Figure, apt for to behold and look up toward Heaven, according to that of the Poet,

Propague cum spectant animalia catera terram, amount bolles Os homini fublime dedit, columque tueri a ollo ne Wal to poi lo reschaled Instit, & crectos ad sydera tollere vultus, or and de bon

s a doubtful affertion; whose first part may be true; if we take Erectness strictly, and so as hath Galen defined it; for they only, faith he, have an rect Figure, whose Spine and Thigh-bone are carried in right lines, gure in Ani-ind so indeed of any we yet know Man only is Erect. For the Thighs mals is pro-if other Animals do stand at Angles with their Spine, and have Rect. ingular politions in Birds, and perfect Quadrupeds. Nor doth the From, though

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though stretched out, or swimming, attain the rectitude of Man, or carry its Thigh without all angularity : And thus it is also true, that man only fitteth, if we define Sitting to be a firmation of the body upon the What fei Ifchias: wherein if the position be just and natural, the Thigh-bone lyant or fitting. eth at right angles to the Spine, and the Leg-bone or Tibia to the Thigh.

For, others when they feem to fit, as Dogs, Cats, or Lyons do, make unto their Spine Acute Angles with their Thigh, and acute to the Thigh with Thus is it likewise true, what Aristotle alledgeth in that Soverpunlinds their Shank. Problem; why Man only fuffereth pollutions in the night? because Man only lyeth upon his back; if we define not the fame by every fupine position, but when the Spine is in Rectitude with the Thigh, and both with the Arms lie Parallel to the Horizon : fo that a line through their Navel will pass through the Zenith and Centre of the Earth. And so cannot other Animals lie upon their backs; for though the Spine lie Parallel with the Horizon, vet will their Legs incline, and lie at Angles And upon these three divers Positions in Man, wherein the Spine can only be at right-Lines with the Thigh, arife those remarkable postures, Prone, Supine, and Erect; which are but differenced in Situation, or in Angular postures upon the back, the belly, and the feet.

But if Erectness be popularly taken, and as it is largely opposed unto proneness, or the posture of Animals looking downwards, carrying their venters or opposite part to the Spine, directly towards the Earth, it may admit of question. For though in Serpents and Lizards we may truly allow a pronenels, yet Galen acknowledgeth, that perfect Quadrupeds. as Horfes, Oxen, and Camels, are but partly Prone, and have fome part of Erectness. And Birds, or flying Animals, are so far from this kind of Proneness, that they are almost Erect; advancing the Head and

Observe also Breast in their progression, and only Prone in the Act of volitation. And gus major.

the Vrias Bel- if that be true which is delivered of the Pengin, or Anser Magellanions, lonii and Mer-often described in Maps about those Straits, that they go Erect like Men, and with their Breast and Belly do make one Line, Perpendicular unto the Axis of the Earth; it will make up the exact Erectness of Man. Nor will that infect come very short which we have often beheld, that is, one kind of Locust which stands not Prone, or a little inclining upward, but in a large Erectuels, elevating alwayes, the two fore-Legs, and fultain-Describers of ing it felf in the middle of the other four; by *Zoographers called Mantis,

Animals

and by the common people of Provence, Prega Dio, the Prophet and praying Locust; as being generally found in the posture of supplication, or fuch as refembleth ours, when we lift up our hands to Heaven. As for the end of this Erection, to look up toward Heaven; though confirmed by feveral testimonies, and the Greek Etymology of Man,

it is not so readily to be admitted; and as a popular and vain conceit was anciently rejected by Galen, who in his third, De usu partium, determines that Man is Erect, because he was made with hands, and was

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herewith to exercise all Arts, which in any other Figure he could not have performed; as he excellently declareth in that place, where he also proves, that Man could have been made neither Quadruped, nor Cen-

And, for the accomplishment of this intention, that is, to look up, and behold the Heavens; Man hath a notable disadvantage in the Eye-lid; whereof the upper is far greater than the lower, which abridgeth the light upwards; contrary to those of Birds, who herein have the advantage of Man : Infomuch, that the learned Plempius is bold to affirm, that Plemp. Oph. if he had had the formation of the Eye-lids, he would have contrived thalmographia-

them quite otherwise.

The ground and occasion of this conceit was a literal apprehension of a figurative expression in Plato, as Galen thus delivers; The opinion that Man is Erect to look up and behold the Heavens, is a conceit only fit for those that never saw the Fish Vranoscopus, that is, the Beholder of Heaven; which hath its eyes fo placed, that it looks up directly to Heaven; which Man doth not, except he recline, or bend his head backward: and thus to look up to Heaven, agreeth not only unto Men, but Alles; to omit Birds with long necks, which look not only upwards, but round about at pleasure. And therefore Men of this opinion understood not Plato, when he faid, that Man doth Sur sum aspicere; for thereby was not meant to gaze, or look upward with the Eye, but to have his thoughts fublime; and not only to behold, but speculate their nature, with the Eye of the understanding.

Now although Galen in this place makes instance but in one, yet are there other Fishes, whose Eyes regard the Heavens, as Place; and Cartilaginous Fishes, as Peltinals, or such as have their bones made laterally like a Comb; for when they apply themselves to sleep, or rest upon the white fide, their Eyes on the other fide look upward toward Heaven. For Birds, they generally carry their heads erectly like Man, and have advantage in their upper Eye. lid; and many that have long Necks, and bear their Heads somewhat backward, behold far more of the Heavens, and feem to look above the Equinoctial Circle. And fo also in many Quadrupeds, although their progression be partly Prone, yet is the fight of their Eye direct, not respecting the Earth but Heaven; and makes an higher Arch of Altitude than our own. The polition of a Frog with his Head above water exceedeth thefe; for therein he feems to behold a large part of the Heavens, and the acies of his Eye to ascend as high as Point of head the Tropick; but he that hath beheld the posture of a Bittor, will wen over our not deny that it beholds almost the very * Zenith.

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How a Mans Heart is plac-ed in his body

Hat the Heart of Man is seated in the left side, is an asseveration, which strictly taken, is refutable by inspection; whereby it appears, the Bafe and Centre thereof is in the midft of the Cheft true it is, that the Mucro or point thereof inclineth unto the left; for by this polition it giveth way unto the afcension of the Midriff, and by reason of the hollow vein, could not commodiously deflect unto the right, From which diversion, nevertheless, we cannot so properly say its placed in the left, as that it confisheth in the middle; that is, where its Centre resteth s for fo do we usually say, a Gnomon or Needle is in the middle of a Dial although the extreams may refeet the North or South, and approach the Circumference thereof.

The ground of this millake is a general observation from the Pulse or motion of the Heart, which is more fensible on this side; but the reasono hereof is not to be drawn from the fituation of the Heart, but the fite of the left venticle wherein the vital spirits are laboured; and also the great Arrery that conveyeth them out; both which are lituated on the left. Upon this reason Epithems or cordial applications are justly applied unto the left breaft; and the wounds under the fifth rib may be more fuddenly destructive, if made on the finister side; and the speare of the Soldier that pierced our Saviour, is not improperly described, when Pain-

dead bodies especially lying upon the spine, the heart doth seem to in-

ters direct it a little towards the left. The other ground is more particularly and upon inspection; for in

cline unto the left. Which happeneth not from its proper fite; but, be-fides its finistrous gravity, is drawn that way by the great Artery, which then subsideth and haleth the Heart unto it. And therefore strictly ta-Ken, the Heart is seated in the middle of the Chest; but after a careless. and inconsiderate aspection, or according to the readiest sense of pulsation, we shall not quarrel, if any affirm it is feated toward the left. And in these considerations must Aristotle be salved, when he affirmeth, the Heatt of Man is placed in the left fide; and thus in a popular acception Leva in may we receive the Periphrafis of Persius; when he taketh the part parte mamilla. under the left Pap for the Heart; and if rightly apprehended it concerns wise man is in the right side, but that in a fool of the left: for thereby may be implied, that the Heart of a wife Man delighteth in the right way, or in the path of vertue; that, of a fool in the left, or road of vice; according to the mystery of the letter of Pythagoras, or that expression in

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Fonds concerning fix fcore thousand that could not discern between their right hand and their left, or knew not good from evil and and we mis V

That Affertion alfothat Man proportionally bath the largest brain, I did I confess somewhat doubt , and conceive it might have failed in Birds, especially such as have little bodies, have yet large cranies, and feem to contain much brain, as Snipes, Woodcocks, Orc. But upon tryal I find it very true. The brains of a Man; Archangelus and Bauhinus observe, to weigh four pound, and sometime five and a half. If therefore a Man weigh on thundred and fourty pounds, and his brain but five, his weight is twenty leven times as much as his brain, deducting the weight of that five pound which is allowed for it. Now in a Snipe which weighed four ounces two dragms, I find the brains to weigh but half a dragm; fo that the weight of the body (allowing for the brain) exceedeth the weight of the brain fixty feven times and an half noo or sorm qu'il

More controvertible it feemeth in the brains of Sparro vs, whose eranies are rounder, and so of larger capacity : and most of all in the heads of Birds, upon the first formation in the Egge, wherein the head feems larger than all the body, and the very eyes, almost as big as either. A Sparrow in the total we found to weigh feven dragms and four and twenty grains; whereof the head a dragm, but the brain not fifteen grains; which answereth not fully the proportion of the brain of Man. And therefore it is to be taken of the whole head with the brains, when Sca- mat, ib. 1. liger objecteth that the head of a Man is the fifteenth part of his body; that a Sparrow, fcarce the fifth.

M opinion there is, which magnifies the fourth finger of the left hand, prefuming therein a cordial relation, that a particular vedicle. ovarrery is conferred thereto from the Heart, and sherefore that especially bath the honour to bear our Kings. Wit th was not only the

Christian practice in Numini of A P O oblaved by Frestbens, as Alexander as Alexander as freshed of the render of the confirmation of the confirmation of the confirmation of the second of the confirmation of the second of the

That Pleurifies are only on the left fide, is a popular Tenent, not only What a Pleu-abfurd but dangerous. From the misapprehension hereof, men rise is. omitting the opportunity of remedies, which otherwise they would not neglect. Chiefly occasioned by the ignorance of Anatomy and the exto be the skin or membrane which investeth the ribs, for so it is defined, Inflammatio membrana costas succingentis; An Inflammation, either simple, confishing only of an hot and sanguineous affluxion, or else denominable from other humours according to the predominancy of melancholy Flegm or Choler. The veffels whereby the Morbifical matter is deri-Spay foreign King of Joseph were the figner ogeny right hand, yet

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ved unto this membrane, are either the ascending branches of the hollow Vein, which disperse themselves into the sour upper ribs; or else the Azygos or Vena sine pari, whose surcles are disposed unto the other lower. The membrane thus inflamed, is properly called Pleara; from whence the disease hath its name; and this investeth not only one side, but overspreadeth the cavity of the Chest, and affordeth a common coat unto the parts contained therein.

Now therefore the *Pleura* being common unto both sides it is not reafonable to confine the inflammation unto one, nor firstly to determine it is alwayes in the side; but sometimes before and behind, that is, inclining to the Spine or Breatt-bone, for thither this coat extendeth; and therefore with equal propriety we may affirm, that Ulcers of the Lungs, or Apostems of the brain do happen only in the left side; or that Ruptures are consiable unto one side, whereas the peritoneum or rim of the belly may be broke, or its perforations relaxed in either.

CHAP. IV.

of the Ring-finger.

And; presuming therein a cordial relation, that a particular vessel, nerve, or artery is conferred thereto from the Heart, and therefore that especially hath the honour to bear our Rings. Which was not only the Christian practise in Nuptial contracts, but observed by Heathens, as Alexander ab Alexandro, Hellius, Macrobius, and Pierius have delivered, as Levinus Lemnius hath confirmed, who affirms this peculiar vessel to be an Artery, and not a Nerve, as antiquity hath conceived it; adding moreover that Rings hereon peculiarly affect the Heart; that in Lypothymies or swoundings he used the frication of this Finger with Saffron and Gold; that the ancient Physitians mixed up their Medicines herewith; that this is seldom or last of all affected with the Gout; and when that becommeth nodous, men continue not long after. Notwithstanding all which, we remain unsatisfied, nor can we think the reasons alledged sufficient to establish the preheminency of this Finger.

For First, Concerning the practice of antiquity, the custom was not general to wear their rings either on this hand or finger; for it is said, and that Emphatically in feremiah, Si snerit fecomias filins foachim regis Inda, annulus in manu dextra mea, inde evellam eum: Though Coniah the Sun of foachim King of fudah were the fignet on my right hand, yet

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would I pluck thee thence. So is it observed by Pliny, that in the portraits of their Gods, the Rings were worn on the Finger next the Thumb: that the Romans wore them also upon their little Finger, as Nero is described in Petronius: fome wore them on the middle Finger, as the ancient Ganls and Britons; and some upon the fore-Finger, as deducible from Inlins Pollux : who names that Ring Corionos.

Again, That the practice of the ancients had any such respect of cor- Rings ancidiality or reference unto the Heart, will much be doubted, if we confider ently of Iron their Rings were made of Iron; fuch was that of Prome heus who is conceived the first that brought them in use. So, as Pliny affirmeth, for many years the Senators of Rome did not wear any rings of Gold; but the Slaves wore generally Iron Rings, until their manumilion or preferment to some dignity. That the Lacedemonians continued their Iron Rings unto his daies, Pliny also delivereth; and furely, they used few of Gold; for, beside that Lyeurgus prohibited that Mettal, we read in Athenaus, that having a defire to guild the face of Apollo, they enquired of the Oracle where they might purchase so much Gold; and were direct-

ed unto Crafus King of Lydia.

Moreover whether the Ancients had any fuch intention, the grounds which they conceived in Vein, Nerve, or Artery, are not to be justified, nor will inspection confirm a peculiar vessel in this finger. For as Anatomy informeth the Bafilica-vein dividing into two branches below the Cubit, the outward fendeth two Surcles unto the Thumb, two unto the fore-Finger, and one unto the middle-Finger in the inward fide; the other branch of the Basilica sending one surcle unto the outside of the middle finger, two unto the Ring, and as many unto the little-Fingers; fo that they all proceed from the Basilica, and are in equal numbers derived unto every one. In the same manner are the branches of the Axillary Artery diffributed into the hand; for, below the Cubit it divideth into two parts, the one tunning along the Radius, and passing by the wrift or place of the Pulse, is at the fingers subdivided into three branches; whereof the first conveyeth two Surcles unto the Thumb, the fecond as many to the fore-finger, and the third one unto the middle Finger; the other or lower division of the Artery descendeth by the UIna, and furnisheth the other Fingers; that is the middle with one furcle, and the Ring and little-Fingers with two. As for the Nerves, they are disposed much after the same manner, and have their original from the brain, and not the heart, as many of the ancients conceived; which is Whence the fo far from affording Nerves unto other parts, that it receiveth very few ceed it felf, from the fixt conjugation, or pair of Nerves in the brain,

Lastly, These propagations being communicated unto both hands, we have no greater reason to wear our Rings on the left, than on the right; nor are there cordial confiderations in the one, more than the other. And therefore when Forestus on the stanching of blood makes

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use of Medical applications unto the sourch-Finger, he confines not that practice unto the left, but varieth the side according to the nostril bleeding. So in Feavers, where the heart primarily suffereth, we apply Medicines unto the wrists of either arm; so we touch the pulse of both, and judg of the affections of the heart by the one as well as the other. And although in indispositions of liver or spleen, considerations are made in Phlebotomy respectively to their situation; yet when the heart is affected, men have thought it as effectual to bleed on the right as the left; and although also it may be thought a nearer respect is to be had of the left, because the great Artery proceeds from the left venticle, and so is nearer that arm; it admits not that consideration. For under the channel-bones the Artery divideth into two great branches, from which trunk or point of division, the distance unto either hand is equal, and the consideration also answerable.

And therefore Macrobius discussing the point, bath alledged another reason; affirming that the gestation of Rings upon this hand and finger, might rather be used for their convenience and preservation, than any cordial relation. For at first (faith he) it was both free and usual to wear Rings on either hand; but after that luxury encreased, when precious Gems and rich Insculptures were added, the custom of wearing them on the right hand was translated unto the left; for that hand being lefs imployed, thereby they were best preserved. And for the same reason they placed them on this Finger; for the Thumb was too active a Finger, and is commonly imployed with either of the rest the Index or fore-Finger was too naked whereto to commit their preciofities, and haththe tuirion of the Thumb scarce unto the second joynt : the middle and little Finger they rejected as extreams, and too big or too little for their Rings, and of all chose out the fourth, as being least used of any, as being guarded on either fide, and having in most this peculiar condition, that it cannot be extended alone and by it felf, but will be accompanied by fome finger on either side. And to this opinion assenteth Alexander ab Alexandro, Annulum nuptialem prior atas in finistra fereba:, orediderimne atteas many to the fore-linger, and the third one note the numbra

Now that which begat or promoted the common opinion, was the common conceit that the heart was feated on the left fide; but how far this is verified, we have before declared. The Ægyptian practice hath much advantaged the fame, who unto this Finger derived a Nerve from the Heart; and therefore the Priest anointed the fame with precious Oyls before the Altar. But how weak Anatomists they were, which were so good Embalmers, we have already shewed. And though this reason took most place, yet had they another which more commended that practice: and that was the number whereof this singer was an Hieroglyphick. For by holding down the south Finger of the left hand, while the rest were extended; they signific the perfect and magnified number of Six, For as

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Pierins hath graphically declared, Antiquity expressed numbers by the Fingers of either Hand: on the left they accounted their digits and articulate numbers unto an hundred; on the right hand hundreds and thoufands; the depressing this singer, which in the less hand implyeth but fix, in the right indigitated fix hundred. In this way of numeration, we may construe that of fuvenal concerning Nestor,

> ---- Qui per tot secula mortem all maria la vana Distulit, at que suos jam dontra computat annos !!!! mee, and ready for all farvice.

And however it were intended, in this fense it will be very elegant what is delivered of Wildom, Prov. 3. Length of dates is in her right hand, and

in her left hand riches and honour.

As for the observation of Lemnins, an eminent Physician, concerning the Gout; however it happened in his Country, we may observe it otherwife in ours; that is, that Chiragrical persons do fuffer in this Finger as well as in the rest, and sometimes first of all, and sometimes no Hand-gouty where elfe. And for the mixing up Medicines herewith, it is rather an persons. argument of opinion, than any confiderable effect; and we as highly conceive of the practice in Diapalma, that is, in the making of that plaitter, to ftir it with the flick of a Palm, a sale a sale and and a reco role lide. As for Arguels whole fore-legs more leadibly lupply the a

en Tarrier, and men observe, thursheer on a umbler a bigger southeastly to one, but in the Vennish CHAP.

the otlar, as Louisvelt, Apra, and Manber, the lane is also difference

That there is also in mena mageal perporency in the eight, are ele-Of the Right and Left-Hand:

IT is also suspicious, and not with that certainty to be received, what is generally believed concerning the right and left hand; That men naturally make use of the right, and that the use of the other is a digression or aberration from that way which nature generally intendeth. We do not deny that almost all Nations have used this hand, and ascribed a preheminence thereto: hereof a remarkable pallage there is, Gen. 48 And Joseph took them both, Ephraim in his right hand towards Israels left hand, and Manasses in his left hand cowards Israels right hand, and Israel fresched one his right hand and laid it upon Fphraims head, who was the younger, and his left hand upon Manuffes head, quiding his hands wittingly, or Manasses was the fi st-born; and when Joseph saw that his Father laid his right hand upon the head of Ephraim, it displeased him, and he held up out Fathers hand to remove it from Ephraims head unto Manasses head: and loleph said, Not somy Father, for this is the Fift-born, put thy right hand dem beal not some out to see as we as , bran Erich on to took on two

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upon his head : The like appeareth from the ordinance of Mofes in the consecration of their Priests, Then Shalt thon kill the Ram, and take of his blood, and put it upon the rip of the right ear of Aaron, and upon the tip of the right ear of his Sons, and upon the Thumb of the right hand, and upon the great Toe of the right foot, and sprinkle the blood on the Altar round about. That the Perfians were wont herewith to plight their faith, is tellified by Diodorus: That the Greeks and Romans made use hereof, beside the testimony of divers Authors, is evident from their custom of discumbency at their meals, which was upon their left fide, for fo their right hand was free, and ready for all service. Nor was this only in use with divers Nations of Men, but was the cultom of whole Nations of Women; as is deducible from the Amazon's in the amputation of their right breaks, whereby they had the freer use of their Bow. All which do feem to declare a natural preferment of the one unto motion before the other; wherein notwithstanding in submission to future information, we are unfatisfied unto great dubitation.

For first, if there were a determinate prepotency in the right, and fuch as arifeth from a conftant root in nature, we might expect the fame in other Animals, whose parts are also d fferenced by dextrality; where in notwithstanding we cannot discover a distinct and comp ying account. for we find not that Horfes, Bulls or Mules, are generally stronger on As for Animals whose fore-legs more sensibly supply the use of Arms, they hold, if not an equality in both, a prevalency oft-times in the other, as Squirrels, Apes, and Monkies; the same is also discernable in Parrets; and men observe, that the eye of a Tumbler is biggest, not

constantly in one, but in the bearing side.

That there is also in men a natural prepotency in the right, we cannot with constancy affirm, if we make observation in Children; who permitted the freedom of both, do oft-times confine unto the left, and are not without great difficulty restrained from it. And therefore this prevalency is either uncertainly placed in the laterality, or cultom determines its indifferency. Which is the resolution of Arifforle in that Problem, which enquires. Why the right fide being better than the left, is equal in the fenfes? because, saith he, the right and left do differ, by use and custom, which have no place in the senses. For right and left as parts infervient unto the motive faculty, are differenced by degree from use and assuefaction, according whereto the one grows stronger Whence the and oft-times bigger than the other. But in the fenfes it is otherwise

proceeds.

dextral acti- for they acquire not their perfection by use or custom, but at the first vity in men we equally hear and fee with one eye, as well as with another. And therefore, were this indifferency permitted, or did not institution, bu nature determine dextrality, there would be many more Scevolaes that are delivered in flory; nor needed we to draw examples of the left from the fons of the right hand; as we read of feven thou fand in th

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Army of the Benjamites. True it is, that although there be an indifferency in either, or a prevalency indifferent in one, yet is it most reasonable Benjamin filifor uniformity, and fundry respective uses, that men should apply them-us dextra.

Selves to the constant use of one; for there will otherwise arise anomalous disturbances in manual actions, not only in civil and artificial, but

alfo in Military affairs, and the feveral actions of War.

Secondly, The grounds and reasons alledged for the right, are not latisfactory, and afford no rest in their decision. Scaliger finding a defect n the reason of Aristotle, introduceth one of no less deficiency, himself; Ratio materiales (faith he) sanguinis crassitudo simul & multitudo; that s, The reason of the vigour of this side, is the crassitude and plenty of blood : but this is not fufficient; for the craffitude or thickness of blood affordeth no reason why one arm should be enabled before the other; and the plenty thereof, why both not enabled equally. Failepins is of no other conceit, deducing the reason from the Azygos or vena fine pari, a large and confiderable Vein arifing out of the Cava or hollow vein, before it enters the right ventricle of the Heart, and placed only in the right fide. But neither is this perswafory : For the Azygos communicates no branches unto the arms or legs on either fide, but disperseth into the Ribs on both, and in its descent doth furnish the left Emulgent with one vein, and the first vein of the loyns on the right side with another; which manner of derivation doth not confer a peculiar addition unto either. Calius Rodiginus, undertaking to give a reason of Ambidexter and left-handed men, delivereth a third opinion: Men, faith he, are, Ambidexters, and use both hands alike, when the heat of the Heart dot h plentifully disperse into the left side, and that of the Liver into the right, and the spleen be also much dilated; but men are left-handed when ever it happeneth that the Heart and Liver are seated on the leftfide; or when the Liver is on the right-fide, yet so obducted and covered with thick skins, that it cannot diffuse its vertue into the right. Which reasons are no way satisfactory; for, herein the Spleen is injustly introduced to invigorate the finister fide, which being dilated, it would rather infirm and debilitate. As for any tunicles or Skins which should hinder the Liver from enabling the dextral parts; we must not conceive, it diffufeth its vertue by meer irradiation, but by its Veins and proper Veffels, which common skins and teguments cannot impede. And for the leat of the Heart and Liver in one fide, whereby men become left-handed, it hapneth too rarely to countenance an effect fo common : for, the feat of the Liver on the left-fide is very monstrous, and rarely to be met with in the observations of the Physicians. Otherwise not considering ambidextrous and leit handed men, do totally submit unto the efficacy of the Liver ; which though feated on the right-fide, yet by the fubclavian division doth equidistantly communicate its activity unto either arm; nor will it falve the doubts of observation; for many are right-handed whose Liver Ee 2

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Livers are weakly constituted, and many use the left, in whom that part is strongest; and we observe in Apes, and other Animals, whose Liver

is in the right, no regular prevalency therein.

And therefore the Brain, especially the spinal-marrow, which is but the Brain prolonged, hath a fairer plea hereto; for, these are the principles of motion, wherein dextrality confifts; and are divided within and without the Crany. By which division transmitting Nervs respectively unto either fide; according to the indifferency, or original and Nativityprepotency, there ariseth an equality in both, or prevalency in either fide. And so may it be made out, what many may wonder at, Why some most actively use the contrary arm and leg; for the vigour of the one dependeth upon the upper part of the spine, but the other upon the lower.

And therefore many things are Philosophically delivered concerning right and left, which admit of some suspension. That a woman upon a masculine conception advanceth her right leg, will not be found to answer first observation. That Males are conceived in the right side of the Womb, Females in the left, though generally delivered, and fupported by ancient testimony, will make no infallible account; it happening oft-times, that Males and Females do lie on both fides, and Hermaphrodites for ought we know on either. It is also suspicious what is delivered concerning the right and left Testicle, that males are begotten from the one, and females from the other. For though the left feminal vein proceedeth from the Emulgent, and is therefore conceived to carry down a ferious and fæminine matter; yet the feminal Arteries which fend forth the active materials, are both derived from the great Artery. Befide, this original of the left vein was thus contrived, to avoid the pulfation of the great Artery, over which it must have passed to attain unto the Testicle. Nor can we easily infer such different effects from the divers situation of parts which have one end and office; for, in the kidneys which have one office, the right is feated lower than the left, whereby it lyeth free, and giveth way unto the Liver. And therefore also that way which is delivered for masculine generation, to make a straight ligature about the left Testicle, thereby to intercept the evacuation of that part, deserveth consideration. For one sufficeth unto generation, as hath been observed in Semicastration, and oft-times in carnous Ruptures. Beside, the seminal ejaculation proceeds not immediately from the Testicle, but from the spermatick glandules ; and therefore Aristotle affirms

How an Horse (and reason cannot deny) that although there be nothing diffused from or Bull may the Testicles, an Horse or Bull may generate after castration; that is, generate after from the flock and remainder of feminal matter, already prepared and they be gelt. fored up in the Proflates or grandules of generation.

Thirdly, Although we should concede a right and lest in Nature, yet in this common and received account we may err from the proper accep四位の

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tion; mistaking one side for another; calling that in Man and other Animals the right which is the left, and that the left which is the right, and that in some things right and left which is not properly either.

For first the right and left, are not defined by Philosophers, according to common acception, that is, respectively from one man unto another, or any constant fite in each; as though that should be the right in one, which, upon confront or facing, stands a thwart or diagonially upon the other; but were diftinguished according to the activity and predominant Loco-motion upon either fide. I hus Ariftotle in his excellent Tract de incellu animalium, afcribeth fix politions unto Animals, answering the three dimensions; which he determineth not by fite or position unto the heavens, bu by their faculties and functions; and thele are Imum, Summum, ente Reta, Dertra, & Sinift n: that is the Superiour part, where the aliment is received; that the lower extream, where it is last expelled : fohe termeth a Man a Plant inverted; for he supposeth the Root of a Tree the head or upper part thereof, whereby it receiveth its aliment, although therewith it respects the Centre of the Earth, but with the other the Zenith; and this position is answerable unto longitude: Those parts are anteriour and measure profundity, where the Senses especially the eyes are placed, and those posterior which are opposite hereunto. The dextrous and finistrous parts of the body, make up the Latitude; and are not certain and inalterable like the other; for that, faith he, is the right fide, from whence the motion of the body beginneth, that is, the active or moving fide; but that, the finister which is the weaker or more quiescent part. Of the same determination were the Platonicks and Pythagoreans before him; who conceiving the Heavens an animated Body, named the East, the right or dextrous part, from whence began their motion : and thus the Greeks, from whence the Latines have borrowed their appellation, have named this hand size denominating itnot from the fite, but office, from Dexouns capio, that is, the hand which, Receiveth, or is usually imployed in t' at action.

Now upon these grounds we are most commonly mistaken, defining that by situation which they determined by motion; and giving the term of right hand to that which doth not properly admit it. For first, Many in their Infancy are sinistrously disposed, and divers continue all their life Agusesi, that is, lest-handed, and have but weak and imperfect use of the right; now unto these that hand is properly the right, and not the other esteemed so by situation. Thus may Aristotle be made out, when he affirment the right claw of Crabs and Lobsters is biggest, if we take the right for the most vigorous side, and not regard the Relative situation: for the one is generally bigger than the other, yet not always upon the same side. So may it be verified what is delivered by Scaliger in his Comment, that Palies do oftness happen upon the lest-side, if understood in this sense; the most vigorous part protecting it self, and protruding the

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matter upon the weaker and less resistive side. And thus the Law of Common-weals, that cut off the right hand of Malefactors, if Philosophically executed, is impartial; otherwise the amputation not equally

punisheth all.

tention.

Some are Augidifier, that is, ambidextrous or right-handed on both Apt for con- fides; which hapneth only unto strong and Athletical bodies, whose heat and spirits are able to afford an ability unto both. And therefore Hippocrates faith, that women are not ambidextrous; that is, not fo often as men; for some are found, which indifferently make use of both. And fo may Aristotle say, that only men are ambidexterous; of this constitution was Afteropans in Homer, and Parthempens the Theban Captain in Statius: and of the same, do some conceive our Father Adam to have been as being perfectly framed, and in a constitution admitting least defect. Now in these men the right-hand is on both sides, and that is not the left which is opposite unto the right, according to common accepti-

Again, some are Augipieseei, as Galen hath expressed : that is, Ambila-Strongly or your or left handed on both fides; fuch as with agility and vigour have ral exe cite. not the use of either : who are not Gymnastically composed : nor actively use those parts. Now in these, there is no right hand: of this constitution are many Women, and some Men, who though they accustom themselves unto either hand, do dexterously make use of neither. And therefore although the Political advice of Aristotle be very good. that men should accustom themselves to the command of either hand : yet cannot the execution or performance thereof be general; for though there be many found that can use both, yet will there divers remain that

can strenucusly make use of neither.

Lastly, These lateralities in man are not only fallible, if relatively determined unto each other, but made in reference unto the heavens and quarters of the Globe: for those parts are not capable of these conditions in themselves, nor with any certainty respectively derived from us, nor from them to us again. And first in regard of their proper Nature; the Heavens admit not these finister and dexter respects; there being in them no diverfity or difference, but a simplicity of parts, and aquiformity in motion continually succeeding each other; so that from what point foever we compute, the account will be common unto the whole circularity. And therefore though it be plaufible, it is not of confequence hereto what is delivered by Solinus; That, man was therefore a Microcosm or little World, because the dimensions of his positions were answerable unto the greater. For, as in the Heavens the distance of the North and Southern Pole, which are esteemed the superiour and inferiour Points, is equal unto the space between the East and West, accounted the dextrous and finistrous parts thereof; so is it also in Man: for the extent of his fathom or distance betwixt the extremity of the fingers of either e Land

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either hand upon expansion, is equal unto the space between the sole of the foot and the Crown. But this doth but petitionarily infer a dextrality in the Heavens, and we may as reasonably conclude a right and left laterality in the Ark or Naval edifice of Noah. For the length thereof was 300 Cubits, the breadth fifty, and the heighth or profundity thirty; which well agreeth unto the proportion of Man; whose length, that is, a Perpendicular from the Vertex unto the fole of the foot is fextuple unto his breadth, or a right line drawn from the ribs of one fide to another; and decuple unto his profundity, that is, a direct Line between the Brestbone and the Spine.

Again, They receive not these conditions with any assurance or stability from our felves. For the relative foundations, and points of denom nation, are not fixed and certain, but variously designed according to imagination. The Philosopher accounts that East, from whence the Heavens begin their Motion. The Aftronomer, regarding the South and Meridian Sun, calls that the dextrous part of Heaven which respects

his right hand; and that is the West. Poets respecting the West, assign the name of right unto the North, which regardeth their right hand; and so must that of Ovid be explained Utque due dextra Zona totidemque from the orifinifira. But Augurs or South-fayers turning their face to the East, did ginal expressmake the right in the South; which was also observed by the Hebrews on, and Caldeans. Now if we name the quarters of Heaven respectively Pfalm. 89.13.

unto our fides, it will be no certain or invariable denomination For if we call that the right-fide of Heaven which is feated Eastwardly unto us, when we regard the Meridian Sun; the Inhabitants beyond the Equator and Southern Tropick when they face us, regarding the Meridien, will contrarily define it; for unto them, the opposite part of Hea-

ven will respect the left, and the Sun arise to their right.

And thus have we at large declared, that although the right be most commonly used; yet hath it no regular or certain root in nature. Since it is not confirmable from other Animals: Since in Children it seems either indifferent or more favourable in the other, but more reasonable for uniformity in action, that men accustom unto one: Since the grounds and reasons urged for it, do no way support it : Since if there he a right and stronger fide in Nature, yet may we mistake in its denomination; calling that the right which is the left, and the left which is the right : Since some have one right, some both, some neither: And Lastly, Since these affections in men are not only fallible in relation unto one another, but made also in reference unto the Heavens; they being not capable of these conditions in themselves, nor with any certainty from us, nor we from them again,

And therefore what admission we ow unto many conceptions concerning right and left, requireth circumspection. That is, how far we ought to rely upon the remedy in Kiramides, that is, the left eve of an Hedg-bog

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Hedg-hog fried in oyl to procure sleep, and the right foot of a Frog in a Deers skin for the gout, or that to dream of the loss of right or left tooth, presageth the death of Male or Female kindred, according to the doctrine of Art midorus. What verity there is in that numeral conceit in the lateral divisionof Man by even and odd, ascribing the odd unto the right. side, and even unto the left; and so by parity, or imparity of letters in mens names to determine misfortunes on either fide of their bodies, by which account in Greek numeration, Hephastus or Vulcan was lame in the right foot, and Annibal lost his right-eye. And Lastly, what sob-Ariolation, that the left-hand is ominous, and that good things do pals finitiroully upon us, because the left-hand of man respecteth the righthand of the Gods, which handed their favours unto us.

CHAP. VI.

Hat Men Swim naturally, if not disturbed by fear; that men being drowned and sunk, do float the ninth day when their Gall breaketh; that women drowned swim prone, but men supine, or upon their backs, are popular affirmations, whereto we cannot affent. And first, that man should swim naturally, because we observe it is no lesson unto other Animals, we cannot well conclude; for other Animals fwim in the same manner, as they go, and need no other way of Motion for natation in the water, then for progression upon the land. And this is true whether they move per latera, that is, two legs of one fide together, which is Tollutation or Ambling; or per Diametrum, lifting one foot before, and the cross foot behind, which is succussation or trotting; or whether per frontem or quadratum, as Scaliger terms it, upon a square base the legs of both fides moving together, as Frogrand faliant Animals, which is properly called leaping. For by these motions they are able to support and impel themselves in the water, without alteration in the stroak of their legs, or position of their bodies.

But in man it is performed otherwife : for in regard of fite, he alters his natural posture and swimmeth prone; whereas he walketh erect. Again, in progression the arms move parallel to the legs, and the arms and legs unto each other; but in Natation both together; all which aptly to perform, and fo as to support and advance the body, is a point of Art, and fuch as some in their young and docile years could never attair.

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But although it be acquired by art, yet is there somewhat more of nature in it than we observe in other habits, nor will it frictly fall under that definition: for, once obtained, it is not to be removed; nor is there any who from difuse did ever yet forger it. by man Bonf to many italian

Secondly, That persons drowned arise and float the ninth day when their Gall breaketh, is a questionable determination, both in the time and cause. For the time of floating, it is uncertain according to the time of putrefaction, which shall retard or accelerate according to the subject and feafon of the year; for, as we observed, Cats and Mice will arise unequally, and at different times, though drowned at the fame. Such as are fat do commonly float foonest, for their bodies soonest ferment, and that substance approacheth nearest unto ayr : and this is one of Aristothe reasons why dead Eels will not float, because faith he, they have be flender bellies and little fat. ballotts roll and nome who have because

As for the cause, it is not to reasonably imputed unto the breaking of Why drownthe gall as the putrefaction or corruptive fermentation of the body ed bodies float whereby the unnatural heat prevailing, the putrifying parts do fuffer a after a time. turgescence and inflation, and becoming aery and spumous, affect to approach the Ayr, and afcend unto the furface of the Water. And this is alfo evidenced in Eggs, whereof the found ones fink, and fuch as are addled fwim, as do alfo those which are termed hypenemia or wind-eggs; and this is also a way to separate feeds, whereof such as are corrupted and steril, fivim; and this agreeth not only unto the feed of plants lockt up and capfulated in their husks, but also unto the sperm and fee minal humour of man; for fuch a passage hath Aristo le upon the Inqui-

lition and test of its fertility.

That the breaking of the gall is not the cause hereof, experience hath informed us. For, opening the abdomen, and taking out the gall in Cars and Mice, they did notwithstanding arise. And because we had read in Rhodiginus of a Tyrant, who, to prevent the emergency of murdered both of bodies, did use to cut off their Lungs, and found mens minds possessed to the country of the cut off their Lungs, and found mens minds possessed to the country of the cut of th with this reason; we committed some unto the water without Bungs, is her bear which notwithitanding floated with the others, and to compleat the exp na bevorg flat periment, although we took out the guts and bladder, and also perforaed the Cranium, yet would they arife, though in a longer time? From hefe observations in other Animals, it may not be unreasonable to conlude the same in Man, who is too noble a subject on whom to make them exprefly; and the casual opportunity too rare almost to make any. Now any shall ground this effect from gall or choler, because it is the high. It humour and will be above the reft, or being the fiery humour will eadiest surmount the water; we must confess in the common putrecence it may promote Elevation, which the breaking of the bladder of all, To imail a part in man, cannot confiderably advantage.

Lastly, That Women drowned float prone, that is, with their bellies downward,

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downward, but Men supine or upward, is an affertion wherein the 370 or point it felf is dubious; and were it true, the reason alledged for it, is of no validity. The reason per current was, first expressed by Pling, veluti pudori defunctorum parcense natura, Nature modeftly ordaining this p fition to conceal the fhame of the dead; which hath been taken up by Salinus, Rhodiginus, and many more, This indeed (as Scaliger termeth it) is ratio Civilis non Philesophica, strong enough for Morality or Rhetoricks, not for Philosophy or Physicks. For first, in nature the concealment of fecret parts is the fame in both fexes, and the shame of their reweal equal : So Adam upon the tafte of the Fruit was ashamed of his nakednels as well as Eve. And so like wife in America, and countries unacquainted with habits, where modesty conceals these parts in one fex, it orh it also in the other; and therefore had this been the intention of lature, not only Women, but Men also had swimmed downwards; the -aword view posture in reason being common unto both, where the intent is also

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common; While herein we commend the modesty, we condemn the wisdom of nature : for that prone position we make her contrive unto the Woman, were best agreeable unto the Man in whom the secret pare are very anteriour and more discoverable in a supine and upper posture, And therefore Sealiger declining this reason, hath recurred unto another from the difference of parts in both sexes; Quod ventre vasto sunt multi-eres plenoque intestinis, it aque minus impletur & subsidit; inanier maribus, quibus nates praponderant: If so, then Men with great bellies will float downward, and only Callipyga, and Women largely composed behind, upwards. But Anatomists observe, that, to make the larger cavity for the Infant, the hanch bones in Women and confequently the parts apperdantane more protuberant than they are in Men. They who alcribe the cause unto the breasts of Women, take not away the doubt; for they Of the cause resolve not why children float downward, who are included in that fex

wherof much though nor in the reason alterged. But hereof we ceale to discourse less was wo undertake to afford a reason of the golden Tooth; that is, to invent Imposture.

Lest proved an or affign a cause, when we remain unsatisfied or unassured of the effect. That a Mare will fooner drown than a Horfe, though commonly opinion'd, is not I fear experienced : mar is the same observed, in the drowning of whelps and Killings. But that a man cannot thut or open his eyes under water, easie experiment may convict. Whether Cripples and mutilated persons, who have lost the greatest part of their thighs, wil not fink but float, their lungs being abler to wast up their bodies, which are in others overpoyled by the hinder leggs; we have not made experiment. Thus much we observe that Animals drown downwards, and the same is observable in Frogs, when the hinder legs are cut off, Bu in the ayr most feem to perish headlong from high places; however Vulcun thrown from heaven, be made to fall on his feet.

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are lighter after meals than HVe, QAHO a fudply and addition of fourist obscuring the gross pondercolity of the almenting effect; but the contrary hereof we have this will grin and contrary hereof we have this will grin remove the other of the contrary hereof we have to be grin grin removed the contrary hereof we have to be grin grin removed the contrary hereof we have to be grin removed to the contrary hereof we have to be grin removed to the contrary hereof we have to be grin removed to the contrary hereof we have to be grin removed to the contrary hereof we have to be grin removed to the contrary hereof we have the contrary hereof we h

Hat Men weigh heavier dead than alive, if experiment hath not failed us, we cannot reasonably grant. For hough the tryal hereof cannot so well be made on the body of Man, nor will the difference be sensible in the abate of scruples or drams, yet can we not confirm the same in leffer Animals, from whence the inference is good; and the affirmative of Pliny faith, that it is true in all? For exactly weighed and strangling a Chicken in the Scales; upon an immediate ponderation, we could discover no sensible difference in weight; but suffering it to lie eight or ten hours, until it grew perfectly cold, it weighed most sensibly lighter; the like we attempted, and verified in Mice, and performed their trials in Scales, that would turn upon the eighth or tenth

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Now whereas some alledge that spirits are lighter substances, and, naturally afcending, do Elevate and waft the body upward, whereof dead bodies being destitute, contract a greater gravity; although we concede that spirits are light comparatively, unto the body, yet that they are abfolutely fo, or have no weight at all, we cannot readily allow. For fince Philosophy affirmeth, that Spirits are middle substances between the Soul and Body, they must admit of some corporeity, which supposeth weight or gravity. Beside, in carcasses warm, and bodies newly difanimated, while transpiration remaineth, there do exhale and breathe out vaporous and fluid parts, which carry away fome power of gravitation. Which though we allow, we do not make answerable unto living exspiration; and therefore the Chicken or Mice were not fo light being dead, as they would have been after ten hours kept alive; for in that space a man abateth many ounces; Nor if it had flept, for in that space of fleep, a man will fomet mes abate forty ounces; Nor if it had been in the middle of Summer, for then a man weigheth fome pounds lefs, then in the height of winter; according to experience, and the flatick Aphorilms of S netorius.

Again, Whereas men affirm they perceive an addition of ponderofity in dead bodies, comparing them usually unto blocks and stones, when soever they lift or carry them; this accessional preponderancy is rather in appearance than reality. For being destitute of any motion, they confer no relief unto the Agents or Elevators; which makes us meet with the same complaints of gravity in animated and living bodies, where the nerves subside, and the faculty loco-motive feems abolished; as may be observed in the lifting or supporting of persons inebriated, Apopledi-

cal, or in Lypothymies and foundings.

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Many are also of opinion, and some learned men maintain, that men are lighter after meals than before, and that by a supply and addition of spirits obscuring the gross ponderofity of the aliment ingested; but the contrary hereof we have found in the tryal of fundry persons in different fex and ages. And we conceive men may mistake if they distinguish not, the sense of levity unto themselves, and in regard of the Scale or decision of trutination. For, after a draught of wine, a man may seem lighter in himself, from sudden resection, although he be heavier in the ballance, from a corporal and ponderous addition; but a man in the morning is lighter in the scale, because in sleep some pounds have perspired; and is alfo lighter unto himfelf, because he is refected.

And to speak strictly, a man that holds his breath is weightier while his Lungs are full, then upon exspiration. For a bladder blown is weightier than one empty, and if it contain a quart, expressed and emptied it will abate about a quarter of a grain. And we somewhat mistrust the experiment of a pumice-stone taken up by Montanus, in his Comment upon Avicenna, where declaring how therarity of parts, and numerofity of pores, occasioneth a lightness in bodies, he affirms that a pumice-stone powdered, is leighter than one intire, which is an experiment beyond our fatisfaction; for, befide that abatement can hardly be avoided in the Trituration, if a bladder of good capacity will scarce include a grain of ayr, a Pumice of three or four drams, cannot be prefumed to contain the hundred part thereof; which will not be fenfib e upon the exactest beams we,use. Nor is it to be taken strictly, what is delivered by the learned Lord Verulam, and referred unto further experiment; That a diffolution of Iron in agua fortis, will bear as good weight as their bodies did before, notwithstanding a great deal of waste by a thick vapour that issueth during the working; for we cannot find it to hold neither in Iron nor Copper, which is dissolved with less ebullition; and hereof we made tryal in Scales of good exactness: wherein if there be a defeet, or fuch as will not turn upon quarter grains, there may be frequent mistakes in experiments of this nature. But stranger is that, and by the favourablest way of tryal, will hardly be made out what is delivered by Hamerus Poppins, that Antimony calcind or reduced to alhes by a Basilica An-burning-glass, although it emit a gross and ponderous exhalation, doth rather exceed than abate its former gravity. Nevertheless, strange it is;

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in such operations; or rather some encrease, as in the refining of Metals, in the telt of bone-afhes, according to experience; and in a burnt-brick, Des Pierces as Monsieur de Calve affirmeth. Mistake may be made in this way of tryal, when the Amimony is not weighed immediately upon the calcination; but permitted the ayr, it imbibeth the humidity thereof, and fo repaireth its gravity enormy to a morocal to got

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CHAP. VIII.

phylicensemics with of fyrums and lamburge medicines, we are not Of the passage of Meat and Drink.

That there are different passages for Meat and Drink, the Meat or dry aliment descending by the one, the drink or moistning vehicle by the other, is a popular Tenent in our daies, but was the affertion of learned men of old. For the same was affirmed by Plato, maintained by Eustathius in Macrobius, and is deducible from Eratosthenes. Eupolis, and Euripides. Now herein men contradict experience, not well understanding Anatomy, and the use of parts. For at the Throat. there are two cavities or conducting parts; the one the Oefophagus or Gullet, feated next the Spine, a part official unto nutrition, and whereby the aliment both wet and dry is conveighed unto the stomack; the other (by which 'tis conceived the drink doth pass) is the Weazon, rough artery, or wind pipe, a part infervient to voice and respiration; for thereby the ayr descendeth into the lungs, and is communicated unto the heart. And therefore all Animals that breathe or have lungs, have also the Weazon; but many have the gullet or feeding channel, which have no longs or wind-pipe; as Fiftes which have gils, whereby the heart is refrigerated; for fuch thereof as have lungs and respiration, are not with-

out the Weazon, as whales, and cetaceous Animals.

Again, beside these parts destin'd to divers offices, there is a peculiar provision for the wind-pipe, that is, a cartilagineous flap upon the opening of the Larynx or Throttle, which hath an open cavity for the admission of the ayr; but, lest thereby either meat or drink should descend; Providence hath placed the Epiglottis, Ligula, or flap like an Ivy-leaf, which alwaies closeth when we swallow, or when the meat and drink paffeth over it into the gullet. Which part although all have not that breathe, as all cetaceous and oviparous Animals, yet is the Weazon fecured some other way; and therefore in Whales that breathe, lest the water should get into the lungs, an ejection thereof is contrived by a Fistula or spout at the head. And therefore also though Birds have no Epiglottis, yet can they so contract the rim or chinck of their Larinx, as to prevent the admission of wet or dry ingested; either whereof getting in, Why a man occasioneth a cough, until it be ejected. And this is the reason why a cannot drink man cannot drink and breathe at the same time : why, if we laugh while once. we drink the drink flies cut at the nostrils; why, when the water en- Anacreon the ters the Weazon, men are suddenly drowned; and thus must it be un- Poer, if the derstood, when we read of one that dyed by the seed of a Grape, and story be taken literally. another by a hair in milk.

Now if any shall still affirm, that some truth there is in the affertion, upon the experiment of Hippecrates, who killing an Hog after a red potion, found the tincture thereof in the Larynx; if any will urge the same

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Now here to men contended, experience, nor

from medical practice, because in affections both of Lungs and Weazon Physicians make use of syrups and lambitive medicines; we are not averse to acknowledg, that some may distil and infinuate into the windpipe, and Medicines may creep down, as well as the Rheum before them; yet to conclude from hence, that ayr and water have both one common passage, were to state the question upon the weaker side of the distinction, and from a partial or guttulous irrigation, to conclude a total defeenfion. Wayd worth the amount of not

Caller, tened resizes on CHAP. IX. spine services and where services the contract of the contr

o heaf he which 'to conceive and due h doth pars) is aby we can in rough of Sneezing.

Oncerning Sternutation or Sneezing, and the custome of faluting or bleffing upon that motion; it is pretended, and generally believed to derive its original from a difeafe, wherein Sternutation proved mortal, and fuch as Sneezed, died. And this may feem to be proved from Carolus Sigonius, who in his History of Italy, makes mention of a Pestilence in the time of Gregory the Great, that proved pernicious and deadly to those that Sneezed. Which notwithstanding will not sufficient ly determine the grounds hereof; that custom having an elder Eras than this Chronology affordeth. the described and are and are no

For although the age of Gregory extend above a thousand, yet is this custom mentioned by Apuleius, in the fable of the Fuller's wife, who lived Three hundred years before; by Pliny in that Problem of his, Cur Sternntantes falutantur, and there are also reports, that Tiberius the Emperor, otherwife a very fower man, would perform this rite most punctually unto others, and expect the same from others, unto himself, Petronius Arbi er, who lived before them both, and was Proconful of Bythinia in the raign of Nero, hath mentioned it in these words, Gyton collectione spiritus plenus, ter continuo ita sternutavit ut grabatum concuteret. ad quem motum Eumo'pus conversus. Salvere Gytona jubet. Ocelius Rhodiginus hath an example hereof among the Greeks, far ancienter than these, that is, in the time of Cyrus the younger; when consulting about their retreat, it chanced that one among them Sneezed; at the noise whereof, the rest of the Soldiers called upon Inpiter Soter. There is al-

Collection fo in the Greek Anthology, a remarkable mention hereof in an Epigram Greek Epi upon one Proclus; the Latine whereof we shall deliver, as we find it ms, Tiulo often translated) เป็นเมืองเป็น อดีเลยาการ เลเลียง เรื่องการสุด

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Non potis est Proclus digitis emung re nasum, Nanque est pro nasi mole pusilla ma-us: Non vocat ille fovem sternutans, guippe nec andit Sternutamentum, tam procul aure sonat.
Proclus with his hand his Nose can never wipe, His hand too little is his Nofe to gripe; He Sneezing calls not fove, for why? he hears Himself not Sneez, the found's so far from's ears.

Nor was this only an ancient custom among the Greeks and Romans, and is still in force with us, but is received at this day in the remotest parts of Africa. For so we read in Rhodiginus; that upon a Sneez of the Devebus Abaf-Emperor of Monomotapa, there passed acclamations successively through sinoram. the City. And as remarkable an example there is of the same custom, in the remotest, parts of the East, recorded in the Travels of Pinto.

Bur, the History will run much higher, if we should take in the Rabbinical account hereof, that Sneezing was a mortal fign even from the first man; until it was taken off by the special supplication of Jacob. From whence as a thankful acknowledgment, this faluration first began; and was after continued by the expression of Tobim Chaim, or vita bona, by Chald.

standers by, upon all occasion of Sneezing,

Now the ground of this ancient custom was probably the opinion the Ancients held of sternutation, which they generally conceived to be a good fign or a bad, and fo upon this motion accordingly used, a Salve or Est offer as a gratulation for the one, and a deprecation from the other. Now of the wayes whereby they enquired and determined its fignality; the first was natural, arising from Physical causes, and consequences oftentimes naturally fucceeding this motion; and fo it might be justly esteemed a good sign. For, Sneezing being properly a motion of the brain, fuddenly expelling through the nostrels what is offensive unto it, it cannot but afford some evidence of its vigour; and therefore faith whencester-Ariftotle, they that hear it, megoxungary as trest bonom it as somewhat nutation or facred, and a fign of Sanity in the diviner, part; and this he illustrates sneezing profession the practice of hysitians, who in persons near death, do use Ster-Problem Sell. nutatories, or fuch medicines as provoke unto Sneezing; when if the faculty arife, and Sternutation ensueth, they conceive hopes of life, and with gratulation receive the figns of fafety. And fo is it alf of good in what cases fignality, according to that of Hippocrates, that fineezing cureth the hick-a fign of good et, and is profitable unto Women in hard labour ; and fo is it alfo good in Lethargies, apoplexes, Catalepfies, and Coma's. And in this natural way it is sometime likewise of bad effects or Signs, and may give hints of de- 2 King. 4. 35. precation, as in difeases of the Chest : for therein Hippocrates condemn. In what of bad neth it as too much exagitating; in the beginning of Cate rbs according unto vi inna, as hindring concoction, in new and tender conceptions (as Pliny observeth) for then it endange sabortion.

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The second way was superstitious and Augurial, as Calius Rhodiginus hath illustrated in testimonies, as ancient as Theorieus and Homer: as appears from the Athenian master, who would have retired, because a boat-man Sneezed; and the testimony of Austin, that the ancients were wont to go to bed again if they Sneezed while they put on their shoes. And in this way it was also of good and bad signification; so Aristotle hath a Problem, why Sneezing from noon unto midnight was good, but from night to noon unlucky? So Enstathius upon Homer observes, that Sneezing unto the lest hand was unlucky, but prosperous unto the right; so as Plutarch relateth, when Themistocles sacrificed in his Galley before the Battel of Xerxes, and one of the assistants upon the right hand Sneezed; Euphrantides the Sooth-saver, presaged the Victory of the Greeks, and the overthrow of the Persians.

Thus we may perceive the cultom is more ancient than commonly conceived; and these opinions hereof in all ages, not any one disease, to have been the occasion of this salute and deprecation. Arising at first from this vehement and affrighting motion of the Brain, inevitable, observable unto the standers by: from whence some finding dependent effects to ensue; others ascribing hereto as a cause what perhaps but casually or inconnexedly succeeded; they might proceed unto forms of speeches, selicitating the good, or deprecating the evil to follow.

So so so as a gratulation for the one, and a deprecation fron the other. Now of the wayes whereby (X) c. Q.A.H.D. determined in figurially; the first was natural, artifing from Physical could so and consequences of the

vibui ed alamai of has of the Jews. whereand villariose comined

That Jews slink naturally, that is, that in their race and Nation there is an evil savour, is a received opinion we know not how to admit though we concede many questionable points, and dispute not the verity of sundry opinions which are of affinity hereto. We will acknowledge that certain odours attend on animals, no less than certain colours; that pleasant smells are not confined unto Vegetables, but sound in divers Animals, and some more richly than in Plants. And though the Problem of Aristotle enquire, why none smells sweet beside the Pard? yet later discoveries add divers forts of Monkeys, the Civet-Cat, and Gazela, from which our Musk proceedeth. We confess, that, beside the smell of the Spices, there may be individual odours, and every Man may have a proper and peculiar savour; which although not perceptible unto Man, who hath this sense but weak, yet sensible unto Dogs, who hereby can single out their Masters in the dark. We will not deny that particular men lave sent forth a pleasant savour, as Theophrastus and Plutareh re-

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felves. That some may also emit an unsavory odour, we have no reason to deny; for this may happen from the quality of what they have taken; the sector whereof may discover it self by Sweat and Urine, as being unmasterable by the natural heat of Man, not to be dulcified by concoction beyond an unsavory condition: the like may come to pass from putrid humours, as is often discoverable in putrid and malignant Feavers. And sometime also in gross and humid bodies even in the latitude of sanity; the natural heat of the parts being insufficient for a perfect and through digestion, and the errors of one concoction not rectifiable by another. But that an unsavory odour is gentilitious or national unto the fews, if rightly understood, we cannot well concede; nor will the

information of Reason or Sense induce it.

For first, Upon consult of Reason, there will be found no easie assurance to falten a material or temperamental propriety upon any Nation; there being scarce any condition (but what depends upon clime) which is not exhausted or obscured from the commixture of introvenient Nations either by commerce or conquest; much more will it be difficult to make out this affection in the Jews, whose race however pretended to be pure, must needs have suffered inseparable commixtures with Nations of all forts; not only in regard of their Profelytes, but their univerfal dispersion; some being posted from several parts of the Earth, others quite lost, and swallowed up in those Nations where they planted. For the Tribes of Reuben, Gad, part of Manasses and Naphihali, which were taken by Affur, and the rest at the sacking of Samaria, which were led away by Salmanaffer into Affyria, and after a year and half arrived at Arfereth, as is delivered in Efdras; thefe, I fay, never returned, and are by the fews as vainly expected as their Meffias. Of those of the Tribe of Juanh and Benjamin, which were led Captive into Babylon by Nebuchadnezzar, many returned unto Zorobabel; the rest remained, and from thence long after upon Invalion of the Saracens, fled as far as India; where yet they are faid to remain, but with little difference from the Gentiles,

The Tribes that returned to Judea, were afterward widely dispersed; for beside sixteen thousand which Titus sent to Rome unto the Triumph of his father Vespasian, he sold no less than an Hundred thousand for slaves. Not many years after Adrian the Emperour, who ruined the whole Countrey, transplanted many thousands into Spain, from whence they dispersed into divers Countries, as into France and England; but were banished after, from both. From Spain they dispersed into Africa, Italy, Constantinople, and the Dominions of the Turk, where they remain as yet in very great numbers. And if (according to good relations) where they may freely speak it, they sorbear not to boast that there are at present many thousand Jews in Spain, France, and England, and G g

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Now having thus lived in feveral Countries, and alwayes in fubjection, they must needs have suffered many commixtures; and we are sure they are not exempted from the common contagion of Venery contracted first from Christians. Nor are fornications unfrequent between them both; there commonly passing opinions of invitement, that their Women defire copulation with them, rather than their own Nation, and affect Christian carnality above circumcifed venery. It being therefore acknowledged, that some are lost, evident that others are mixed, and not affured that any are diffinct, it will be hard to establish this quality upon the fews, unless we also transferr the same unto those whose generations are mixed, whose genealogies are Jewish, and naturally derived from them.

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Again, If we concede a National unfavouriness in any people, yet shall we find the fews less subject hereto than any, and that in those regards which most powerfully concur to such effects, that is, their Diet The Fews and Generation. As for their diet, whether in obedience unto the precepts generally ve- of reason, or the injunctions of parlimony, therein they are very tempery temperate. rate; feldom offending in ebriety or excels of drink, nor erring in gulohty or super fluity of meats; whereby they prevent indigestion and crudities, and confequently putrescence of humours. They have in abomination all flesh maimed, or the inwards any way vitiated; and therefore eat no meat but of their own killing. They observe not only falls at certain times, but are restrained unto very few dishes at all times; so few, that whereas Saint Peters theet will hardly cover our tables, their Law doth scarce permit them to set forth a Lordly Feath; nor any way to answer the luxury of our times, or those of our fore-fathers shesh their Law restrains them many forts, and such as compleat our Quanti e? gu- Peasts. That Animal, Propter convivia natum, they touch not, nor any

cenvivia 3#171.

la, que sibi to- of its preparations or parts, so much in respect at Roman Tables; nor adto ponit Apros! mit they unto their board. Hares, Conies, Herons, Plovers, or Swans. Of Fishes they only tast of such as have both fins and scales; which are Animal propter comparatively but few in number, such only, faith Aristotle, whose Egg or Spawn is arenaceous; whereby are excluded all cetaceous and cartilagineous Fiftes; many Pectinal, whose ribs are Rectilineal; many costal, which have their Ribs embowed; all Spinal, or fuch as have no Ribs, but only a back-bone, or fomewhat analogous thereto, as Eels, Congers, Lampries; all that are testaceous, as Oysters, Cockles, Welks, Schollops, Muscles; and likewise all crustaceous, as Crabs, Shrimps, and Lobsters. So that observing a spare and simple diet, whereby they prevent the generation of crudities; and falting often whereby they might also s a more ich admir

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digest them; they must be less inclinable unto this infirmity than any other Nation, whose proceedings are not so reasonable to avoid it.

As for their generations and conceptions (which are the puret from good diet,) they become more pure and perfect by the first observation of the Law; upon the injunctions whereof, they severely observe the times of Purification, and avoid all copulation, either in the uncleannels of themselves, or impurity of their Women. A Rule, I fear, not fo well observed by Christians; whereby not only conceptions are prevented, but, if they proceed, so vitiated and defiled, that durable inquinations, remain upon the birth. Which, when the conception meets The Originwith these impurities, must needs be very potent; fince in the purest and all or material most fair conceptions, learned men derive the cause of Pox and Meazels, causes of the from Principles of that nature; that is, the menstrous impurities in the Pox, Meazels. Mothers blood, and virulent tinctures contracted by the Infant, in the nu-

triment of the Womb.

Lastly, Experience will convict it; for this offensive odor is no way discoverable in their Synagogus where many are, and by reason of their number could not be concealed: nor is the fame discernable in commerce or conversation with such as are cleanly in apparel, and decent in their Houses. Surely the Viziers and Turkish Basha's are not of this opinion; who, as Sr. Henry Blunt informeth, do generally keep a few of their private Counsel. And were this true, the Jews themfelves do not strictly make out the intention of their Law, for in vain do they scruple to approach the dead, who livingly are cadaverous, or fear any outward pollution, whose temper pollutes themselves. And laftly, were this true, our opinion is not impartial; for unto converted Tems, who are of the same feed, no man imputeth this unfavory odor; as though Aromatized by their convertion, they lost their fcent with their Religion, and smelt no longer than they savored of the

Now the ground that begat or propagated this affertion, might be the distasteful averseness of the Christian from the Jew, upon the villany of that fact, which made them abominable and stink in the noftrils of all men. Which real practife, and metaphorical expression, did after proceed into a literal construction; but was a fraudulent illation; for fuch an evill favour their Father Jacob acknowledged in himself, when he said, his sons had made him fink in the Land, Gen. 340 that is, to be abominable unto the inhabitants thereof. Now how dangerous it is in fensible things to use metaphorical expressions unto the people, and what abfurd conceits they will swallow in their literals; an impatient example we have in our own Profession; who having called an eating Uleir by the name of a wolf, common apprehension conceives a reality therein; and against our felves, ocular affirmations are pretended to confirm it,

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The nastiness of that Nation, and sluttish course of life hath much promoted the opinion, occasioned by their servile condition at first, and inferiour ways of parlimony ever fince; as is delivered by Mr Sindys, They are generally fat, faith he, and rank of the favours which attend upon fluttish corpulency. The Epithets assigned them by ancient times, have also advanced the same; for, Ammianus Marcellinus describeth them in fuch language; and Martial more ancient, in fuch a relative expression fets forth unfavory Bassa.

Quod jejunia Sabbatariorum Mallem, quam quod oles, olere Baffa.

Jejunia olerc.

Naseias of ur, From whence notwithstanding we cannot inferr an inward imperfection in the temper of that Nation; it being but an effect in the breath from outward observation, in their strict and tedious fasting, and was a common effect in the breaths of other Nations, became a Proverb among the Greeks, and the reason thereof begot a Problem in Aristotle.

Med. Epist.

Lastly, if all were true, and were this savour conceded, yet are the De Berilitate reasons alledged for it no way satisfactory. Hucherius, and after him Alfarius Crucius, imputes this effect unto their abstinence from falt or falt meats; which how to make good in the present diet of the Tews, we know not; nor shall we conceive it was observed of old, if we consider they feafoned every Sacrifice, and all oblations whatfoever; whereof we cannot deny a great part was eaten by the Priests. And if the offering were of flesh, it was salted no less than thrice, that is, once in the common chamber of falt, at the footstep of the Altar, and upon the top thereof, as is at large delivered by Ma monides. Nor if they refrained all falt, is the illation very urgent; for many there are not noted for ill odours, which eat no falt at all; as all carnivorous Auimals, most Children, many whole Nations, and probably our Fathers after the Creation; there being indeed in every thing we eat, a natural and concealed falt, which is separated by digestions, as doth appear in our tears, sweat and urines; although we refrain all falt or what doth feem to contain

> Another cause is urged by Campegius, and much received by Christians; That this ill favour is a Curse derived upon them by Christ, and stands as a badg or brand of a Generation that Crucified their Salvator. But this is a conceit without all warrant; and an easie way to take off difpute in what point of obscurity soever. A method of many Writers, which much depreciates the effeem and value of Miracles; that is, therewith to falve not only real verities, but also non-existencies. Thus have elder times not only ascribed the immunity of Ireland from any venemous beaft, unto the flaff or Rod of Patrick; but the long tailes of Kent, unto the malediction of Auftin.

> Thus therefore, although we concede that many opinions are true which hold some conformity unto this, yet in affenting hereto, many

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difficulties must arise: it being a dangerous point to annex a constant property unto any Nation, and much more this unto the fews; since its not verifiable by observation; since the grounds are feeble that should establish it; and lastly, since if all were true, yet are the reasons alledged for it, of no sufficiency to maintain it.

CHAP. XI.

Of Pigmies.

By Pigmies we understand a dwarfish race of People, or lowest diminution of Mankind, comprehended in one cubit, or as some will have it, in two foot or three spans; not taking them single, but nationally considering them, and as they make up an aggregated habitation. Where-of although affirmations be many, and testimonies more freque t than in any other point which wise men have cast into the list of fables; yet that there is, or ever was such a race or Nation, upon exact and consistmed testimonies, our strictest enquiry receives no satisfaction.

I say, exact restimonies; sirst, In regard of the Authors, from whom we derive the account; for though we meet herewith in Herodotus, Philogetratus, Mela, Pliny, Solinus, and many more; yet were they derivative Relators, and the Primitive Author was Homer; who using often Similies, as well to delight the ear, as to illustrate his matter, in the third of his Iliads, compareth the Trojans unto Granes, when they descend against the Pigmies; which was more largely set out by O pian, swenal, Mantua, and many Poets since, and being only a pleasant sigment in the Fountain, became a solemn story in the Stream, and current still among

Again, many Professed enquirers have rejected it; Strabo an exact and judicious Geographer, hath largely condemned it as a fabulous story in Lib. 1. Julius Scaliger a diligent inquirer, accounts thereof, but as a Poetical siction; Olysses Aldrovandus, a most exact Zowgrapher, in an express discourse hereon, concludes the story, sabulous, and a Poetical account of Homer, and the same was formerly conceived by Eustathius, his excellent Commentator. Albertus Magnus a man oft-times too credulous, herein was more than dubious; for he assirmeth, if any such dwarfs were ever extant, they were surely some kind of Apes: which is a conceit allowed by Cardan, and not esteemed improbable by many

There are, I consess, two testimonies, which from their authority admit Hist. Animal of consideration. The first of Aristotle, whose words are the se, set Je & 76-11b. 8.

AG. Ge. That is Hie locus est quem incolunt Pygmai, non enim id fabula eft, sed pusillum genus, ut ainnt. Wherein indeed Ariftotle plays the Aristotle, that is, the wary and evading affertor; For though with non eft fabuta, he feems at first to confirm it, yet at the last he claps in, Sciunt ainnt and shakes the belief he put before upon it. And therefore I observe Scaliger hath not translated the first; perhaps, supposing it surreptitious or unworthy fo great an affertor. And truly for those books of Animals, or work of Eight hundred Talents, as Athenaus terms it, although ever to be admired, and contain most excellent truths; yet are many things there. in delivered upon relation, and some repugnant unto the history of our Senses; as we are able to make out in some, and Scaliger hath observed in many more, as he hath freely declared in his Comment upon that piece.

Ezek. 27. 11.

The fecond testimony is deduced from holy Scriptures thus rendred in the vulgar translation, Sed & Pigmai, qui erant in turribus tuis, pharetras fuas, suspenderunt in muris tuis per gyrum: from whence notwith-flanding we cannot infer this affertion: for first the Translators accord not, and the Hebrew word Gammadim is very variously rendred, Though Aguilla Vatablus and Lyra will have it Pygmai, yet in the Septuagint, it is no more than Watchmen; and so in the Arabick and high Dutch. In the Chalde Gappadotians, in Sammachus Medes, and in the French, those of Gamad. But in the Chalde Cappadocians; in Symmacus, Medes. Theodosion of old, and Tremelius of late, have retained the Textuary word; and so have the Italian, Low-Dutch, and English Translators, that is, The men of Arvad were upon thy walls round about, and the Gammaiims were in thy Towers.

Paletine.

Nor do men only diffent in the Translation of the word, but in the Exposition of the sense, and meaning thereof; for some by Gammadims See Mr. Fal- understand a people of Syria, so called from the City Gamala; some ters excellent hereby understand the Cappadocians, many the Mides : and hereof Fodescription of relins hath a singular Exposition, conceiving the Warchmen of Tye might well be called Pigmics, the Towers of that City being fo high, that unto men below, they appeared in a Cubital Stature: Others expounded it quite contrary to common acception, that is, not men of the least, but of the largest fize; fo doth Cornelius construe Pigmai or vini Cubitales, that is, not men of a Cubit high, but of the largest stature, whose height like that of Giants, is rather to be taken by the Cubit than the Foot, in which Phrase we read the measure of Goliah, whose height is said to be fix Cubits and a span. Of affinity hereto is also the exposition of ferom; not taking Pigmies for Dwarfs, but stout and valiant Champians; not taking the fense of wuyun, which signifies the Cubit measure, but that which expresses Pugils; that is, men fit for Combate and the exercise of the fift. Thus can there be no fatisfying illation from this Text, the divertity or rather contrariety of Expolitions and interpretations, distracting more than confirming the truth of the flory. Again

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Again, I say, exact testimonies; in reference unto circumstantial relations so diversly or contrarily delivered. Thus the relation of Aristotle placeth them above Egypt towards the head of Nile in Africa; Philostratus affirms they are about Ganges in Asia, and Pliny in a third place, that is, Cerania in Sey hia: some write they fight with Cranes, but Menecles in Athenaus affirms they fight with Partridges; some say they ride on Partridges, and some on the backs of Rams.

Lastly, I say, confirmed testimonies; for though Paulus Jovius delivers, there are Pigmies beyond Japhan; Pigapheta, about the Mullucca's; and Olaus Magnus placeth them in Greenland; yet wanting frequent confirmation in a matter so confirmable, their affirmation carrieth but

flow perswassion; * and wise men may think there is as much reality in . The flory of the * Pigmies of Paracelsus; that is, his non-Adamical men, or middle Pamies reject-

natures betwixt men and fpirits.

There being thus no sufficient confirmation of their verity, some doubt By Pigmies may arise concerning their possibility, wherein, since it is not defined intending Fainwhat dimensions the Soul may exercise her faculties, we shall not spirits about conclude impossibility; or that there might not be a race of Pigmies, as the earth, as there is sometimes of Giants. So may we take in the opinion of Anstin, and by Nymphs, and his Comment Ludovicus; but to believe they should be in the stature alamanders, of a foot or span requires the pre-aspection of such a one as Philet as the spirits of Fire Poet in Atheneus; who was sain to satten lead unto his seet lest the wind lib. De Pigma-should blow him away. Or that other in the same Author, who was is, Nymphis, is so little ut adobolum accederet; a story so strange, that we might herein Sc.

Causabon hath observed in his learned Animadversions.

Lastly, if any such Nation there were, yet is it ridiculous what menhave delivered of them; that they fight with Cranes upon the backs of Rams or Partridges: or what is delivered by Ctessas, that they are Negroes in the middest of India; whereof the King of that Countrey, entertaineth Three housand Archers for his Guard. Which is a relation below the tale of Oberon; nor could they better defend him, than the Emblem saith, they offended Hercules whilst he slept that is, to wound

him no deeper, than to awake him.

CHAP. XII.

Of the great Climaderical year, that is, Sixty three.

CErtainly the eyes of the understanding, and those of the sense are differently deceived in their greatest objects, the sense apprehending them in lesser magnitudes than their demensions require; so it beholdest

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holdeth the Sun, the Stars, and the Earth it felf. But the understanding, quite otherwise: for that ascribeth unto many things far larger Horizons than their due circumfcriptions require: and receiveth them with amplifications which their reality will not admit. Thus hath it fared with many Heroes and most worthy persons, who being sufficiently commendable from true and unquestionable merits, have received advancement from falshood and the fruitful Hock of Fables. Thus hath it happened unto the Stars, and Luminaries of Heaven : which being fufficiently admirable in themselves, have been set out by effects, no way dependant on their efficiences, and advanced by amplifications to the questioning of their true endowments. Thus is it not improbable it hath also fared with Number, which though wonderful in it felf, and fufficiently magnifiable from its demonstrable affections, hath yet received adjections from the multiplying conceits of men, and stands laden with additions, which its equity will not admit.

And so perhaps hath it happened unto the number of Seven and Nine, which multiplyed into themselves do make up Sixty three, commonly effe. med the great Climacterical of our lives. For the dayes of men are ufually cast up by Septenaries, and every seventh year conceived to carry some altering character with it, either in the temper of body, mind, or both. But among all other, three are most remarkable, that is, Seven times feven or forty nine, nine times nine or eighty one, and feven times nine or the year of fixty three; which is conceived to carry with it the most confiderable fatality; and confitting of both the other numbers was apsixty three, prehended to comprise the vertue, of either : is therefore expected and no such dan entertained with fear, and esteemed a favour of fate to pass it over. Which notwithstanding many suspect to be but a Panick terrour, and men to fear they justly know not what : and to speak indifferent, I find no satisfaction: nor any sufficiency in the received grounds to establish a rational

gerous year.

Now herein, to emit Astrological considerations (which are but rarely introduced) the popular foundation whereby it hath continuned, is first, the extraordinary power and secret vertue conceived to attend these numbers: where f we must confess there have not wanted not only especial commendations, but very fingular conceptions. Among Philosophers, Pythagoras feems to have played the leading part; which was long after continued by his Disciples, and the Italick School. The Philosophy of Plato, and most of the Platonists, abounds in numeral considerations: above all, Philo, the learned fem, bath acted this part even to superstition : bestowing divers pages in summing up every thing, which might advantage this number. Which notwithstanding, when a serious Reader shall perpend, he will hardly find any thing that may convince his judgment, or any further perswade, then the lenity of his belief, or prejudgment of reason inclineth'

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For first, Not only the number of seven and nine from considerations abstruse, have been extolled by most, but all or most of the other digits, have 前都 been as Mystically applauded. For the number of One and Three have not been only admired by the Heathens; but from adorable grounds, the ommer cale Unity of God, and the Mystery of the Trinicy admired by many Christians. ement fan The number of four stands much admired, not only in the quaternity of pened un the Elements, which are the principles of bodies, but in the letters of the Name of God, which in the Greek, Arabian, Perfian, Hebrew and Egyptian on the an, confifteth of that number; and was fo venerable among the Pythagoing of the reams, that they swore by the number Four. That of Six hath found many New leaves in its favour; not only for the daies of the Creation, but its natural consideration, as being a perfect number, and the first that is compleated whemh by its parts; that is, the fixt, the half, and the third, 1.2.3. Which drawn into a fum, makes fix. The number of Ten hath been as highly extolled, as containing even, odd, long, plane, quadrate, and Cubical numbers; and Ariand Nine ftotle observed with admiration, that Barbarians as well as Greeks, did use common a numeration unto Ten : which being fo general, was not to be judged tummes casual, but to have a foundation in nature. So not only seven and nine, but nd nam all the rest have had their Elogies, as may be observed at large in Rhodigith mind was, and in feveral Writers : fince, every one extolling number, according sterning to his subject, and as it advantaged the present discourse in hand.

Again, They have been commended not only from pretended grounds in nature, but from artificial, casual or fabulous foundations: so have some ber was a endeavoured to advance their admiration, from the nine Muses, from the sespelled wen Wonders of the World, from the seven Gates of Thebes: in the seven Cities contending for Homer; in that there are feven Stars in Vifa minor, & cover. Whil leven in Charles-wayne, or Plaustrum of Orfa major. Wherein indeed almen to fer though the ground be natural, yet either from Constellations or their remarkable parts, there is the like occasion to commend any other number: the number five from the Stars in Sagitta, three frum the girdle of Orion, and four from Equiculus, Crusero, or the feet of the Centaur: yet are such as thele clapt in by very good Authors, and some not omitted by Philo.

Nor are they only extolled from Arbitrary and Poetical grounds, but from foundations and principles, falle, or dubious. That Women are menstruent, and Men pubescent at the year of twice seven, is accounted a punctual truth: which period nevertheless we dare not precisely determine, as having observed a variation and latitude in most; agreeably unto the heat of clime or temper; men ariling varioully unto virility, according to the activity of causes that promote it. Sanguis menstruosus adidem, ut plurimum, septimum durat, saith Philo. Which notwith standing is repugnant unto experience, and the doctrine of Hippocrates, who in his book, de dieta, plainly affirmeth, It is thus but with few Women, and only fuch as abound with pituitous and watery humours.

It is further conceived to receive addition, in that there are feven heads H h

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of Nile, but we have made manifest elsewhere, that by the description of Geographers, they have been sometime more, and are at present sewer. In that there were seven Wise men of Greece, which though generally received, yet having enquired into the verity thereof, we cannot so readily determine it; for in the life of Thales, who was accounted in that number, Diogenes Laertius plainly saith, Magna de corum numero discordia est; some holding but four, some ten, others twelve, and none agree.

ing in their names, though according in their number.

Nuncius Syderens

In that there are just seven Planets or errant Stars in the lower Orbsol Heaven: but it is now demonstrable unto sense, that there are many more as Galiteo hath declared, that is two more in the Orb of Saturn, and no less than four more in the Sphere of Jupiter. And the like may be said of the Pleiades or seven Stars, which are also introduced to magnifie this number; for whereas scarce discerning six, we account them seven, by

this relation, there are no less than forty.

That the Heavens are encompassed with seven Circles, is also the allegation of Philo, which are in his account, the Arctick, Antarctick, the Summer and Winter Tropicks, the Equator, Zodiack, and the Milky Circle whereas, by Astronomers, they are received in greater number. Forthough we leave out the Lacteous Circle (which Aratus, Geminus, and Proclusout of him hath numbred among the rest) yet are there more by southan Philo mentions; that is, the Horizon, Meridian, and both the Colures; Circles very considerable, and generally delivered, not only by Ptolomie, and the Astronomers since his time, but such as shourished long before, as Hipparchus and Eudorus. So that for ought I know, if it make for our pupose, or advance the sheme in hand, with equal liberty, we may affirm there were but seven Sybils, or but seven Signs in the Zodiaci Circle of Heaven.

Teis Hanapes Daines ni Te-

That verse in Virgil, translated out of Homer, O terque, quaterg; beati that is, as men will have it, seven times happy, hath much advanced this number in critical apprehensions; yet is not this construction so indu bitably to be received, as not at all to be questioned : for, though Rhodi ginns, Beroaldus, and others, from the Authority of Macrobius fo inter pret it; yet Servius his ancient Commentator conceives no more thereb than a finite number for indefinite, and that no more is implied that often happy. Strabo the ancientest of them all, conceives no more b this in Homer, than a full and excessive expression; whereas in commo phrase and received Language, he should have termed them thric happy; herein exceeding that number, he called them four times hap py, that is, more than thrice. And this he illustrates by the like ex pression of Homer, in the speech of Circe; who to express the drea and terror of the Ocean, flicks not unto the common form of speec in the first account of its reciprocations, but largely speaking, faith ic ebbs and flows no less than thrice a day, terque die remeavit fluttu.

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iterumque roforbet. And fo when 'tis faid by Horace, Falices ter & amplius, the exposition is sufficient, if we conceive no more than the letter fairly beareth, that is, four times, or indefinitely more than

But the main confideaations which most fet off this number, are obfervations drawn from the motions of the Moon, supposed to be meafured by fevens; and the critical or decretory daies dependant on that number. As for the motion of the Moon, though we grant it to be meafured by fevens, yet will not this advance the fame before its fellow numbers; for hereby the motion of other Stars are not measured, the fixed Stars by many thousand years, the Sun by Three hundred fixty five daies, the superiour Planets by more, the inferiour by somewhat less. And if we confider the Revolution of the first Moveable, and the daily motion from East to west, common unto all the Orbs; we shall find it meafured by another number, for being performed in four and twenty hours, it is made up of four times fix : and this is the measure and standard of other parts of time, of Months, of Years, Olympiads, Luftres, Indicti-

ons, of Cycle, s Jubilifies, &c.

Again, Moneths are not only Lunary, and measured by the Moon, but, VVhat a Soalso Solary, and determined by the motion of the Sun; that is, the space wherein the Sun doth pass thirty degrees of the Ecliptick. By this moneth Hippocrates compute the time of the Infants gestation in the womb; for nine times thirty, that is, two hundred seventy days, or compleat nine parts. soneths, make up fourty weeks, the common compute of Women. And this is to be understood, when he faith, two daies makes the fifteenth, and three the tenth part of a moneth. This was the moneth of the ancient Hebrews before their departure out of Egypt: and hereby the compute will fall out right, and the account concurr, when in one place it is faid, The waters of the Flood prevailed an hundred and fifty days; and in another it is delivered that, They prevailed from the seventeenth day of the second moneth, unto the seventeenth day of the seventh. As for the hebdomadal periods or weeks, although in regard of their Sabbaths, they were observed by the Hebrews, yet it is not apparent, the ancient Greeks or Romans used any : but had another division of their months into Ides, Nones, and Calends.

Moreover; Moneths howfoever taken, are not exactly divisible into feptenaries or weeks, which fully contain feven daies : whereof four times do make compleatly twenty eight. For, befide the usual or Calendary moneth, there are but four considerable: the moneth of Peragration, of Apparition, of Confecution, and the Medical or Decretorial moneth; wherof some come short, others exceed this account. A moneth of Peragration, is the time of the Moon's Revolution from any part of the Zodiack, unto the same again : and this containeth but twenty leven dayes, and about eight hours: which cometh thort to compleat the feptenary account.

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The moneth of Confecution, or, as some will term it, of Progression, is the space between the conjunction of the Moon with the Sun, unto another : and this containeth twenty nine daies and an half : for the Moon returning unto the same point wherein it was kindled by the Sun, and not finding it there again (for in the mean time, by its proper motion it hath paffed through two Signes) it followeth after, and attains the Sun in the space. of two daies, and four hours more, which added unto the account of Peragration, makes twenty nine daies and an half: fo that this moneth exceedeth the Latitude of Septenaries, and the fourth part comprehendeth more than seven daies. A moneth of Apparition, is the space wherein the Moon appeareth (deducting three daies wherein it commonly difappeareth; and being in combustion with the Sun, is presumed of less activity,) and this containeth but twenty fix daies and twelve hours. The medical moneth not much exceedeth this, confifting of twenty fix dayes and twenty two hours, and is made up out of all the other moneths. For, if out of twenty nine and an half, the moneth of Consecution, we deduct three daies of disappearance, there will remain the moneth of Apparition twenty fix daies and twelve hours: whereto if we add twenty feven daies and eight hours, the moneth of Peragration, there will arise fifty three daies and ten hours, which divided by two, makes twenty fix daies and twenty two hours, called by Physicians the medical moneth; introduced by Galen against Archigenes, for the better compute of Decretory or Critical daies.

What a Critical day is.

As for the Critical dayes (such I mean wherein upon a dissertation between the Disease and Nature, there ensueth a sensible alteration, either to life or death) the reasons thereof are rather deduced from Astrology, than Arithmetick: for, accounting from the beginning of the disease, and reckoning on unto the seventh day, the Moon will be in a Tetragonal or Quadrate Aspect, that is, four Signes removed from that wherein the disease began: in the fourteenth day, it will be in an opposite Aspect: and at the end of the third Septenary, Tetragonal again: as will most graphically appear in the figures of Astrologers; especially Lucas Ganricus, de diebus Decretoriis.

Again, (Beside that computing by the Medical moneth, the first hebdomade or Septenary consists of six daies, seventeen hours and an half, the second happeneth in thirteen daies and eleven hours, and the third but the twentieth natural day) what Galen first, and Aben-Ezra since observed in his tract of Critical daies, in regard of Eccentricity and the Epicycle or lesser Orb wherein it moveth, the motion of the Moon is various and unequal; whereby the Critical account must also vary. For though its middle motion be equal, and of thirteen degrees, yet in the other it moveth sometimes fifteen, sometimes less than twelve. For moving in the upper part of its Orb, it performeth its motion more slowly than in the lower; insomuch that being at the height, it arriveth at the Tetragonal and op-

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posite signs sooner, and the Critical day will be in six, and thirteen; and being at the lowest, the Critical account will be out of the latitude of seven, nor happen before the eighth or ninth day. Which are considerations not to be neglected in the compute of decretory daies, and manifestly declare that other numbers must have a respect herein as well as 7 and 14.

Lastly, Some things to this intent are deduced from holy Scripture; Thus is the year of fubile introduced to magnifie this number, as being a year made out of feven times feven; wherein notwithstanding there may be a misapprehension: for this ariseth not from seven times seven, that is, forty nine; but was observed the fiftieth year, as is expressed, and you shall hallow the fiftieth year, a Jubile shall that fiftieth year be unto Answerable whereto is the Exposition of the fews themselves, as is delivered by Ben-Maimon, that is, The year of Jubile, cometh not into the account of the years of feven, but the fourty ninth is the releafe, and the fiftieth, the year of fubile, Thus is it also esteemed no small advancement unto this number, that the Genealogy of our Saviour is summed up by fourteen, that is, this number doubled; according as is expressed: So all the generations from Abraham to David are fourteen generations, and from David unto the carrying away into Babylon are fourteen generations; and from the carrying away into Babylon unto Christ are fourteen generations. Which nevertheless must not be strictly understood as numeral relations require : for from David unto Jeconiah are accounted by Matthew but fourteen generations; whereas according to the exact account in the History of Kings, there were at least seventeen; and three in this account, that is, Ahazias, Joas and Amazias are lest out. For fo it is delivered by the Evangelist: and foram begat Ozias; whereas in the Regal Genealogy there are three successions between : for Ozias or Uzziah was the Son of Amazias, Amazias of Joas, Joas of Azariah, and Azariah of Joram: fo that in strict account, Joram was the Abavus or Grand-father twice removed, and not the father of Ozias. And thefe fecondomitted Descents made a very considerable measure of time in the Royal Chronology of Judah: for though Azariah reigned but one year, yet foas reigned fourty, and Amazias no less than nine and twenty. However therefore these were delivered by the Evangelit, and carry (nodoubt) an incontroulable conformity unto the intention of his delivery :: are they not appliable unto precise numerality, nor strictly to bedrawn unto the rigid test of numbers.

Lastly, Though many things have been delivered by Authors concerning number, and they transferred unto the advantage of their nature, yet are they oft-times otherwise to be understood, than as they are vulgarly received in active and casual considerations, they being many times delivered Hieroglyphically, Metaphorically, Illustratively, and not with reference unto action or causality. True it is, that God made all things in number, weight and measure, yet nothing by them or

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through the efficacy of either. Indeed our daies, actions and motions being measured by time (which is but motion measured) what ever is obfervable in any, falls under the account of some number; which notwithstanding cannot be denominated the cause of those Events. So do we justly affign the power of Action even unto time it felf; nor do they speak properly, who say, That time consumeth all things; for Time is not effective, nor are bodies destroyed by it, but from the Action and Passion of their Elements in it; whose account it only affordeth: and measuring out their motion, informs us in the Periods and terms of their duration, rather than effecteth or Physically produceth the

De annis Climiraculis.

Bel. Lib. 5.

A second Consideration which promoteth this Opinion, are confirmatt ricisi. De mations drawn from Writers, who have made observations, or fet down occultis nature fevourable reasons for this Clima derical year; so have Henricus Ranzovius, Baptista, Codronchus, and Levinus Lemnius much confirmed the same; but above all, that memorable Letter of Augustus fent unto his Nephew Cains, wherein he encourageth him to celebrate his Nativity, for he had now escapedSixty three, the greatClimacterical and dangerous year unto man; which notwithstanding rightly perpended, it can be no fingularity to question it, nor any new Paradox to deny it.

For first, It is implicitely, and upon consequence denied by Aristotle in his Politicks, in that discourse against Plato, who measured the viciffitude and mutation of States, by a periodical farality of number. Ptelomie, that famous Mathematician, plainly faith, he will not deliver his doctrines by parts and numbers which are ineffectual, and have not the nature of causes; now by these numbers saith Rhodiginus and Mirandula. he implieth Climacterical years, that is Septenaries, and Novenaries fet down by the bare observation of numbers. Cenformes an Author of great authority, and sufficient antiquity, speaks yet more amply in his Book de die Natali, wherein exprelly treating of Climacterical dayes, he thus delivereth himself. Some maintain that seven times seven, that is, forty nine, is most dangerous of any other, and this is the most general opinion, others unto feven times feven, add nine times nine, that is, the year of eighty one, both which confifting of fquare and quadrate numbers, were thought by Plate and others to be of great confideration; as for this year of fixty three or feven times nine, though fome effeem it of most danger, yet do I conceive it less dangerous than the other; for, though it containeth both numbers above named, that is, feven and nine, yet neither of them square or quadrate; and as it is different from them both, so is it not potent in either. Nor is this year remarkable in the death of many famous Men. I find indeed that Arifforle died this year, but he by the vigour of his mind, along time fullained a natural infirmity of ftomach; fo that it was a greater wonder he attained unto fixty three, than that he lived no longer. The Pfalm of Mofes hath mentioned a year

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of danger differing from all these: and that is ten times seven or seventy; for so it is said, The dayes of man are threescore and ten. And the very same is affirmed by Solon, as Herodotus relates in a speech of his unto Crasus, Ego annis septuaginta humana vita modum definio. And surely that year must be of great danger, which is the Period of all the rest; and sewest safely pass thorow that, which is set as a bound for sew or none to pass. And therefore the consent of elder times, setling their conceits upon Climasters, not only differing from this of ours but one another; though several Nations and Ages do sancy unto themselves different years of danger, yet every one expects the same event, and constant verity in each.

Again, Though Varro divided the daies of man into five Portions, Hippocrites into feven, and Solon into ten; yet probably their divisions were to be received with latitude, and their confiderations not strictly to be confined unto their last unities. So when Varro extendeth Pueritia unto fitteen, Adolescentia unto thirty, Juventus unto thirty five. There is a latitude between the terms, of Periods of compute, and the verity holds good in the accidents of any years between them. So when Hippocrates divided our life into feven degrees or stages, and maketh the end of the first, Seven. Of the second fourteen. Of the third, twenty eight. Of the fourth, thirty five. Of the fifth, fourty feven. Of the fixth, fifty fix. And of the feventh, the last year when ever it happeneth, herein we may observe, he maketh not his divisions precisely by seven and nine, and omits the great Climacterical; beside, there is between every one at least the latitude of seven years, in which space or interval, that is, either in the third or fourth year, what ever falleth out is equally verified in the whole degree, as though it had happened in the feventh. Solon divided it into ten Septenaries, because in every one thereof, a man received some sersible mutation, in the first is Dedentition or falling of Teeth: in the second, Pubescence; in the third, the Beard groweth: in the fourth, Strength prevailes: in the fifth, Maturity for Issue; in the fixth moderation of Appetite; in the seventh Prudence, &c. Now herein there is a tolerable latitude, and though the division proceed by seven, yet is not the total verity to be restrained unto the last year; nor constantly to be expected the Beard should be compleat at twenty one, or wifdom acquired just in forty nine : and thus also though feven times nine, contain one of those septenaries, and doth also happen in our declining years; yet might the events thereof be imputed unto the whole feptenary; and be more reasonably entertained with some latitude, than strictly reduced unto the last number, or all the accidents from fifty fix imputed unto fixty three.

Thirdly, Although this opinion may feem confirmed by observation, and men may say it hath been so observed, yet we speak also upon experience and do believe that men from observation will collect no satisfaction. That other years may be taken against it, especially, if they have

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the advantage to precede it; as fixty against fixty three, and fixty three against fixty six. For sewer attain to the later, than the former; and so surely in the first Septenary do most die, and probably also in the very first year; for all that ever lived were in the account of that year; beside, the infirmities that attend it are so many, and the body that receives them so confirmed, we scarce count any alive that is not past it.

De catena tem-

Fabritius Paduanius discoursing of the great Climasterical, attempts a numeration of eminent men, who died in that year; but in fo small a number, as not sufficient to make a considerable induction. He mentioneth but four, Diogen's Cynicus, Dionysius Heracleoticus, Xenocrates Platonicus, and Plato. As for Dionysius, as Censorinus witnesseth, he famished himfel in the eighty fecond year of his life; Xenocrates by the testimony of Laertius fell into a Cauldron, and died the same year : and Diogenes the Cynick by the same testimony lived almost unto Ninety. The date of Plato's death is not exactly agreed on, but all diffent from this which he determineth: Neanthes in Laertius extendeth his daies unto eighty four, Suidas unto eighty two. But Hermippus defineth his death in eighty one. And this account feemeth most exact; for if, as he delivereth, Plato was born in the eighty eighth Olympiad, and died in the first year of the hundred and eight, the account will not surpass the year of eighty one, and so in his death he verified the opinion of his life, and of the life of Man, whole period, as Cenforinus recordeth, he placeth in the Quadrate of nine or nine times nine, that is, eighty one: and therefore, as Seneca delivereth, the Magicians at Athens did Sacrifice unto bim, as declaring in his death somewhat above humanity; because he died in the day of his Nativity, and without deduction justly accomplished the year of eighty one. Bodin, I confess, delivers a larger lift of men that died, in this year, Moriuntur

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I confels, delivers a larger list of men that died, in this year, Moriuntur innumero biles anno sexagesimo tertio, Aristoteles, Chrysippus, Bocatius, Bernardus, Erasmus, Lutherus, Melansthon, Sylvius, Alexander, Jacobus Sturmius, Nicolaus Cusanus, Thomas Linacer, eodem anno Cicero casus est. Wherein, beside that it were not difficult to made a larger Catalogue of memorable persons that died in other years, we cannot but doubt the verity of his induction. As for Sylvius and Alexander, which of that name he meaneth I know not; but for Chrysippus, by the testimony of Laertius, he died in the seventy third year, Bocatius in the sixty second, Linacer the sixty sourth, and Erasmus exceeded seventy, as Paulus Jovius hath delivered in his Elogy of learned men. And as for Cicero, as Plutarch in his life affirmeth, he was slain in the year of sixty sour; and therefore sure the question is hard set, and we have no easie reason to doubt, when great and entire Authors shall introduce injuttistable examples, and authorize their assertions by what is not Authentical.

Fourthiy, They which proceed upon strict numerations, and will by such regular and determined wayes measure out the lives of men, and periodically define the alterations of their tempers; conceive a regulari-

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ty in mutations, with an equality in constitutions; and forget that variety, which Physitians therein discover. For seeing we affirm that Women do naturally grow old before men, that the Cholerick fall short in longwity of the Sanguine, that there is senium ante senetturem, and many grow old before they arrive at age; we cannot affix unto them all one common point of danger, but should rather assign a respective satality unto each. Which is concordant unto the doctrine of the Numerists, and such as maintain this opinion: for they affirm, That one number reasspected Men, another Women, as Bodin, explaining that of Seneca, Septimus quiss, anuns at at signum imprimit, subjoins, Hoc de maribus distum oportuit, hoc primum intueri licet, Perfettum numerum; id est, sextum seminas, septenarium mares immutare.

Fifthly, Since we esteem this opinion to have some ground in nature, and that nine times seven Revolutions of the Sun, imprint a dangerous Character on such as arrive unto it; it will leave some doubt behind, in what subjection hereunto were the lives of our foresathers presently aster the slood, and more especiall before it; who attaining unto eight or nine hundred years, had not their Climacters computable by digits, or as we do account them: For, the great Climacterical was past unto them before they begat Children, or gave any testimony of their virility; for we read not that any begat children before the age of sixty sive. And this may also afforda hint to enquire, what are the Climacters of other animated creatures: whereof the lives of some attain not so far as this of

ours, and that of others extend a confiderable space beyond.

Lastly, The impersed accounts that men have kept of time, and the difference thereof both in the same and divers Commonwealths, will much distract the certainty of this affertion. For though there were a fatality in this year, yet divers were, and others might be out in their account, aberring several wayes from the true and just compute, and calling that

one year, which perhaps might be another.

For first, They might be out in the commencement or beginning of their account; for every man is many moneths elder than he computeth. For, although we begin the same from our Nativity, and conceive That no arbritrary, but natural term of compute; yet for the duration of life or existence, we participate in the Womb the usual distinctions of time; and are not to be exempted from the account of age and life, where we are subject to diseases, and often suffer death. And therefore Pythagoras, Hippocrates, Diocles, Avictuna and others, have set upon us numeral relations and temporal considerations in the Womb; not only affirming the birth of the seventh moneth to be vital, that of the eighth mortal, but the progression thereto, to be measured by rule, and to hold a proportion unto motion and formation. As what receiveth motion in the seventh, to be perfected in the Triplicities; that is, The time of conformation unto motion is double; and that from motion unto the birth, tre-

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ble; So, What is formed the thirty fifth day, is moved the feventy, and born the two hundred and tenth day. And therefore if any invisible caufality there be, that after so many years doth evidence it self at Sixty three, it will be questionable whether its activity only set out at our Nativity, and begin not rather in the Womb, wherein we place the like considerations. Which doth not only entangle this affertion, but hath already embroyled the endeavours of Astrology in the erection of Schemes, and the judgment of death or diseases; for being not incontroulably determined, at what time to begin, whether at conceptions, animation, or exclusion, (it being indifferent unto the influence of Heaven to begin at either) they have invented another way, that is, to begin ab Hora quastionis, as Halz;

Mesahallach, Ganivetus, and Guido Bonatus have delivered.

Again, In regard of the measure of time by months, and years, there will be no fmall difficulty; and, if we shall strictly consider it, many have been, and still may be mistaken. For, neither the motion of the Moon, whereby moneths are computed; nor of the Sun, whereby years are accounted, confifteth of whole numbers, but admits of fractions, and broken parts, as we have already declared concerning the Moon. That of the Sun confifteth of three hundred fixty five daies, and almost fix hours, that is, wanting eleven minutes; which fix hours omitted, or not taken notice of, will in process of time largely deprave the compute; and this is the occasion of the Bissextile or Leap-year, which was not observed in all times, nor punctually in all Common Wealths; so that in Sixty three years there may be lost almost eighteen dayes, omitting the intercalation of one day every fourth year, allowed for this quadrant, or fix hours fupernumerary. And though the same were observed, yet to speak strictly a man may be fomewhat out in the account of his age at Sixty three: for although every fourth year we infert one day, and so fetch up the quadrant, yet those eleven minutes whereby the year comes short of perfect fix hours, will in the circuit of those years arise unto certain hours; and in a larger progression of time unto certain daies. Whereof at present we find experience in the Calender we observe. For, the Julian year of three hundred fixty five daies being eleven minutes larger than the annual revolution of the Sun, there will arise an anticipation in the Equinoxes: Comment in and, as Junctinus computeth, in every one hundred thirty fixth year they

Comment in and, as Junctinus computeth, in every one hundred thirty fixth year they Spheram Job, will anticipate almost one day. And therefore those ancient men and New Sacro bosco. Stors of old times, which yearly observed their Nativities, might be missiated in the day. Nor that to be construed without a grain of Sale, which is delivered by Moses; At the end of four hun rea years, even the self same day, all the Host of Israel went out of the land of Agypt. For in that space of time the Equinoxes had anticipated, and the eleven minutes had amounted far above a day. And this compute rightly considered will

fall fowler on them who call up the lives of Kingdoms, and fum up their duration by particular numbers: as Plato first began, and some have en-

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deavonred fince by perfect and spherical numbers, by the square and Mat, Historcube of seven and nine and twelve, the great number of Plate. Wherein indeed Bodine hath attempted a particular enumeration, but (besides the mistakes committible in the Solary compute of years) the difference of Chronologie diffurbs the satisfaction and quiet of his computes, some adding, others detracting, and few punctually according to any other year : whereby indeed such accounts should be made up; for the variation in

an Unite destroyes the total illation.

Thirdly, The compute may be unjust not only in a strict acception, of few daies or hours, but in the latitude also of some years; and this may happen from the different compute of years in divers Nations, and even fuch as did maintain the most probable way of account: their year being not only different from one another, but the civil and common account disagreeing much from the natural year, whereon the consideration is founded. Thus for the testimony of Herodotus, Censorinus, and others, year what. the Greeks observed the Lunary year, that is, twelve revolutions of the Moon, three hundred fifty four dayes; but the Egyptians, and many others adhered unto the Solary account, that is, three hundred fixty five year wha. dayes, that is, eleven dayes longer. Now hereby the account of the one would very much exceed the other: A man in the one would account himself fixty three, when one in the other would think himself but fixty one; and so, although their Nativities were under the same hour, yet did they at different years believe the verity of that which both esteemed affixed and certain unto one. The like mistake there is, in a tradition of our daies; men conceiving a peculiar danger in the beginning daies of May, set out as a fatal period unto Consumptions and Chronical diseases; wherein notwithstanding we compute by Calenders, not only d fferent from our Ancestors, but one another; the compute of the one anticipating that of the other; fo that while we are in April, others begin May, and the danger is past unto one, while it beginneth with another.

Fourthly, Men were not only out in the number of some daies, the latitude of a few years, but might be wide by whole Olympiads and divers Decads of years: For as Cenforinus relateth, the ancient Arcadians observed a year of three months, the Carians of fix, the Iberians of four; and, as Diodo-rent account rus and Xenophon de Equivocis, alledgeth, the ancient Egyptians have used or measure of a year of three, two, and one moneth fo that the Clima Cterical was not only a year. different unto thoseNations, but unreasonably distant from ours ;f .r Sixty three will pass in their account, before they arrive so high as ten in ours. Nor, if we survey the account of Rome it self, may we doubt they were mistaken; and if they feared Climacterical years, might err in their numeration. For the civil year whereof the people took notice, did sometimes come short, and sometimes exceed the Natural. For, according to Varro, Suetonius, and Cenforinus, their year confisted first of ten moneths; which comprehended but 300 and four daies, that is, fixty one lefs than ours

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containeth; after by Numa or Tarquine from a superstitious conceit of imparity were added fifty one daies, which made three hundred fifty five, one day more than twelve revolutions of the Moon. And thus a long time it continued, the civil compute exceeding the natural; the correction whereof, and the due ordering of the Leap-year was referred unto the Pontifices; who either upon favour or malice, that some might continue their offices a longer or shorter time; or from the Magnitude of the year that men might be advantaged, or endamaged in their contracts, by arbitrary intercalations depraved the whole account. Of this abuse Cicero aceused Verres; which at last proceeded so far, that when Julius Cafar came anto that office, before the redrefs hereof, he was faint to infert two intercalary moneths unto November and December, when he had already inferted twenty three daies unto February; fo that, That year confifted of four hundred forty five daies, a quarter of a year longer than that we obferve: and though at the last the year was reformed; yet in the mean time they might be out wherein they fummed up Climacterical observations.

Lastly, One way more there may be of mistake, and that not unusual among us, grounded upon a double compute of the year; the one begining from the twenty fifth of March, the other from the day of our birth, unto the same again, which is the natural account Now hereupon many men frequently miscast their daies; for in their age they deduce the account, not from the day of their birth, but the year of our Lord wherein they were born. So a man that was born in January one thousand five hundred eighty two, if he live to fall fick in the latter end of March, one thousand six hundred fourty five, will sum up his age, and say, I am now fixty three, and in my Climacterical and dangerous year; for I was born in the year one thousand five hundred eighty two, and now it is one thoufand fix hundred fourty five, whereas indeed he wanteth many moneths of that year, confidering the true and natural account unto his birth; and counteth two moneths for a year; and though the length of time and accumulation of years do render the mistake insensible; yet is it all one, as if one born in January one thousand six hundred forty four, should be accounted a year old the twenty fifth of March one thousand six hundred forty five.

All which prepended, it may be easily perceived with what insecurity of truth we adhere unto this opinion: ascribing not only effects depending on the natural period of time unto arbitrary calculations, and fuch as vary at pleasure; but confirming our tenets by the uncertain account of others and our felves. There being no positive or indisputable ground where to begin our compute; that if there were, men have been several waies miltaken; the best in some latitude, others in greater, according to the different compute of divers States, the short and irreconcilable years of some, the exceeding error in the natural frame of others, and the lap-

fes and false deductions of ordinary accounts in most.

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Which duly confidered, together with a strict account and critical exname of reason, will also distract the witty determinations of Astrology. That Saturn the enemy of life comes, almost every seventh year, unto the quadrate or malevolent place, unto that where it begun : that as the Moon about every feventh day arriveth unto a contrary Sign, fo Saturn, which remaineth about as many years, as the Moon doth daies in one Sign, and holdeth the same confideration in years as the Moon in daies; doth cause these periculous Periods. Which together with other Planets, and profection of the Horoscope, unto the seventh House, or opposite Signs every feventh year; oppresseth living natures, and causeth observable mutations, in the State of Sublunary things.

Further fatisfaction may yet be had from the learned discourse of Sal- De annis Clis. masins lately published, if any desire to be informed how different the masterisis. present observations are from those of the ancients; how every one hath different Climactericals; with many other observables, impugning the

present opinion.

CHAP. XIII.

Of the Canicular or Dog-dayes.

Hereof to fpeak distinctly: among the Southern Constellations two there are which bear the name of the Dog; the one in fixteen degrees of Latitude, containing on the left thigh a Star of the first Magnitude, usually called Procyon or Antecanis, because, say some, it rifeth before the other; which if truly understood, must be restrained unto Jam Proceson those habitations, who have Elevation of Pole above thirty two degrees, fuerit & stella Mention thereof there is in Horace, who feems to mistake or confound the vefant Leonise. one with the other; and after him in Galen, who is willing, the remarkablest Star of the other should be called by this Name; because it is the first that ariseth in the Constellation; which notwithstanding, to speak strictly, It is not; unless we except one of the third Magnitude in the right paw in his own and our Elevation, and two more on his head in and: beyond the degree of fixty. A second and more considerable one there is, and neighbour unto the other, in forty degrees of Latitude, containing what the eighteen Starrs, whereof that in his mouth of the first Magnitude, the Dog. flar is. Greeks call zielo, the Latins Canis major, and we emphatically the Dog-Star,

Now from the rifing of this Star, not Cosmically, that is, with the Sun, but Heliacally, that is, its emersion from the raies of the Sun, the Ancients computed their Canicular daies; concerning which, there generally palleth an opinion, that, during those daies, all medication or use

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of Phylick is to be declined, and the cure committed unto nature. And therefore as though there were any feriation in nature, or Justitiums imaginable in professions, whose subject is natural, and under no intermissive. but constant way of mutation; this season is commonly termed the Phyfitians Vacation, and stands to received by most men. Which conceit however general, is not only erroneous, but unnatural, and, fublifting upon foundations either false, uncertain, mistaken, or misapplied, deserves, not

of mankind that indubitable affent it findeth.

For first, which feems to be the ground of this affertion, and not to be drawn into question, that is, the magnified quality of this Star conceived. to cause, or intend the heat of this season, whereby these daies become more observable than the rest; we find that wifer Antiquity was not of this opinion. For, seventeen hundred years ago it was as a vulgar error rejected by Geminus, a learned Mathematician in his Elements of Aftronomy; wherein he plainly affirmeth, that common opinion made that a cause, which was at first observed but as a sign. The rising and setting both of this Star and others, being observed by the Ancients, to denote and testifie certain points of mutation, rather than conceived to induce or effect the same. For our fore-fathers, saith he, observing the course of the Sun, and marking certain mutations to happen in his progress, through particular parts of the Zodiack, they registred and set them down in their Parapegms, or Astronomical Canons; and being not able to defign these times by daies, moneths, or years (the compute thereof, and the beginning of the year being different, according unto different Nations) they thought best to settle a general account unto all; and to determine these alterations by some known and invariable Signes; and such did they conceive the rifing and fetting of the fixed Stars; not afcribing thereto any part of causality, but notice and fignification. And thus much seems implied in that expression of Homer, when speaking of the Dog-star, he concludeth--- nandrde re offua returtas, Malum autem signum est ; The same, as Petavins observeth, is implied in the word of Ptolomy, and the Ancients, che monuagiar, that is, Of the fignification of Stars. The term of Scripture also favours it, as that of Isaiah, Nolite timere a signis coli; and that in Genesis, Ut sint in signa & tempora: Let there be Lights in the Firmament, and let them be for figns and for feafons.

The Primitive and leading magnifiers of this Star, were the Egyptians, the great admirers of Dogs in Earth and Heaven. Wherein they worshipped Anubis or Mercurius, the Scribe of Saturn, and Counsellor of Offris, the great inventor of their religious Rites, and Promotor of good unto Egypt. Who was therefore translated into this Star : by the Egyptians called Sothis, and Siris by the Ethiopians; from whence that Sirius or the Dogs-frar had its name, is by some con-

jectured.

And this they looked upon, not with reference unto heat, but Cœlestial

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Coelectial influence upon the faculties of man, in order to religion and a'l fagacious invention; and from hence derived the abundance and great fertility of Agypt, the overflow of Nilus happening about the ascent hereof. And therefore in Hieroglyphical Monuments, Anubis is described with a Dogs-head, with a Crocodile between his legs, with a sphere in his hand, with two Stars, and a water-pot standing by him; implying thereby, the riling and letting of the Dogs-star, and the inundation of

the River Nilus. But if all were filent, Galen hath explained this point unto the life : who expounding the reason why Hippocates declared the affections of the year by the rifing and fetting of Stars; It was, faith he, because he would proceed on Signs and Principles best known unto all Nations. And upon his words in the first of the Epidemicks, In thas Autummo circa Equinoxium & sub vigilias, pluvie erant multe, he thus enlargeth; If (faith he) the same compute of times and moneths were observed by all Nations, Hippogrates had never made any mention either of Arthurus, Pleiades, or the Dog-star; but would have plainly said, In Macedonia, in the moneth Dion, thus or thus was the ayr disposed. But for as much as the moneth Dion is only known unto the Masedonians, but obscure unto the Athenians and other Nations; he found more general diltinctions of time, and instead of naming moneths, would usually say, at the Equinox, the riling of the Pleiades, or the Dog-far. And by this way did the Ancients divide the feafons of the year, the Autumn, Winter, Spring, and Summer. By the rifing of the Pleiades, denoting the beginning of Summer, and by that of the Dog-flar, the declination thereof. How the An-By this way Aristotle through all his Books of Animals, distinguisheth tients divided their times of generation, latitancy, migration, fanity and venation, the feafons of And this were an allowable way of compute, and still to be retained, the year. were the fite of the Stars as inalterable, and their ascents as invariable as primitive Astronomy conceived them. And therefore though Aristotle frequently mentioneth this Star, and particularly affirmeth that Fishes in the Bosphorus are best catched from the arise of the Dog-star, we must not conceive the same a meer effect thereof. Nor though Scaliger from hence be willing to infer the efficacy of this Star, are we induced hereto; except, because the same Philosopher affirmeth, That Tunny is fat about the riling of the Pleiades, and departs upon Artturus, or that most insects are latent, from the fetting of the feven States; except, I say, he gives us also leave to infer, that these particular effects and alterations proceed from those Stars; which were indeed but designations of such quarters and portions of the year, wherein the same were observed. Now, what Pling affirmeth of the Orga, that it seemeth to adore this Star, and taketh notice thereof by voice and fernutation; until we be better

affured of its verity, we shall not salve the sympathy.

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Secondly, What flender opinion the Ancients held of the efficacy of this Star, is declarable from their compute. For, as Geminus affirmeth, and Petavius his learned Commentator proveth, they began their ac.

What the count from its Heliacal emersion, and not its Cosmical ascent. The Cosmical ascention of a Star we term that, when it ariseth together with the Co mical . Sun, or the same degree of the Ecliptick wherein the Sun abideth: and

What the that the Heliacal, when a Star which before, for the vicinity of the Sun, was cent of Stars not visible, being further removed, beginneth to appear. For the annual motion of the Sun from West to East, being far swifter than that of the fixed Stars, he must of necessity leave them on the East whilst he hastneth forward, and obscureth others to the west: and so the Moon who performs its motion swifter than the Sun, (as may be observed in their Conjunctions and Eclipses) gets Eastward out of his rayes, and appears when the Sun is fet. If therefore the Dog-star had this effectual heat which is ascribed unto it, it would afford best evidence thereof; and the season would be most fervent, when it ariseth in the probablest place of its activity, that is, the Cosmical ascent; for therein it ariseth with the Sun, and is included in the same irradiation. But the time observed by the Ancients was long after this afcent, and in the Heliacal emersion; when it becomes at greatest distance from the Sun, neither rising with it nor near it. And therefore, had they conceived any more than a bare fignality in this Star, or ascribed the heat of the season thereunto; they would not have computed from its Heliacal ascent, which was of inferiour efficacy; nor imputed the vehemency of heat unto those points wherein it was more remiss, and where with less probability they might make out its action.

as confirm not each other. For whereas they observed it Heliacally, we feem to observe it Cosmically; for before it ariseth Heliacally, unto our latitude, the Summer is even at an end. Again, we compute not only from different ascents, but also from divers Stars; they from the greater Dog-far, we from the leffer; they from Orion's, we from Cephalus his Dog; they from Scirius, we from Procyon; for the beginning of the Dog-daies with us, is fet down the nineteenth of July, about which time the leffer Dog-ftar arifeth with the Sun : whereas the Star of the greater Dog ascendeth not until after that moneth. And this mistake will yet be Bainb. Ca i- larger, if the compute be made stricter, and, as Dr. Bainbrigge late Professor of Astronomy in Oxford, hath set it down. Who in the year one thousand six hundred twenty nine, computed, that in the Horizon of Oxford, the Dog-star arose not before the fifteenth day of August; when in our Almanack-accounts, those daies are almost ended. So that the common and received time not answering the true compute, it frustrates the observations of our selves. And being also different from the calculations of the Ancients, their observations confirm not ours, nor ours theirs, but rather confute each other. Nor.

Thirdly, Although we derive the authority of these dayes from ob-

servations of the Ancients, yet are our computes very different, and such

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Nor will the computes of the Ancients be so Authentick unto those, who shall rake notice, how commonly they applied the Celestial descriptions of other climes, unto their own; wherein the learned Bainbridgius justly reprehendeth Manilius, who transferred the Egyptian descriptions unto the Roman account; confounding the observation of the Greek and Barbarick Spheres.

Fourthly, (which is the Argument of Geminus) were there any such effectual hear in this Star, yet could it not weakly evidence the fame in Summer; it being about forty Degrees distant from the Sun; and should rather manifest its warming power in the Winter, when it remains conjoyned with the Sun in its Hybernal conversion. For about the twenty ninth of October; and in the fixteenth of Scorpins, and to again in fanuary, the Sun performs his Revolution in the same parallel with the Dog-Star. Again, If we should impute the heat of this season, unto the cooperation of any Stars with the Sun, it feems more favourable for our times, to ascribe the same unto the Constellation of Leo. Where, b. sides that the Sun is in his proper House, it is conjoyned with many Starrs; whereof two of the first Magnitude; and in the eighth of August is c. rporally conjoyned with Basilisous; a Star of eminent name in Aftrebgy, and feated almost in the Ecliptick.

Fifthly, If all were granted, that observation and reason were also for n this State it, and were it an undeniable truth, that an effectual fervour proceeded from this Star; yet would not the same determine the opinion now in question; it necessarily suffering such restrictions as take off general illay; norm more to tions. For first, in regard of different latitudes, unto some the Canicular daies, are in the Winter; as unto fuch as have no latitude, but live in from ob a right Sphere, that is, under the Equinoctial Line; for unto them it ariseth when the Sun is about the Tropick in Cancer; which season unto them is Winter, and the Sun remotest from them. Nor hath the same t,and facility lacally, FR position in the Summer, that is, in the Equinoctial points, any advantage from it; for in the one point the Sun is at the Meridian, before the Dogfar arifeth; in the other the Star is at the Meridian, before the Sun

afcendeth. Some latitudes have no Canicu'ar daies at all, as namely all those which have more than Seventy three Degrees of Northern Elevation; as the Ter-tudes hav no ritory of Nova Zembla, part of Greenland and Tartary, for unto that has Dog-daies bitation the Dog far is invisible, and appeareth not above the Horizon, all.

Unto fuch latitudes as it arifeth, it carrieth a various and a very different respect; unto some it ascendeth when Summer is over, whether we compute Heliacally or Cosmically; for though unto Alexandria it arifeth in Cancer, yet it ariseth not unto Biarmia Cosmically before it be in Virgo, and Heliacally about the Autumnal Equinox. Even unto the latitude of fifty two, the efficacy thereof is not much confiderable, Whether we confider its afcent, Meridian altitude or abode above

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the Horizon. For it arifeth very late in the year, about the eighteenth of Leo, that is, the one and thirtieth of July. Of Meridian Altitude it hath but twenty three degrees, fo that it plaies but obliquely upon us, and as the Sun dorh about the twenty third of January. And lattly, his abode above the Horizon is not great ; for in the eighteenth of Leo, the one and thirtieth of July, although they arise together; yet doth it set above five hours before the Sun, that is, before two of the Clock, after which time we are more fensible of heat, then all the day before.

Secondly, In regard of the variation of the longitude of the Stars, we are to confider (what the Ancients observed not) that the fite of the

a star is.

fixed Stars is alterable, and that fince elder times they have fuffered a What the large and confiderable variation of their longitudes The longitude of Longitude of a Star; to speak plainly, is its distance from the first point of Numeration toward the East; which first point unto the Ancients was the Vernal Equinox. Now by reason of their motion from west to East, they have very much varied from this point: the first Star of Aries in the time of Meton the Athenian was placed in the very intersection, which is now elongated and removed Eastward twenty eight Degrees; infomuch, that now the Sign of Aries possesseth the place of Taurns and Taurus that of Gemini. Which variation of longitude must very much distract the opinion of the Dog-star, not only in our daies, but in times before and after; for fince the World began it hath arisen in Taurus, and if the World last, may have its ascent in Virgo; so that we must place the Canicular dayes, that is, the hottest time of the year in the Spring

in the first Age, and in the Autumn in Ages to come.

Thirdly, The Starrs have not only varied their longitudes, whereby What the their afcents have altered; but have also changed their Declinations, declination of whereby their rifing at all, that is, their appearing hath varied. The Deas aris. clination of a Star, we call its shortest distance from the Equator. Now though the Poles of the World and the Equator, be immoveable, yet because the Starrs in their proper motion from West to East, do move upon the Poles of the Ecliptick, distant twenty three Degrees and an half

from the Poles of the Equator, and describe circles parallel nor unto the Equator but the Ecliptick; they must be therefore sometimes nearer, fometimes removed further from the Equator. All Starrs that have their distance from the Ecliptick Northward not more than twenty three Degrees and an half (which is the greatest distance of the Ecliptick from the Equator) may in progretion of time have declination Southward, and move beyond the Equator: but if any Star hath just this diffance of twenty three and an half (as hath Capella on the back of Ericthonius) it may hereafter move under the Equinoctial; and the same will happen respectively unto Stars which have Declination Southward. And therefore

many Starrsmay be visible in our Hemisphere, which are not so at pretent and many which are at present, shall take leave of our Horizon, and

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at at MIN. apyear unto Southern habitations. And therefore the time may come that the Dog-star may not be visible in our Horizon, and the time hath been, when it hath not shewed it self unto our neighbour Latitudes. So that Canicular dayes there have been none, nor shall be; yet certainly in all times, fome feafon of the year more notably hot than

Laftly, We multiply causes in vain; and for the reason hereof, we need not have recourse unto any Star but the Sun, and continuity of its action. For the Sun ascending into the Northern Signs, begetteth first a temperate heat in the ayr; which by his approach unto the Solflice he intendeth; and by continuation increaseth the same even upon Declination. For running over the same Degrees again, that is, in Lo, which he hath done in Taurus, in July which he did in May; he aug- Dog daies be menteth the heat in the latter which he began in the first; and easily so hot. intendeth the fame by continuation which was well promoted before. So is it observed, that they which dwell between the Tropicks and the Equator, have their second Summer hotter and more maturative of fruits than the former. So we observe in the day, (which is a short year) the greatest heat about two in the afternoon, when the Sun is past the Meridian (which is his diurnal Solftice) and the same is evident from the Thermometer or observations of the Weather-glass. So are the colds of the night sharper in the Summer about two or three after midnight, and the Frosts in Winter stronger about those hours. So likewise in the year we observe the cold to augment, when the daies begin to increase, though the Sun be then ascentive, and returning from the Winter Tropick. And therefore if we rest not in this reason for the Heat in the declining part of Summer, we must discover freezing Stars that may resolve the latter colds of Winter; which whoever defires to invent, let him study the Starrs of Andromeda, or the nearer Constellation of Pegajus which are about that time Ascendent.

It cannot therefore feem strange, or savour of singularity that we have examined this point, Since the same hath been already denied by some; fince the authority and observations of the Ancients rightly understood, do not confirmit; fince our present computes are different from those of the Ancients, whereon notwithstanding they depend; since there is reason against it : and, if all were granted, yet must it be maintained with manifold restraints, far otherwise than is received. And lastly, since from plain and natural principles, the doubt may be fairly falved, and not clapt up from petitionary foundations and principles unestabli-

fhed. But that which chiefly promoted the confideration of these dayes, and medically advanced the same, was the Doctrine of Hippocrates; a Phyfician of fuch repute, that he received a testimony from a Christian, that might have been given unto Christ. The first in his book, de Aere,

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Qui nec falle Aquis, & locis, Syderum oreus, &cc. That is, we are to observe the rising,

To potest, nec of Stars, especially the Dogftar, arthurus, and the setting of the Pleide or feven Stars. From whence notwith standing we cannot infer the gene ral efficacy of these Stars; or co-efficacy particular in medications. Pro bably expressing no more hereby, than if he should have plainly faid. Especial notice we are to take of the hottest time in Summer, of the beginning of Autumn and Winter; for by the rifing and fetting of thole Difeases com- Stars were these times and seasons defined. And therefore subjoyns this b. reason, Quoniam his tempo ibus morbi finiuntur, because at these times what feafons, difeafes have their ends; as Physicians well know, and he elfewhere affirmeth, That seasons determine Diseases, beginning in their contraries; as the Spring the diseases of Autumn, and the Summer those of Winter, Now (what is very remarkable) whereas in the same place he adviseth to observe the times of notable inutations, as the Equinoxes, and the Solftices, and to decline Medication ten daies before and after; how precifely foever canicular cau ions be confidered, this is not observed by Physicians, nor taken notice of by the People. And indeed should we blindly obey the restraints both of Physicians and Astrologers, we should contract the liberty of our prescriptions, and confine the utility of Phyfick unto a very few daies For, observing the Dog-daies, and as is expressed, some daies before, likewise ten daies before and after the Equinoxial and Solffitial Points; by this observation alone are exempted an hundred dates. Whereunto if we add the two Egyptian dates in every moneth, the interlunary and plenilunary exemptions, Eclipses of Sun and Moon, Conjunctions and Oppositions Planetical, the Houses of Planets, and the fite of the Luminaries under the fignes (wherein fome would induce a restraint of Purgation or Phlebotomy) there would arise above an hundred more; so that of the whole year the use of Physick would not be secure much above a quarter. Now, as we do not strictly observe these daies, so need we not the other; and although consideration be made hereof yet must we prefer the nearer indication, before those which are drawn from the time of the year; or other Coelestial rela-

> The second Testimony is taken out of he last piece of his Age, and after the experience (as some think) of no less than an hundred years, that is, his book of Aphorisms, or short and definite determinations in Physick. The Aphorism alledged is this, Sub Cane & ante Canem difficiles funt pu gationes. Sub Cane & Anticane, fay fome, including both the Dog-stars, but that cannot consist with the Greek: ind nura no ord nurds, nor had that Criticism been ever omitted by Galen. Now how true this sentence was in the mouth of Hippocrates, and with what restraint it must be understood by us, will already appear from the difference between us both, in circumstantial relations.

And first, Concerning his time and Chronology; he lived in the

When Hip-

reign of Atarxerxes Longimanus, about the eighty second Olympiad, four hundred and fifty years before Chrit; and from our times above two poerates lived. thousand. Now fince that time (as we have already declared) the Starrs have varied their Long tudes, and having made large progressions from West to East, the time of the Dog-stars ascent must also very much alter. For it arileth later now in the year, than it formerly did in the same latitude; and far later unto us who have a greater elevation; for in the daies of Hippocrates this Star ascended in Cancer which now ariseth in Leo; and will in progression of time arise in Virgo. And the efore in regard of the time wherein he lived, the Aphorism was more considerable in his daies than in ours, and in times far past than present, and in his Coun-

try than ours.

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The place of his Nativity, was Cos, an Island in the Myrtoan Sea, not far from Rhodes, described in Maps by the name of Lango, and called by the Turks who are Masters thereof, Stanfora; according unto Ptolomy, of Northern latitude thirty fix degrees. That he lived and writ in these parts is not improbably collected from the Epistles that passed betwixt him and Artaxerxes; as also between the Citizens of Abdera, and Coos, in the behalf of Democritus. Which place being feated from our Latitude of fifty two, fixteen degrees Southward, there will arife a different confideration; and we may much deceive our selves if we conform the ascent of Stars in one place unto another, or conceive they arise the fame day of the moneth in Coos and in England. Fot, as Petavius computes in the first Julian year, at Alexandria of Latitude thirty one, the Star arose Cosmically in the twelfth degree of Cancer, Heliacally the twenty fixth; by the compute of Geminus about this time at Rhodes of Latitude thirty feven, it ascended Cosmically the fixteenth of Cancer, Heliacally the first of Leo; and about that time at Rome of Latitude forty two, Cosmically the twenty second of Gancer, and Heliacolly the first of Leo. For unto places of greater Latitude it rifeth ever later; fo that in some Latitudes the Cosmical ascent hapneth not before the twentieth Degree of Virgo, ten daies before the Autumnal Equinox, and, if they compute Heliacally, after it, in Libra.

Again, Should we allow all, and onely compute unto the Latitude of Coos; yet would it not impose a total omission of Physick. For if in the hottest season of that Clime, all Physick were to be declined, then furely in many other none were to be used at any time whatsoever; for unto many parts, not only in the Spring and Autumn, but also in the Winter the Sun is nearer, than unto the Clime of Coos in the Sum-

The third Consideration concerneth Purging Medicines, which are at present far different from those implied in this Aphorism, and such grees of Pure as were commonly used by Hippocrates. For three Degrees we make gations. of Purgative Medicines: The first thereof is very benign, nor far re-

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moved from the nature of Aliment, into which, upon defect of working it is oft-t mes converted; and in this form do we account Manna, Caffia, Tama indes, and many more; whereof we find no mention in Hippocrates. The second is also gentle, having a familiarity with some humor, into which it is but converted if it fail of its operation : of this fort are Aloes, Rhabarb, Senna, &c. whereof also few or none were known unto Hipfocrates. The third is of a violent and venemous quality, which, frustrate of its action, affumes as it were the nature of Poyfon; fuch as are Scamonium, Colocynthis, Elaterium, Euphorbium, Tithymallus, Laureola, Peplum, &c. Of this fort it is manifelt Hippocrates made use, even in Fevers, Pleurifies, and Quinfies; and that composition is very remarkable which is afcribed unto Diogenes in Etius ; that is of Pepper, Sal Armo-Tetrab. lib. 1. niack, Euphorbium, each an ounce, the Dosis whereof four scruples and an half, which who foever should take, would find in his bowels more than a canicular heat, though in the depth of winter; many of the like nature may be observed in Etins, or in the book De dinamidiis, ascribed unto

Galen, which is the same verbatim with the other.

Now in regard of the fecond, and especially the first degree of Purgatives, the Aphorism is not of force; but we may fafely use them, they being benignand of innoxious qualities. And therefore Lucas Goricus, who hath endeavoured with many teltimonies to advance this confideration, at length concedeth that lenitive Physick may be used, especially when the Moon is well affected in Cancer, or in the watery Signs. in regard of the third Degree the Aphorism is considerable : purgations may be dangerous; and a memorable example there is in the medical Epifiles of Crucius, of a Roman Prince that died upon an ounce of Diaphanicon, taken in this feafon. From the use whereof we refrain not only in hot feafons, but warily exhibit it at all times in hot difeafes : Which when necessity requires, we can perform more safely than the Ancients, as having better wayes of preparation and correction; that is, not only by addition of other bodies, but separation of noxious parts from their own.

But beside these differences between Hippocrates and us, the Physicians of these times and those of Antiquity; the condition of the disease, and the intention of the Physician, hold a main consideration in what time and place foever. For Phyfick is either curative or preventive; Preventive we call that, which by purging noxious humours, and the caules of difeases, preventeth sickness in the healthy, or the recourse thereof in the valetudinary; this is of common use at the Spring and Fall, and Therapentick or curative we commend not the same at this season.

Difeafes Chro Phylick, we term that, which restoreth the Patient unto Sanity, and taknical and A eth away Difeafes actually affecting. Now of difeafes fome are Chro cute what nical and of long duration, as quartane Agues, Scurvy, &c. Wherein because they admit of delay we defer the cure to more advantagious sea

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fons: Others we term Acute, that is, of short duration and danger, as Fevers, Pleurifies, &c. In which, because delay is dangerous, and they arise unto their state before the Dog-daies determine; we apply present remedies according unto Indications; respecting rather the acuteness of the difease, and precipitancy of occasion, than the rising or setting of Starrs; the effects of the one being disputable, of the other affored and inevitable.

And although Astrology may here put in, and plead the fecret influ- Strong Purence of this Star; yet Galen in his Comment, makes no fuch confidera- gations not fo tion; confirming the truth of the Aphorism from the heat of the year; well given in and the operation of Medicines exhibited. In regard that bodies being the heat of heated by the Summer, cannot fo well endure the acrimony of purging why. Medicines; and because upon purgations contrary motions ensue, the heat of the ayr attracting the humours outward, and the action of Medicine retracting the same inward. But these are readily salved in the distinctions before alledged; and particularly in the constitution of our Climate and divers others, wherein the ayr makes no fuch exhaustion of spirits. And in the benignity of our Medicines; whereof some in their own natures, others well prepared, agitate not the humours, or make

a sensible perturbation.

Nor do we hereby reject or condemn a fober and regulated Aftrology; we hold there is more truth therein than in Aftrologers; in some more than many allow, yet in none fo much as some pretend. We deny not the A Problem, Influence of the Stars, but often suspect the due application thereof: for though we should affirm, that all things were in all things; that Heaven were but Earth Celestified, and Earth but Heaven terestrified, or that each part above had influence upon its divided affinity below: yet how to fingle out these relations, and duly to apply their actions, is a work oft-times to be effected by some revelation, and Cabala from above, rather than any Philosophy, or speculation here below. What power soever they have upon our bodies, it is not requifite they should destroy our Reasons, that is, to make us rely on the strength of Nature, when the is least able to relieve us; and when we conceive the Heaven against us, to refuse the assistance of the Earth created for us. This were to fuffer from the mouth of the Dog above, what others do from the teeth of Dogs below; that is, to be affraid of their proper remedy, and refuse to approach any water, though that hath often proved a cure unto their Upon the bi-Difease. There is in wise men a power beyond the Starrs; and Ptolomy dog there enencourageth us, that by fore-knowledg, we may evade their actions; for fues a Hydrobeing but Universal causes, they are determined by particular agents; phobia or sear which being inclined, not constrained, contain within themselves, the of water, casting act, and a power to command the conclusion.

Lattly, If all be conceded, and were there in this Aphorism an unrefrained truth, yet were it not reasonable to inferr from a Caution a

non-ulance or abolition, from a thing to be used with discretion, not to be used at all. Because the Apostle bids us beware of Philosophy, heads of extremity will have none at all, an usual fallacy in vulgar and less distinctive brains, who having once overshot the Mean, run violently

on, and find no rest but in the Extreams.

Now hereon we have the longer infifted, because the Errour is material, and concerns oft-times the life of Man; an Errour to be taken notice of by the State, and provided against by Princes, who are of the opinion of Solomon, that their riches confilt in the multitude of their fub-A Physitian ger to the Body, then they pass the Soul Merefies, and of greater dan-A Phylitian ger to the Body, than they unto the Soul, which who foever is able to agros Autumno reclaim, he shall save more in one Summer than Themison destroyed in occiderie uno. any Autumn : he shall introduce a new way of cure, preserving by Theory, as well as Practice, and Men not only from death, but from destroying themselves.

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THE

FIFTH BOOK

Of many things questionable as they are commonly described in Pictures.

CHAP. I.

Of the Picture of the Pelican

Nd first in every place we meet with the picture of the Pelican, opening her breft with her bill, and feeding her young ones with the blood distilling from her. Thus is it set forth not only in common figns, but in the Creft and Scutcheon of many Noble Families; hath been afferted by many holy Writers, and was an Hierogliphick of piety and pity among the Agyptians; on which confideration,

they spared them at their Tables.

Notwithstanding upon enquiry we find no mention hereof in Antient Zodiographers, and such as have particularly discoursed upon Animals, as Arifforle, Elian, Pliny, Solinus, and many more; who seldome forget proprieties of fuch a nature, and have been very punctual in less confiderable Records. Some ground hereof I confess we may allow, nor need we deny a remarkable affection in Pelicans toward their young; for Elian discoursing of Storks, and their affection toward their Brood, whom they instruct to flie, and unto whom they re-deliver up the provision of their bellies, concludeth at last, that Herons and Pelicans do the like.

As for the testimonies of Antient Fathers, and Ecclesiastical Writers, we may more safely conceive therein some Emblematical than any real Story: so doth Encharing confess it to be the Embleme of Christ. And we

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are unwilling literally to receive that account of ferome, that perceiving her young ones destroyed by Serpents, she openeth her side with her bill, by the blood whereof they revive, and return unto life again. By which relation they might indeed illustrate the destruction of man by the old Serpent, and his restorement by the blood of Christ: and in this iense we shall not dispute the like relations of Austine, Isilore, Albertus, and many more: and under an Emblematical intention, we accept it in coat-armour.

As for the Hieroglyphick, of the Egyptians, they erected the same upon another consideration, which was parental affection; manifested in the protection of her young ones, when her neast was set on sire. For as for letting out her blood, it was not the affertion of the Egyptians, but seems translated unto the Pelican from the Vulture, as Pierius hath plainly delivered. Sed guod Pelicanum (ucetiam alies plerisque persuasum est) rostro pettus dissecuntem pingunt, ita ut suo sanzuine silios alat, ab Agyptiorum historia valde alienum est, illi enim vulturem tanum id facere tradiderunt.

The bigness of a Pelican.

Of her Crop.

And laftly, as concerning the picture, if naturally examined, and not Hierogliphically conceived, it containeth many improprieties, difagreeing almost in all things from the true and proper description. For, whereas it is commonly fet forth green or yellow, in its proper colour, it is inclining to white; excepting the extremities or tops of the wing-feathers, which are black. It is described in the bigness of a Hen, whereas it approacheth, and fometimes exceedeth the magnitude of a Swan. It is commonly painted with a short bill; whereas that of the Pelican attaineth sometimes the length of two spans. The bill is made acute, or pointed at the end; whereas it is flat and broad, and somewhat inverted at the extream. It is described like fillipedes, or birds which have their feet or claws divided; whereas it is palmipedous, or fin-footed like Swans and Geele; according to the method of nature, in latiroffrous or flat-bill'd birds; which being generally fwimmers, the organ is wifely contrived unto the action, and they are framed with fins or oars upon their feet; and therefore they neither light, not build on trees, if we except Cormorants, who make their nearts like Herons. Lastly, There is one part omitted more remarkable than any other, that is, the chowle or crop adhering unto the lower fide of the bill, and fo descending by the throat : a bag or sachel very observable, and of a capacity almost beyond credit; which notwithstanding, this animal could not want; for therein it receiveth Oysters, Cochels, Scollops, and other testaceous animals; which being not able to break, it retains them untill they open, and vomiting them up, takes out the mear contained. This is that part preserved for a rarity, and wherein (as Santtins delivers) in one desected, a Negro child was found. As for the tellimonies of Autlent F

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CHAP, II.

Of the Picture of Dolphins?

Hat Dolphins are crooked, is not only affirmed by the hand of the Painter, but commonly conceived their natural and proper figure; which is not only the opinion of our times, but seems the belief of elder times before us. For, beside the expressions of Ovid and Pliny, their Pourtraicts in some antient Coins are framed in this figure, as will appear in some thereof in Gesner, others in Goltsius, and Levinus Hulsius in his description of Coins, from Julius Casar unto Rhodnlphus the second.

Notwithstanding, to speak strictly in their natural figure, they are streight, nor have their spine convexed, or more considerably embowed, than Sharks, Porpoises, Whales, and other Cetaceous animals, as Scaliger plainly affirmeth: Corpus habet non magis curvum quam reliqui pisces. As ocular enquiry informeth; and as unto such as have not had the opportunity to behold them, their proper pourtraicts will discover in Rhondeletins, Gesner, and Aldrovandus. And as indeed is deducible from pictures themselves; for though they be drawn repandous, or convexedly crooked in one piece, yet the Dolphin that carrieth Arion, is concavously inverted, and hath its spine depressed in another. And answerably hereto may we behold them differently bowed in medals, and the Dolphins of Tarus and Fulius do make another sexure from that of Commodus and Agrippa.

And therefore what is delivered of their incurvity, must either be taken Emphatically, that is, not really, but in appearance; which happeneth when they leap above water, and suddenly shoot down again; which is a fallacy in vision, whereby straight bodies in a sudden motion protruded obliquely downward, appear unto the eye crooked; and this is the construction of Bellowins. Or if it be taken really, it must not universally and perpetually; that is, not when they swim and remain in their proper figures, but only when they leap, or impetuously whirl their bodies any way; and this is the opinion of Gesnerus. Or lastly, It must be taken neither really not emphatically, but only emblematically: for being the Hierogliphick of celerity, and swifter than other animals, men best expressed their velocity by incurvity, and under some figure of a bow: and in this se se probably do Heralds also receive it, when from a Dolphin extended, they diffinguish a Dolphin embowed.

And thus also must that picture be taken of a Dolphin classing an Anchor: that is, not really, as is by most conceived out of affection unto man, conveying the Anchor unto the ground: but emblematically, according as Pierins hathrexpressed it, The swiftest animal conjoyed with that heavy body, implying that common moral, Festina lente: and that celerity should alwaies be contempered with cunctation.

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CHAP. III.

Of the Pisture of a Grashopper.

There is also among us a common description and picture of a Grash-hopper, as may be observed in the pictures of Emblematists, in the coats of several Families, and as the word Cisada is usually translated in Dictionaries. Wherein to speak strictly, if by this word Grashopper, we understand that animal which is implyed by rirrie, with the Greeks, and by Cicada with the Latines; we may with safety affirm the picture is widely mistaken, and that for ought enquiry can inform, there is no such insect in England. Which how paradoxical soever, upon a strict enquiry, will prove

undeniable truth.

For first, That animal which the French term Sauterelle, we a Grashopper, and which under this name is commonly described by us, is named Anges by the Greeks, by the Latines Locusta, and by our selves in proper speech a Locast; as in the diet of John Baptist, and in our traslation, the Locufts have no King, yet go they forth all of them by bands. Again, Between the Cicada and that we call a Grashopper, the differences are very many, as may be observed in themselves, or their descriptions in Matthioins, Aldrovandus and Mufferus. For first, They are differently cucullated or capuched upon the head and back, and in the Cirada the eyes are more prominent: the Locusts have Antenne or long horns before, with a long falcation or forcipated tail behind; and being ordained for faltation, their hinder legs do far exceed the other. The Locust or our Grashopper hath teeth, the Cicada none at all; nor any mouth according unto Aristotle; the Cicada is most upon trees; and lastly, the fritinnitus or proper note thereof, is far more shril than that of the Locust; and its life so short in Summer, that for provision it needs not have recourse unto the providence of the Pismire in Winter.

And therefore where the Cicada must be understood, the pictures of Heralds and Emblematists are nor exact, nor is it safe to adhere unto the interpretation of Dictionaries; and we must with candour make out our own Translations: for in the plague of Egypt, Exodus 10. The word Amic is translated a Locust, but in the same sense and subject, Wisdome 16. It is translated a Grashopper; for them the bitings of Grashoppers and Flies killed: whereas we have declared before, the Cicada hath no teeth, but is conceived to hve upon dew; and the possibility of its subsistence is disputed by Liceum. Hereof Pperceive Musseum hath taken notice, dissenting from Langius and Lycostenes, while they deliver, the Cicada's destroyed the fruits in Germany, where that insect is not found; and therefore concludeth, Tam ipso quam alios deceptos suite amumo, dum locustus cicadas

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And hereby there may be some mistake in the due dispensation of Medicines desumed from this animal; particularly of Diatettigon commended by Atias in the affections of the kidneys. It must be likewise understood with some restriction what hath been affirmed by Isidore, and yet delivered by many, that Cicades are bred out of Cuccow-spittle or Woodsear; that is, that spumous, frothy dew or exudation, or both, sound upon Plants, especially about the joynts of Lavinder and Rosemary, observable with us about the later end of May. For here the true Cicada is not bred, but certain it is, that out of this, some kind of Locust doth proceed; for herein may be discovered a little insect of a seffucine or pale green, resembling in all parts a Locust, or what we call a Grashopper.

Lastly, The word it self is improper, and the term of Grashopper not appliable unto the Cicada; for therein the organs of motion are not contrived for saltation, nor are the hinder legs of such extension, as is observable in salient animals, and such as move by leaping. Whereto the Locust is very well conformed; for therein the legs behind are longer than all the body, and make at the second joynt acute angles, at a considerable advancement

above their backs.

The mistake therefore with us might have its original from a defect in our language; for having not the insect with us, we have not fallen upon its proper name, and so make use of a term common unto it and the Locust; whereas other Conntreys have proper expressions for it. So the Italian calls it Cicada, the Spaniard Cigarra, and the French Cigale; all which appellations conform unto the Original, and properly express this animal.

CHAP. IV.

Of the piaure of the Serpent tempting Eve.

IN the Picture of Paradise, and delusion of our first Parents, the Serpent is often described with humane visage; not unlike unto Cadmus or his wise, in the act of their Metamorphosis. Which is not a meet pictorial contrivance or invention of the Picturer, but an antient tradition and conceived reality, as it stands delivered by Beda and Authors of some antiquity; that is, that Sathan appeared not unto Eve in the naked form of a Serpent, but with a Virgins head, that thereby he might become more acceptable, and his temptation find the easier entertainment. Which nevertheless, is a conceit not to be admitted, and the plain and received figure, is with better reason embraced.

For first, as Pierius observeth from Barcephas, the assumption of humane shape hath proved a disadvantage unto Sathan; affording not only a sufficious amazement in Eve, before the fact, in beholding a third humanity beside her self and Adam; but leaving some excuse unto the Woman,

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which afterward the man took up with leffer reason; that is, to have been

deceived by another like her felf.

Again, there was no inconvenience in the shape assumed, or any confiderable imped ment that might disturb that performance in the common form of a Serpent. For whereas it is conceived, the woman must needs be afraid thereof, and rather flie than approach it; it was not agreeable unto the condition of Paradife and state of innocency therein; if as in that place as most determine, no creature was hurtful or terrible unto man, and those destructive effects they now discover succeeded the curse, and came in with thorns and briars. And therefore Eugubinus (who affirmeth this Serpent was a Bafilisk) incurreth no abfurdity, not need we infer that Eve should be destroyed immediately upon that Vision. For noxious animals could offend them no more in the Garden, than Noah in the Ark: as they peaceably received their names, so they friendly possessed their natures: and were their conditions destructive unto each other, they were not fo unto man, whose constitutions then were antidotes, and needed not fear poyfons. And if (as most conceive) there were but two created of every kind, they could not at that time destroy either man or themselves; for this had frustrated the command of multiplication, destroyed a species, and imperfected the Creation. And therefore also if Cain were the first man born, with him entred not only the act, but the first power of Murther; for before that time, neither could the Serpent nor Adam destroy Eve, nor Adams and Eve each other; for that had overthrown the intention of the World. and put its Creator to act the fixt day over again.

Moreover. Whereas in regard of speech, and vocal conference with Eve, it may be thought he would rather assume an humane shape and organs, than the improper form of a Serpent; it implyes no material impediment. Nor need we to wonder how he contrived a voice out of the mouth of a Serpent, who hath done the like out of the belly of a Pythoniffa, and

the trunk of an Oke; as he did for many years at Dodona.

Lastly, Whereas it might be conceived that an humane shape was fitter for this enterprise; it being more than probable she would be amazed to hear's Serpent speak; some conceive she might not yet be certain that only man was priviledged with speech; and being in the novity of the Creation, and in experience of all things, might not be affrighted to hear a Serpent (peak. Befide, the might be ignorant of their natures, who was not verfed in their names, as being not prefent at the general survey of Animals, when Adam affigned unto every one a name concordant unto its nature. Nor is this only my opinion, but the determination of Lombard and Toffians; and also the reply of Cyril unto the objection of Julian, who compared this flory unto the fables of the Greeks.

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Of the Pisture of Adam and Eve with Navels.

Nother mistake there may be in the Picture of our first Parents, who Lafter the manner of their posterity, are both delineated with a Navel. And this is observable not only in ordinary and stained pieces, but in the Authentick draughts of Urbin Angelo and others: Which notwithstanding cannot be allowed, except we impute that unto the first cause, which we impose not on the second; or what we deny unto nature, we impute unto naturity it felf; that is, that in the first and most accomplished piece, the Creator affected superfluities, or ordained parts without use or office.

For the use of the Navel is to continue the Infant unto the Mother, and What the Naby the vessels thereof to convey its aliment and sustentation. The vessels whereof it confifteth, are the umbilical vein, which is a branch of the Porta, and implanted in the Liver of the Infant; two Atteries likewife arifing from the Illiacal branches, by which the Infant receiveth the purer portion of blood and spirits from the Mother; and lastly, the Urachos or ligamental passage derived from the bottom of the bladder, whereby it dischargeth the waterish and urinary part of its aliment. Now upon the birth, when the Infant forfaketh the womb, although it dilacerate, and break the involving membranes, yet do these vessels hold, and by the mediation thereof, the Infaut is connected unto the womb, not only before, but a while also after the birth. These therefore the Midwife cutteth off, contriving them into a knot close unto the body of the Infant; from whence ensueth that tortuepe and hty or complicated nodofity we usually call the Navel; occasioned by the colligation of vessels before mentioned. Now the Navel being a part, not precedent, but subsequent unto generation, nativity or parturition, it can- That Adam who immediately flined from the Arrifice of God por also that of Fair no Navels. who immediately issued from the Artifice of God; nor also that of Eve; who was not folemnly begotten, but suddenly framed, and anomalously proseeded from Adam.

And if we be led into conclusions that Adam had also this part, because we behold the same in our selves, the inference is not reasonable; for if we conceive the way of his formation, or of the first animals, did carry in all points a strict conformity unto succeedings productions, we might fall into imaginations that Adam was made without Teeth, or that he ran through those notable alterations in the vessels of the heart, which the Infant suffereth after birth : we need not dispute whether the egg or bird were first : and might conceive that Dogs were created blind, because we observe they are litered to with us. Which to affirm, is to confound, at least to regulate creation unto generation, the first Acts of God, unto the second of Nature; which were determined in that general indulgence, Encrease and Multiply,

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produce or propagate each other; that is, not answerably in all points, but in a prolonged method according to feminal progression. For the formation of things at first was different from their generation after; and although it had nothing to precede it, was aptly contrived for that which should succeed it. And therefore though Adam were framed without this part, as having no other womb than that of his proper principles, yet was not his posterity without the same : for the seminality of his fabrick contained the power thereof; and was endued with the Science of those parts whose pre-

destinations upon succession it did accomplish.

All the Navel therefore and conjunctive part we can suppose in Adam. was his dependency on his Maker, and the connexion he must needs have anto Heaven, who was the Son of God. For holding no dependence on any preceding efficient but God; in the act of his production there may be conceived some connexion, and Adam to have been in a momental Navel with his Maker. And although from his carnality and corporal existence, the conjunction feemeth no nearer than of causality and effect; yet in his immortal and diviner part he feemed to hold a nearer coherence, and an umbilicality even with God himfelf. And so indeed although the propriety of this part be found but in some animals, and many species there are which have no Navel at all; yet is there one link and common connexion, one general ligament, and necessary obligation of all what ever unto God. Whereby although they act themselves at distance, and seem to be at loose, yet do they hold a continuity with their Maker. Which catenation or conferving union when ever his pleasure shall divide, let go, or separate; they shall fall from their existance, essence, and operations; in brief, they must retire unto their primative nothing, and shrink into their Chaos again.

They who hold the Egg was before the Bird, prevent this doubt in many other animals, which also extendeth unto them: For birds are nourished by umbilical veffels, and the Navel is manifest sometimes a day or two after exclusion. The same is probable in all oviparous exclusions, if the lesser part of eggs must serve for the formation, the greater part for nourishment. The fame is made out in the eggs of Snakes; and is not improbable in the generation of Porwiggles or Tadpoles, and may be also true in some vermiparous exclusions; although (as we have observed the daily progress thereof) the whole Maggot is little enough to make a Fly, without any part re-

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CHAP. VI.

Of the Pictures of Eastern Nations, and the Jews at their Feasts, especially our Saviour at the Paffeover.

Oncerning the Pictures of the Jews, and Eastern Nations at their Feafts, concerning the gesture of our Saviour at the Passeover, who is usually described fitting upon a stool or bench at a square table, in the middest of the twelve, many make great doubt; and (though they concede a table gesture) will hardly allow this usual way of Session.

Wherein restraining no mans enquiry, it will appear that accubation, or the lying down at meals, was a gesture used by very many Nations. That the Perfians used it, beside the testimony of humane Writers, is deducible from that passage in Estber. That when the King returned into the place of the Estber 7; banquet of wine, Haman was fallen upon the bed whereon Estker was. That the Parthians used it, is evident from Athenaus, who delivereth out of Possidonius, that their King lay down at meals, on an higher bed than others. That Cleopatra thus entertained Anthony, the same Author manifesteth when he saith, she prepared twelve Tricliniums. That it was in use among the Greeks, the Word Triclinium implyeth, and the same is also declarable from many places in the Symposiacks of Platarch. That it was not out of Fashion in the daies of Aristorie, he declareth in his politicks; when among the Institutionary rules of youth, he adviseth they might not be permitted to hear Jambicks and Tragedies before they were admitted unto discumbency, or lying along with others at their meals. That the Romans used this gesture at repast, beside many more, is evident from Lypsius, Mercurialis, Salmafius and Ciaconius, who have expresly and distinctly treated hereof.

Now of their accumbing places, the one was called Stibadion and Sigma, carrying the figure of an half Moon, and of an uncertain capacity, where after it received the name of Hexaclinon, Octoclinon, according unto that of Martial,

Accipe Lunata scriptum testudine Sigma:

Octo capit, veniat quifquis amicus erit.

Hereat in several ages, the left and right hour were the principal places, and the most honourable person, if he were not Master of the feast, possessed one of those rooms. The other was termed Triclinium, that is, Three beds encompassing a table, as may be seen in the figures thereof, and particularly in the Rhamnusian Triclinium, set down by Mercurialis. The customary tile hereof was probably deduced from the frequent tile of bathing, after which they commonly retired to bed, and refected themselves with repast; and so that custome by degrees changed their cubiculary beds into discubitory, and introduced a fashion to go from the baths unto these.

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The antient gefture or pofition of the body at feafts.

As for their gesture or position, the men lay down leaning on their left elbow, their back being advanced by some pillow or soft substance : the second lay so with his back towards the first, that his head attained about his bosome; and the rest in the same order. For women, they sat sometimes distinctly with their fex, sometimes promiscuously with men, according to affection or favour, as is delivered by Juvenal,

Gremio jacuit nova nupta meriti.

And by Succonius of Calignia, that at his feafts he placed his fifters, with

whom he had been incontinent, succeffively in order below him.

Again, As their beds were three, so the guests did not usually exceed that number in every one; according to the antient Laws, and proverbial observations to begin with the Graces, and make up their feasts with the Muses. And therefore it was remarkable in the Emperour Lucias Verns. that he lay down with twelve: which was faith Julius Capitolinus, prater exampla majorum, not according to the custome of his Predecessors, except it were at publick and nuptial suppers. The regular number was also exceeded in this last supper, whereat there were no less than thirteen, and in no place fewer than ten, for, as fofephus delivereth, it was not lawful to

celebrate the Paffeover with fewer than that number.

Lastly, For the disposing and ordering of the persons: The first and middle beds were for the guefts, the third and lowest for the M ster of the house and his family; he alwaies lying in the first place of the last bed, that is next the middle bed; but if the wife or children were absent, their rooms were supplyed by the Umbræ, or hangers on, according to that of Twoenal-Locus eft & pluribus Umbris. For the guests, the honourablest place in every bed was the first excepting the middle or second bed; wherein the most honourable Guest of the feast was placed in the last place, because by that position he might be next the Master of the feast. For the Master lying in the first of the last bed, and the principal guest in the last place of the secitatios 128 Pro- cond, they must needs be next each other; as this figure doth plainly declare, and whereby we may apprehend the feast of Perpenna made unto Sertorius, described by Salustius, whose words we shall thus read with Salmafius: Igitur discubuere, Sertorius inferior in medio lecto, supra Fabius Antonius in summo ; Infra Scriba Sertorii Versius ; alter scriba Macenas in Imo, medius inter Tarquitium & Deminum Pertennam.

Who the Umbræ were at Banquets.

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At this feast there were but seven; the middle places of the highest and middle bed being vacant; and hereat was Stertorius the General and principal guest slain. And so may we make out what is delivered by Pintarch in his life, that lying on his back, and raising himself up, Perpenna cast himself upon his stomach; which he might very wel do, being Master of the feast, and lying next unto him. And thus also from this Tricliniary disposure, we may illustrate that obscure expression of Seneca; That the North-wind was in the middle, the North-East on the higher fide, and the North-West on the lower. For as appeareth in the circle of the winds, the North-East will an-Iwer the bed of Antonius, and the North-West that of Perpenna.

That the custome of feasting upon beds was in use among the Hebreus, many deduce from Ezekiel. Thou fatest upon a stately bed, and a table pre- Exek. 280 pared before it. The custome of Discalceation or putting off their shooes at meals, is conceived to confirm the fame, as by that means keeping their beds clean, and therefore they had a peculiar charge to eat the Paffeover with their shooes on; which Injunction were needless, if they used not to put them off. However it were in times of high antiquity, probable it is, that in after ages they conformed unto the fashions of the Affyrians and Eastern Nations, and lastly of the Romans, being reduced by Pompey unto a Provincial subjection.

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That this discumbency at meals was in use in the daies of our Saviour, is conceived probable from feveral speeches of his expressed in that phrase, even unto common Auditors, as Luke 14. Cum invitatus fueris ad nuptias, non discumbas in primo loco, and besides many more, Matthew 23. When reprehending the Scribes and Pharifees, he faith, Amant protoclifias, id eft, primos recubitus in canis, & protocathedrias, five, primas cathedras, in Synag gis : wherein the terms are very distinct, and by an Antithesis do plainly diftinguish the posture of fitting, from this of lying on beds. The confent of the Jews with the Romans in other ceremonies and rites of feathing, makes probable their conformity in this. The Romans washed, were anointed, and wore a cenatory garment: and that the same was practifed by the Fews, is deduceable from that exposulation of our Saviour with Simon, that he washed not his feet, nor anointed his head with oyl; the common civilities at festival entertainment; and that expression of his concerning the cenatory or wedding garment, and as some conceive of the linnen garment of the young man, or St. John, which might be the same he wore the night before at the last Supper.

Enquiries into Valgar

That they used this gesture at the Passover, is more then probable from the testimony of Fewish Writers, and particularly of Bin-maimon recorded by Scaliger De emendatione temporum. After the second cup according to the Institution: the Son asketh what meaneth of this service? then he that maketh the declaration, saith, How different is this night from all other nights? for all other nights we wash but once, but this night twice; all other we eat seavened or unleavened bread, but this only seavened; all other we eat seavened or unleavened bread, but this only roassed, all other nights we eat together lying or sitting, but this only lying along. And this posture they used as a token of rest and security which they enjoyed, sar

different from that at the eating of the Passover in Agypt.

That this gesture was used when our Saviour eat the Prisover, is not conceived improbable from the words whereby the Evangelists express the same, that is, aranuaren, aranuaren

Rical expression of Nonnus.

Lastly, if it be not fully conceded, that this gesture was used at the Passover, yet that it was observed at the last supper, seems almost incontrovertible, for at this feast or cenatory convention, learned men make more than one supper, or at least many parts thereof. The first was that legal one of the Passover, or eating of the Paschal Lamb with bitter herbs, and ceremonies described by Moses. Of this it is said, that when the even was come, he sat down with the twelve. This is supposed when it is said, that the supper being ended, our Saviour arose, took a towel, and washed the Disciples feet. The second was common and Domestical, consisting of ordinary and undefined provisions; of this it may be said, that our Saviour took his gar-

Luke 7.

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ment, and fat down again, after he had washed the Disciples feet, and performed the preparative civilities of Suppers; at this 'tis conceived the fop was given unto Judas, the Original word implying some broath or decoction, not used at the Passover. The third or later part was Euchariftical, which began at the breaking and bleffing of the bread, according to that of Matshew, and as they were eating, Jesus took bread and blessed it.

Now although at the Passover or first Supper, many havedoubted this Reclining posture, and some have affirmed that our Saviour stood; yet that he lay down at the other, the same men have acknowledged, as Chryfostom, Theophylaet, Austin, and many more. And if the tradition will hold, the position is unquestionable; for the very Triclinium is to be seen at Rome, brought thither by Vespasian, and graphically set forth by Casalius.

Thus may it properly be made out; what is delivered, John 13. Erat recumbens unus ex Discipulis ejus in sinu Jesu quem diligebat; Now there was leaning on Jesus bosome one of his Disciples whom Jesus loved; which gesture will not so well agree unto the position of sitting, but is natural, and cannot be avoided in the Laws of accubation. And the very same expression is to be found in Pliny, concerning the Emperour Nerva and Veiento whom he favoured; Coenebat Norva cum paucis, Veiento recumbebat proprias atque etiam in finn; and from this custome arose the word Not in Evans inising, that is, a near and bosome friend. And therefore Cansabon justly rejecteth Theophylact; who not confidering the antient manner of decumbency, imputed this gesture of the beloved Disciple unto Rusticity, or an act of incivility. And thus also have some conceived, it may be more plainly made out what is delivered of Mary Magdalen. That she stood at Christs feet behind him weeping, and began to wash his feet with teers, and did wipe them with the hairs of her head. Which actions, if our Saviour fate, the could not perform flanding, and had rather flood behind his back, than at his feet. And therefore it is not allowable, what is observable in many pieces, and even of Raphael Urbin; wherein Mary Magdalen is pictured before our Saviour, washing his feet on her knees; which will not confift with the frict description and letter of the Text.

Now whereas this polition may feem to be discountenanced by our Translation, which usually renders it sitting, it cannot have that illation; for the French and Italian Translations expressing neither position of session or recubation, do only fay that he placed himself at the table; and when ours expresseth the same by sitting, it is in relation unto our custome, time, and apprehension. The like upon occasion is not unusual: so when it is said, Luke 4. Aligus To Gichior, and the Vulgar renders it, Cum plicaffet librum, outs translateth it he shut or closed the book; which is an expression proper unto the paginal books of our times, but not so agreeable unto volumes or rolling books in use among the Fens, not only in elder times, but even unto this day. So when it is faid, the Samaritan delivered unto the Host two pence for the provision of the Levite; and when our Saviour agreed with the

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What Denari- Labourers for a peny a day; in frict translation it should be seven pence us, or the peny half peny; and is not to be conceived our common peny, the fixtieth part of an ounce. For the word in the Original is Surdprov, in Latin, denarius, and with the Romans did value the eighth part of an ounce, which after five shillings the ounce, amounteth unto seven pence half peny of our mo-

Ceremonies of the Raisover omitted.

Laffly, Whereas it might be conceived that they eat the Passeover standing rather than fitting, or lying down, according to the Institution, Exod. 12. Thus shall you eat, with your loins girded, your shooes on your feet, and your staff in your hand; the Jews themselves reply, this was not required of succeeding generations, and was not observed, but in the Passover of Egypt. And so also many other injunctions were afterward omitted, as the taking up of the Paschal Lamb, from the tenth day; the eating of it in their houses dispersed; the striking of the blood on the door posts, and the eating thereof in hafte. Solemnities and Ceremonies primatively enjoyned, afterward omitted; as was also this of station, for the occasion ceafing, and being in fecurity, they applyed themselves unto gestures in use among them.

Now in what order of recumbency Christ and the Disciples were dipofed, is not so easily determined. Cafalins from the Lateran Triclinium will tell us, that there being thirteen, five lay down in the first bed, five in the last, and three in the middle bed; and that our Saviour possessed the upper place thereof. That John lay in the same bed, seems plain, because he leaned on our Saviours bosome. That Peter made the third in that bed, conconjecture is made, because he beckened unto Fobu, as being next him, to ask of Christ, who it was that should betray him. That Judas was not far off, feems probable, not only because he dipped in the same dish, but because he was so near, that our Saviour could hand the sop unto him.

CHAP. VII.

Of the Picture of our Saviour with long bair.

Nother Picture there is of our Saviour described with long hair accor-A ding to the custome of the Jens, and his description sent by Lentulus unto the Senate. Wherein indeed the hand of the Painter is not accusable, but the judgement of the common Spectator; conceiving he observed this fashion of his hair, because he was a Nazarite, and confounding a Nazarice by vow, with those by birth or education.

The Nazarite by vow is declared, Numb, 6. And was to refrain three things, drinking of Wine, cutting the hair, and approaching unto the dead; and such a one was Sampson. Now that our Saviour was a Nazarite after this kind, we have no reason to determine; for he drank Wine, and was

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therefore called by the Pharifees, a Wine-bibber; he approached also the dead, as when he raised from death Lazarus, and the daughter of farius.

The other Nazarite was a Topical appellation, and applyable unto such as were born in Nazareth, a City of Galilee, and in the tribe of Naphtali. Neither, if Arielly taken, was our Saviout in this sense a Nazarite; for he was born in Bethlebem in the tribe of Julab; but might receive that name, because he abode in that City; and was not only conceived therein, but there also passed the filent part of his life, after his return from Egypt; as is delivered by Matthew, And he came and dwelt in a City called Nazareth, that it might be fulfilled which was spoken by the Prophet, He shall be called a Nazarene. Both which kinds of Nazarites, as they are di-Ringuishable by Zain and Tsadde in the Hebrew so in the Greek, by Alpha and Omega; for as Fansenius observeth, where the votary Nazarite is mentioned, it is written, Nasapaio as Levit. 6. and Lament. 4. Where it is spoken of our Saviour, we read it, Nagword, as in Matthew, Luke and Fibn; only Mark who writ his Gospel at Rome, did Latinize, and wrote it Nalaphros.

CAAP. VIII.

Of the Picture of Abraham Sacrificing Isaac.

N the Picture of the Immolation of Isanc, or Abraham facrificing his fon, If ano is described as a little boy, which notwithstanding is not confentaneous unto the authority of Expositors, or the circumstance of the Text. For therein it is delivered, that Isaac carried on his back the wood for the facrifice: which being an holocauft, or burnt offering to be confumed unto afhes, we cannot well conceive a burthen for a boy; but fuch a one unto If aac, as that which it typified was unto Christ, that is, the wood or cross whereon he suffered; which was too heavy a load for his shoulders, and

was fain to be relieved therein by Simon of Cyrene.

Again, He was so far from a boy, that he was a man grown, and at his full flature, if we believe Fofephus, who placeth him in the last of Adolescency, and makes him twenty five years old. And whereas in the Vulgar Translation he is termed puer, it must not be strictly apprehended (for that age properly endeth in puberty, and extendeth but unto fourteen) but respectively unto Abraham, who was at that time above fix score. And therefore also herein he was not unlike unto him, who was after led dumb unto Men of emithe flaughter, and commanded by others who had legions at command, nent fame and that is, in meekness and humble submission. For had he resisted, it had not prowels at 25. been in the power of his aged parent to have enforced; and many at his years have performed such acts, as few besides at any. David was too firong for a Lion and a Bear; Pompey had deserved the name of Great;

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Alexander of the same cognomination was Generalissimo of Greece; and Anibal but one year after, succeeded Asarabal in that memorable War against the Romans.

CHAP. IX.

Of the Pisture of Moses with borns.

In many pieces, and some of antient Bibles, Moses is described with horns. The same description we find in a filver Medal; that is upon one side Moses horned, and on the reverse the commandment against sculptile Images. Which is conceived to be a coynage of some Jens, in derision

of Christians, who first began that Pourtract.

The ground of this absurdity, was surely a mistake of the Hebrew Text, in the history of Moses when he descended from the Mount; upon the affinity of Karen and Karan, that is, an horn, and to shine, which is one quality of horn: the Vulgar Translation conforming unto the former. Ignorabat quod cornuta esset facies ejus. Qui videbant faciem Moses esse cornutam. But the Chaldee paraphrase, translated by Panius Fagins, hath otherwise expressed it. Moses nesciebat quod multus esset splendor glorie vultus ejus. Et viderunt silii Israel quod multa esset claritas gloria faciei Moses. The expression of the septuagint is at large, sessexun of is the yeapar.

And this passage of the Old Testament is well explained by another of the New; wherein it is delivered, that they could not stedsassly behold the sace of Moses, did this desired the exposition of one Text is best performed by another; men vainly interposing their constructions, where the Scripture decideth the controversic. And therefore some have seemed too active in their expositions, who in the story of Rahab the Harlot, have given notice that the word also signifies an Hostess; for in the Epistle to the Hebreus, she is plainly termed wopen, which signifies not an Hostess, but a pecuniary and prostituting Harlot; a term applyed unto Lais by the Greeks, and distinguished from stage or amica, as may appear in the thirteenth of Ather

And therefore more allowable is the translation of Tremelius, Quod solendida facta effet cutis faciei ejus; or as Estins hath interpreted it, facies ejus erat radiosa, his face was radiant, and dispersing beams like many horns and cones about his head; which is also consonant unto the original fignification, and yet observed in the pieces of our Saviour and the Virgin Mary, who are commonly drawn with scintillations, or radiant Halo's about their head; which after the French expression are usually termed, the Glory.

What kind of Harlot she was read Camar, De with Elia.

Exod. 34.29.

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Now if besides this occasional mistake, any man shall contend a propriety in this Picture, and that no injury is done unto Truth by this description, because an horn is the Hieroglyphick of authority, power and dignity, and in this Metaphor is often used in Scripture; the piece I confess in this acception is harmless, and agreeable unto Moses: and under such emblematical constructions, we find that Alexander the Great, and Attila King of Hannes, in antient Medals are described with horns. But if from the common mistake, or any solary consideration we perfist in this description; we vilifie the mysterie of the irradiation, and authorize a dangerous piece conformable unto that of Jupiter Hammon; which was the Sun, and therefore described with norns; as is delivered by Macrobius; Hammonem quem Deam solem occidentem Lybies existimant, arietinis cornibus fingunt, quibus id animal valet, ficut radiis fol. We herein also intimate the Picture of Pan, and Pagan emblem of Nature. And if (as Macrobius and very good Authors concede) Bacebus (who is also described with horns) chus supposed be the same Deity with the Sun; and if (as Vossius well content to be the same upon the itdeth) Moses and Bacchus were the same person; their descriptions must person, De ocibe relative, or the Tauricornous picture of one, perhaps the same with the gine Idelatria.

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CHAP. X.

Of the Scutcheons of the Tribes of Ifrael.

INJE will not pass over the Scutcheons of the Tribes of Israel, as they are usually described in the Maps of Canaan and several other pieces; generally conceived to be the proper coats, and distinctive badges of their several Tribes, So Reulen is conceived to bear three Bars wave, Judab a Lion Rampant, Dan a Serpent nowed, Simeon a Sword inpale the point erected, & c. The ground whereof is the last Benediction of Facob, wherein Get. 49: he respectively draweth comparisons from things here represented.

Now herein although we allow a confiderable measure of truth, yet whether as they are usually described, these were the proper cognizances, and coat-arms of the Tribes; whether in this manner applyed, and upon the grounds prefumed material doubts remain.

For first, They are not strictly made out from the Prophetical bleffing of Dudiar Jacob; for Simeon and Levi have distinct coats, that is, a Sword, and the infants two Tables, yet are they by Facob included in one Prophefie, Simeon and Levi are brethren, Instruments of cruelties are in their habitations. So fuleph beareth an Oxe, whereof not with flanding there is no mention in this Prophetie; for therein it is faid, Joseph is a fruitful bough, even a fruitful bough by a well; by which repetition are intimated the two Tribes deicending from him, Ephrains and Manaffes; whereof notwithstanding

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Ephraim only beareth an Oxe: True it is, that many years after in the benediction of Moles, it is faid, of Joseph, His glory is like the firfilings of his Bullock; and so we may concede, what Vossius learnedly declareth, that the Agyptians represented Joseph in the Symbole of an Oxe; for thereby was best implyed the dream of Pharaoh, which he interpreted, the benefit by Agriculture, and provident provision of corn which he performed; and therefore did Serapis bear a bushel upon his head.

Again, if we take these two benedictions together, the resemblances are not appropriate, and Mofes therein conforms not unto Facob; for that which in the Prophetie of Facob is appropriated unto one, is in the bleffing of Mofes made common unto others. So whereas Judah is compared unto a Lion by Jacob, Judah is a Lions whelp, the same is applyed unto Dan by Moses, Dan is a Lions whelp, he shall leap from Bashan, and also unto Gad, he

dwelleth as a Lion.

Thirdly, if a Lion were the proper coat of Indah, yet were it not probably a Lion Rampant, as it is commonly described, but rather Couchant or Dormant, as some Heralds and Rabbins do determine; according to the letter of the Text, Recumbens dormifti ut Leo, He conched as a Lion, and as

a young Lion, who shall rouse him?

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Dent. 6.

Laftly, when it is faid, Every man of the Children of Ifrael shall pitch by his own standard with the Ensign of their fathers house; upon enquiry what these Standards and Ensigns were, there is no small incertainty; and men conform not unto the Prophefie of Jacob. Christian Expositors are fain herein to rely upon the Rabbins, who notwithstanding are various in their traditions, and confirm not these common descriptions. For as for inferiour Enfigns, either of particular bands or houses, they determine nothing at all; and of the four principal or legionary Standards, that is, of Judah, Reuben, Ephraim, and Dan (under every one whereof marched three P. Fagius upon Tribes) they explain them very variously. Fonathan who compiled the the Thargum, conceives the colours of these banners to answer the precious stones, in the brest-plate, and upon which the names of the Tribes were engraven. So the flandard for the Camp of Judah was of three colours, according unto the stones, Chalcedony, Saphir, and Sardonix; and therein were expressed the names of the three Tribes, Judab, Iffachar, and Zabulon, and in the middest thereof was written, Rise up Lord, and let thy enemies be scattered, and let them that hate thee, flee before thee; in it was also the pourtrait of a Lion. The standard of Renben was also of three colours, Sardine, Topaz, and Amethyst; therein were expressed the names of Renben, Simeon, and Gad, in the middest wast written, Hear O Ifrael, The Lord our God, the Lord is one: Therein was also the pourtraiture of a Hart But Abenezra and others, beside the colours of the field, do set down other charges, in Renbens the form of a man or mandrake, in that of Fudab a Lion, in Ephraims an Oxe, in Dan's the figure of an Ægle.

And thus indeed the four figures in the banners of the principal squa-

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down to 462 1 drons of Israel are answerable unto the Cherubins in the vision of Ezekiel; E383 12 every one carrying the form of all these. As for the likeness of their faces, they four had the likeness of the face of a man, and the face of a Lion on the right fide, and they four had the face of an Ox on the left fide, they The common four had also the face of an Ægle. And conformable hereunto the pictures of the Evangelists (whose Gospels are the Christian banners) are set forth with the addition of a Man or Angel, an Ox, a Lion, and an Egle. And cated. these symbolically represent the Office of Angels, and Ministers of Gods will: in whom is required understanding, as in a man; courage and vivacity, as in the Lion; fervice and ministerial officiousness, as in the Ox; expedition or celerity of execution, as in the Ægle.

From hence therefore we may observe that these descriptions, the most authentick of any, are neither agreeable unto one another, nor unto the Scutcheons in question. For though they agree in Ephraim and Judah, that is, the Ox and the Lion, yet do they differ in those of Dan and Renben, as far as an Ægle is different from a Serpent, and the figure of a Man, Hart, or Mandrake, from three Bars wave. Wherein notwithstanding we rather declare the incertainty of Arms in this particular, then any way question their antiquity; for hereof more antient examples there are, then the Scutcheons of the Tribes, it Ofgris, Mizraim or Jupiter the Just, were the Son of Cham; for of his two Sons, as Diodorus delivereth, the one for his The Antiquie Device gave a Dog, the other a Wolf. And, beside the shield of Achillis, ty of bearing and many antient Greeks : if we receive the conjecture of Vollius, that the Scutcheons. Crow upon Corvinus his head, was but the figure of that Animal upon his Helmet, it is an example of Antiquity among the Romans.

But more widely must we walk, if we follow the doctrine of the Cabalifts, who in each of the four banners inscribe a letter of the Tetragrammaton, or quadriliteral name of God: and mysterizing their ensigns, do Recius de cas make the particular ones of the twelve Tribes, accommodable unto the left Agricultwelve figns in the Zodiack, and twelve moneths in the year: But the Te- tura. lib. 4. trarchical or general banners, of Judah, Renben, Ephraim, and Dan, unto the figns of Aries, Cancer, Libra and Capricornus: that is, the four cardinal parts of the Zodiack, and feafons of the year.

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CAAP. XI.

Of the Pictures of the Sibyls.

He Pietures of the Sibyls are very common, and for their Prophesies of Christ in high esteem with Christians, described commonly with youthful faces, and ma defined number. Common pieces making twelve, and many precisely ten; observing therein the account of learned Farro; that is, Sibylla Delphica, Erythraa, Samia, Cumana, Cumaa, or Cimmerias Hellespontiaca, Lybica, Phrygia, Tyburtina, Perfica. In which enumeration, I perceive learned men are not fatisfied, and many conclude an irreconcilable incertainty; some making more, others fewer, and not this certain number. For Suidas, though he affirm that in divers ages there were ten, yet the same denomination he affordeth unto more; Boysardus in his Tract of Divination, hath set forth the Icons of these Ten, yet addeth two others, Epiretica, and Agyptia; and some affirm that Prophesying women were generally named Sibyls.

Others make them fewer: Martianus Capella two; Pliny and Solinus three; Alian four; and Salmatius in effect but seven, For discoursing hereof in his Plinian Exercitations, he thus determineth; Ridere licer bodiernos Pictores, qui tabulas proponunt Cumana Cumea, & Erythrea, quafi trium diversarum Sibyllarum; cum una eademque fuerit Cumana, Cumaa, & Erythraa, ex plurium & doctiffimorum Anthorum sententia. Boysardus gives us leave to opinion there was no more than one; for fo doth he conclude, In tanta Scriptorum varietate liberum relingaimus Lectori credere, an una & eadem in diverfis regionibus peregrinata, cognomen sortita sit ab iis locis ubi oracula reddidiffe comperitur, an plures extiterint: And therefore not discovering a resolution of their number from pens of the best Writers, we have no reason to determine the same from the hand and pencil of Pain-

As touching their age, that they are generally described as young women, History will not allow; for the Sibyl whereof Virgil speaketh, is termed by him longava facerdos, and Servins in his Comment amplifieth the same. The other that sold the books unto Tarquin, and whose History is plainer than any, by Livie and Gellius is termed Anus; that is properly, no woman of ordinary age, but full of years, and in the daies of dotage, according to the Etymologie of Festus; and consonant unto the History; wherein it is faid, that Tarquin, though she doted with old age. Which duly perpended, the Licentia pictoria is very large; with the same reason they may delineate old Nefter like Adonis, Hecuba with Helens face, Time with Absolous head. But this absurdity that eminent Artist Michael Angelo hath avoided, in the Pictures of the Cumean and Persian Sibyls, as they stand described from the printed sculptures of Adam Mansuanns.

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CHAP, XII.

Of the Pisture describing the death of Cleopatra:

The Picture concerning the death of Cleopatra with two Asps or venomous Serpents unto her arms, or breasts, or both, requires consideration: for therein (beside that this variety is not excusable) the thing it self is questionable; nor is it indisputably certain what manner of death she dyed. Plutarch in the life of Antony plainly delivereth, that no man knew the manner of her death; for some affirmed she perished by poyson, which she alwaies carried in a little hollow comb, and wore it in her hair. Beside, there were never any Asps discovered in the place of her death, although two of her maids perished also with her; only it was said, two small and almost insensible pricks were found upon her arm; which was all the ground that Casar had to presume the manner of her death. Galen who was contemporary unto Plutarch, delivereth two waies of her death: that she killed her self by the bite of an Asp, or bit an hole in her Arm, and poured poyson therein. Strabo that lived before them both, hath also two opinions; that she dyed by the bite of an Asp, or else a poysonous ointment.

We might question the length of the Asps, which are sometimes described exceeding short; whereas the Chersa or land-Asp, which most conceive she used, is above four cubits long. Their number is not unquestionable; for whereas there are generally two described, Augustus (as Plutareb relateth) did carry in his triumph the Image of Cleopatra but with one Asp unto her arm. As for the two pricks, or little spots in her arm, they rather infer the sex, than plurality: for like the Viper, the semale Asp hath sour, but the male two teeth; whereby it lest this impression, or

double puncture behind it.

And lastly, We might question the place; for some apply them unto her brest, which notwithstanding will not consist with the History; and Petrus Victorius hath well observed the same. But herein the mistake was easie, it being the custome in capital malesactors to apply them unto the brest, as the Author De Theriaca ad Pisonem an eye witness hereof in Alexandria, where Cteopaira died, determineth: I beheld, saith he, in Alexandria, how suddenly these Serpents bereave a man of life; for when any one is condemned to this kind of death, if they intend to use him savourably, that is, to dispatch him suddenly, they sasten an Asp unto his brest; and bidding him walk about, he presently perisheth thereby.

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CHAP. XIII.

Of the Piaures of the nine Worthies.

He Pictures of the nine Worthies are not unquestionable, and to critical spectators, may seem to contain fundry improprieties. Some will enquire why Alexander the Great is described upon an Elephant: for, we do not find he used that animal in his Armies, much less in his own person; but his Horse is famous in History, and its name alive to this day. Beside, he fought but one remarkable battel, wherein there were any Elephants, and that was with Perus King of Judia; in which notwithstanding, as Curtim Arrianus, and Plutarch report, he was on Horse-back himself. And if because he fought against Elephants, he is with propriety set upon their backs; with no less or greater reason is the same description agreeable unto Judas Maccabeus, as may be observed from the history of the Maccabees; and also unto Julius Cafar, whose triumph was honoured with captive Elephants, as may be observed in the order thereof, set forth by Facobus Laurus. And if also we should admit this description upon an Elephant, yet were not the manner thereof unquestionable, that is, in his ruling the beast alone, for beside the Champion upon their back, there was also a guide or ruler, which fat more forward to command or guide the beaft. Thus did King Porus ride when he was overthrown by Alexander; and thus are also the towred Elephants described, Maccab. 2.6. Upon the beafts there were ftrong towers of wood, which covered every one of them, and were girtfaft unto them by devices: there were also upon every one of them thirty two frong men, befide the Indian that ruled them.

Others will demand, not only why Alexander upon an Elephant, but Helter upon an Horse: whereas his manner of fighting, or representing himself in battel, was in a Chariot, as d d the noble Trojans, who as Pliny affirmeth, were the first inventers thereof. The same way of fight is testifyed by Diodorns, and thus delivered by Sir Walter Ranleigh. Of the vulgar little reckoning was made, for they fought all on foot, slightly armed, and commonly followed the success of their Captains; who rode not upon Horses; but in Chariots drawn by two or three Horses. And this was also the antient way of fight among the Britains, as is delivered by Diodorns, Casar, and Tacitus; and there want not some who nave taken advantage hereof, and made it one argument of their original from Troj.

Lastly, By any man versed in Antiquity, the question can hardly be avoided, why the Horses of these Worthies, especially of Casar, are described with the surniture of great saddles, and stirrups; for saddles largely taken, though some defence there may be, yet that they had not the use of stirrups seemeth of laster doubt.

of stirrups, seemeth of lesser doubt; as Pancirollus hath observed, as Polydone Virgil, and Petrus Victorius have confirmed, expressly discoursing hereon:

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hereon: as is observable from Pliny, and cannot escape our eyes in the an- The use of tient monuments, medals and Triumphant arches of the Romans. Nor is fligrups net there any antient classical word in Latin to express them. For Staphia, Stapes, or Stapeda, is not to be found in Authors of this Antiquity. And divers words which may be urged of this fignification, are either later, or fignified not thus much in the time of Cafar. And therefore as Lipfius obferveth, left a thing of common use should want a common word, Franciseus Phileiphns named their Scapedas, and Bodinus Subicus, Pedaneos, And whereas the name might promise some Antiquity, because among the three small bones in the Auditory Organ, by Physitians termed Incus, Malleus and stapes, one thereof from some resemblance doth bear this name; these bones were not observed, much less named by Hyppocrates, Galen, or any antient Physitian. But as Laurentius observeth, concerning the invention of the stapes or stirrup bone, there is some contention between Columbus and Ingrassius; the one of Scicilia, the other of Cremona, and both within the compais of this Century.

The same is also deduceable from very approved Authors: Polybins speaking of the way which Anibal marched into Italy, useth the word Celematisas, that is, faith Petrus Victorius, it was stored with devices for men to get upon their horses, which ascents were termed Bemata, and in the life of Cains Cracebus, Plutarch expresseth as much, For endeavouring to ingratiate himself with the people besides the placing of stones at every miles end; he made at nearer distances certain elevated places, and Scalary ascents, that by the help thereof, they might with better ease ascend or mount their horses. Now if we demand how Cavaliers then destitute of stirrups, did usually mount their horses; as Lipsius informeth, the unable and fofter fort of men had their avalogues, or Strateres, which helped them up on horse-back, as in the practise of Crassus in Plusarch, and Caracalla in Spartianns, and the later example of Va. entinianus, who because his horse Dere Milled rifed before that he could not be settled on his back, cut off the right hand of his Strator. But how the active and hardy persons mounted, Vegetius refolves us, that they used to vault or leap up, and therefore they had wooden horses in their houses and abroad: that thereby young men might enable themselves in this action: wherein by instruction and practife they grew so perfect, that they could vault upon the right or left, and that with their tword in hand, according to that of Virgil,

Poscit equos atque arma simul, saltuque superbus And again: Emicat.

Infranant alii curres & corpora faltu Injiciant in equos.

So Julius Pollux adviseth to teach horses to incline, dimit and bow down their bodies, that their riders may with better ease ascend them. And thus may it more causally be made out, what Hyppocrates affirmeth of the Segthians, that using continual riding, they were generally molested with the

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Sciatica or hip-gout. Or what Sueconius delivereth of Germanicus, that he had flender legs, but encreased them by riding after meals; that is, the humours descending upon their pendulosity, they having no support or suppeaneous Rability.

Now if any shall say that these are petty errors and minor lapses; not konfiderably injurious anto truth, yet it is neither reasonable nor safe to contemn inferiour falsities; but rather as between falshood and truth, there is no medium, so should they be maintained in their distances; nor the contagion of the one, approach the fincerity of the other.

CHAP. XIV.

Of the Pisture of Jephthah Sacrificing his daughter.

That Jephthah

"He hand of the Painter confidently setteth forth the Picture of Fephthab in the posture of Abraham, sacrificing his only daughter: Thus did not kill his is it commonly received, and hath had the attest of many worthy Writers. daughter. Judg Notwithstanding upon enquiry we find the matter doubtfull, and many upon probable grounds to have been of another opinion, conceiving in this oblation not a natural but a civil kind of death, and a separation only unto the Lord. For that he pursued not his vow unto a literal oblation, there want not arguments both from the Text and reason.

> For first, it is evident that she deplored her Virginity, and not her deathe Let me go up and down the Mountains, and bewail my Virginity, I and my fellows.

Secondly, When it is faid, that Jephihah did unto her according unto his vow, it is immediately subjoyned, Et non cognovit virum, and she knew no man; which as immediate in words, was probably most near in sense unto the vow.

Thirdly, It is faid in the Text, that the daughter of Ifrael went yearly to talk with the daughter Fephibab four daies in the year; which had the been facrificed, they could not have done. For whereas the word is sometime translated to lament, yet doth it also fignifie, to talk, or have conferencewith one, and by Tremellins, who was well able to judge of the Osiginal, it is in this sense translated : Ibant filis Israelitarum, ad confabulandum cum filia Jephthaci, quatuor diebus quotannis: And so it is also set down in the marginal notes of our Translation. And from this annual concourse of the daughters of Ifrael, it is not improbable in future Ages, the daughter of Jeshibah came to be worshipped as a Deity; and had by the Samarivans an annual festivity observed unto her honour, as Epiphanius hath left recorded in the Herefie of the Melchidecians.

It is also repugnant unto reason; for the offering of mankind was against

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the Law of God, who so abhorred humane sacrifice, that he admitted not the oblation of unclean beafts, and confined his Altars but unto few kinds of Animals, the Ox, the Goat, the Sheep, the Pidgeon, and its kind: In the cleanfing of the Leper, there is I confess, mention made of the Sparrow; but great dispute may be made whether it be properly rendred. And therefore the Scripture with indignation oft-times makes mention of humane facrifice among the Gentiles; whose oblations scarce made scruple of any Animal; facrificing not only Man, but Horses, Lions, Ægles; and though they come not into holocausts, yet do we read the Syrians did make oblations of fishes unto the Goddess Derceto. It being therefore a facrifice so abominable unto God, although be had pursued it, it is not probable the Priests and Wisdome of Ifrael would have permitted it; and that not only in regard of the subject or sacrifice it self, but also the sacrificator, which the Picture makes to be Jephthah; who was neither Prieft, nor capable of that Office; for he was a Gileadite, and as the Text affirmeth, the fon also of an Harlot. And how hardly the Priesthood would endure encroachment upon their function, a notable example there is in the flory of

Secondly, The offering up of his daughter was not only unlawful, and entrenched upon his Religion, but had been a courfe that had much condemned his discretion; that is, to have punished himself in the strictest observance of his vow, when as the Law of God had allowed an evafion; that is, by way of commutation or redemption, according as is determined, Levis. 27. Whereby if the were between the age of five and twenty, the was to be estimated but at ten shekels, and if between twenty and fixty, not above thirty: A sum that could never discourage an indulgent Parent; it being but the value of servant slain; the inconfiderable salary of Judas; and will make no greater noise than three pound fifteen shillings with us. And therefore their conceit is not to be exploded, who say that from the story of Jephthah facrificing his own daughter, might spring the sable of Agamemnon, delivering unto facrifice his daughter Iphigenia, who was also contemporary unto Fephibab : wherein to answer the ground that hinted it, Iphigenia was not facrificed her felf, but redeemed with an Hart, which Diana accepted for her.

Lastly, Although his vow run generally for the words, Whatsoever shall come forth, &c. Yet might it be restrained in the sense, for whatsoever was sacrificeable, and justly subject to lawful immolation: and so would not have sacrificed either Horse or Dog, if they had come out upon him. Nor was he obliged by oath unto a strict observation of that which promissorily was unlawful; or could he be qualified by vow to commit a fact which naturally was abominable. Which docttine had Herod understood, it might have saved John Baptists head; when he promised by oath to give unto Herodias whatsoever she would ask; that is, if it were in the compass of things which he could lawfully grant. For his oath made not that

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lavvfall vehich veas illegal before: and if it were unjust to murther John, the supervenient Oath did not extenuate the fact, or oblige the Juror unto it.

Now the ground at least which much promoted the opinion, might be the dubious words of the Text, which contain the fense of his vow; most men adhering unto their common and obvious acception. Whatfoever shall come forth of the doors of my house, shall surely be the Lords, and I will offer it up for a burnt offering. Now whereas it is faid, Erit Jebove, & offeram illud holocaustum, The word fignifyeth both & and aut, it may be taken disjunctively; aut offeram, that is, it shall either be the Lords by separation, or elfe, an holocaust by common oblation; even as our marginal translation advertiseth; and as Tremelius rendreth it, Erit inquam Jebova, aut offeram illud belocaustum: and for the vulgar translation, it useth often &, where aut must be presumed, as Exod. 21. Si quis percusserit patrem & matrem, that is, not both, but either. There being therefore two waies to dispose of her, either to separate her unto the Lord, or offer her as a sacrifice, it is of no necessity the later should be necessary; and furely less derogatory unto the facred Text and history of the people of God, must be the former.

Num. 2.

CHAP. XV.

Of the Piaure of John the Baptist.

He Picture of John the Baptist, in a Camels skin is very questionable, and many I perceive have condemned it. The ground or occasion of this description are the words of the holy Scripture, especially of Matthen and Mark, for Luke and Tohn are filent herein; by them it is delivered, his garment was of Camels hair, and had a leathern girdle about his loins. Now here it feems the Camels hair is taken, by Painters, for the skin or pelt with the hair upon it. But this Exposition will not so well consist with the Ariet acceptation of the words; for Mark I. It is faid, he was indiduμθρό τριχας καμήλε, and Matthew 3. έίχε το ένδυμα καθ τειχών καμήλες that is, as the vulgar translation, that of Beza, that of Sixtus, Quintus, and Clement the eighth hath rendered it, vestimentum babebat e pilis camelinis; which is, as ours translateth it, a garment of Camels hair; that is, made of some texture of that hair, a course garment; a cilicious or sack-cloth habit : fuitable to the austerity of his life; the severity of his Doctrine, Repentance; and the place thereof, the wilderness, his food and diet, locusts and wilde honey. Agreeable unto the example of Elias, who is faid to be vir pilosus, that is, as Junius and Tremelius interpret, Vefte villoso cinctus, answerable unto the habit of the antient Prophets, according to that of Zachary. In that day the Prophets shall be ashamed, neither shall they wear a rough garment to deceive; and fuitable to the Cilicious and hairy Vests of

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As for the wearing of skins, where that is properly intended, the expression of the Scripture is plain; so it is said, Heb. 11. They wandred about in division sequences; that is, in Goats skins; and so it is said of out first Parents, Gen. 3. That God made them xeroras depuarires Vestes pelliceas, or coats of skins; which though a natural habit unto all, before the invention of Texture, was something more unto Adam, who had newly learned to dye; for unto him a garment from the dead, was but a dictate of death, and an habit of mortality.

Now if any man will say this habit of John, was neither of Camels skin, nor any course Texture of its hair, but rather some finer Weave of Camelot, Grograin, or the like, in as much as these stuffs are supposed to be made of the hair of that Animal, or because that Elian affirmeth, that Camels hair of Persia, is as fine as Milesian wool, wherewith the great ones of that place were clothed, they have discovered an habit, not only unsuitable unto his leathern cincure, and the courseness of his life; but not consistent with the words of our Saviour, when reasoning with the people concerning John, he saith, What went you out into the Wilderness to see? a man clothed in soft raiment? Behold, they that wear soft raiment, are in Kings Houses.

CHAP. XVI.

Of the Picture of St. Christopher.

The Picture of St. Christopher, that is, a man of a Giant-like stature, bearing upon his shoulders our Saviour Christ, and with a staff in his hand, wading thorow the water, is known unto Children, common over all Europe, not only as a sign unto houses, but is described in many Churches, and stands Colossus like in the entrance of Nostre Dame in Paris.

Now from hence, common eyes conceive an History suitable unto this description, that he carried our Saviour in his Minority over some River or Water: which notwithstanding we cannot at all make out. For we read not thus much in any good Author; nor of any remarkable Christapher, before the reign of Decias: who lived 250 years after Christ. This man indeed according unto History suffered as a Martyr in the second year of that Emperour, and in the Roman Calender takes up the 21 of July.

The ground that begat or promoted this opinion, was first the fabulous adjections of succeeding ages, unto the veritable acts of this Martyr, who in the most probable accounts was remarkable for his staff, and a man of a good stature.

The second might be a mistake, or misapprehension of the Picture, most men conceiving that an History was contrived at first but as an Emblem, or Sym-

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Symbolical fancy: as from the Annotations of Beronius upon the Roman Martyrologie, Lipellous in the life of Saint Christopher hath observed in these words; Acta Saint Christopheria multis depravata inveniantur: quod quidem non aliunde originem sumplisse certum est : quam quod symbolicas figuras imperiti ad veritatem successu temporis transtulerint : itaque cuncta illa de Santto Christophero pingi consueta, Symbola potius, quam historia alicujus existimandum est esse expressam imaginem; that is, The Acts of Saint Chri-Stopher are depraved by many; which surely began from no other ground, then, that in process of time, unskilful men translated symbolical figures unto real verities: and therefore what is usually described in the Picture of St. Christopher, is rather to be received as an Emblem, or Symbolical defcription, then any real History. Now what Emblem this was, or what its fignification, conjectures are many; Pierius hath let down one, that is, of the Disciple of Christ: for he that will carry Christ upon his shoulders, must rely upon the staff of his direction, whereon if he firmeth himself, he may be able to overcome the billows of refistance, and in the vertue of this staff, like that of Facob, pass over the waters of Fordan. Or otherwise thus; He that will submit his shoulders unto Christ, shall by the concurrence of his power encrease into the strength of a Giant; and being supported by the flaff of his holy Spirit, shall not be overwhelmed by the waves of the World, but wade thorow all refistance.

And also the mystical reasons of this pourtra? alledged by Vida and Xerisanus: and the recorded story of Christopher, that before his Martyrdom he requested of God, that where ever his body were, the places should be freed from pestilence and mischiefs, from infection. And therefore his picture or pourtract, was usually placed in publick waies, and at the entrance

of Towns and Churches, according to the received Diffich.

La tero de la Christophorum videas, postea tutus eris.

CHAP, XVII.

Of the Picture of St. George.

He Picture of St. George killing the Dragon, and as most antient draughts do run, with the daughter of a King standing by, is famous amongst Christians. And upon this description dependeth a solemn story, how by this atchievement he redeemed a Kings daughter: which is more especially believed by the English, whose Protector he is: and in which form and history, according to his description in the English Colledge at Rome, he is set forth in the Icons or Cuts of Martyrs by Cevalerius: and all this according to the Historia Lombardica, or golden legend of Jacobus de Voraign. Now of what authority soever this piece be amongst us, it is, I perceive,

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perceive, received with different beliefs; for some believe the person and the story; some the person, but not the story; and others deny both.

That such person there was, we shall not contend: for besides others, Dr. Heilin hath clearly afferted it in his History of St. George. The indistinction of many in the community of name, or the misapplication of the acts of one unto another, hath made some doubt thereof. For of this name we meet with more than one in History, and lo seis than two conceived of Cappadosia. The one an Arrian who was slain by the Alexandrians in the time of Julian; the other a valiant Souldier and Christian Martyr, beheaded in the reign of Dioclesian. This is the George conceived in this Picture, who hath his day in the Roman Calender, on whom so many fables are delivered, whose story is set forth-by Metaphrasses, and his Miracles by

Turonensis.

As for the story depending hereon, some conceive as lightly thereof, as of that of Perseus and Andromeda, conjecturing the one to be the Father of the other; and some too highly affert it. Others with better moderation, do either entertain the same as a fabulous addition unto the true and authentick story of Saint George; or else conceive the literal acception to be a misconstruction of the Symbolical expression; apprehending a veritable History, in an Embleme, or piece of Christian Poesie. And this Emblematical construction hath been received by men not forward to extenuate the acts of Saints; as from Baronins, Lipellous the Carthusian hath delivered in the Life of Saint George; Picturam illum Saint Georgii qua essint virgo positua manus supplices tendens, ejus explorat auxilium, Symboli potius quam bistoria alicujus censenda expressa imago. Consuevit quidem ut equestris militia miles equestri imagine referri: that is, The Picture of Saint George, wherein he is described like a Curassier or horseman compleatly armed, Is rather a symbolical image, than any proper figure.

Now in the Picture of this Saint and Souldier, might be implied the Christian Souldier and true Champion of Christ. A horseman armed Cap-a-pe, intimating the Panoplia, or compleat armour of a Christian: combating with the Dragon, that is, with the Devil; in defence of the Kings daughter, that is, the Church of God. And therefore although the History be not made ont, it doth not disparage the Knights and Noble order of Saint George: whose cognisance is honoarable in the Embleme of the Souldier of Christ, and is a worthy memorial to conform unto its mysterie. Nor, were there no such person at all, had they more reason to be ashamed, then the Noble order of Eurgandy, and Knights of the Golden Fleece; whose badge is a con-

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CHAP. XVIII.

Of the Picture of Jerom.

The Picture of Ferom usually described at his study, with a Clock hanging by, is not to be omitted; for though the meaning be allowable, and probable it is, that industrious Father did not let slip his time without account; yet must not perhaps that Clock be set down to have been his measure thereof. For Clocks or Automatous organs, whereby we now distinguish of time, have found no mention in any antient Writers: but are of late invention, as Pancirollus observeth. And Polydore Virgit discoursing of new inventions, whereof the Authors are not known, makes instance in Clocks and Guns. Now Ferom is no late Writer, but one of the antient Fathers, and lived in the fourth Century, in the reign of Theodosius the first.

It is not to be denyed, that before the daies of Jerom there were Horologies, and several accounts of time; for they measured the hours not ononly by drops of water in glasses called Clepsydræ, but also by sand in
glasses called Clepsammia. There were also from great antiquity, Scioterical or Sun Dials, by the shadow of a stile or gnomon denoting the hours
of the day: an invention ascribed unto Anaximines by Pliny. Hereof a
memorable one there was in Campus Martius, from an obelisk erected,
and golden figures placed horozontally about it; which was brought out
of Agypt by Augustus, and described by Jacobus Laurus. And another of
great antiquity we meet with in the story of Ezechias; for so it is delivered
in King. 2. 20. That the Lord brought the shadow backward ten degrees,
by which it had gone down in the Dial of Ahaz. That is, say some, ten
degrees, not lines; for the hours were denoted by certain divisions or steps
in the Dial, which others distinguished by lines, according to that of Per-

Stertimus indomitum quod dispumare Falernum. Sufficiat, quinta dum linea tangitur umbra.

That is, the line next the Meridian, or within an hour of noon.

Of later years there succeeded new inventions, and horologies composed by Trochilick, or the artifice of wheels; whereof some are kept in motion by weight, others perform without it. Now as one age instructs another, and time that brings all things to ruine, perfects also every thing; so are these indeed of more general and ready use than any that went before them. By the Water-glasses the account was not regular: for from attenuation and condensation, whereby that Element is altered, the hours were shorter in hot weather than in cold, and in Summer than in Winter. As for Scioterical Dials, whether of the Sun or Moon, they are only of use in the actual radiation of those Luminaries; and are of little advantage unto those inha-

Clocks no very antient invention.

A peculiar description and particular construction hereof out of R. Chomer, is set down Carries de Caffarel, cap: 9.

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inhabitants, which for many moneths enjoy not the Lustre of the Sun.

It is I confess no easie wonder how the horometry of Antiquity discovered not this Artifice; how Architas that contrived the moving Dove, or rather the Helicosophe of Archimedes, fell not upon this way. Surely as in many things, so in this particular, the present age hath far surpassed Antiquity; whose ingenuity hath been so bold not only to proceed below the account of minutes; but to attempt perpetual motions, and engines whose revolutions (could their substance answer the design) might out-last the exemplary mobility, and out-measure time it felf. For such a one is that mentioned by John Dee, whose words are these in his learned Preface unto Euclide: By Wheels strange works and incredible are done: A wondrons example was feen in my time in a certain Instrument, which by the Inventer and Artificer was fold for twenty Talents of Gold; and then by chance had received some injury, and one Fanelius of Cremona did mend the same, and presented it unto the Emperour Charles the fift. Feronimus Cardanus can be my Witness, that therein was one Wheel that moved in such a rate, that in seven thousand years only his own period should be finished; a thing almost incredible, but how far I keep within my bounds, many men yet alive can tell.

CHAP. XIX.

Of the Pictures of Mermaids, Unicorns, and some others.

Ew eyes have escaped the Picture of Mermaids; that is, according to Horaco his Monster, with womans head above, and fishy extremity below; and these are conceived to answer the shape of the antient Syrens that attempted upon Ulifes. Which notwithstanding were of another description, containing no fishy composure, but made up of Man and Bird; the humane mediety variously placed not only above, but below; according unto Alian, Suidas, Servius, Boccatius & Aldrovandus, who hath referred their description unto the story of fabulous Birds; according to the description of Ovid, and the account thereof in Hyginus, that they were the daughters of Melpomene, and metamorphofed into the shape of man and bird by Ceres.

And therefore these pieces so common among us, do rather derive their Dagon the Ioriginal, or are indeed the very descriptions of Dagon; which was made dol, of what with humane figure above, and fifthy shape below; whose stump, or as Tre- form. melius and our margen renders it, whose fleshy part only remained, when the hands and upper part fell before the Ark. Of the shape of Artergetes, 1 Sam. 5. or Decreto with the Phoenitians; in whose fishy and feminine mixture, as fome conceive, were implyed the Moon and the Sea, or the Deity of the Waters; and therefore in their facrifices, they made oblations of fifnes.

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From whence were probably occasioned the Pictures of Nereides and Tri-

placed on the top of the Temple of Saturn.

We are unwilling to question the Royal Supporters of England, that is, the approved descriptions of the Lion and the Unicorn. Although, if in the Lion the position of the pizel be proper, and that the natural situation; it will be hard to make out their retrocopulation, or their coupling and pissing backward, according to the determination of Aristotle; All that urine backward do copulate muyndsi clunation, or aversly, as Lions, Hares, Linxes.

As for the Unicorn, if it have the head of a Deer, and the tail of a Boar, as Vartommanus describeth it, how agreeable it is in this picture every eye may discern. If it be made bisculous or cloven footed, it agreeth unto the description of Vartomm. but scarce of any others and Arist. suppose that such as divide the hoof, do also double the horn; they being both of the same nature, and admitting division together. And lattly, if the horn have this situation, and be so forwardly affixed, as is described, it will not be easily conceived, how it can feed from the ground; and therefore we observe, that Nature in other cornigerous Animals, hath placed the horns higher and reclining, as in Bucks; in some inverted upwards, as in the Rhinoceros, the Indian Ass, and Unicornous Beetles: and thus have some affirmed it is seated in this Animal.

We cannot but observe that in the Picture of Jonah and others, Whales are described with two prominent spouts on their heads: whereas indeed they have but one in the forehead, and terminating over the wind-pipe. Nor can we over-look the Picture of Elephants with Castles on their backs, made in the form of land-Castles, or stationary fortifications, and answerable unto the Arms of Castile, or Sir John Old Castle: whereas the towers they bore, were made of wood, and girt unto their bodies, as is delivered in the books of Maccab and as they were appointed in the Army of Antiochus.

We will not dispute the Pictures of Retiary Spiders, and their position in the web, which is commonly made lateral, and regarding the Horizon, although it be observed, we shall commonly find it downward, and their heads respecting the Center. We will not controvert the Picture of the seven Stars: although if thereby be meant the Pleiades, or subconstellation upon the back of Taurus, with what congruity they are described, either in sight or magnitude, in a clear night an ordinary eye may discover, from July unto April. We will not question the tongues of Adders and Vipers, described like an Anchor, nor the Picture of the Flower de Luce: though how far they agree unto their natural draughts, let every Spectator determine.

Whether the Cherubims about the Ark be rightly described in the common Picture, that is, only in humane heads, with two wings: or rather in the shape of Angels or young Men, or somewhat at least with seet, as the Scripture seems to imply. Whether the Cross seen in the air by Constantine, were of that sigure wherein we represent it; or rather made out of X

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2. Chron. 3. 13.

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ett, 25 0 9 Carlo and P, the two first letters of xgisds. Whether the Cross of Christ did an-(wer the common figure; whether so far advanced above his head; whether the feet were so disposed, that is, one upon another, or separately nailed, as some with reason describe it: we shall not at all contend. Much less Dolia whether the house of Diogenes were a Tub framed of wood, and after the maggi nos armanner of ours, or rather made of earth, as learned men conceive, and so dent cynici, more clearly make out that expression of favenal. We should be too criti- oc. cal to question the letter Y, or bicornous element of Pythagoras, that is, the making of the horns equal : or the left less than the right, and so defroying the Symbolical intent of the figure; confounding the narrow line of virtue, with the larger road of vice; answerable unto the narrow door of Eupuwulis. heaven, and the ample gates of hell, expressed by our Saviour, and not for-

gotten by Homer, in that Epithete of Pluto's house.

Many more there are whereof our pen shall take no notice, nor shall we urge their enquiry; we shall not enlarge with what incongruity, and how differing from the pieces of Antiquity, the Pictures of their gods and goddeffes are described, and how hereby their symbolical fense is loft; although herein it were not hard to be informed from Phornutus, Fulgentius, and Albriens. Whether Herenles be more more properly described strangling than Phornut. de tearing the Lion, as Victorius hath disputed, nor how the characters and natura deoram. figures of the Signs and Planets be now perverted, as Salmafius hathlearned- gia. ly declared. We will dispence with Bears with long tails, such as are de- Albric. de decscribed in the figures of Heaven; we shall tolerate flying Horses, black rum imagini-, Swans, Hydra's Centaur's, Harpies and Satyrs; for these are monstrosities, bus. ratities, or else Poetical fancies, whose shadowed moralities requite their fubstantial falsities. Wherein indeed we must not deny a liberty; nor is the hand of the Painter more restrainable, than the pen of the Poet. But where the real works of Nature, or veritable acts of story are to be deferibed, digressions are aberrations; and Art being but the Imitater or secondary Representer, it must not vary from the verity of the example; or describe things otherwise than they truly are or have been. For hereby introducing false Ideas of things, it perverts and deforms the face and symmetry of truth. ved ben made so (Buohishi assort so della sonella

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windy conceptions, we shall not here declare. By twa drams they shought own mindages were one to treat out of P pd ; treat as along a of CHAP. drams, that is, a quarter of an ounce, and unto they years annually encreatern

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CHAP. XX.

Of the Hieroglyphical Piffures of the Ægyptians.

Extainly of all men that suffered from the confusion of Babel, the A exprians found the best evasion; for, though words were confounded, they invented a language of things, and spake unto each other by common notions in Nature. Whereby they discoursed in filence, and were intuitively understood from the theory of their Expresses. For they asiamed the shapes of animals common unto all eyes; and by their conjunctions and compositions were able to communicate their conceptions, unto any that co-apprehended the Syntaxis of their natures. This many conceive to have been the primative way of writing, and of greater antiquity than letters: and this indeed might Adam well have spoken, who understanding the nature of things, had the advantage of natural expressions. Which the Leyptians but taking upon trust, upon their own or common opinion; from conceded mistakes they authentically promoted Errors; describing in their Hieroglyphicks, creatures of their own invention; or from known and conceded animals, erecting fignifications not inferrible from their natures.

And first, Although there were more things in nature than words which did express them; yet even in these mute and silent discourses, to express complexed significations, they took a liberty to compound and piece together creatures of allowable forms into mixtures inexistent. Thus began the descriptions of Griphins, Basilisks, Phoenix, and many more; which Emblematists and Heralds have entertained with significations answering their institutions; Hieroglyphically adding Martegrees, Wiverns, Lion-sishes, with divers others. Pieces of good and allowable invention unto the prudent Spectator, but are look'd on by vulgar eyes as literal truths, or absurd impossibilities, whereas indeed they are commendable inventions, and of

laudable fignifications.

Again, Beside these pieces sictitiously set down, and having no Copy in nature; they had many unquestionably drawn, of inconsequent signification, nor naturally verifying their intention. We shall instance but in sew, as they stand recorded by Orns. The male sex they expressed by a Vulture, because of Vultures all are semales, and impregnated by the wind; which authentically transmitted, hath passed many pens, and became the assertion of Alian, Ambrose, Basil, Isidore, Tzetzes, Philes, and others. Wherein notwithstanding what injury is offered unto the Creation in this consinement of sex, and what disturbance unto Philosophy in the concession of windy conceptions, we shall not here declare. By two drams they thought it sufficient to signific an heart; because the heart at one year weigheth two drams, that is, a quarter of an ounce, and unto fifry years annually encreaseth

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the weight of one dram, after which in the same proportion it yearly decrea- In his Philosofeth; fo that the life of a man doth not naturally extend above an hundred. Pia Barbarica. And this was not only a popular conceit, but confentaneous unto their Phy-

fical principles, as Henrnicus hath accounted it. A woman that hath but one child, they express by a Lioness; for that conceiveth but once. Fecundity they fet forth by a Goat, because but seven daies old, it beginneth to use coition. The abortion of a woman they describe by an Horse kicking a Wolf; because a Mare will cast her foal it the tread in the track of that animal. Deformity they fignifie by a Bear; and an unstable man by an Hyæna, because that animal yearly exchangeth its fex. A woman delivered of a female child, they imply by a Bull looking over his left shoulder; because if in coition a Bull part from a cow on that

fide, the Calf will prove a female.

All which, with many more, how far they consent with truth, we shall not disparage our Reader to dispute, and though some way allowable unto wifer conceits, who could distinctly receive their fignifications : yet carrying the majesty of Hieroglyphicks, and so transmitted by Authors: they crept into a belief with many, and favourable doubt with most. And thus, I fear, it hath fared with the Hieroglyphical Symboles of Scripture: which excellently intended in the species of things sacrificed, in the prohibited meats, in the dreams of Pharaoh, Joseph, and many other passages: are oft-times wrack'd beyond their symbolizations, and inlarged into constructions disparaging their true intentions.

CHAP. XXI.

Compendiously of many questionable Customs, Opinions, Pistures, Pra-Hises, and Popular Observations.

1. If an Hare cross the high-way, there are few above threescore years that are not perplexed thereat: which notwithstanding is but an Augurial terror, according to that received expression, In Auspicatum dat iter oblatus Lepus. And the ground of the conceit was probably no greater than this, that a fearful animal passing by us, portended unto us something to be feared, as upon the like confideration, the meeting of a Fox presaged some future imposture, which was a superstitious observation prohibited unto the Tens, as is expressed in the Idolatry of Maimonides, and is referred unto the fin of an observer of Fortunes, or that abuseth events unto good or bad The ground of figns, forbidden by the Law of Moles; which notwithflanding fometimes many vain obsucceeding, according to fears or defires; have left expressions and time- Deut, 18. rous expectations in credulous minds for ever.

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2. That Owls and Ravens are ominous appearers, and pre-fignifying unlucky events, as Christians yet conceive, was also an Augurial conception. Because many Ravens were seen when Alexander entred Babylon, they were thought to pre-ominate his death; and because an Owl appeared before the battel, it presaged the ruine of Crassus. Which though decrepite superstitio is, and such as had their nativity in times beyond all History, are fresh in the observation of many heads, and by the credulous and feminine party still in some Majesty among us. And therefore the Embleme of Superstition was well set out by Rippa, in the Picture of an Owl, an of superfiction Hare, and an old Woman. And it no way confirmeth the Augurial confideration, that an Owl is a forbidden food in the Law of Mofes; or that Ferufalem was threatened by the Raven and the Owl, in that expression of Isa. 34. That it should be a Court for Owls, that the Cormorant and the Bittern should possess it, and the Owl and the Raven dwell in it. For thereby was only implyed their ensuing desolation, as is expounded in the words succeeding; He shall draw upon it the line of confusion, and the stones of emptiness.

3. The falling of Salt is an authentick prefagement of ill luck, nor can every temper contemn it; from whence notwithflanding nothing can be naturally feared: nor was the same a general prognostick of future evil among the Antients, but a particular omination concerning the breach of friendship. For Salt as incorruptible, was the Symbole of friendship, and before the other service was offered unto their guests; which if it casually fell, was accounted ominous, and their amity of no duration. But whether Salt were not only a Symbole of friendship with man, but also a figure of amity and reconciliation with God, and was therefore observed in sacrifices;

is an higher speculation.

4. To break the egg shell after the meat is out, we are taught in our child-hood, and practife it all our lives; which nevertheless is but a super-Aitious relief; according to the judgement of Pliny, Huc pertinet overum, ut exrobuerii quisque, calices protinus frangi, aut eosdem coclearibus perforari; and the intent hereof was to prevent witchcraft; for lest witches should draw or prick their names therein, and veneficiously mischief their persons, they broke the shell, as Dalecampius hathrobserved.

The true Lovers knot is very much magnified, and still retained in prefents of Love among us; which though in all points it doth not make out, had perhaps its original from Nodus Herculanus, or that which was called Hercules his knot, resembling the snaky complication in the caduceus or rod of Hermes: and in which form the Zone or wollen girdle of the Bride

was fastened, as Turnebus observeth in his Adversaria.

6. When our cheek burneth, or ear tingleth, we usually say that some body is talking of us, which is an antient conceit, and ranked among fuperstitious opinions by Pliny. Absentes tinnicu aurium prasentire sermones de se receptum est, according to that distick noted by Dalecampius.

The Embleme Iconologia de Cofare Ripa.

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Which is a conceit hardly to be made out without the concession of a fignifying Genius, or universal Mercury; conducting sounds unto their

diffant subjects, and teaching us to hear by touch.

7. When we defite to confine our words, we commonly fay they are The Original spoken under the Rose; which expression is commendable, if the Rose of the proverb from any natural property may be the Symbole of silence, as Nazianze under the Rose seems to imploy in these translated verses:

Usque latet Rosa Verna suo putamine clausa, Sic os vincla serat, validisque arctetur habenis, Indicatque suis prolixa silentia labris:

And is also tolerable, if by desiring a secrecy to words spoke under the Rose, we only mean in society and compostation, from the antient custome in Symposiack meetings, to wear chaplets of Roses about their heads: and so we condemn not the Germane custome, which over the Table describeth a Rose in the seeling. But more considerable it is, if the original were such as Lemnius, and others have recorded; that the Rose was the flower of Venus, which Cupid consecrated unto Harpocrates the God of silence, and was therefore an Embleme thereof, to conceal the pranks of Venery; as is declared in this Tetrastick,

Est Rosa storeris, cujus quo facta laterent.

Harpocrati maeris, dona dicavit Amer;

Inde Rosam mensis bospes suspendit Amicis,

Convivia ut sub on dicta tacenda sciant.

8. That smoak doth follow the fairest, is an usual saying with us, and in many parts of Europe; whereof although there seem no natural ground, yet is it the continuation of a very antient opinion, as Petrus Victorius and Cansabon have observed from a passage in Atheneus: Wherein a Parasse thus describeth himself.

To every Table first I come;
Whence Porridge I am call d by some
A Capanens at stares I am,
To enter any Room a Ram;
Like whips and thongs to all I ply,
Like smoke unto the fair I fily.

9. To fit cross legg'd, or with our fingers pectinated or shut together, is accounted bad, and friends will perswade us from it. The same conceit religiously possessed the Antients, as is observable from Pliny. Poplites alternis

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genibus imponere nefas olim; and also from Athenaus, that it was an old veneficious practice, and Funo is made in this posture to hinder the delivery of Alemana: And therefore, as Pierius observeth, in the Medal of Julia Pia, the right hand of Venus was made extended with the inscription of Venus Genetrix: for the complication or pectination of the fingers was an

Hieroglyphick of impediment, as in that place he declareth.

10. The fet and statary times of pairing of nails, and cutting of hair, is thought by many a point of confideration; which is perhaps but the continuation of an antient superstition. For piaculous it was unto the Remans to pare their nails upon the Nunding, observed every ninth day; and was also feared by others in certain daies of the week; according to that of Ausonius, Unques, Mercurio, Barbam Fove, Cypride, Crines; and was one part of the wickedness that filled up the measure of Manasses, when 'tis

delivered that he observed times.

II. A common fashion it is to nourish hair upon the mouls of the face : which is the perpetuation of a very antient custome; and though innocently practifed among us, may have a superstitious original, according to that of Pliny, Nevos in facie condere religiofum babent nunc multi. From the like might proceed the fears of poling Elvelocks, or complicated hairs of the head, and also of locks longer than the other hair; they being votary at first, and dedicated upon occasion, preserved with great care, and accordingly effeemed by others, as appears by that of Apuleius, Adjuro per dalcem capillitui nodulum.

12. A custome there is in most parts of Europe to adorn Aqueducts, Spouts, and Cisterns with Lions heads: which thought no illaudable ornament, is of an Agyptian geneologie, who practifed the same under a symbolical illation. For because the Sun being in Leo, the flood of Nilus was at the full, and water became conveyed into every part, they made the spouts of their Aqueducts through the head of a Lion. And upon some coehal respects it is not improbable the great Mogull or Indian King doth bear

for his Arms a Lion and the Sun.

Symbolical agnifications

13. Many conceive there is somewhat amis, and that as we usually say, they are unbleft untill they put on their girdle. Wherein (although meft of the girdles. know not what they say) there are involved unknown confiderations. For by a girdle or cincture are symbolically implied Truth, Resolution, and readiness unto action, which are parts and virtues required in the service of God. According whereto we find that the Israelites did eat the Paschal Lamb with their loins girded; and the Almighty challenging Job, bids him gird up his loins like a man. So runneth the expression of Peter, Gird up the loins of your minds, be fober and hope to the end; fo the high Priest was girt with the girdle of fine linnen: so is it part of the holy habit to have our loins girt about with truth; and so is it also said concerning our Saviour, Righteousness shall be the girdle of his loins, and faithfulness the girdle of his reins.

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Moreover by the girdle, the heart and parts which God requires, are divided from the inferiour and epithumetical organs; implying thereby a memento unto purification and cleanness of heart, which is commonly de- Concupiscenfiled from the concupifence and affection of those parts; and therefore un- tial. to this day the Fens do bless themselves when they put on their zone or cincture. And thus may we make out the doctrine of Pythagoras, to offer facrifice with our feet naked, that is, that our inferiour parts, and fartheft removed from reason might be free, and of no impediment unto us. Thus Ashilles, though dipped in Styx, yet having his heel untouched by that water; although he were fortified elsewhere, he was flain in that part, as only vulnerable in the inferiour and brutal part of Man. This is that part of Eve and her posterity the devil still doth bruise; that is, that part of the soul which adhereth unto earth, and walks in the parhs thereof. And in this fecondary and symbolical sense it may be also understood, when the Priests in the Law washed their feet before the sacrifice; when our Saviour washed the feet of his Disciples, and said unto Peter, If I wash not thy feet, thou half no part in me. And thus is it symbolically explainable, and implyeth purification and cleanness, when in the burnt offerings the Priest is commanded to wash the inwards and legs thereof in water; and in the peace and fin-offerings, to burn the two kidneys, the fat which is about the flanks, and as we translate it, the Caul above the Liver. But whether the Fews when they bleffed themselves, had any eye unto the words of Jeremy, Jer. 13. wherein God makes them his Girdle; or had therein any reference unto the Girdle, which the Prophet was commanded to hide in the hole of the rock of Emphraces, and which was the type of their captivity, we leave unto higher conjecture.

14. The Picture of the Creator, or God the Father in the shape of an Certain Hereold Man, is a dangerous piece, and in this Fecundity of feets, may revive ticks who afthe Anthropomorphites. Which although maintained from the expression cribed humane of Daniel, I beheld where the Antient of daies did fit, whose hair of his God after head was like the pure wool; yet may it be also derivative from the Hiero- which they glyphical description of the Leyptians; who to express their Eneph, or conscived he Creator of the World, described an old man in a blew mantle, with an egg created man in his mouth; which was the Embleme of the World. Surely those Hea- in his likeness. thens, that notwithstanding the exemplary advantage in Heaven, would endure no pictures of Sun or Moon, as being visible unto all the World, and needing no representation, do evidently accuse the practice of those pencils that will describe invisibles. And he that challenged the boldest hand unto the picture of an Echo, must laugh at this attempt, not only in the defeription of invisibility, but circumscription of Ubiquity, and setching un-

der lines incomprehensible circularity. The pictures of the Agyptians were more tolerable, and in their sacred

letters more veniably expressed the apprehension of Divinity. For though they implyed the same by an eye upon a Scepter, by an Ægles head, a

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Crocodile, and the like: yet did these manual descriptions pretend no corporal representations; nor could the people misconceive the same unto real correspondencies. So though the Cherub carried some apprehension of Divinity, yet was it not conceived to be the shape thereof: and so perhaps because it is metaphorically predicated of God, that he is a consuming fire, he may be harmlesly described by a flaming representation; Yet if, as some will have it, all mediocrity of folly is foolish, and because an unrequitable evil may enfue, an indifferent convenience must be omitted; we shall not urge such representments; we could spare the holy Lamb for the picture of our Saviour, and the Dove or fiery Tongues to represent the Holy Ghost.

15. The Sun and Moon are usually described with humane faces; whether herein there be not a Pagan imitation, and those visages at first implyed Apollo and Diana, we may make some doubt, and we find the statua of the Sun was framed with raies about the head, which were the indiciduous and unshaven locks of Apollo. We should be too Iconomical to question the pictures of the winds, as commonly drawn in humane heads, and with their cheeks distended, which notwithstanding we find condemned by Minuting, as answering poetical fancies, and the gentle description of Eolus, Boreas,

and the feigned Deities of winds.

16. We shall not, I hope, disparage the resurrection of our Redeemer, If we fay the Sun doth not dance on Easter day. And though we would willingly affent unto any sympathetical exultation, yet cannot conceive therein any more than a Tropical expression. Whether any such motion there were in that day wherein Christ arised, Scripture hath not revealed, which hath been punctual in other Records concerning folary miracles: and the Areopagite that was amazed at the Eclipse, took no notice of this. And if metaphorical expressions go so far, we may be bold to affirm, not only that one Sun danced, but two arose that day: That light appeared at his nativity, and darkness at his death, and yet a light at both; for even that darkneis was a light unto the Gentiles, illuminated by that obscurity. That 'twas the first time the Sun set above the Horizon; that although there were darkneis above the earth, there was light beneath it, nor dare we fay that hell was dark if he were in it.

17. Great conceits are raised of the involution of membranous covering, commonly called the Silly-how, that sometimes is found about the heads of children upon their birth, and is therefore preserved with great care, not only as medical in diseases, but effectual in success, concerning the Infant and others; which is surely no more than a continued superstition. For hereof we read in the life of Antonius delivered by Spartianus, that children are born sometimes with this natural cap; which Mid-wives were wont to fell unto credulous Lawyers, who had an opinion it advantaged

their promotion.

But to speak strictly, the effect is natural, and thus to be conceived; Animal conceptions have three teguments, or membranous films which cover

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them in the womb, that is, the Corion, Amnios, and Allantois; the Corion is the outward membrane wherein are implanted the Veins, Arteries and umbilical veffels, whereby its nourishment is conveyed: the Allantois a thin coat feated under the Corion, wherein are received the watery separations conveyed by the Urachus, that the acrimony thereof should not offend the skin. The Amnios is a general investment, containing the sudorous or thin ferofity perspirable through the skin. Now about the time when the Infant breaketh these coverings, it sometime carrieth with it about De formato the head a part of the Amnios or nearest coat; which saith Spiegelius, either fath, proceedeth from the toughness of the membrane, or weakness of the Infant that cannot get clear thereof. And therefore herein fignifications are natural and concluding upon the Infant, but not to be extended unto magical

fignalities, or any other person.

18. That 'tis good to be drunk once a moneth, is a common flattery of fenfuality, supporting it self upon Physick, and the healthfull effects of inebriation. This indeed feems plainly affirmed by Avicenna, a Physitian of great authority, and whose Religion prohibiting Wine, could less extenuate ebriety. But Averroes a man of his own faith was of another belief; refraining his ebriety unto hilarity, and in effect making no more thereof than Seneca commendeth, and was allowable in Cato; that is, a fober incalefcence and regulated affuation from wine; or what may be conceived between Joseph and his brethren, when the text expresseth they were merry, or drank largely; and whereby indeed the commodities fet down by Avicenna, that is, alleviation of spirits, resolution of superfluities, provocation of sweat and urine may also ensue. But as for dementation, sopition of reason, and the diviner particle from drink, though American Religion approve, and Pagan piety of old hath practifed it, even at their facrifices, Christian morality and the doctrine of Christ will not allow. And surely that Religion which excuseth the fact of Noah, in the aged surprizal of fix hundred years, and unexperted inebriation from the unknown effects of Wine, will neither acquit ebriofity, nor ebriety in their known and intended perversions.

And indeed, although fometimes effects succeed which may relieve the body, yet if they carry mischief or peril unto the soul, we are therein re-Brainable by Divinity, which circumferibeth Phylick, and circumffantially determines the use thereof. From natural considerations, Physick commendeth the use of venery; and happily, incest, adultery, or stupration may prove as Physically advantagious, as conjugal copulation, which notwithstanding must not be drawn into practise. And truly effects, consequents, or events which we commend, arise oft-times from waies which we all condemn. Thus from the fact of Lot, we derive the generation of Ruth, and bleffed Nativity of our Saviour; which notwithstanding did not extenuate the incessuous ebriety of the generator. And if, as is commonly urged, we think to extenuate ebriety from the benefit of vomit oft succeed-

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ing, Egyptian sobriety will condemn us, who purged both waies twice a moneth, without this perturbation: and we foolithly contemn the liberal hand of God, and ample field of medicines which foberly produce that

Why the Devil is common-Ly faid to appear with a cloven foor.

Livit. 17.

In his Damonemania.

19. A conceit there is, that the Devil commonly appeareth with a cloven hoof, wherein although it feem excessively ridiculous, there may be somewhat of truth; and the ground thereof at first might be his frequent appearing in the shape of a Goat, which answers that description. This was the opinion of antient Christians concerning the apparition of Panites, Fauns and Satyrs; and in this form we read of one that appeared unto Antony in the wilderness. The same is also confirmed from expositions of holy Scripture; for whereas it is faid, Thou shalt not offer unto Devils, the Original word is Seghnirim, that is, rough and hairy Goats, because in that shape the Devil most often appeared; as is expounded by the Rabbins, as Tremellius hath also explained; and as the word Ascimab, the god of Emath is by some conceived. Nor did he only assume this shape in elder times, but commonly in later daies, especially in the place of his worship : If there be any truth in the confession of Witches, and as in many stories it stands confirmed by Rodinus. And therefore a Goat is not improperly made the Hieroglyphick of the Devil, as Pierius hath expressed it. So might it be the Embleme of fin, as it was in the fin-offering; and so likewise of wicked and finfull men, according to the expression of Scripture in the method of the last distribution; when our Saviour shall separate the Sheep from the Goats, that is, the fons of the Lamb from the children of the Devil.

CHAP. XXII.

Of Some others.

Hat temperamental dignotions, and conjecture of prevalent humours, may be collected from spots in our nails, we are not averse to concede. But yet not ready to admit fundry divinations, vulgarly raised upon them. Nor do we observe it verified in others, what Cardan discovered as a property in himself: to have found therein some figns of most events that ever happened unto him. Or that there is much confiderable in that doctrine of Cheiromancy, that spots in the top of the nails do signifie things past: in the middle, things present; and at the bottom, events to come. That white specks presage our felicity, blew ones our missortunes. That those in the nail of the thumb, have fignifications of honour; those in the fore-finger, of riches; and so respectively in other fingers, (according to Planetical relations, from whence they receive their names) as Tricaffus hath taken up, and Picciolus well rejecteth.

We shall not proceed to querie, what truth there is in Palmestrie, or

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divination from those lines in our hands, of high denomination. Although if any thing be therein, it feems not confinable unto man; but other creatures are also considerable; as is the fore-foot of the Mool, and especially of the Monkey; wherein we have observed the table line, that of life, and of the liver.

2. That Children committed unto the school of Nature, without in-Aitution, would naturally speak the primitive language of the World, was the opinion of antient heathens, and continued fince by Christians: who will have it our Hebren tongue, as being the language of Adam. That this were true, were much to be defired, not only for the easie attainment of that useful tongue, but to determine the true and primitive Hebrew. For whether the present Hebrew, be the unconfounded language of Babel, and that which remained in Heber was continued by Abraham and his posterity, or rather the language of Phanicia and Canaan, wherein he fived, some learned men, I perceive, do yet remain unsatisfied. Although, I contels, probability stands fairest for the former: nor are they without all reafon, who think that at the confusion of tongues, there was no constitution of a new speech in every family: but a variation and permutation of the old, out of one common language raising several Dialects; the primitive might undertongue remaining fill intire. Which they who retained, might make a fhift fland the lanto understand most of the rest. By vertue whereof in those primitive times guage of seveand greener confusions, Abraham of the family of Heber was able to con- ral Nations. verse with the Chaldeans, to understand Mesopotamians, Chananites, Philistins, and Agyptians: whose several Dialects he could reduce unto the Original and primitive tongue, and so to be able to understand them.

3. Though useless unto us, and rather of molestation, we commonly re- The same is frain from killing Swallows, and effeem it unlucky to deftroy them: whe-extant in the ther herein there be not a Pagan relique, we have some reason to doubt. 8 th. of Ather For we read in Elian, that these birds were facred unto the Penates or hous- news. hold gods of the antients, and therefore were preserved. The same they also honoured as the nuncio's of the spring; and we find the Rhodians had

a folemn fong to welcome in the Swallow.

4. That Candles and Lights burn dim and blew at the apparition of spirits, may be true, if the ambient air be full of sulphurious spirits, as it happeneth oft-times in mines; where damps and acide exhalations are able to extinguish them. And may be also verefied, when spirits do make Why candles themselves visible by bodies of such effluviums. But of lower considera- may burn tion is the common foretelling of ftrangers, from the fungous parcels about blew, before the wicks of Candles: which only fignyfieth a moist and pluvious air about the apparition them, hindering the avolation of the light and favillous particles: where of a spirit. upon they are forced to fettle upon the Snaft.

5. Though Coral doth properly preserve and fasten the Teeth in men, yet is it used in Children to make an easier passage for them: and for that intent is worn about their necks. But whether this custome were not super-

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Zib. 32.

stitiously founded, as presumed an amulet or desensative against fascination, is not beyond all doubt. For the same is delivered by Pliny. Aruspices religiosum Coralli gestamen amoliendis periculis arbitrantur; & surculi in-

fantia alligati, tutelam habere creduntur.

6. A strange kind of exploration and peculiar way of Rhabdomancy, is that which is used in mineral discoveries; that is, with a forked hazel, commonly called Moses his Rod, which freely held forth, will stir and play if any mine be under it. And though many there are who have attempted to make it good, yet untill better information, we are of opinion with Agricola, that in it self it is a fruitless exploration, strongly scenting of Pagan derivation, and the virgula divina proverbially magnified of old. The ground whereof were the Magical rods in Poets, that of Pallas in Homer, that of Mercury that charmed Argus, and that of Circe which transformed the followers of Ulysses. Too boldly usurping the name of Moses rod, from which notwithstanding, and that of Aaron, were probably occasioned the sables of all the rest. For that of Moses must needs be famous unto the Agyptians; and that of Aaron unto many other Nations, as being preserved in the Ark untill the destruction of the Temple built by Solomon.

7. A practise there is among us to determine doubtfull matters, by the opening of a book, and letting fall a staff; which notwithstanding are antient fragments of Pagan divinations. The first an imitation of Sortes Homerica, or Virgiliana, drawing determinations from verses casually occurring. The same was practised by Severns, who entertained ominous hopes of the Empire, from that verse in Virgil, Tu regere imperio populos Romane memento; and Cordianus who reigned but sew daies, was discouraged by another, that is, Ostendunt terris hunc tantum fata, necultra esse sum and the sum of the second series of the Emperour Heraclins, before his expedition into Asia

minor, is delivered by Cedrenus.

As for the Divination or decision from the staff; it is an Augurial relique, and the practise thereof is accused by God himself; My people ask counsel of their stocks; and their staff declareth unto them. Of this kind of Rhabdomancy was that practised by Nebuchaddonofor in that Caldean miscellany, delivered by Ezekiel; The King of Babylon stood at the parting of the way, at the head of two waies to use divination, he made his arrows bright, he consulted with Images, he looked in the Liver; at the right hand were the divinations of Jerusalem. That is, as Estims expounded it, the left way leading unto Rabbah, the chief City of the Ammonites, and the right unto Jerusalem, he consulted Idels and entrails, he threw up a bundle of arrows to see which way they would light; and falling on the right hand, he marched towards Jerusalem. A like way of Belomancy or Divination by Arrows hath been in request with Soyibians, Alanes, Germans, with the Africans and Turks of Algier. But of another nature was that

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that which was practifed by Elisha, when by an Arrow shot from an Eastern window, he pre-fignified the destruction of Syria; or when according a Kingis, 175 unto the three stroaks of Foash, with an Arrow upon the ground, he foretold the number of his victories. For thereby the spirit of God particular'd the same; and determined the stroaks of the King, unto three, which the hopes of the Prophet expected in twice that number.

We are unwilling to enlarge concerning many other; only referring unto Christian confiderations, what natural effects can reasonably be expeeted, when to prevent the Ephialtes or night-Mare, we hang up an hollow stone in our stables; when for amulets against Agues, we use the chips of Gallows and places of execution. When for Warts, we rub our hands before the Moon, or commit any maculated part unto the touch of the dead. Swarms hereof our learned Selden and critical Philologers might illustrate; whose abler performances our adventures do but sollicit. Mean while I hope they will plaufibly receive our attempts, or candidly correct our miscon-

jectures.

8. We cannot omit to observe, the tenacity of antient customs, in the Dion Cassii. nominal observation of the several daies of the week, according to Gentile lib. 37. and Pagan appellations: for the Original is very high, and as old as the antient Agyptians, who named the same according to the seven Planets, the admired stars of Heaven, and reputed Deities among them. Unto every one affigning a feveral day; not according to their coelestial order, or as they are disposed in heaven; but after a diatesseron or musical fourth. For beginning Saturday with Saturn, the supremest Planet, they accounted by Jupiter and Mars unto Sol, making Sunday. From Sol in like manner by Venus and Mercury unto Luna, making Munday; and so through all the rest. And the fame order they confirmed by numbering the hours of the day unto twenty four, according to the natural order of the Planets. For beginning to account from Saturn, Jupiter, Mars, and so about unto twenty four, the next day will fall unto Sol, whence accounting twenty four, the next will happen unto Luna, making Munday. And so with the rest, according to the account and order observed still among us.

The Tens themselves in their Astrological considerations, concerning Nativities, and planitary hours, observe the same order upon as witty foundations. Because by an equal interval, they make seven triangles, the bases whereof are the seven sides of a septilateral figure, described within a circle. That is, if a figure of feven fides be described in a circle, and at the angles thereof the names of the Planets be placed, in their natural order on it: Cujus Icon nif we begin with Saturn, and successively draw lines from angle to angle, pad dost. Fafuntil feven equicrural triangles be described, whose bases are the seven sides farel, chip. 11; of the septilateral figure; the triangles will be made by this order. The Et Fabrit. Pafirst being made by Saturn, Sol and Luna, that is, Saturday, Sunday, and daantum.

Munday; and so the rest in the order still retained.

But thus much is observable, that however in coelestial considerations

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they embraced the received order of the Planets, yet did they not retain either characters, or names in common use among us; but declining humane denominations, they assigned them names from some remarkable qualities; as is very observable in their Stars and splendent Planets, that is, of Mars and Venus. But the change of their names disparaged not the considerations of their natures; nor did they thereby reject all memory of rhese remarkable Stars; which God himself admitted in his Tabernacle, if conjecture will hold concerning the Golden Candlestick; whose shaft resembled the Sun, and six branches the Planets about it.

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COLUMN TO SECOND

THE SIXTH BOOK

Of Sundry common opinions Cosmographical and Historical.

The first Discourse comprehended in several Chapters.

CHAP. I.

Concerning the beginning of the World, that the time thereof is not precifely to be known, as men generally suppose: Of mens enquiries in what season or point of the Zodiack it began. That as they are generally made they are invain, and as particularly applied uncertain. Of the division of the Seasons and four quarters of the year, according to Astronomers and Physitians. That the common compute of the Ancients, and which is yet retained by most, is unreasonable and erronious. Of some Divinations and ridiculous diductions from one part of the year to another. And of the Providence and Wisdome of God in the sight and motion of the Sun.



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Oncerning the World and its temporal circumicriptions, whoever shall strictly examine both extreams, will easily the World not perceive there is not only obscurity in its end, but its be- certainly deginning; That as its period is inscrutable, so is its nati- terminable, vity indeterminable: That as it is presumption to euquire after the one, so is there no rest or satisfactory decifion in the other: and hereunto we shall more readily

affent, if we examine the informations, and take a view of the several difficulties in this point; which we shall more easily do, if we consider the different conceits of men, and duly perpend the imperfections of their difcoveries.

And first, The histories of the Gentiles afford us flender satisfaction, nor

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can they relate any story, or affix a probable point to its beginning. For some thereof (and those of the wisest among them) are so far from determining its beginning, that they opinion and maintain it never had any at all; as the doctrine of Epicarus implyeth, and more politively Ariftotle in his books De Calo declareth. Endeavouring to confirm it with arguments of reason, and those appearingly demonstrative; wherein his labours are rational, and uncontroulable upon the grounds affumed, that is, of Physical generation, and a Primary or first matter, beyond which no other hand was apprehenped. Butherein we remain sufficiently satisfied from Moses, and the doctrine delivered of the Creation; that is, a production of all things ont of nothing, a formation not only of matter, but of form, and a materia-

tion even of matter it felf.

Others are so far from defining the Original of the World, or of mankind, that they have held opinions not only repugnant unto Chronologie, but Philosophie; that is, that they had their beginning in the foil where they inhabited; affuming or receiving appellations conformable unto fuch conceits. So did the Athenians term themselves autox 30005 or Aborigines, and in testimony thereof did wear a golden Insect on their heads; the same name is also given unto the Inlanders, or Midland Inhabitants of this Island by Cafar. But this is a conceit answerable unto the generation of the Giants; not admittable in Philosophy, much less in Divinity, which distinctly informeth we are all the seed of Adam, that the whole World perished unto eight persons before the flood, and was after peopled by the Colonies of the fons of Noah. There was therefore never any Autochthon, or man arising from the earth but Adam; for the woman being formed out of the rib, was once removed from earth, and framed from that Element funder incarnation. And so although her production were not by copulation, yet was it in a manner feminal : For if in every part from whence the feed doth flow, there be contained the Idea of the whole; there was a feminality and contracted Adam in the rib, which by the information of a foul, was individuated into Eve. And therefore this conceit applyed unto the Original of man, and the beginning of the World, is more justly appropriable unto its end. For then indeed men shall rise out of the earth: the graves shall shoot up their concealed seeds, and in that great Autumn, men

shall spring up, and awake from their Chaos agair. Others have been so blind in deducing the Original of things, or delivering their own beginnings, that when it hath fallen into controversie, they have not recurred unto Chronologie, or the Records of time: but betaken themselves unto probabilities, and the conjecturalities of Philosophy. Thus when the two antient Nations, Agyptians and Scythians contended for Antiquity, the Agyptians pleaded their Antiquity from the fertility of their foil, inferring that men there first inhabited, where they were with

most facility sustained; and such a land did they conceive was Agypt. The Seythians, although a cold and heavier Nation, urged more acutely, deducing

Why the Athentans did wear a golden Infect upon their head.

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deducing their Arguments from the two active Elements and Principles of all things, fire and water. For if of all things there was first an union, and that fire over-ruled the rest: surely that part of earth which was coldest, would first get free, and afford a place of habitation. But if all the earth were first involved in water, those parts would surely first appear, which were most high, and of most elevated situation, and such was theirs. These reasons carried indeed the Antiquity from the Agyptians, but confirmed it not in the Soythians: for as Herodotus relateth from Pargitans their

first King unto Darins, they accounted but two thousand years.

As for the Agyptians, they invented another way of tryal: for as the That men same Author relateth, Pfammitichus their King attempted this decision by speak not by a new and unknown experiment, bringing up two Infants with Goats, and natural inwhere they never heard the voice of man; concluding that to be the an-infruction cientest Nation, whose language they should first deliver. But herein he and imitation. forgot that speech was by instruction, not instinct, by imitation, not by nature, that men do speak in some kind but like Parrats, and as they are infructed, that is, in simple terms and words, expressing the open notions of things; which the second act of Reason compoundeth into propositions, and the last into Syllogisms and forms of ratiocination. And howloever the account of Manethon the Agyptian Priest run very high, and it be evident that Mizraim peopled that Countrey (whose name with the Hebrens it beareth unto this day) and there be many things of great Antiquity related in Holy Scripture, yet was their exact account not very antient; for Prolomy their Country-man beginneth his Astronomical compute no higher than Nabonasser, who is conceived by some the same with Salmanasser. As for the Argument deduced from the fertility of the foil, duly enquired, it rather overthroweth than promoteth their antiquity; for that Countrey whose fertility they so advance, was in antient times no firm or open land, but some vast lake or part of the Sea, and became a gained ground by the and and limous matter brought down by the River Wilus, which fetled by degrees into a firm land. According as is expressed by Strabo, and more at large by Herodotss, both from the Agyptian tradition and probable inducements from reason, called therefore flowii donum, an accession of earth, or tract of land acquired by the River.

Laftly, Some indeed there are, who have kept Records of time, and of a confiderable duration, yet do the exactest thereof afford no satisfaction concerning the beginning of the World, or any way point out the time of its creation. The most Authentick records and best approved Antiquity are those of the Chaldeans; yet in the time of Alexander the Great, they attained not so high as the flood. For as Simplicius relateth, Aristotle required of Califtbenes, who accompanied that Worthy in his expedition, that at his arrive at Babylon, he would enquire of the Antiquity of their Records: and those upon compute he found to amount unto 1903 years; which account notwithstanding ariseth no higher than 95 years after the flood. The

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Arcadians I confeis, were effectmed of great Antiquity, and it was usually faid they were before the Moon, according unto that of Seneea, Sydus post veteres Arcades editum; and that of Ovid, Luna gens prior illa fuit. But this as Cenferinas observeth, must not be taken grolly, as though they were existent before that Luminary; but were so esteemed, because they obferved a fet course of year, before the Greeks conformed their year unto the

courfe and motion of the Moon.

Thus the Heathens affording no fatisfaction herein, they are most likely to manifest this truth, who have been acquainted with holy Scripture, and the facred Chronologie delivered by Mofes, who distinctly fets down this account, computing by certain intervals, by memorable Aras, Epoches, or terms of time. As from the Creation unto the flood, from thence unto Abraham, from Abraham unto the departure from Agypt, &c. Now in this number have only been Samarisans, Jews and Christians. For the Jews they agree not in their accounts, as Bodine in his method of History hath observed ont of Baal Seder, Rabbi Nassom, Gersom, and others; in whose Scripture con- compute the age of the World is not yet 5400 years. The same is more evidently observable from two most learned Fens, Philo and Fosephus; who very much differ in the accounts of time, and variously sum up these intervals affented unto by all. Thus Philo from the departure out of Agypt unto the building of the Temple, accounts but 920 years, but Fofephus lets down 1062. Phile from the building of the Temple to its destruction 440. Fosphus 473: Philo from the Creation to the destruction of the Temple 3373. but Fofephus 3513. Philo from the Deluge to the destruction of the Temple 1718, but Josephus 1913. In which computes there are manifest disparities, and such as much divide the concordance and harmony of times.

> For the Samaritans; their account is different from these or any others; for they account from the creation to the deluge, but 1302 years; which cometh to pass upon the different account of the ages of the Patriarchs set down when they begat children. For whereas the Hebrew, Greek and Latine texts account Fared 162 when he begat Enoch, they account but 62, and so in others. Now the Samaritans were no incompetent judges of times and the Chronologie thereof; for they embraced the five books of Moses, and as it seemeth, preserved the Text with far more integrity than the Jews; who as Tertullian, Chryfostom, and others observe, did several waies corrupt the same, especially in passages concerning the prophesies of Christ; So that as Jerome professeth, in his translation he was fain sometime to relieve himself by the Samaritane Pentateuch; as amongst others in that Text, Deuteronomie 27. Maledictus omnis qui non permanserit in omnibus que scripta sunt in libro Legis. From hence Saint Paul inferreth there is no justification by the Law, and urgeth the Text according to the Septuagint. Now the Jews to afford a latitude unto themselves, in their copies expunged the word 50 or Syncategorematical term omnis: wherein lieth the strength of the Law, and of the Apostles argument: but the Sa-

Different accounts upon eerning the Age of the World.

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As for Christians from whom we should expect the exactest and most concurring account, there is also in them a manifest disagreement, and such as is not easily reconciled. For first, the Latines accord not in their account; to omit the calculation of the Antients, of Austin, Bede, and others, the Chronologie of the Moderns doth manifestly diffent. Fofephus Scaliger, whom Helvious seems to follow, accounts the Creation in 765 of the fulian period; and from thence unto the Nativity of our Saviour alloweth 3947 years; But Dionyfins Petavins a learned Chronologer differenth from this compute almost 40 years; placing the Creation in the 730 of the fulian period, and from thence unto the Incarnation accounteth 3983

For the Greeks; their accounts are more anomalous; for if we recur unto antient computes, we shall find that Clemens Alexandrinus, an antient Father and Preceptor unto Origen, accounted from the Creation unto our Saviour 5604 years; for in the first of his Stromaticks, he collecteth the time from Adam unto the death of Commodus to be 5 858 years; now the death of Commodus he placeth in the year after Christ 194, which number dedueted from the former, there remaineth 5664. Theophilus Bilhop of Antioch accounteth unto the Nativity of Christ 5515, deduceable from the like way of compute, for in his first book ad Antolychum, he accounteth from Adam unto Aurelius Verus 5695 years; now that Emperor died in the year of our Lord 1 80, which deducted from the former fum, there remaineth 5515. Julius Africanus an antient Chronologer, accounteth somewhat less, that is, 5500. Eusebius, Orosius and others diffent not much from

this, but all exceed five thousand.

The later compute of the Greeks, as Peravius observeth, hath been reduced unto two or three accounts. The first accounts unto our Saviour 5501, and this hath been observed by Nicephorns, Theophanes, and Maximus. The other accounts 5509; and this of all at prefent is generally re- By what asceived by the Church of Constantinople, observed also by the Muscovite, World hath as I have seen in the date of the Emperors letters; wherein the year of ours lasted 7154 1645, was from the year of the World 7154, which doth exactly agree unto years. this last account 5509, for if unto that sum be added 1645, the product will be 7154, by this Chronologie are many Greek Authors to be understood; and thus is Martinus Crusius to be made out, when in his Turcogracian' history he delivers, the City of Constantinople was taken by the Turks in the year see, that is, 6961. Now according unto these Chronologists, the Prophecie of Elias the Rabbin, fo much in request with the Jens, and in some credit also with Christians, that the World should last but fix thousand years; unto these I say, it hath been long and out of memory disproved, for the Sabbatical and 7000 year wherein the World should end (as did the Creation on the seventh day) unto them is long ago expired; they are Rr2

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proceeding in the eight thousand year, and numbers exceeding those dayes which men have made the types and shadows of these. But certainly what Marcus Leo the Jew conceiveth of the end of the Heavens, exceedeth the account of all that ever shall be; for though he conceiveth the Elemental Frame shall end in the Seventh or Sabbatical Millenary, yet cannot he opinion the Heavens and more durable part of the Creation shall perish before seven times seven, or 49, that is, the quadrant of the other seven, and person of the other seven, and person of the other seven.

feet Jubilee of thousands.

Thus may we observe the difference and wide dissent of mens opinions, and thereby the great incertainty in this establishment. The Hebrews not only differting from the Samaritans, the Latines from the Greeks, but every one from another. Insomuch that all can be in the right it is impossible; that any one is so, not with assurance determinable. And therefore as Petavini confessent, to effect the same exactly without inspiration it is impossible, and beyond the Arithmetick of any but God himself. And therefore also what satisfaction may be obtained from those violent Disputes, and eager Enquiries in what day of the month the world began, either of March or October; likewise in what Face or Position of the Moon, whether at the prime or full, or soon after, let our second and serious considerations determine.

The cause of fo different Accounts about the Age of the World.

Now the reason and ground of this dissent, is the unhappy difference between the Greek and Hebrew Editions of the Bible, for unto these two Languages have all Translations conformed; the holy Scripture being first delivered in Hebrew, and first translated into Greek. For in the Hebrew; it is incontrovertibly the primitive and surest Text to rely on, and to preserve the same entire and uncorrupt, there hath been used the highest Caution Humanity could invent. For as R. Ben. Maimon hath declared, if in the Copying thereof one Letter were written twice, or if one Letter but touched another, that Copy was not admitted into their Synagogues, but only allowable to be read in Schools and private Families. Neither were they carefull only in their exact number of their Sections of the Law, but had also the curiosity to number every word, and affixed the Account unto their several Books. Notwithstanding all which, divers corruptions ensued, and several depravations slipt in, arising from many and manifest grounds, as hath been exactly noted by Morinus in his Preface to the Septuagint.

Corsuption even in the Hebrew Text of the Bible.

As for the Septuagint, it is the first and most ancient Translation; and of greater Antiquity then the Chaldee version; occasioned by the request of Ptolomens Philadelphus King of Egypt, for the ornament of his memorable Library; unto whom the High Priest addressed six Jens out of every Tribe, which amounteth unto 72; and by these was effected that Translation we usually term the Septuagint, or Translation of seventy. Which name, however it obtain from the number of their persons, yet in respect of one common Spirit, it was the Translation but as it were of one man. For as the story selateth, although they were set apart and severed from each other, yet

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were their Translations found to agree in every point, according as is rela- The Credit ted by Philo and Josephus; although we find not the same in Aristans, who of the Septus-

hath expresly treated thereof.

This Translation in antient times was of great authority; by this many of the Heathens received some notions of the Creation and the mighty works Philocratorem of God: This in express terms is often followed by the Evangelists, by the de 72 inter-Apostles, and by our Saviour himself in the Quotations of the Old Testa- pretibus. ment. This for many years was used by the Jews themselves, that is, such as did Hellenize and dispersedly dwelt out of Palestine with the Greeks; and this also the succeeding Christians and antient Fathers observed; although there succeeded other Greek versions, that is, of Aquila, Theodosius, and Symmachus; for the Latine Translation of Ferom called now the Vulgar, was about 800 years after the Septuagint; although there was also a Latine Translation before, called the Italick version. Which was after Prafat, in Paloft upon the general reception of the Translation of S. Jerome. Which not- ralipom. withstanding (as he himself acknowledgeth) had been needless, if the Septuagint Copies had remained pure, and as they were first translated. But, (beside that different Copies were used, that Alexandria and Egypt followed the Copy of Hesychius; Antioch and Constantinople that of Lucian the Martyr, and others that of Origen) the Septuagint was much depraved, not only from the errors of Scribes, and the emergent corruptions of time, but malicious contrivance of the Jews; as Justin Martyr hath declared, in his learned Dialogue with Tryphon, and Morinus hath learnedly shewn from De Hebrai & many confirmations.

Whatfoever Interpretations there have been fince, have been especially affected with reference unto these, that is, the Greek and Hebrew Text, the Translators sometimes following the one, sometimes adhering unto the other, according as they found them consonant unto Truth, or most correspondent unto the Rules of Faith. Now however it commeth to pass,

these two are very different in the enumeration of Genealogies, and particular accounts of time; for in the second Interval, that is, between the Flood and Abraham, there is by the Septuagint introduced one Cainan to be the Son of Arphaxad and Father of Salah; whereas in the Hebrew there is no mention of fuch a person, but Arphaxad is set down to be the Father of Salab. But in the first Interval, that is, from the Creation unto the Flood, their disagrement is more considerable: for therein the Greek exceedeth the Hebrew, and common account almost 600 years. And 'tis indeed a thing not very strange, to be at the difference of a third part, in

so large and collective an account, if we consider how differently they are set forth in minor and less mistakable numbers. So in the Prophesie of Fonah, both in the Hebrew and Latine Text, it is said, Yet forty dayes

and Nineveh shall be overthrown : But the Septuagint faith plainly, and that in letters at length, Toess nuces, that is, yet three dayes and Nineveh shall be destroyed. Which is a difference not newly crept in, but an ob-

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fervation very antient, discussed by Austin, and Theodoret, and was conceived an error committed by the Scribe. Men therefore have raised different computes of time, according as they have followed their different Texts; and so have lest the History of times far more perplexed then Chro-

nology hath reduced.

Again, However the Texts were plain, and might in their numerations agree, yet were there no small difficulty to set down a determinable Chronology, or establish from hence any fixed point of time. For the doubts concerning the time of the Judges are inexplicable; that of the Reigns and Succession of Kings is as perplexed; it being uncertain whether the years both of their Lives and Reigns ought to be taken as compleat, or in their beginning and but current accounts. Nor is it unreasonable to make some doubt whether in the first Ages, and long Lives of our Fathers, Mofes doth not sometime account by full and round numbers, whereas Arietly taken they might be some sew years above or under; as in the Age of Noah, it is delivered to be just five hundred when he begat Som; whereas perhaps he might be somewhat above or below that round and compleat number. For the same way of speech is usual in divers other expressions : Thus do we fay the Septuagint, and using the full and articulate number, do write the Translation of Seventy; whereas we have shewn before, the precise number was Seventy Two. So is it faid that Christ was three dayes in the grave; according to that of Matthew, as Jonas was three dayes and three nights in the Whales belly, fo shall the Son of Man be three dayes and three nights in the Heart of the Earth: which notwithstanding must be taken Synecdochically; or by understanding a part for an whole day; for he remained but two nights in the grave; for he was buried in the Afternoon of the first day, and arose very early in the morning on the third; that is, he was interred in the Eve of the Sabbath, and arose the morning after it.

Moreover, although the number of years be determined and rightly understood, and there be without doubt a certain truth herein; yet the Text speaking obscurely or dubiously, there is oft-times no slender difficulty at what point to begin or terminate the account. So when it is faid Exed. 12. the Sojourning of the Children of Ifrael who dwelt in Egypt was 430 years, it cannot be taken fluictly, from their first arrival into Egypt, for their Habitation in that Land was far less; but the account must begin from the Covenant of God with Abraham; and must also comprehend their sojourning in the Land of Canaan, according as is expressed, Gal. 3. The Covenant that was confirmed before of God in Chrise, the Law which was 430 years after cannot disanul. Thus hath it also hapned in the account of the 70 years of their Captivity, according to that of Feremy, Chap. 20. This whole Land shall be a desolation, and these Nations shall serve the King of Babylon 70 years. Now where to begin or end this Compute, ariseth no small difficulty; for there were three remarkable Captivities and deportations of the Jews. The first was in the third or fourth year of Joachim, and first of Nabuchodonozer, when Daniel was carryed away; the second NX00

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in the Reign of Jeconiah, and the eighth year of the same King; the third and most deplorable in the Reign of Zedeobias, and in the nineteenth year of Nabuchodonozor, whereat both the Temple and City were burned. Now fuch is the different conceit of these times, that men have computed from all; but the probablest account and most concordant unto the intention of Jeremy, is from the first of Nabuchodonozor unto the first of King Cyrus over Babylon; although the Prophet Zachary accounteth from the last. O Lord of Hosts, How long! Wilt thou not have mercy on Ferufalem, against Chap. 1. 12. which thou hast had indignation these threescore and ten years? for he maketh this Exposulation in the second year of Darius Histaspes; wherein he prophesied, which is about eighteen years in account after the other.

Thus also although there be a certain truth therein, yet is there no easie doubt concerning the feventy weeks, or feventy times feven years of Daniel: The difficulwhether they have reference unto the Nativity or Passion of our Saviour, ties of Daniels and especially from whence, or what point of time they are to be compu- 70 Weeks. ted. For thus is it delivered by the Angel Gabriel: Seventy weeks are determined upon thy people; and again in the following verie: Know therefore and understand, that from the going forth of the Commandment to reftore and to build Ferufalem unto the Messias the Prince, shall be seven weeks, and threefcore and two weeks, the street shall be built again, and the wall even in troublesome times; and after threescore and two weeks shall Melliah be cut off. Now the going out of the Commandment to build the City, being the point from whence to compute, there is no flender Controversie when to begin. For there are no less then four several Edicts to this effect; the one in the first of Cyrus, the other in the second of Darius, the third or fourth in the seventh, and in the twentieth of Artaxerxes Longimanus; although as Petavins accounteth, it best accordeth unto the twentieth year of Artaxerxes, from whence Nehemiah deriveth his Commission, Now that computes are made uncertainly with reference anto Christ, it is no wonder, since I perceive the time of his Nativity is in controversie, and no less his Age at his Passion: For Clemens and Tertullian Of our B. Saconceive he suffered at Thirty; but Irenaus a Father nearer his time, is fur- his Passion. ther off in his Account, that is, between Forty and Fifty.

Longomontanus a late Astronomer, endeavors to discover this secret from Aftronomical grounds, that is, the Apogeum of the Sun conceiving the Excentricity invariable, and the Apogeum yearly to move one scriple, two feconds, fifty thirds, &c. Wherefore if in the time of Hipparchus, that is in the year of the Julian period 4557 it was in the fifth degree of Gemini, and in the dayes of Tycho Brabe, that is in the year of our Lord 1588, or of the world 5554, the same was removed unto the fift degree of Cancer; by the proportion of it's motion, it was at the Creation first in the beginning of Aries, and the Perigeum or nearest point in Libra. But this Conceit how ingenious or subtile soever, is not of satisfaction; it being not determinable, or yet agreed in what time precisely the Apogeum absolveth one degree, as Petavius hath also delivered. Laftly,

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Lastly, However these or other difficulties intervene, and that we cannot satisfie our selves in the exact compute of time, yet may we sit down with the common and usual account; nor are these differences derogatory unto the Advent or passion of Christ, unto which indeed they all do feem to point; for the Prophecies concerning our Saviour were indefinitely delivered before that of Daniel; fo was that pronounced unto Eve in Paradife, that after Balaam, those of Isaiab and the Prophets, and that memorable one of Faceb, the Scepter shall not depart from Ifrael untill Shile come; which time notwithstanding it did not define at all. In what year therefore soever, either from the destruction of the Temple, from the reedifying thereof, from the flood, or from the Creation he appeared, certain it is, that in the fulness of time he came. When he therefore came, is not fo confiderable, as that he is come: in the one there is confolation, in the other no satisfaction. The greater Quere is, when he will come again; and yet indeed it is no Quere at all: for that is never to be known, and therefore vainly enquired: 'tis a professed and authentick obscurity, unknown to all but to the omniscience of the Almighty. Certainly the ends of things are wrapt up in the hands of God, he that undertakes the knowledge thereof, forgets his own beginning, and disclaims his principles of earth. No man knows the end of the World, nor affuredly of any thing in it: God sees it, because unto his Eternity it is present; he knoweth the ends of us, but not of himself: and because he knows not this, he knoweth all things, and his knowledge is endless, even in the object of him-

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CHAP. II.

Of mens Emairies in what feafon or Point of the Zodiack it began that as they are generally made, they are in vain, and, as particularly, uncertain.

Oncerning the Seasons, that is, the Quarters of the year; some are ready to enquire, others to determine, in what Season, whether in the Autumn, Spring, Winter or Summer, the World had its beginning. Wherein we affirm, that as the question is generally, and in respect of the whole Earth proposed, it is with manifest injury unto reason in any particular determined; because when ever the World had its beginning, it was created in all these four. For, as we have essewhere delivered, whatsoever figne the Sun possesseth (whose recess or vicinity defineth the quarters of the four quarters year) those four Seasons were actually existent; it being the nature of that of the year. Luminary to distinguish the several seasons of the year; all which it maketh at one time in the whole Earth, and successively in any part thereof. Thus if we suppose the Sun created in Libra, in which sign unto some it maketh Autumn; at the same time it had been Winter unto the Northern-pole, for unto them at that time the Sun beginneth to be invisible, and to shew it felf again unto the pole of the South, Unto the position of a right Sphere, or directly under the Equator, it had been Summer; for unto that scituation the Sun is at that time vertical. Unto the latitude of Capricorn, or the Winter-Solftice, it had been Spring; for unto that position it had been in a middle point, and that of afcent, or approximation; but unto the latitude of Cancer or the Summer Solftice it had been Autumn; for then had it been placed in a middle point, and that of descent or elongation.

And if we shall take it literally what Mofes described popularly, this was also the constitution of the first day. For when it was evening unto one longitude, it was morning unto another; when night unto one, day unto another. And therefore that question, whether our Saviour shall come again in the twilight (as is conceived he arose) or whether he shall come upon us in the night, according to the comparison of a Thief, or the Jewish tradition, that he will come about the time of their departure out of Agypt, when they eat the Passover, and the Angel passed by the doors of their houses; this Query, I say, needeth not further dispute. For if the Earth be almost every where inhabited, and his coming (as divinity affirmeth) must needs be unto all; then must the time of his appearance be both in the day and night. For if unto Jerusalem, or what part of the world soever he shall appear in the night, at the same time unto the Antipodes, it must be day; if twilight unto them, broad day unto the Indians; if noon unto them, yet and many night unto the Americans; and so with variety according unto various habitation

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bitations, or different politions of the Sphere, as will be eafily conceived by those who understand the affections of different habitations, and the conditions of Antaci, Perieci, and Antipodes. And so although he appear in the night, yet may the day of Judgment or Dooms-day well retain that name; for that implieth one revolution of the Sun, which maketh the day and night, and that one natural day. And yet to speak firickly, if (as the Apostle assirmeth) we shall be changed in the twinckling of an eye (and as the Schools determine) the destruction of the world shall not be successive but in an instant; we cannot properly apply thereto the usual distinctions of time; calling that twelve hours, which admits not the parts thereof, or use at all the name of time, when the nature thereof shall perish.

But if the enquiry be made unto a particular place, and the queltion determined unto some certain Meridian; as namely, unto Mesoporavita wherein the feat of Paradife is prefumed, the Query becomes more reasonable, and is indeed in nature also determinable. Yet positively to define that feafon, there is no slender difficulty; for some contend that it began in the Spring; as (befide Eufebius, Ambrofe, Bede, and Theodores) fome few years past Henrico Philippi in his Chronologie of the Scripture, others are altogether for Autumn; and from hence do our Chronologers commence their compute ; as may be observed in Holvisus, Jof. Scaliger, Calvifus,

and Petavius.

CHAP. III.

Of the Divisions of the Seasons and sour Quarters of the year, according unto Aftronomers and Physitians : that the common compute of the Ancients, and which is fill retained by some, is very question-

S for the divisions of the year, and the quartering out this remarkable A stor the divisions of the year, and the specially two distinctions; the standard of time, there have passed especially two distinctions; the first in frequent use with Astronomers, according to the cardinal intersections of the Zodiack, that is, the two Æquinoctials and both the Solstitial points; defining that time to be the Spring of the year, wherein the Sun doth pass from the Equinox of Aries unto the Solflice of Cancer; the time between the Solftice and the Aquinox of Libra, Summer: from thence unto the Solftice of Capricornus, Autumn; and from thence unto the R-quinoxiof Aries again, Winter: Now this division although it be regular Between the Tropicks two bave the Seasons of the year double; as have the Inhabitants under the Summers in a Equator, or else between the Tropicks. For anto them the Son is vertical twice a year, making to diffinot Summers in the different points of verticality.

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tically. So unto those which live under the Equator, when the Sun is in the Equinox it is Summer, in which points it maketh Spring or Autum unto us; and unto them it is also Winter, when the San is in either Tropick; whereas unto us it maketh alwayes Summer in the one. And the like will happen unto those habitations, which are between the Tropicks and the

A second and more sensible division there is observed by Hypocrates, and most the ancient Greeks, according to the rising and setting of divers Stars; dividing the year, and establishing the account of seasons from usual atterations, and sensible mutations in the Air, discovered from the rising and fetting of thoie Stars, accounting the Spring from the Æquinoxial point of Aries; from the rifing of the Pleiades, or the several Stars on the back of Taurus, Summer; from the rifing of Arcturus, a Starbetween the thighs of Bootes, Autumn; and from the fetting of the Pleiades, Winter. Of these divisions because they were unequal, they were fain to subdivide the two larger portions, that is of the Summer and Winter quarters; the first part of the Summer they named 35005, the second unto the rising of the Dog-flar, des from whence unto the fetting of Arcturus, onder. The Winter they divided also into three parts; the first part, or that of seed time they named omoperator, the middle or proper Winter, Xuno, the last, which was their planting or grafting time outshiar. This way of division was in former ages received, is very often mentioned in Poets, translated from one Nation to another; from the Greeks unto the Latines, as is received by good Authors; and delivered by Physitians, even unto our times.

Now of these two, although the first in some latitude may be retained, yet is not the other in any to be admitted. For in regard of time (as we declare in the Chap, of canicular dayes) the Stars do vary their longitudes, and consequently the times of their ascension and descension. That star which is the term of numeration, or point from whence we commence the account, altering his site and longitude in process of time, and removing from West to East, almost one degree in the space of 72 years, so that the same Star, since the age of Hypocrates who used this account, is removed in consequentia about 27 degrees. Which difference of their longitudes, doth much diversifie the times of their ascents, and rendreth the account unstable

Again, In regard of different latitudes, this cannot be a fetled rule, or reasonably applyed unto many Nations. For whereas the setting of the Pleiades or seven Stars, is designed the term of Autumn, and the beginning of Winter; unto some latitudes these Stars do never set, as unto all beyond 67 degrees. And if in several and far distant latitudes we observe the same Star as a common term of account unto both, as we shall fall upon an unexpected, but an unsufferable absurdity; and by the same account it will be Summer unto us in the North, before it be so anto those, which unto us are Southward, and many degrees approaching nearer the Sun. For if

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we consult the Doctrine of the Sphere, and observe the ascension of the Pleiades, which maketh the beginning of Summer, we shall discover that in the latitude of 40. These Stars arise in the 16 degree of Taurus; but in the latitude of 50, they ascend in the eleventh degree of the same sign, that is, 5 days sooner; so shall it be Summer unto London, before it be unto Toledo, and begin to scorch in England, before it grow hot in Spain.

This is therefore no general way of compute, nor reasonable to be derived from one Nation unto another; the desect of which consideration hath caused divers errors in Latine Poets, translating these expressions from the Greeks; and many difficulties even in the Greeks themselves; which living in divers latitudes, yet observed the same compute. So that to make them out, we are sain to use distinctions; sometime computing Cosmically what they intended Heliacally; and sometime in the same expression the rising Heliacally, the setting Cosmically. Otherwise it will be hardly made out, what is delivered by approved Authors; and is an observation very considerable unto those which meet with such expressions, as they are very frequent in the Poets of elder times, especially Hesiod, Aratus, Virgil, Ovid, Manilius; and Authors Geoponical, or which have treated de rerustica, as Constantine, Marcus Cato, Columella, Palladius, and Varro.

Lastly, The absurdity in making common unto many Nations those confiderations, whose verity is but particular unto some, will more evidently appear, if we examine the Rules and Precepts of some one climate, and fall upon consideration with what incongruity they are transferrible unto others:

Thus is it advised by Hefiod.

Pleiadibus Aclante natus orientibus Incipe messem, Arationem vero occidentilus.

Implying hereby the Heliacal ascent and Cosmical descent of those Stars. Now hereby he setteth down a Rule to begin Harvest at the arise of the Pleiades; which in his time was in the beginning of May. This indeed was consonant unto the clime wherein he lived, and their Harvest began about that season: but is not appliable unto our own, for therein we are so far from expecting an Harvest, that our Barley-seed is not ended. Again, correspondent unto the Rule of Hesiad, Virgil affordeth another,

Ante tibi Eoa Atlantides abscondantur, Debita quam sulcis committas semina-.

Understanding hereby their cosmical descent, or their setting when the Sun ariseth, and not their Heliacal obscuration, or their inclusion in the Instre of the Sun, as Servins upon this place would have it; for at that time these Stars are many signs removed from that luminary. Now herein he strictly adviseth, not to begin to sow before the setting of these stars; which

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notwithstanding without injury to agriculture, cannot be observed in England; for they fet unto us about the 12 of November, when our Seed-time is almost ended.

And this diversity of clime and coelestial observations, precisely observed unto certain stars and moneths, hath not only overthrown the deductions of one Nation to another, but hath perturbed the observation of festivities and Aatary Solemnities, even with the Jews themselves. For unto them it was commanded, that at their entrance into the Land of Canaan, in the fourteenth of the first moneth (that is Abib or Nifan, which is Spring with us) they should observe the celebration of the Passover; and on the morrow after, which is the fifteenth day, the feast of unleavened bread; and in the fixteenth of the same moneth, that they should offer the first sheaf of the Harvest. Now all this was feasible, and of an easy possibility in the Land of Canaan, or latitude of Ferufalem; for so it is observed by several Authors in later times; and is also testified by holy Scripture in times very far before. For when the Children of Ifrael passed the River Fordan, it is de- Josh & livered (by way of Parenthesis) that the River overfloweth its banks in the time of Harvelt, which is conceived the time wherein they passed; and it is after delivered, that in the fourteenth day they celebrated the Passover: which according to the Law of Mofes was to be observed in the first moneth, Josh 12 or moneth of Abib.

And therefore it is no wonder, what is related by Luke, that the Disciples upon the Denteroproton, as they passed by, plucked the ears of Corn.

Por the Denteroproton, or the second first Sabbath, was the first Sabbath after What the Sabthe Deutera or second of the Passover, which was the fixteenth of Nifan or baton Deute-Abib. And this is also evidenced from the received construction of the first reproton, Luk. and later rain. I will give the rain of your Land in his due feafon, the first 6-was. rain and the later rain. For the first rain fell upon the seed-time about October, and was to make the feed to root, the later was to fill the ear, and fell in Abib or March, the first moneth : according as is expressed, And he Deur. 11; will cause to come down for you the rain, the former rain and the later rain Josl 2. in the first moneth; that is, the moneth of Abib wherein the Passover was observed. This was the Law of Moses, and this in the Land of Canaan was well observed, according to the first institution; but since their dispersion and habitation in Countries, whose constitutions admit not such tempestivity of harvests; and many not before the later end of Summer; notwithstanding the advantage of their Lunary account, and intercalary moneth Veader affixed unto the beginning of the year, there will be found a great disparity in their observation; nor can they Arietly and at the same season with their forefathers observe the commands of God.

To add yet further, those Geoponical Rules and Precepts of Agriculture which are delivered by divers Anthors, are not to be generally received; but respectively understood unto climes whereto they are determined. For whereas one adviseth to fow this or that at one season, a second to set this or

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that at another, it must be conceived relatively, and every Nation must have its Country Farm : For herein we may observe a manifest and visible difference, not only in the scasons of harvest, but in the grains themselves. For with as Barley-harvest is made after Wheat-harvest, but with the Ifraelices and Agpptians it was otherwise solo is it expressed by way of priority, Ruth the 2. So Ruch kept fast by the Maidens of Boaz to glean unto the end of Barley-harvest and of Wheat-harvest; which in the plague of hail in Agypt is most plainly delivered, Exod. 9. And the Flax and the Barley were imitten, for the Barley was in the ear, and the Flax was bolled, but the Wheat and the Rye were not finitten, for they were not grown up.

And thus we see the account established upon the arise or descent of the Stars can be no reasonable rule unto distant Nations at all, and by reason of their retrogression but temporary unto any one. Nor must these respective expressions be entertained in absolute considerations, for so distinct is the relation, and so artificial the habitude of this inferiour Globe unto the superior, and even of one thing in each unto the other: that general rules are dangerous; and applications most safe that run with security of circumfrance. Which rightly to effect, is beyond the fubtilty of fense, and requires

the artifice of reason.

CHAP. LV.

Of some computation of dayes and diductions of one part of the year unto another.

F Ourthly, There are certain vulgar opinions concerning days of the year, and conclusions popularly deduced from certain dayes of the moneth: men commonly believing the dayes increase and decrease equally in the whole year: which notwithstanding is very repugnant unto truth. For they That the days increase in the moneth of March, almost as much as in the two moneths of January and February: and decrease as much in September, as they do in July and August. For the days increase or decrease, according to the declination of the Sun, that is, its deviation Northward or Southward from the Aquator. Nor this digreffion is not equal, but near the Aquinoxial intersections, it is right and greater, near the Solflices more oblique and lesser: So from the eleventh of March the vernal Equinox, unto the eleventh of April the Sun declineth to the North twelve degrees, from the eleventh of April unto the eleventh of May but eight, from thence unto the fitteenth of June, or the Summer Soldice but three and a half : all which make twenty two degrees and an half, the greatest declination of the Sun.

And this inequality in the declination of the Sun in the Zodiack or line of life, is correspondent unto the growth or declination of man. For fetting out from infancy we increase not equally, or regularly attain to our flate

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or perfection: nor when we descend from our state, is our declination equal, or carrieth us with even paces unto the grave. For, as Hypocrates affirmeth, a man is hotteff in the first day of his life, and coldest in the last: his natural heat fetteth forth most vigorously at first, and declineth most fenfibly at last. And so though the growth of man end not perhaps until twenty The natural one, yet in his stature more advanceth in the first septenary then in the se- proportion of cond, and in the fecond, more then in the third, and more indeed in the humane first seven years, then in the fourteen succeeding; for, what stature we at- growth, &c. tain unto at seven years, we do sometimes but double, most times comes short of at one and twenty. And so do we decline again: For in the later age upon the Tropick and first descension from our solstice, we are scarce sensible of declination : but declining further, our decrement accelerates, we fet apace, and in our last days precipitate into our graves. And thus are also our progressions in the womb, that is, our formation, motion, our birth or exclusi- And in the on. For our formation is quickly effected, our motion appeareth later, and womb. our exclusion very long after : if that be true which Hapocrates and Avicenna have declared that the time of our motion is double unto that of formation, and that of exclusion treble unto that of motion. As if the Infant be formed at thirty five days, it moveth at seventy, and is born the two hundred and tenth day, that is, the leventh moneth; or if it receives not formation before forty five days, it moves the ninetieth day, and is excluded in the two hundred and feventy, that is, the ninth moneth.

There are also certain popular prognosticks drawn from festivals in the Calender, and conceived opinions of certain days in moneths, fo is there a general tradition in most parts of Europe, that inferreth the coldness of fucceeding winter from the thining of the Sun upon Candelmas day, or the Purification of the Virgin Mary, according to the proverbial diffich.

> Si Sol Splendescat Maria purificante. Major erit glacies, post festum quam fuit ante.

So is it usual amongst us to qualifie and conditionate the twelve moneths of the year answerably unto the temper of the twelve days in Christmas; and to ascribe unto March certain borrowed days from April; all which men feem to believe upon annual experience of their own, and the received traditions of their fore-fathers.

Now it is manifest, and most men likewise know, that the Calenders of these computers, and the accounts of these dayes are very different; the Greeks diffenting from the Latines, and the Latines from each other, the one observing the Julian, or ancient account, as great Brittain and part of Germany; the other adhering to the Gregorian, or new account, as Italy, France, Spain, and the United Provinces of the Netherlands. Now this later account by ten days at least anticipateth the other; so that before the one beginneth the account, the other is past; yet in the several calculations, the

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fame events feem true, and men with equal opinion of verity, expect and confess a confirmation from them all. Whereby is evident the Oraculous authority of tradition, and the easie feduction of men, neither enquiring into the verity of the substance, nor reforming upon repugnance of circumstance.

And thus may divers eafily be mistaken, who superstitiously observe certain times, or fet down unto themselves an observation of unfortunate moneths, or dayes, or hours; As did the Agyptians, two in every moneth, and the Romans, the days after the Nones, Ides and Calends. And thus the Rules of Navigators must often fail, setting down, as Rhodiginus observeth, suspected and ominous days in every moneth, as the first and seventh of March; the fifth and fixth of April; the fixth, the twelfth and fifteenth of February. For the accounts hereof in these moneths are very different in our days, and were different with several Nations in Ages past; and how strictly foever the account be made, and even by the felf-fame Calender, yet is it possible that Navigators may be out. For so were the Hollanders, who pasfing Westward through fretum le Mayre, and compassing the Globe, upon their return into their own Country, found that they had lost a day. For if two men at the same time travel from the same place, the one Eastward, the other Westward round about the earth, and meet in the same place from whence the first set forth; it will so fall out, that he which hath moved Eastward against the diurnal motion of the Sun, by anticipating daily something of its circle with his own motion, will gain one day; but he that travelleth West-ward, with the motion of the San, by seconding its revolution, shall lose or come short a day. And therefore also upon these grounds that Delos was feated in the middle of the earth, it was no exact decision, because two Eagles let By East and West by Jupiter, their meeting fell out just in the Island Delos.

CHAP. V.

A Digression of the wisdom of God in the site and motion of the Sun,

Having thus beheld the ignorance of man in some things, his error and blindness in others, that is, in the measure of duration both of years and seasons, let us a while admire the Wisdom of God in this distinguisher of times; and visible Deity (as some have termed it) the Sun; which though some from its glory adore, and all for its benefits admire, we shall advance from other considerations, and such as issuffrate the artifice of its Maker. Nor do we think we can excuse the duty of our knowledge, if we only bestow the flourish of Poetry hereon, or those commendatory conceits which popularly set forth the eminency of this Creature; except we ascend unto subtiler considerations, and such as, rightly understood, convincingly declare the wisdom of the Creator. Which since a Spanish Physitian hath begun, we will enlarge

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enlarge with our deductions; and this we shall endeavour from two confideratons its proper fituation, and wifely ordered motion, and the state of

And first we cannot pais over his providence, in that it moveth at all for had it flood fill, and were it fixed like the earth, there had been no diffinction of times, either of day or year, of Spring, of Autumn, of Summer, or of Winter: for these seasons are defined by the motions of the Sune when that approacheth nearest our Zenith or vertical point, we call it Summer, when furthest off, Winter, when in the middle spaces, Spring or Autumn, whereas remaining in one place these distinctions had ceased, and confequently the generation of all things depending on their viciflitudes; making in one hemisphere a perpetual Summer, in the other a deplorable and comfortless Winter. And thus had it also been continual day unto What the safome, and perpetual night unto others; for the day is defined by the abode of the Sun above the Horizon, and the night by its continuance below; for should we have needed another Sun, lone to allustrate our Hemisphere, a fecond to enlighten the other; which inconvenience will enfue in what fite foever we place it, whether in the Poles, or the Aquator, or between them both; no spherical body of what bigness soever illuminating the whole fphere of another, although it illuminate fomething more then half of a lefter, according unto the doctrine of the Opticks. A parto shot division and arrest arrest

His wildom is again differnable, not onely in that it moveth at all, and in its bare motion, but wonderful in contriving the line of its revolution; which is so prudently effected, that by a vicissitude in one body and light it sufficeth the whole earth, affording thereby a possible or pleasurable habita- the Earth is eczofe two tion in every part thereof; and that is the line Ecliptick; all which to habitable. effect by any other circle it had been impossible. For first, if we imagine the Sun to make his course out of the Ecliptick, and upon a line without any obliquity, let it be conceived within that Circle, that is either on the Equator, or else on either fide: (for if we should place it either in the Meridian or Colours, beside the subversion of its course from East to West, there would enfue the like incommodities. Now if we conceive the Sun to move between the obliquity of this Ecliptick in a line upon one fide of the Agnator, then would the Sun be visible but unto one pole, that is the same which was nearest unto it. So that unto the one it would be perpetual day, unto the other perpetual night; the one would be oppressed with constant heat, the other with infufferable cold; and so the defect of alternation would utterly impugn the generation of all all things; which naturally require a veiffitude of hear to their production, and no less to their increase and conhe Sommer temperate unto fome, but excellive and in extreditionitarial

But if we conceive it to move in the Equator; first unto a parallel sphere, or such as have the pole for their Zenith, it would have made neither perfect day nor night. For being in the Aquator, it would interfect their Horizon, and be half above and half beneath it : or rather it would have made perpetual night to both; for though in regard of the rational Horizon, which

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which bisecteth the Globe into equal parts, the Sun in the Agnator would interfect the Horizon : yet in respect of the sensible Horizon (which is defined by the eye) the Sun would be visible unto neither. For if as ocular witnesses report, and some also write, by reason of the convexity of the Earth, the eye of man under the Æquator cannot discover both the poles; neither would the eye under the poles discover the Sun in the Equator. Thus would there nothing fructifie either near or under them : The Sun being Herizontal to the poles, and of no confiderable altitude unto parts a reasonable distance from them. Again, unto a right Sphere, or such as dwell under the Equator, although it made a difference in day and night, yet would it not make any diffinction of feafons: for unto them it would be constant Summer, it being always vertical, and never deflecting from them; So had there been no fructification at all, and the Countries subjected would be as unhabitable, as indeed antiquity conceived them.

Lastly, It moving thus upon the Æquator, unto what position soever, although it had made a day, yet could it have made no year: for it could not have had those two motions now ascribed unto it, that is, from East to West, whereby it makes the day, and likewise from West to East, whereby the year is computed. For according to Astronomy, the poles of the Equator are the same with those of the Primum Mobile. Now it is impossible that on the same circle, having the same poles, both these motions from oppofite terms, should be at the same time performed; all which is salved, if we allow the Sun an obliquity in his annual motion, and conceive him to move upon the Poles of the Zodiack, distant from these of the world 23 degrees and an half. Thus may we difcern the necessity of its obliquity, and how inconvenient its motion had been upon a circle parallel to the Equator, of

upon the Aguator it felf.

Now with what Providence this obliquity is determined, we shall perceive upon the ensuing inconveniences from any deviation. For first, if its obliquity had been less (as instead of twenty three degrees, twelve or the half thereof) the viciffitude of feafons appointed for the generation of all things, would furely have been too thort; for different feafons would have hudled upon each other; and unto some it had not been much better then if it had moved on the Equator. But had the obliquity been greater then now It is, as double, or of 40 degrees; several parts of the earth had not been able to endure the disproportionable differences of seasons, occasioned by the great receffe, and diffance of the Sun. For unto some habitations the Summer would have been extream hot, and the Winter extream cold; likewife the Summer temperate unto fome, but excessive and in extremity unto others, as unto those who should dwell under the Tropick of Cancer, as then would do some part of Spain, or ten degrees beyond, as Germany, and fome part of England; who would have Summers, as now the Moors of Africa. For the Sun would sometime be vertical unto them : but they would have Writers like those beyond the Artick Circle; for in that season the I ROLL

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Sun would be removed above 80 degrees from them. Again, it would be temperate to some habitations in the Summer, but very extream in the Winter: temperate to those in two or three degrees beyond the Artick Circle, as now it is unto us; for they would be equidiftant from that Tropick, even even as we are from this at present. But the Winter would be extream, the Sun being removed above an hundred degrees, and so consequently would not be visible in their Horizon, Ino position of sphere discovering any Star distant above 90 degrees, which is the distance of every Zinth from the Horizon. And thus if the obliquity of this Circle had been lefs, the viciffitude of seasons had been so small as not to be distinguished; if greater, so large and disproportionable as not to be endured.

Now for its fituation, although it held this Ecliptick line, yet had it been feated in any other Osb, inconveniencies would ensue of condition like the former; for had it been placed in the lowest sphere of the Moon, the year A competent would have confifted but of one moneth; for in that space of time it would distinction of have passed through every part of the Ecliptick : so would there have been Season's necesno reasonable distinction of seasons required for the generation and fructify- sary, and why. ing of all things; contrary featons which deftroy the effects of one another fo fuddenly fucceeding. Befides, by this vicinity unto the earth, its heat had been intollerable : for if (as many affirm) there is a different iense of heat from the different points of its proper Orb, and that in the Apogeum or highest point (which happeneth in Cancer) is not so hot under that Tropick, on this fide the Æquator, as unto the other fide in the Perigeum or lowest part of the Eccentrick (which happeneth in Capricornus) furely being placed in an Orb far lower, its heat would be unsufferable, nor needed we a

fable to fet the world on fire. But had it been placed in the highest Orb, or that of the eighth Sphere, there had been none but Platoes year, & a far less distinction of Seasons : for one year had then been many, and according unto the flow revolution of that Orb which absolveth not his course in many thousand years, no man had lived to attain the account thereof. These are the inconveniencies ensuing upon its fituation in the extream Orbs, and had it been placed in the middle Oibs of the Planets, there would have enfued abfurdities of a middle nature

unto them. Now whether we adhere unto the Hypothesis of Copernicus, affirming the Earth to move, and the Sun to stand still; or whether we hold, as some of late have concluded, from the spots in the Sun, which appear and disappear again; that besides the revolution it maketh with its Orbs, it hath also a dinetical motion, and rowls upon its own poles : whether, I fay, we affirm these or no, the illatitions before mentioned are not thereby infringed. We therefore conclude this contemplation, and are not affraid to believe, it may be literally said of the wisdom of God, what men will have figuratively spoken of the works of Chrift; that if the wonders thereof were duly described, the whole world, that is, all within the last circumference, would not contain Tt2

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them. For as his Wisdom is infinite, so cannot the due expressions thereof be finite, and if the World comprise him not, neither can it comprehend the story of him.

CHAP. VI.

Concerning the Vulgar Opinion, that the Earth was stenderly peopled before the Flood.

Befide the slender consideration men of later times do hold of the first Ages, it is commonly opinioned, and at first thought generally imagined, that the Earth was thinly inhabited, at least not remotely planted before the Flood; so that some conceiving it needless to be universal, have made the deludge particular, and about those parts where Noab built his Ark. Which opinion, because it is not only injurious to the Text, humane History, and common Reason, but also derogatory unto that great Work of God, the universal inundation; we shall not passe over without strict inquisition. And (although predetermined by opinion) whether many might not suffer in the first Flood, as they shall in the last Flame, that is, who knew not Adam nor his offence; and many perish in the deluge, who

never heard of Noah, or the Ark of his preservation.

Now for the true enquiry thereof, the means are obscure as the matter, which being naturally to be explored by History, Humane or Divine, receiveth thereby no small addition of obscurity. For as for Humane relations, they are so fabulous in Dencalions Flood, that they are of little credit about Ogyges and Noahs. For the Heathens (as Varro accountest) make three distinctions of time: the first from the beginning of the world unto the general Deluge of Ogyges, they term Adelon, that is, a time not much unlike that which was before time, immanifest and unknown; because, thereof there is almost nothing or very obscurely delivered: for though divers Authors have made some mention of the Deluge, as Manethon the Egyptian Priest, Xenophon de Aquicocis, Fabicus Pictor de Aureo seculo, Mar, Cato de Originibus, and Archilochus the Greek, who introduceth also the Testimony of Moses in his fragment de temporibus: yet have they delivered no account of what preceded or went before. Fosephus, I confess, in his discourse against Appion induced the antiquity of the Jews unto the flood, and before from the Testimony of Humane Writers instituting especially upon Maseas of Damascus, Feronimus Agyptius, and Berosus; and confirming the long duration of their lives, not only from these, but the authority of Hesod, Erathius, Hellanicus, and Agesiaus. Berosus the Chaldean Priest, writes most plainly, mentioning the City of Enos, the name of Noah and his Sons, the building of the Ark, and also the place of its landing. And Diodorus Sienling hath in his third Book, a passage, which examined, advanceth as high as

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Adam: for the Chaldeans, faith he, derive the Original of their Astronomy and letters forty three thousand years before the Monarchy of Alexander the Great!: now the years whereby they computed the Antiquity of their letters, being, as Xenophon interprets to be, accounted Lunary: the compute will arise unto the time of Adam. For forty three thousand Lunary years make about three thousand six hundred thirty sour years, which answereth the Chronology of time from the beginning of the world unto the reign of Alexander, as

Anning of Viterbo computeth in his Comment upon Berofus.

The second space or interval of time is accounted from the flood unto the first Olympiad, that is, the year of the World 3174. which extendeth unto the days of Isaiab the Prophet, and some 20 years before the soundation of Rome: this they term Mythicon or fabulous, because the account thereof, especially of the first part, is sabulously or impersectly delivered. Hereof some things have been briefly related by the Authors above-mentioned: more particularly by Dares Phrygins, Distys Cretensis, Herodotus, Diodorus Siculus, and Trogus Pompeius; the most samous Greek Poets lived also in this Interval, as Orpheus, Linus, Musaus, Homer, Hesiod; and herein are comprehended the grounds and first inventions of Poetical fables, which were also taken up by historical Writers, perturbing the Chaldean and Agyptian Records with fabulous additions; and consounding their names and stories, with their own inventions.

The third time succeeding until their present Ages, they term Historicon, that is, such wherein matters have been more truly historified, and may therefore be believed. Of these times also have been written Herodotus, T bucydides, Xenophon, Diodorus; and both of these and the other preceding such as have delivered universal Histories or Chronologies; as (to omit Philo, whose Natations concern the Hebrews,) Ensebins, Jalius Africanus, Orosius, Ado of Vienna, Marianus Scotus, Historia tripartita, Uspergensis, Carion, Pineda,

Salian, and with us Sir Walter Rawleigh.

Now from the first hereof that most concerneth us, we have little or no assistance? the fragments and broken records enforcing not at all our purpose. And although some things not usually observed, may be from thence collected, yet do they not advantage our discourse, nor any way make evident the point in hand. For the second, though it directly concern us not, yet in regard of our last Medium and some illustrations therein, we shall be corferained to make some use thereof. As for the last, it concerns us not at all; for treating of times far below us, it can no way advantage us. And though divers in this last Age have also written of the first, as all that have delivered the general Accounts of time, yet are their Tractates little Auxiliary unto ours, nor afford us any light to detenebrate and clear the Truth.

As for holy Scripture and divine relation, there may also seem therein but slender information, there being only lest a brief narration hereof by Moses, and such as affords no determination. For the Text delivereth but two Genealogies, that is, of Cain and Setb; in the line of Setb there are only tens

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descents, in that of Cain but seven, and those in a right line with mention of father and son; excepting that of Lamech, where is also mention of wives, sons, and a daughter. Notwithstanding if we seriously consider what is delivered therein, and what is also deducible, it will be probably declared what is by us intended, that is, the populous and ample habitation of the earth before the flood. Which we shall labour to induce not from postulates and entreated Maximes, but undeniable principles declared in holy Scripture? that is, the length of mens lives before the Flood, and the large extent of time from

was generally length of mens liver peopled before Creation thereunto.

the Flood. We shall only first

We shall only first crave notice, that although in the relation of Moses there be very few persons mentioned, yet are there many more to be presumed : nor when the Scripture in the line of Seth nominates but ten persons, are they to be conceived all that were of this generation. The Scripture fingly delivering the holy line, wherein the world was to be preserved, first in Noah, and afterward in our Saviour. For in this line it is manifest there were many more born then are named; for it is faid of them all, that they begat fons and daughters. And whereas it is very late before it is faid they begat those persons which are named in the Scripture, the soonest at 65. it must not be understood that they had none before; but not any in whom it pleased God the holy line should be continued. And although the expression that they begat fons and daughters be not determined to be before or after the mention of these, yet must it be before in some; for before it is said that Adam begat Seth at the 130, year, it is plainly affirmed that Cain knew his wife, and had a fon; which must be one of the daughters of Adam, one of those whereof it is after faid, he begat sons and daughters. And for ought can be disproved there might be more persons upon earth then are commonly supposed, when Cain flew Abel; nor the fact so hainously to be aggravated in the circumstance of the fourth person living. And whereas it is said upon the Nativity of Seth. God hath appointed me another feed in stead of Abel, it doth not imply he had no other all this while; but not any of that expectation, or appointed (as his name implies) to make a progression in the holy line; in whom the world was to be faved, and from whom he should be born, that was mystically flain in Abel.

Now our first ground to indue the numerosity of people before the slood, is the long duration of their lives, beyond 7, 8, and 9 hundred years. Which how it conduceth unto populosity we shall make but little doubt, if we consider there are two main causes of numerosity in any kind or species, that is, a frequent and multiparous way of breeding, whereby they fill the world with others, though they exist not long themselves? or a long duration and sub-sistence, whereby they do not only replenish the world with a new annumeration of others, but also maintain the former account in themselves. From the first cause we may observe examples in creatures oviparous, as Birds and Fishes; in vermiparous, as Flies, Locusts, and Guats; in animals also viviparous, as Swine and Conies. Of the first there is a great example in the herd

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of Swine in Galilee, although an unclean Beaft, and forbidden unto the Jens. Of the other a remarkable one in Atheneus, in the Isle Astipalea, one of the Cyclades now called Stampalia, wherein from two that were imported, the number so increased, that the Inhabitants were constrained to have recourse unto the Oracle of Delphas, for an invention how to destroy them.

Others there are which make good the paucity of their breed with the length and duration of their days, whereof they want not examples in animals uniparous; First, in bisulcous or cloven-hoof t, as Camels and Beeves, where- A Million of of there is above a million annually flain in England. It is also said of Job, killed in Engthat he had a thousand yoke of Oxen, and fix thousand Camels, and of the land. children of Ifrael passing into the land of Canaan, that they took from the Midianites threescore and ten thousand Beeves; and of the Army of Semiramis, that there were therein one hundred thousand Camels. For Solipeds or firm-hoofed animals, as Horses, Asses, Mules, &c. they are also in mighty number, so is it delivered that Job had a thousand she-Asses: that the Midianites lost fixty one thousand Asses. For Horses it is affirmed by Dioderus, that Winus brought against the Backrians two hundred eighty thousand Horses; after him Semiramis five hundred Horses, and Chariots one hundred thousand. Even in creatures steril, and such as do not generate, the length of life conduceth much unto the multiplicity of the species; for the number of Mules which live far longer then their Dams or Sires, in Countrys where there are bred, is very remarkable, and far more common then Horses.

For Animals multifidous, or fuch as are digitated, or have several divisions in their feet: there are but two that are uniparous, that is, Men and Elephants, who though their productions be but fingle, are notwithstanding very numerous. The Elephant (as Aristotle affirmeth) carrieth the young two years, and conceiveth not again (as Advardus Lopez affirmeth) in many after, yet doth their Age require this disadvantage; they living commonly 100, sometime 200 years. Now although they be rare with us in Europe, and altogether unknown unto America, yet in the two other parts of the world they are in great abundance, as evidently appears by the relation of Gorcia ab Horto, Physician to the Vice-Roy at Goa; who relates, that at one venation the King of Sian took 4000; and is of opinion they are in other parts in greater number then herds of Beeves in Europe. And though this delivered from a Spaniard, unacquainted with our Northern droves, may feem very far to exceed; yet must we conceive them very numerous, if we consider the number of Teeth transported from one Country to another; they having

only to great teeth, and those not falling or renewing.

As for man, the disadvantage in his single issue is the same with these, and in the lateness of his generation somewhat greater then any : yet in the continual and not interrupted time thereof, and the extent of his days, he becomes at present, if not then any other species, at least more numerous then these before-mentioned. Now being thus numerous at present, and in the measure of threescore, fourscore, or an hundred years, if their days extended

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unto fix feven, or eight hundred, their generations would be proportionably multiplied; their times of generation being not only multiplied, but their subfiftence continued. For though the great Grand-child went on, the Petrucius and first Original would subfift and make one of the world; though he out-lived all the terms of confanguinity, and became a stranger unto his proper progeny. So by compute of Scripture Adam lived unto the ninth generation, unto the days of Lamech the father of Noab; Methufelah unto the year of the flood; and Noah was contemporary unto all from Enoch unto Alraham. So that although some died, the father beholding so many descents, the number of Survivors must still be very great; for if half the men were now Mater ait nata alive, which lived in the last Century, the Earth would scarce contain their number. Whereas in our abridged and Septuagefimal Ages, it is very rare, and deferves a Distick to behold the fourth generation, Xerxes complaint still remaining; and what he lamented in his Army, being almost deplorable in the whole world; men feldom arriving unto those years whereby Methaselab exceeded nine hundred, and what Adam came short of a thousand, was

defined long ago to be the age of man.

Now although the length of days conduceth mainly unto the numerofity of mankind, and it be manifest from Scripture they lived very long, yet is not the period of their lives determinable, and some might be longer livers, then we account that any were. For (to omit that conceit of some, that Adam was the oldest man, in as much as he is conceived to be created in the maturity of mankind, that is, at 60. (for in that age it is fet down they begat children) so that adding this number unto his 930, he was 21 years older then any of his posterity) that even Methaselah was the longest liver of all the children of Adam, we need not grant; nor is it definitively set down by Moses. In-deed of those ten mentioned in Scripture, with their several Ages it must be true; but whether those seven of the line of Cain, and their progeny, or any of the fons or daughters posterity after them out-lived those, is not expressed in holy Scripture; and it will feem more probable, that of the line of Cain, some were longer liv'd then any of Setb; if we concede, that feven generations of the one lived as long as nine of the other. As for what is commonly alledged, that God would not permit the life of any unto a thousand, because (alluding unto that of David) no man should live one day in the fight of the Lord; although it be urged by divers, yet is it methinks an inference somewhat Rabbinical; and not of power to perswade a serious Examinator,

Having thus declared how powerfuly the length of lives conduced unto populofity of those times, it will be easily acknowledged if we descend to particularities, and confider how many in seven hundred years might descend from one man; wherein confidering the length of their days, we may conceive the greatest number to have been alive together. And this, that no reafonable spirit may contradict, we will declare with manifest disadvantage; for whereas the duration of the world unto the flood was above 1600 years, we will make our compute in less then half that time. Now will we begin with

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the first man, but allow the earth to be provided of women fit for marriage the second or third first Centuries; and only take as granted, that they might beget children at fixty, and at an nundred years have twenty, allowing for that number forty years. Nor will we herein fingle out Methufelab, or account from the longest livers, but make choice of the shortest of any we find recorded in the Text, excepting Enosh; who after he had lived as many years as there be days in the year, was translated at 365. And thus from one flock of feven hundred years, multiplying still by twenty, we shall find the product to be one thousand, three hundred forty seven millions, three hundred fixty eight thousand, four hundred and twenty.

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Now had we computed by Methufelah, the fum had exceeded five hundred conflantinople Now had we computed by 1221 buf elast, the fam that had be conceived in the greatest thousand millions. As large a number from one stock as may be conceived in the greatest thousand millions. As large a number from one stock as may be conceived in the greatest thousand the conceived in the greatest conceived in the greatest thousand the greatest the greatest thousand the greatest the Europe? especially if in Constantinople, the greatest City thereof, there be no more then Botero accounteth? feven handred thousand souls. Which duly confidered, we shall rather admire how the earth contained its Inhabitants, then doubt its inhabitation? and might conceive the deluge not simply penal, but in some way also necessary, as many have conceived of translations, if Adam had not finned, and the race of man had remained upon earth im-

Now whereas some to make good their longevity, having imagined that the years of their compute were Lunary; unto these we must reply: That if by a Lunary year they understand twelve revolutions of the Moon, that is 354 days, eleven fewer then in the Solary year, there will be no great difference; at least not sufficient to convince or extenuate the question. But if by a Lunary year they mean one revolution of the Moon, that is, a moneth, they first introduce a year never used by the Hebrews in their Civil accompts; and what is delivered before of the Chaldean years, (as Xenophon gives a caution) was only received in the Chronology of their arts. Secondly, they contradict the Scripture, which makes a plain enumeration of many moneths in the account of the Deluge; for so it is expressed in the Text. In the tenth moneth, in the first day of the moneth were the tops of the Mountains seen : Concordant whereunto is the relation of humane Authors: Inundationes plu- Xenophon de res fuere, prima novimestris inundatio terrarum sub prisco Ogyge. Meminisse Agaivocis. boc loco par oft post primum diluvium Ogygi cemporibus notatum suin nomen & Soliaus,

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amplius mensibus diem continua nox inumbrasset, Delon ante omnesterras radio solio issuminatum sortitumque ex co nomen. And lastly, they fall upon an absurdity, for they make Enoch to beget children about six years of age, For whereas it is said, he begat Methuselab at 65, if we shall account every moneth a year, he was at that time some six years and an half, for so many

moneths are contained in that space of time.

Having thus declared how much the length of mens lives conduced unto the populofity of their kind, our fecond foundation must be the large extent of time, from the Creation unto the Deluge, that is (according unto received computes about 1655 years) a longer time then hath paffed fince the Nativity of our Saviour: and this we cannot but conceive sufficient for a very large encrease, if we do but affirm what reasonable enquiries will not deny; That the earth might be as populous in that number of years before the flood, as we can manifest it was in the same number after. And whereas there may be conceived some disadvantage, in regard that at the Creation the original of mankind was in two persons, but after the Flood their propagation issued at least from fix; against this we might very well set the length of their lives before the Flood, which were abbreviated after, and in half this space contracted into hundreds and threescores. Notwithstanding to equalize accounts, we will allow three hundred years, and fo long a time as we can manifeft from the Scripture, There were four men at least that begat children, Adam, Cain, Seth, and Enes; so shall we fairly and favourably proceed, if we affirm the World to have been as populous in fixteen hundred and fifty years before the Flood, as it was in thirteen hundred after. Now how populousand largely inhabited it was in within this period of time, we shall declare from probabilities, and several testimonies of Scripture and humane Authors.

And first, To manifest the same near those parts of the earth where the Ark is presumed to have rested, we have the relation of holy Scripture accounting the genealogy of Faphat, Cham, and Sem, and in this last, four descents unto the division of the earth in the dayes of Peleg, which time although it were not upon common compute much above an hundred years, yet were they at this time mightily encreased. Nor can we well conceive it otherwise, if we consider that they began already to wander from their first habitation, and were able to attempt so mighty a work as the building of a City and a Tower, whose top should reach unto the Heavens. Whereunto there was required no flender number of persons, if we consider the magnitude thereof, expressed by some, and conceived to be Turris Beli in Herodoess; and the multitudes of people recorded at the erecting of the like or inferiour Sturctures: for at the building of Solomons Temple there were threefcore and ten thousand that carried burdens, and fourscore thousand hewers in the Mountains, beside the chief of his Officers three thousand and three hundred; and at the erecting of the Pyramides in the Reign of King Cheops, as Herodoius reports, there were decem myriades, that is, an hundred thousand men. And though it be said of the Ægyptians, Porum & cape nefas

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The first Monarchy or Kingdom of Babyton is mentioned in Scripture under the foundation of Nimrod, which is also Recorded in Humane History; Who Nimrod as beside Berosus, in Diodorus and Justine, for Nimrod of the Scriptures is and Afur were. Beins of the Gentiles, and Affur the same with Nines his Successor: There is also mention of divers Cities, particularly of Nineveh and Refen expres-

fed emphatically in the Text to be a great City.

That other Countrys round about were also peopled, appears by the War of the Monarchs of Affria with the Battrians, Indians, Soythians, Athioplans, Armenians, Hyrcanians, Parthians, Perfians, Susians; they vanquishing (as Diodorns relateth) Agypt, Syria, and all Afia Minor, even from Bofphorus unto Tanais. And it is faid, that Semiramis in het expedition against the Indians, brought along with her the King of Arabia. About the fame time of the Affrian Monarchy, do Anthors place that of Sycionians in Greece, and foon after that of the Argives, and not very long after, that of the Ashenians under Cecrops, and within our period affumed are historified many memorable actions of the Greeks, as the expedition of the Argonautes, with the most

famous Wars of Thebes and Troy.

That Canaan also and Agypt were well peopled far within this period, besides their plantation by Canaan and Misraim, appeareth from the History of Abraham, who in less then 400 years after the Flood, journeyed from Mesopotamia unto Canaan and Agopt, both which he found well peopled and policied into Kingdoms: wherein also in 430 years, from threescore and ten persons which came with Jacob into Agypt, he became a mighty Nation; for it is faid, at their departure, there journeyed from Rhame fis to Succoth about fix hundred thousand on foot, that were men, besides children. Now how populous the Land from whence they came was, may be collected not only from their ability in commanding fuch subjections and mighty powers under them, but from the feveral accounts of that Kingdom delivered by Herodotus. And how foon it was peopled, is evidenced from the pillar of their King Ofprie, with this Infeription in Diodorus; Mibi pater eft Saturnus deorum junior, sum vero Offris rex qui totum peragravi erbem ufq; ad Indiorum fines, ad eos quoq; sum profettus qui septentrioni subjacent usq; ad Istri fontes, & alias partes usq; ad Oceanum. Now according unto the best determinations Offis was Mifrain, and Saturnin Egyptius the same with Cham; Who Offis after whose name Ægypt is not only called in Scripture the Land of Ham, but thus much is also testified by Plutarch; for in his Treatife de Ofgride, he Apprius were delivereth that Agypt was called Chamia a Chamo Nos filio, that is from Cham the Son of Noah. And if according to the consent of ancient Fathers, Adam was buried in the same place where Christ was crucified, that is Mount Calvary, the first man ranged far before the Flood, and laid his bones many miles from that place, where its presumed he received them. And this migration was the greater, if the Text expresseth, he was cast out of the East-side

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of Paradise to till the ground, and as the Position of the Cherubims implyeth, who were placed at the East-end of the Garden to keep him from the Tree of life.

That the extream and remote parts of the Earth were in this time inhabited is also inducible from the like testimonies; for (omitting the numeration of Tofephus, and the genealogies of the Sons of Noab) that Italy was inhabited, appeareth from the Records of Livie and Dionyfius, Halisarna feus, the flory of Aneas, Evander, and Janas, whom Anneus of Viterbo, and the Chorographers of Italy do make to be the same with Noah. That Sicilie was also peopled, is made out from the frequent mention thereof in Homer, the Records of Diodorus and others, but especially from a remarkable passage touched by Aretius and Ranzanus Bishop of Lucerium, but fully explained by Thomas Fazelli in his accurate History of Sicilie; that is, from an ancient inscription in a stone at Panormo, expressed by him in its proper Characters, and by a Syrian thus translated, Non off alins Deus prater unum Deum, non est alius potens prater eundem Deum, neg; est alius victor prater eundem quem coli-mus Deum: Hujus turris prafectus est Sapha silius Eliphar, silii Esau, fratris Jacob, filii Isaac, filii Abraham : & turri quidem ipsi nomen est Baych, sed turri buic proxime nomen est Pharath. The Antiquity of the inhabitation of Spain is also confirmable, not only from Berosus in the plantation of Tubal, and a City continuing yet in his name; but the flory of Gerion, the travels of Hercules and his pillars, and especially a passage in Strabo, which advanceth unto the time of Ninus, thus delivered in his fourth Book. The Spaniards (saith he) affirm, that they have had Laws and Letters above fix thousand years. Now the Spaniards or Iberians observing (as Xenophon hath delivered) Annum quadrimestrem, four moneths unto a year, this compute will make up 2000 solary years, which is about the space of time from Strabo, who lived in the days of Angustus, unto the Reign of Minus.

That Mauritania and the Coast of Africa were peopled very soon, is the conjecture of many wise men, and that by the Phanicians, who left their Country upon the invasion of Canaan by the Isarelites. For beside the conformity of the Punick or Carthaginian language with that of Phanicia, there is a pregnant and very remarkable testimony hereof in Processins, who in his second de bello vandalico, recordeth, that in a Town of Mauritania Tingitana, there was to be seen upon two white Columns in the Phanician language these ensuing words; Nos Maurici sumus qui sugimus a facie Febosobua silii Nunis pradatoris. The fortunate Islands or Canaries were not unknown? for so doth Strabo interpret that speech in Homer of Protens unto Menelans.

Sed te qua terra postremus terminus extat, Elysum in Campum cœlestia numina ducunt.

The like might we affirm from credible Histories both of France and Germany, and probably also out of our own Country. For omiting the fabulous and frejan original delivered by feofre, of Monmonth, and the express Text

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of Scripture; that the race of Fapher did people the Isles of the Gentiles; the Brittish Original was 100 obscure in Cafars time, that he affirmeth the Inland Inhabitants were Ab origine, that is, such as reported that they had their beginning in the Mand. That Ireland our neighbour-Island was not long time without Inhabitants, may be made probable by fundry accounts; although we abate the Tradition of Burtholanus the Scythian, who arrived there three hundred years after the Flood, or the relation of Giraldus; that Cafaria the Daughter of Noah dwelt there before.

Now should we call in the learned account of Bochartus, deducing the ancient names of Countrys from Phanicians, who by their plantations, difcoveries, and fea-negotiations, have left unto very many Countries, Pheni- Richart. Gent. cian-denominations, the enquiry would be much shorter, and if Spain in the Sacr. part 2. Phanician-Original be but the region of Conies, Lustrania, or Portugal the Country of Almonds, if Brittanica were at first Baratanaca, or the Land of Tin, and Ibernia or Ireland, were but Ibernae, or the farthest habitation; and these names imposed and dispersed by Phanisian-Colonies in their several navigations; the Antiquity of habitations might be more clearly advanced.

Thus though we have declared how largely the world was inhabited within the space of 1300 years, yet must it be conceived more populous then can be clearly evinced; for a greater part of the earth hath ever been peopled, then hath been known or described by Geographers, as will appear by the discoveries of all Ages. For neither in Herodotus or Thursdides do we find any mention of Rome, nor in Ptolomy of many parts of Europe, Afia or Africa. And because many places we have declared of long plantation, of whose populofity notwithstanding or memorable actions we have no ancient flory; if we may conjecture of these by what we find related of others, we shall not need many words, nor assume the half of 1300 years. And this we might illustrate from the mighty acts of the Affyrians performed not long after the flood: recorded by Fustine and Diedorns, who makes relation of expeditions by Armies more numerous then have been ever fince. For Ninus King of Afyria brought against the Bastrians 700000 Foot, 200000 Horse, 10600 Chariots. Semiramis his Successor led against the Indians 1300000 Foot, 500000 Horse, 100000 Chariots, and as many upon Camels; And it is faid, Staurobates the Indian King met her with greater Forces then the brought against him. All which was performed within less then four hundred years after the Flood.

Now if any imagine the unity of their language did hinder their dispersion before the Flood, we confess it some hindrance at first, but not much afterward. For though it might restrain their dispersion, it could not their populofity; which necessarily requireth transmigration and emission of Colonies, as we read of Romans, Greeks, Phanicians in ages past, and have beheld examples thereof in our days. We may also observe, that after the flood, before the confusion of Tongues, men began to disperse: for it is said, they journeyed towards the East; and the Scripture it self expresset a necessity conceived of

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their dispersion, for the intent of erecting the Tower is so delivered in the Text, Lest we be scattered abroad upon the face of the Earth.

Again, if any imagine the plantation of the Earth more easie in regard of Navigation and Shipping discovered since the Flood, whereby the Islands and divided parts of the Earth are now inhabited; he must consider that whether there were Islands or no before the Flood, is not yet determined, and is with probability denied by very learned Authors.

Whether any Islands before the Flood.

Lastly, if we shall fall into apprehension that it was less inhabited, because it is said in Gen.6. about a 120 years before the Flood, and it came to pass that when men began to multiply upon the sace of the Earth. Beside, that this may be only meant of the race of Cain, it will not import they were not multiplied before, but that they were at that time plentifully encreased; for so is the same word used in other parts of Scripture. And so is it afterward in the 9. Chapter said, that Noah began to be an Husbandman, that is, he was so, or earnessly performed the acts thereof: so it is said of our Saviour, that he began to cast them out that bought and sold in the Temple, that is, he actually cast them out, or with alacrity effected it.

Thus have I declared my private and probable conceptions in the enquiry of this truth; but the certainty hereof let the Arithmetick of the last determine; and therefore expect no further belief then probability and reason induce. Onely desire men would not swallow dubiosities for certainties; and receive as principles points mainly controvertible; for we are to adhere unto things doubtful in a dubious and opinative way. It being reasonable for every man to vary his opinion according to the variance of his reason, and to affirm one day what he denied another. Wherein although at last we miss of truth; we die notwithstanding in harmless and inosfensive errors, because we adhere unto that, whereunto the examen of our reasons, and honest enquiries induce us.

CHAP. VII.

Of East and West.

The next shall be of East and West; that is, the proprieties and conditions assertibled unto Regions respectively unto those situations; which hath been the obivious conception of Philosophers and Geographers, magnifying the condition of India, and the Eastern Countries, above the setting and occidental Climates, some ascribing hereto the generation of gold, precious stones and spices, others the civility and natural endowments of men; conceiving the bodies of this situation to receive a special impression from the first Salutes of the Sun, and some appropriate influence from his ascendent and oriental radiations. But these proprieties affixed untobodies, upon considerations deduced from East, West, or those observable points of the Sphere, how specious and plausible soever, will not upon enquiry be justified from such foundations.

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For so speak strictly, there is no East and West in nature, nor are those absolute and invariable, but respective and mutable points, according unto different longitudes, or diffant points of habitation, whereby they fuffer many and confiderable variations. For first, unto some the same part will be East or West in respect of one another, that is, anto such as inhabit the same parallel, or differently dwell from East to West. Thus as unto Spain, Italy lieth East, unto Italy Greece, unto Greece Perfia, and unto Perfia China,; fo again unto the Country of China, Persia lieth West, unto Persia Greece, unto Greece Italy, and unto Italy Spain. So that the same Country is sometimes East and fomtimes West; & Persia though East unto Greece, yet is it West unto China.

Unto other habitations the same point will be both East and West; as unto those that are Antipodes, or seated in points of the Globe diametrically opposed. So the Americans are Antipodal unto the Indians, and some part of India is both East and West unto America, according as it shall be regarded from one fide or the other, to the right or to the left; and fetting out from any middle point; either by East or West, the distance unto the place intended is equal, and in the same space of time in nature also performable.

To a third that have the Poles for their vertex, or dwell in the polition of a parallel Sphere, there will be neither East nor West, at least the greatest part of the year. For if (as the name Oriental implyeth) they thall account that part to be East where ever the Sun ariseth, or that West where the Sun is occidental or fetteth; almost half the year they have neither the one nor the other. For half the year it is below their Horizon, and the other half it is continually above it, and circling round about them intersecteth not the Horizon, nor leaveth any part for this compute. And if (which will feem very reasonable) that part should be termed the Eastern point, where the Sun at Acquinox, and but once in the year ariseth, yet will this also diffurb the cardinal accounts, not will it with propriety admit that appellation. For that furely cannot be accounted East, which hath the South on both fides; which notwithstanding this position must have. For if unto such as live under the Pole, that be only North which is above them, that must be Southerly which is below them; which is all the other portion of the Globe, beside that part possessed by them. And thus these points of East and West being not absolute in any, respective in some, and not at all relating unto others, we cannot hereon establish so general considerations, nor reasonably erect such immutable affertions upon so unstable foundations.

Now the ground that begat or promoted this conceit, was first a mistake in the apprehension of East and West, considering thereof as of the North and South, and computing by these as invariably as by the other; but herein, upon second thoughts there is a great disparity. For the North and Southern What the Pole, are the invariable terms of that Axis where on the heavens do move; Northern and and are therefore incommunicable and fixed points; whereof the one is not Southern Poles apprehensible in the other. But with East and West it is quite otherwise; for bethe resolution of the Orbs being made up on the Poles of North and South,

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all other points about the Axis are mutable; and wheresoever therein the East point be determined; by succession of parts in one revolution every point becometh East. And so if where the Sun ariseth, that part be termed East, every habitation differing in longitude will have this point also different the sun ariseth.

rent; in as much as the Sun successively ariseth unto every one.

The second ground, although it depend upon the former, approacheth nearer the effect; and that is the efficacy of the Sun, set out and divided according to priority of ascent; whereby his influence is conceived more favourable unto one Country then another, and to selicitate India more then any after. But hereby we cannot avoid absurdities, and such as infer effects controuble by our senses. For first, by the same reason that we affirm the Indian richer then the American, the American will also be more plentiful then the Indian, and England or Spain more fruitful then Hispaniola, or golden Castle; in as much as the Sun ariseth unto the one sooner then the others, and so accountably unto any Nation subjected unto the same parallel, or with a considerable diversity of longitude from each other.

Secondly, an unsufferable absurdity will ensue: for thereby a Country may be more fruitful then it self: For India is more fertile then Spain, because more East, and that the Sun ariseth first unto it: Spain likewise by the same reason more fruitful then America, and America then India: so that Spain is less fruitful then that Country, which a less fertile Country then it self ex-

celleth.

Lastly, If we conceive the Sun hath any advantage by priority of ascent, or makes thereby one Country more happy then another, we introduce injustifiable determinations, and impose a natural partiality on that Luminary, which being equidistant from the earth, and equally removed in the East as in the West, his Power and Essicacy in both places must be equal, as Boetias hath taken notice, and Scaliger hath graphically declared. Some have therefore for saken this refuge of the Sun, and to salve the essect, have recurred unto the influence of the Stars, making their activities National, and appropriating their Powers unto particular Regions. So Cardan conceiveth the tail of ursa Major peculiarly respecteth Europe: whereas indeed once in 24 hours it hath also absolve thits course over Asia and America. And therefore it will not be easie to apprehend those Stars peculiarly glance on us, who must of necessity carry a common eye and regard unto all Countries, unto whom their revolution and verticity is also common.

The effects therefore or different productions in several Countrys, which we impute unto the action of the Sun, must surely have nearer and more immediate causes then that Luminary. And these if we place in the propriety of clime, or condition of soil wherein they are produced, we shall more reasonably proceed, then they who ascribe them unto the activity of the Sun. Whose revolution being regular, it hath no power nor efficacy peculiar from its orientality but equally disperseth his beams, unto all which equally, and in the same restriction, receive his lustre. And being an universal and in-

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definite agent, the effects or productions we behold, receive nor their circle from his causality, but are determined by the principles of the place, or qualities of that Region which admits them. And this is evident not only in gems, minerals, and mettals, but observable in plants and animals; whereof fome are common unto many Countrys, some peculiar unto one, some not communicable unto another. For the hand of God that first created the earth, hath with variety disposed the principles of all things; wisely contriving Whence prothem in their proper feminaries, and where they best maintain the intention ceed the diffeof their species, whereof if they have not a concurrence, and be not lodged rent commodiin a convenient matrix, they are not excited by the efficacy of the Sun; or ties of several failing in particular causes, receive a relief or sufficient promotion from the Countries. universal. For although superior powers co-operate with inferior activities, & may (as some conceive) carry a stroke in the plastick and formative draught of all things, yet do their determinations belong unto particular agents, and are defined from their proper principles. Thus the Sun which with us is fruitful in the generation of Frogs, Toads and Serpents, to this effect proves impotent in our neighbour Island; wherein as in all other carrying a common aspect, it concurreth but unto predisposed effects; and only suscitates those forms, whose determinations are seminal, and proceed from the Idea of themselves.

Now whereas there be many observations concerning East, and divers considerations of Art which seem to extol the quality of that point, if rightly understood they do not really promote it. That the Astrologer takes account Why Astroloof Nativities from the Ascendent, that is, the first house of the Heavens, gical judgwhose beginning is toward the East, it doth not advangate the conceit. For, Nativities be he establisheth not his Judgment upon the orientality thereof, but confide- taken from the reth therein his first ascent above the Horizon; at which time its efficacy Ascendent. becomes observable, and is conceived to have the fignification of life, and to respect the condition of all things, which at the same arise from their causes, and ascend to the Horizon with it. Now this ascension indeed falls out respectively in the East: but as we have delivered before, in some positions there is no Eastern point from whence to compute these ascentions. So is it in a parallel Sphere: for unto them fix houses are continually depressed, and fix never elevated: and the Planets themselves, whose revolutions are of more speed, and influences of higher confideration, must find in that place a very imperfect regard; for half their period they absolve above, and half beneath the Horizon. And so for fix years, no man can have the happiness to be born under Jugiter: and for fifteenth together all must escape the ascendent dominion of Saturn.

That Arifforle in his Politicks, commends the fituation of a City which is open towards the East, and admitteth the rayes of the rifing Sun, thereby is implied no more particular efficacy then in the West: But that position is commended, in regard the damps and vaparous exhalations ingendred in the absence of the Sun; are by his returning rays the sooner dispelled; and

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men thereby the more early enjoy a clear and healthy habitation. Upon the like confideration it is, that Marcus Varre commendeth the fame fituation, and exposeth his Farm unto the Æquincetial ascent of the Sun, and that Palladius adviseth the Front of his Edifice should so respect the South, that in the first angle it receive the rising rayes of the winter Sun, and decline a little from the winter setting thereof. And concordant hereunto is the instruction of Columella, De positione villa: which he contriveth into Summer and Winter habitations, ordering that the Winter lodgings regard the Winter afcent of the Sun, that is South-East; and the rooms of repatt at Supper, the Æquincetial fetting thereof, that is the West: that the Summer lodgings regard the Æquinoctial Meridian ; but the rooms of canation in the Summer, he obverts unto the Winter afcent, that is, South-East; and the Balnearies, or bathing-places, that they may remain under the Sun until evening, he exposeth unto the Summer setting, that is, North-West, in all which, although the Cardinal points be introduced, yet is the confideration Solary, and only determined unto the aspect or visible reception of the Sun.

Jews and Mahometans in these and our neighbour parts are observed to use some gestures towards the East, as at their benediction, and the killing of their meat. And though many ignorant Spectators, and not a few of the Actors conceive some Magick or mystery therein, yet is the Ceremony only Tropical, and in a memorial relation unto a place they honour. So the Jews do carry a respect, and cast an eye upon Jerusalem: for which practice they are not without the example of their Fore-fathers, and the encouragement of their wise King; For so it is said that Daniel went into his house, and his windows being opened towards Jerusalem, he kneeled upon his knees three times a day, and prayed. So it is expressed in the prayer of Solomon, What prayer or Supplication foever be made by any man, which shall spread forth his hands towards this house . if thy people go out to battel, and shall pray unto the Lord towards the City which thou hast chosen, and towards the house which I have chosen to build for thy Name, then hear thou in heaven their prayer and their supplication, and maintain their cause. Now the observation hereof, unto the Jews that are dispersed Westward, and such as most converse with us, directeth their regard unto the East: But the words of Solomon are appliable unto all quarters of Heaven: and by the Jews of the East and South must be regarded in a contrary position. So Daniel in Babylon looking toward Fernfalem, had his face toward the West. So the Jews in their own Land looked upon it from all quarters. For the Tribe of Judab beheld it to the North : Manaffes, Zabulon, and Nepthali unto the South : Reuben and Gad unto the West; only the Tribe of Dan regarded it directly, or to the due East. So when it is said, when you see a Cloud rise out of the West, you say there cometh a shower, and so it is; the observation was respective unto Judaa: nor is this a reasonable illation in all other Nations whatfoever: For the Sea lay West unto that Country, and the winds brought rain from that quarter: But this confideration cannot be transferred unto

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India or China, which have a vast Sea Westward, and a vaster Continent toward the West. So likewise when it is said in the vulgar Translation, Gold Job. cometh out of the North; it is no reasonable inducement unto us and many other Countrys, from some particular mines septentrional unto his situation, to fearch after that metal in cold and Northern Regions, which we most plentifully discover in hot and Southern habitations.

For the Mahometants, as they partake with all Religions in something, so they imitate the Jew in this. For in their observed gestures, they hold a regard unto Mecha and Medina Talnali, two Cities in Arabia falix; where their Prophet was born and buried ; whither they perform their pilgrimages ; and from whence they expect be should return again. And therefore they direct their faces unto these parts; which unto the Mahometans of Barbary and Egypt lie East, and are in some point thereof unto many other parts of Turky. Wherein notwithstanding there is no Oriental respect; for with the same devotion on the other fide they regard these parts toward the West, and so with variety wheresover they are seated, conforming unto the ground

of their conception.

Fourthly, Whereas in the ordering of the Camp of Ifrael, the East quarter is appointed unto the Noblest Tribe, that is, the Tribe of Judah, according to the command of God. In the East-side, toward the rising of the Sun, shall the Standard of the Tribe of Judab pitch: it doth not peculiarly extol Num. 3. that point. For herein the East is not to be taken strictly, but as it fignifieth or implyeth the foremost place; for Judah had the Van, and many Countrys through which they passed were seated Easterly unto them. Thus much is implyed by the Original, and expressed by Translations which strictly conform thereto: So Tremelius and Junius, Castra habentium ab anteriore parte Orientem versus, vexillum efto castrorum Juda; so hath R. Solomon Farchi expounded it, the foremost, or before, is the East quarter, and the West is called behind. And upon this interpretation may all be salved that is alledgable against it. For if the Tribe of Fudah were to pitch before the Tabernacle at the East, and yet to march fish, as is commanded, Numb. 10. there must ensue a disorder in the Camp, nor could they conveniently observe the execution thereof; For when they fet out from Mount Sinab where the Command was delivered, they made Northward unto Richmah; from Riffah unto Eziongater, about fourteen stations they marched South: From Almen Diblathaim through the Mountains of Yabarim and plains of Mont towards Fordan, the face of their march was West: So that if Judah were strictly to pitch in the East of the Tabernacle, every night he encamped in the Rear: And if (as some conceive) the whole Camp could not be less then twelve miles long, it had been preposterous for him to have marched foremost; or set out first who was most remote from the place to be approached. Fifthly, That Learning, Civility and Arts had their beginning in the East, it. is not imputable either to the action of the Sun, or its Orientality, but the first. plantation of man in those parts, which unto Europe do carry the respect of

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East. For on the Mountains of Ararat, that ; is part of the hill Taurus, between the East-Indies and Soythia, as Sir W. Raleigh accounts it, the Ark of Where the Ark Noah rested; from the East they travelled that built the Tower of Babel : rested as some from thence they were dispersed and successively enlarged, and Learning good Arts, and all Civility communicated. The progretion whereof was very sensible; and if we consider the distance of time between the consusion of Babel, and the Civility of many parts now eminent therein, it travelled late and flowly into our quarters. For notwithstanding the learning of Bardes and Druides of elder times, he that shall peruse that work of Taciuns de moribus Germanorum, may eafily discern how little Civility two thousand years had wrought upon that Nation: the like he may observe concerning our selves from the same Author in the life of Agricola, and more directly from Strabo, who to the dishonour of our Predecessors, and the disparagement of those that glory in the antiquity of their Ancestors, affirm the Britains were so simple, that though they abounded in Milk, they had not the Artifice of Cheese.

Lastly, That the Globe it self is by Cosmographers divided into East and West, accounting from the first Meridian, it doth not establish this conceit. For that division is not naturally founded, but artificially set down, and by agreement; as the aptest terms to define or commensurate the longitude of places. Thus the ancient Cosmographers do place the division of the East and Western Hemisphere, that is, the first term of longitude in the Canary or fortunate Islands; conceiving these parts the extreamest habitations Westward: But the Moderns have altered that term, & translated it unto the Azores or Islands of Saint Michael, and that upon a plausible conceit of the small or insensible variation of the Compass in those parts, wherein nevertheless, and though upon second invention, they proceed upon a common and no appropriate foundation; for even in that Meridian farther North or South the Compass observably varieth; and there are also other places wherein it varieth not, as Alphonso and Rodoriges de Lago will have it about Gapo de las Aguilas in Africa, as Maurolyons affirmeth in the shore of Peloponnesus in Europe . and as Gilbertus averreth, in the midst of great Regions, in most

parts of the earth.

CHAP. VIII. Of the River Nilw.

Ereof uncontroulably and under general confent many opinions are passant, which notwithstanding upon due examination, do admit of doubt or restriction. It is generally esteemed, and by most unto our dayes received, that the River Nilus hath seven offiaries; that is, by seven Channels disburdneth it self into the Sea. Wherein notwithstanding, beside that we find no concurrent determination ages past, and a positive and undenia-

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ble refute of these present; the affirmative is mutable, and must not be received without all limitation.

For some, from whom we receive the grearest illustrations of Antiquity, have made no mention hereof: So Hower hath given no number of its Channels, nor so much as the name thereof in use with all Historians. Erato slenes in his description of Agypt hath likewise passed them over. Aristotle is so indistinct in their names and numbers, that in the first of Meteors he plainly affirmeth the Region of Agypt (which we esteem the ancientest Nation in the world) was a meer gained ground, and that the fetling of mud dry land. and limous matter brought down by the River Nilus, that which was at first a continued Sea, was raised at last into a firm and habitable Country. The like opinion he held of Meotis Palus, that by the floods of Tanais and earth brought down, thereby it grew observably shallower in his days, and would in process of time become a firm land. And though his conjecture be not as yet fulfilled, yet is the like observable in the River Gibon, a branch of Euphrates and River of Paradise, which having in former Ages discharged it felf in the Persian Sea, doth at present fall short; being lost in the Lakes of Chaldea, and hath left between the Sea, a large confiderable part of dry land.

Others expresly treating hereof, have diversly delivered themselves; Herodotus in his Euterpe makes mention of seven; but carelesly of two thereof; that is, Bolbitinum and Bucclicum; for these, saith he, were not the natural currents, but made by Art for some occasional convenience. Strabo in his Geography naming but two, Pelusiacum and Canopicum, plainly affirmeth there were many more then seven; Inter bac alia quinque, &c. There are (faith he) many temarkable Towns within the currents of Nile, especially fuch which have given the names unto the Offiaries thereof, not unto all, for they are eleven, and four befides, but unto feven and most confiderable : that is Canopicum, Bolbitinum, Selenneticum, Sebenneticum, Pharniticum, Mendefium, Taniticum and Pelusium; wherein to make up the number, one of the artificial channels of Herodotus' is accounted. Ptolomy an Agyptian, and born at the Pelusian mouth of Nile, in his Geography maketh nine: and in the third Map of Africa, hath unto their mouths prefixed their several Names ; Heracleoticum, Bolbitinum, Sebenneticum, Pineptum, Diolcos, Pathmeticum, Mendesium, Taniticum, Peleusiacum: wherein notwithstanding there are no less then three different names from those delivered by Pliny. All which confidered, we may eafily differn that Authors accord not either in name or number; and we must needs confirm the Judgment of Maginus, de Ostiorum Nili numero & nominibus,valde antiqui scriptores discordant.

Modern Geographers and Travellers do much abate of this number, for as Maginus and others observe, there are now but three or four moneths thereof; as Gulielman Tyrins long ago, and Bellonian fince, both occular enquirers with others have atteffed, For below Cairo, the River divides it felf into four branches, whereof two make the chief and navigable Areams, the one running to Pelufium of the Ancients, and now Damiata; the other unto Ca-

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nopium, and now Roscetta; the other two, saith Mr. Sandys, do run between Sasd. Relation. these; but poor in water. Of those seven mentioned by Herodotus, and those nine by Ptolamy, these are all I could either see or hear of. Which much confirmeth the testimony of the Bishop of Tyre, a diligent and ocular Enquirer; who in his holy war doth thus deliver himself. We wonder much at the Ancients, who assigned seven mouths unto Nilns: which we can no otherwise salve, then that by process of time, the face of places is altered, and the River hath loft his channels; or that our fore fathers did never obtain a true account thereof.

Ma. 11.15,16.

And therefore when it is faid in holy Scripture, The Lord shall utterly destroy the Tongue of the Agyptian Sea, and with his mighty wind he shall shake his hand over the River, and shall smite it in the seven streams, and make men go over dry-shod. If this expression concerneth the River Nilus, it must only respect the seven principal streams. But the place is very obscure, and whether thereby be not meant the River Euphrates, is not without good controversie, as is collectible from the subsequent words; And there shall be an high way for the remnant of his people, that shall be left from Affyria, and from the bare name River, emphatically fignifying Euphraies, and thereby the division of the Afforian Empire into many fractions, which might facilitate their return : as Grotius hath observed; and is more plainly made out, if the Apocrypha of Esdras, and that of the Apocalyps have any relation hereto.

Lastly, Whatever was or is their number, the Contrivers of Charts and Maps afford us no affurance or constant description therein. For whereas Ptolomy hath fent forth nine, Hondins in his Map of Africa, makes but eight, and in that of Europe ten. Ortelius in the Map of the Turkifh Empire, letteth down eight, in that of Agypt eleven; and Maginus in his Map of that Country hath observed the same number. And if we enquire farther, we

shall find the same diversity and discord in divers others.

Thus may we perceive that this account was differently related by the Ancients, that it is undeniably rejected by the Moderns, and must be warily received by any. For if we receive them all into account, they were more then feven, if only the natural fluces, they were fewer; and however we receive them, there is no agreeable and constant description thereof, And therefore how reasonable it is to draw continual and durable deductions from alterable and uncertain foundations; let them confider who make the gates of Thebes, and the mouths of this River a conflant and continued periphrafis for this number, and in their Poetical expressions do give the River that Epithete unto this day.

The same River is also accounted the greatest of the earth, called therefore Fluviorum Pater, and Totius Orbis Maximus, by Ortelius: if this be true, many Maps must be corrected, or the relations of divers good Authors

For first, in the delineations of many Maps of Africa, the River Niger exceedeth

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exceedeth it about ten degrees in length, that is, no less then fix hundred miles, For arifing beyond the Aquator, it maketh Northward almost 15 degrees, and deflecting after Westward, without Meanders, continueth a strait course about 40 degrees; and at length with many great Currents disburdenethic felf into the Occidental Ocean. Again, if we credit the descriptions of good Authors, other Rivers excel it in length, or bredth, or both. Arrianus in his history of Alexander, affigneth the first place unto the River Ganges; which truly according unto later relations, if not in length, yet in bredth and depth may be granted to excel it. For the magnitude of Nilus confishesh in the dimension of longitude, and is inconsiderable in the other; what stream it maintaineth beyond Syene or Afna, and so forward unto its original, relations are very imperfect; but below these places, and farther removed from the head, the current is but narrow, and we read in the History of the Turks, the Tartar horsemen of Selimus, swam over the Nile from Cairo, to meet the forces of Tonombeus. Baptifta Scortia expresly treating here- De natura & of, preferreth the River of Plato in America; for that as Maffens hath deli- incremento [Nivered, falleth into the Ocean in the latitude of forty leagues; and with that "Rio de la source and plenty that men at Sea do taste fresh water, before they approach so near as to discover the land. So is it exceeded by that which by Cardan is termed the greatest in the world, that is the River Oregliana in the office through same Continent; which, as Maginus delivereth, hath been navigated 6000 miles; and opens in a channel of ninety leagues broad; fo that, as Acofta, an ocular witness, recordeth, they that fail in the middle, can make no land of either fide.

Now the ground of this Affertion was furely the magnifying effeem of the Antients, arising from the indiscovery of its head. For as things unknown feem greater then they are, and are usually received with amplifications above their nature; fo might it also be with this River, whose head being unknown, and drawn to a proverbial obscurity, the opinion thereof became without bounds; and men must needs conceit a large extent of that to which the discovery of no man had set a period. And this is an usual way to give the superlative unto things of eminency in any kind; and when a thing is very great, presently to define it to be the greatest of all. Whereas indeed Superlatives are difficult; whereof there being but one in every kind, their determinations are dangerous, and must not be made without great circumspection. So the City of Rome is magnified by the Latines to be the greatest The greatest : of the earth; but time and Geography inform us, that Cairo is bigger, and Cities of the Quinfay in China far exceedeth both. So is Olympus extolled by the Greeks, World. as an hill attaining unto heaven; but the enlarged Geography of after-times makes flight account thereof, when they discourse of Andes in Peru, or Teneriff a in the Canaries. So have all Ages conceived, and most are still ready Hills. to sweer, the Wren is the least of Birds; yet the discoveries of America, and even of our own Plantations have the wed us one far less; that is, the Humbrid, not much exceeding a Beetle. And truly for the least and greatest,

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the highest and the lowest of every kind, as it is very difficult to define them invisible things; so is it to understand in things invisible. This is no easie lesson to comprehend the first matter, and the affections of that which is next neighbour unto nothing, but impossible truly to comprehend God, who indeed is all things. For things as they arise unto perfection, and approach unto God, or descend to imperfection, and draw nearer unto nothing, fall both imperfectly into our apprehensions, the one being too weak for our con-

ception, our conception too weak for the other

Thirdly, divers conceptions there are concerning its increment or inundation. The first unwarily opinions, that this encrease or annual overslowing is proper unto Nile, and not agreeable unto any other River; which notwithstanding is common unto many currents of Africa. For about the same time the River Niger and Zaire do overslow; and so the Rivers beyond the Mountains of the Moon, as Suama, and Spirito Santo. And not only these in Africa, but some also in Europe and Asia, for so it is reported of Menan in India, and so doth Botero report of Duina in Livonia; and the same is also observable in the River Fordan in Indea; for so is it delivered,

that Fordan overfloweth all his banks in the time of harvest.

those Countrys there passed no day without rain.

The effect indeed is wonderful in all, and the causes surely best resolvable from observations made in the Countrys themselves, the parts through which they pass, or whence they take their Original. That of Nilus hath been attempted by many, and by some to that despair of resolution, that they have only referred it unto the Providence of God, and his secret manuduction of all things unto their ends. But divers have attained the truth, and the causes alledged by Diodorus, Senesa, Strabo, and others, it is allowable; that the inundation of Niles in Egypt proceeded from the rains in Ethiopia, and the mighty source of waters falling towards the fountains thereof. For this inundation unto the Egyptians happeneth when it is Winter unto the Ethiopians, which habitations, although they have no cold Winter, (the Sun being no farther removed from them in Cancer, then unto us in Taurns) yet is the fervour of the Air to well remitted, as it admits a sufficient generation of vapours, and plenty of snowres ensuing thereupon. This Theory of the Ancients is fince confirmed by experience of the Moderns; by Franciscus Alvarez, who lived long in those parts, and left a description of Athiopia; affirming that from the middle of June unto September, there fell in his time continual rains. As also Antonius Ferdinandus, who in an Epistle written from thence, and noted by Codignus, affirmeth, that during the Winter, in

Now this is also usual, to translate a remarkable quality into a propriety, and where we admire an effect in one, to opinion there is not the like in any other. With these conceits do common apprehensions entertain the anti-dotal and wondrous condition of Ireland; conceiving only in that land an immunity from venemous Creatures: but unto him that shall further enquire, the same will be affirmed of Creta, memorable in ancient stories, even unto fabulous causes, and benediction from the birth of Jupiter. The same

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is also found in Ebusus or Evisa, an Island near Majorca upon the Coast of Spain. With these apprehensions do the eyes of neighbour-Spectators behold Atna, the staming mountain in Sicilia; but Navigators tells there is a burning mountain in Island; a more remarkable one in Tenerista of the Canaries, and many Vulcano's or fiery Hills elsewhere. Thus Crocodiles were thought to be peculiar unto Nile, and the opinion so possessed Alexander, that when he had discovered some in Ganges, he fell upon conceit he had found the head of Nilus; but latter discoveries affirm, that they are not in Asia and Africa, but very frequent in some Rivers of America.

Another opinion confineth its Inundation, and politively affirmeth, it constantly encreases the 17th.day of June; wherein perhaps a larger forme of speech were safer, then that which punctually prefixeth a constant day thereto. For this expression is different from that of the Ancients, as Herodetus, Diodorus, Seneca, &c. delivering only that it happeneth about the entrance of the Sun into Cancer; wherein they warily deliver themselves, and referve a reasonable latitude. So when Hypocrates saith, Sub Cane & ante Canem difficiles sunt purgationes : There is a latitude of days comprised therein; for under the dog-ttar he containeth not only the day of its afcent, but many following, and some ten days preceding. So Aristotle delivers the affections of Animals, with the wary terms of Circa & magna ex parte: and when Theodorus translateth that part of his, Count Thunni & Scombri menfe Februario post Idus, pariant Junio ante Nonas; Scaliger for ante Nonas, renders it Junii initio; because that exposition affordeth the latitude of divers days: For affirming it happeneth before the Nones: he alloweth but one day, that is, the Calends; for in the Roman Account, the second day is the fourth of the Nones of June.

Again, were the day definitive, it had prevented the delution of the devil, nor could be have gained applanse by its prediction; who notwithstanding (as Athanasius in the life of Anthony relateth) to magnifie his knowledge in things to come, when he perceived the rains to fall in Athiopia, would presage unto the Egyptians the day of its inundation. And this would also make useles that natural experiment observed in earth or sand about the River; by the weight whereof (as good Authors report) they have unto

this day a knowledge of its encrease.

Lastly, it is not reasonable from variable and unstable causes, to derive a fixed and constant effect, and such are the causes of this inundation; which cannot indeed be regular, and therefore their effects not prognosticable like Ecclipses. For depending upon the clouds and descent of showers in Athiopia, which have their generation from vaprous exhalations, they must submit their existence unto contingencies, and endure anticipation and recession from the movable condition of their causes. And therefore some years there hath been no increase at all, as some conceive in the years of samine under Pharoab, as Seneca, and divers relate of the eleventh year of Cleopatra; nor nine years together, as is testified by Calistbenes. Some years it hath also Y y

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retarded, and came far later then usually it was expected, as according to Sozomen and Nicephorus it happened in the days of Theodofius; whereat the people were ready to mutiny, because they might not sacrifice unto the

River, according to the cultome of their Predecesfors.

Now this is also an usual way of mistake, and many are deceived who too strictly construe the temporal considerations of things. Thus books will tell us, and we are made to believe that the fourteenth year males are seminifical and pubefcent; but he that shall inquire into the generality, will rather adhere unto the cautelous effertion of Aristotle, that is, bis septem annis ex-That Whelps are blind nine days, and attis, and thed but magna ex parte. then begin to see, is generally believed, but as we have elsewhere declared, it is exceeding rare, nor do their eye-lids usually open until the twelfth, and sometimes not before the fourteenth day. And to speak strictly, an hazardable determination it is unto fluctuating and indifferent effects, to affix a positive type or period. For in effects of far more regular casualities, difficulties do often arife, and even in time it felf, which measureth all things, we use allowance in its commensuration. Thus while we conceive we have the account of a year in 365 days, exact Enquirers and Computifts will tell us, that we escape 6 hours, that is, a quarter of a day. And so in a day which every one accounts 24 hours, or one revolution of the Sun; in Ariet account we must allow the addition of such a part as the Sun doth make in his proper motion, from West to East, whereby in one day he describeth not a perfect Circle.

Fourrthly, it is affirmed by many, and received by most, that it never raineth in Egypt, the River supplying that defect, and bountifully requiting it in its inundation; but this must also be received in a qualified sense, that is, that it rains but feldom at any time in the Summer, and very rarely in the Winter. But that great showres do sometimes fall upon that Region, beside the Affertion of many Writers, we can confirm from honourable and ocular testimony, and that not many years past, it rained in Grand Cairo divers

days together.

The same is also attested concerning other parts of Egypt, by Prosper Alpinus, who living long in that Country, and hath left an accurate Treaty of the medical practice thereof. Cayri raro decidunt pluvia, Alexandria, Pelufique & in omnibus locis mari adjacentibus, pluit largissime & Sape; that is, it raineth seldom at Cairo, but at Alexandria, Damiata, and places near the Sea, it raineth plentifully and often. Whereby we might add the later testimony of Learned Mr. Greaves, in his accurate description of the Pyramids.

Beside, Men hereby forget the relation of holy Scripture, Behold I will cause it to rain a very great bail, such as bath not been in Egypt since the foundation thereof, even until now. Wherein God threatning fuch a rain as had not hapned, it must be presumed they had been acquainted with some before, and were not ignorant of the substance, the menance being made in the circumstance. The same concerning hail is inferrible from Prosper Alpinus, Rariffine nix, grando it feldome snoweth or haileth. Whereby we must concede

That Egypt hath rain. Sir William Pafton, Baroner.

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that fnow and hail do sometimes fall, because they happen seldome.

Now this mistake ariseth from a disapplication of the bounds or limits of time, and an undue transition from one to another; which to avoid, we must observe the punctual differences of time, and so distinguish thereof, as not to confound or lose the one in the other. For things may come to pass, Semper, Plerumque, Sepe, aut Nungaam, Aliquando Raro; thatis, Always, or Never, for the most part, or Sometimes, Oft-times, or Seldom. Now the deception is usual which is made by the mis-application of these; men presently concluding that to happen often, which happeneth but sometimes: that never, which happeneth but seldom; and that alway, which happeneth for the most part. So is it faid, the Sun shines every day in Rhodes, because for the most part it faileth not. So we say and believe that a Camelion never eateth, but liveth only upon Air, whereas indeed it is feen to eat very feldome : but many there are who have beheld it to feed on flies. And fo it is faid, that children born in the eighth moneth live not, that is, for the most part, but not to be concluded always; nor it feems in former ages in all places: for it is other wife recorded by Aristotle concerning the births of Egypt.

Lastly, it is commonly conceived that divers Princes have attempted to Lingua maris cut the Ishmus or tract of land which parteth the Arabian and Mediterra- Agyptii. nean Sea : but upon enquiry, I find some difficulty concerning the place attempted; many with good authority affirming, that the intent was not immediately to unite these Seas, but to make a navigable channel between the Red sea and the Nile, the marks whereof are extant to this day; it was first attempted by Sefostris, after by Darius, and in a fear to drown the Country, deferted by them both; but was long after re-attempted, and in some manner effected by Philadelphus. And so the Grand Signior, who is Lord of the Country, conveyeth his Gallies into the Red Sea by the Nile; for he bringeth them down to Grand Caire, where they are taken in pieces, carried upon Camels backs, and rejoyned together at Sues, his Port and Naval station for that Sea, whereby in effect he acts the defign of Cleopatra, who after the battel of Alliam in a different way would have conveyed her Galleys

into the Red Sea.

And therefore that proverb to cut an Ifthmus, that is, to take great pains, Ithmus serieand effect nothing; alludeth not unto this attempt; but is by Eralmus applied unto several other, as that undertaking of Cnidians to cut their Isthumus, but especially that of Corinth so unsuccessefully attempted by many Emperours. The Cnidians were deterred by the peremptory diffwafion of Apollo, plainly commanding them to defift; for if God hath thought it fit, he would have made that Country an Island at first. But this perhaps will not be thought a reasonable discouragement unto the activity of those spirits which endeavour to advantage Nature by Art, and upon good grounds to promote any part of the Universe; nor will the ill success of some be made a sufficient determent unto others, who know that many learned men affirm, that Islands were not from the beginning: that many have been made fince by

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Art, that some Isthumes have been eat through by the Sa, and others cut by the Spade; And if policy would permit, that of Panama in America were most worthy the attempt : sit being but few miles over, and would open a shorter cut unto the East-Indies and China.

CHAP, IX.

Of the Red Sea.

Ontrary apprehensions are made of the Erythræan or Red Sea; molt apprehending a material redness therein, from whence they derive its common denomination; and some so lightly conceiving hereof, as if it had no redness at all, are fain to recur unto other originals of its appellation. Wherein to deliver a distinct account, we first observe that without confide-What the Red ration of colour it is named the Arabian Gulph: The Hebrews who had best reason to remember it; do call it Zuph, or the weedy Sea, because it was full of sedge, or they found it so in their passage; the Mahometans, who are now Lords thereof, do know it by no other name then the Gulph of Me-

cha a City of Arabia. The Bream of Antiquity deriveth its name from King Erythrus; fo fleightly conceiving of the nominal deduction from redness, that they plainly deny there is any such accident in it. The words of Curtius are plain beyond

evasion, Ab Erythro rege inditum est nomen, propter quod ignari rubere aquas credunt : Of no more obscurity are the words of Philoftratus, and of later times, Sabellieus; Stulte persuas um est vulgo rubras alicubi esse maris aguas, quia ab Erythro regenomen pelago inditum. Of this opinion was Andreas Corfalius, Pliny, Soliuns, Dio Cassius, who although they denied not all

redness, yet did they telie upon the Original from King Erythrus.

Others have fallen upon the like, or perhaps the same conceit under another appellation; deducing its name not from King Erythrus, but Efan or Edom, whose habitation was upon the coasts thereof. Now Edom is as much us Erythrus, and the Red Sea no more then the Idumean; from whence the polterity of Edom removing towards the Mediterranean coast; according to their former nomination by the Greeks were called Phanicians or red men: and from a plantation and colony of theirs, an Island near Spain, was by the Greek-describers termed Erithra, as is declared by Strabo and Solinus.

Very many omitting the nominal derivation, do rest in the gross and literal conception thereof, apprehending a real redness and constant colour of Of which opinion are also they which hold the Sea receiveth a red and minious tincture from Springs, wells, and currents that fall into it; and of the same belief are probably many Christians, who conceiving the passage of the Israelites through this Sea to have been the type of Baptism, according to that of the Apostle, All were baptized unto Mifes in the cloud, and in the Sea: for the better resemblance of the blood of Christ, they willingly received it in the apprehention of redness, and a colour agreeable unto its myftery :

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Acry: according to that of Austin, Significat mare illud rubrum Baptismum Aug. in Johan-Christi; unde nobis Baptismus Christi nisi sanguine Christi consecratus?

But divers Moderns not confidering these conceptions; and appealing unto the Testimony of sense, have at last determined the point, concluding a redness herein, but not in the sense received, Sir Walter Rawleigh from his own and Portugal observations, doth place the redness of the Sea, in the reflection of the red Islands, and the redness of the earth at the bottome; wherein Coral grows very plentifully, and from whence in great abundance it is transsported into Europe. The observations of Alberquerque, and Seephanus de Gama (as from Johannes de Barros, Fernandius de Cordova relateth) derive this redness from the colour of the sand & argillous earth at the bottom; for being a shallow Sea, while it rowleth to and fro, there appeareth a redness upon the water; which is most discernable in funny and windy weather. But that this is no more then a feeming redness, he confirmeth by an experiment; for in the reddest part taking up a vessel of water, it differed not from the complexion of other Seas. Nor is this colour discoverable in every place of that Sea, for as he also observeth, in some places it is very green, in others white and yellow, according to the colour of the earth or fand at the bottome. And so may Philostratus be made out, when he saith, this Sea is blew; or Bellonius denying this redness, because he beheld not that colour about Sues; or when Corfalius at the mouth thereof could not discover the same.

Now although we have enquired the ground of redness in this Sea, yet are we not fully fatisfied: for what is forgot by many, and known by few there is another Red Sea, whose name we pretend not to make out from these principles; that is, the Persian Gulph or Bay, which divideth the Arabian and Persian shore, as Pliny hath described it, Mare rubrum in duos dividitur sinus, is qui ab Oriente est Perscus appellatur; or as Solinus expresseth it, Qui ab Oriente est Persicus appellatur, ex adverso unde Arabia est, Arabicus; whereto affenteth Suidas, Ortelius, and many more. And therefore there is no abfurdity in Strate, when he delivereth that Tigris and Euphrates do fall into the Red Sea, and Fernandius de Cordova, justly defendeth his Countryman Seneca in that expression.

> Et qui renatum prorfus excipiens diem. Tepidum Rubenti Tigrin immiscet freto.

Nor hath only the Persian Sea received the same name with the Arabian, but what is strange and much confounds the distinction, the name thereof is alfo derived from the King Erythrus; who was conceived to be buried in an Island of this Sea, as Dionysius, Afer, Curtius, and Suidas do deliver. Which were of no less probability then the other, if (as with the same Authors Strabo affirmeth) he was buried near Caramania bo dering upon the Persian Gulph. And if his Tomb was seen by Nearchus, it was not so likely to be in the Arabian Gulph; for we read that from the River Indas he came unto Alexander at Babylon, some few days before his death. Now Babylon was

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feated upon the River Euphrates, which runs into the Persian Gulph. And therefore however the Latine expresseth it in Strabo, that Nearthus suffered much in the Arabian Sinus, yet is the original xoxwos meprinos that is, the

Gulph of Persia. That therefore the Red Sea or Arabian Gulph received its name from personal derivation, though probable, is but uncertain; that both the Seas of one name should have one common denominator, less probable; that there is a gross and material redness in either not to be affirmed : that there is an emphatical or appearing redness in one, not well to be denied. And this is fufficient to make good the Allegory of the Christians : and in this distinction may we justifie the name of Black Sea, given unto Pontus Enxinus : the name of Xanthus, or the yellow River of Phrygia: and the name of Mar Vermeio, or the Red Seain America.

CHAP. X.

Of the Blackness of Negroes.

T is evident not only in the general frame of Nature, that things most manifest unto sense, have proved obscure unto the understanding : But even in proper and appropriate objects, wherein we affirm the fense cannot err, the faculties of reason most often fail us. Thus of colours in general, under whose gloss and vernish all things are seen, no man bath yet beheld the true nature; or positively set down their incontroulable causes. Which while some ascribe unto the mixture of the Elements, others to the graduality of Opacity and Light; they have left our endeavours to grope them out by twilight, and by darkness almost to discover whose existence is evi-The Principles denced by Light. The Chymifts have laudably reduced their causes unto Sal, Sulphur, and Mercury; and had they made it out so well in this, as in the objects of smell and taste, their endeavours had been more exceptable: For whereas they refer Sapor unto Salt, and Odor unto Sulphur, they vary much concerning Sulphur; some reducing it unto Mercury, some to Sulphur; others unto Salt. Wherein indeed the last conceit doth not oppress the former; and though Sulphur feem to carry the mafter-ftroak, yet Salt may have a firong co-operation. For befide the fixed and terrestrious Salt, there is in natural bodies a Salniter, referring unto Sulphur; there is also a volatile or Armoniack Salt, retaining unto Mercury; by which Salts the colours of bodies are fenfibly qualified, and receive degrees of luftre or obscurity, superficiality or profundity, fixation or volatility.

Their general or first Natures being thus obscure, there will be greater difficulties in their particular discoveries; for being farther removed from their simplicities, they fall into more complexed considerations; and so require a subtiler act of reason to diffinguish and call forth their natures. Thus although a man understood the general nature of colours, yet were it no easie

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Probleme to refolve, Why Grass is green? Why Garlick, Molyes and Porrets have white roots, deep green leaves, and black feeds? Why feveral Docks and forts of Rhubarb with yellow roots, fends forth purple-flowers? Why also from Lactary or milky-plants which have a white and lacteous juyce dispersed through every part, there arise flowers blew and yellow? Moreover, beside the specifical and first digressions ordained from the Creation, which might be urged to falve the variety in every species; Why shall the marvail of Pers produce its flowers of different colours, and that not once, or constantly, but very day, and variously? Why Tulips of one colour produce some of another, and running through almost all, should still escape a blew? And laftly, Why some men, yea and they a mighty and confiderable part of mankind, thould first acquire and still retain the gloss and tireture of blackness? Which whoever strictly enquires, shall find no less of darkness in the cause, then blackness in the effect it self; there arising unto examination no such satisfactory and unquarrellable reasons, as may confirm the causes generally received; which are but two in number. The heat and scorch of the Sun; or the curse of God on Cham and his Posterity.

The first was generally received by the Ancients, who in obscurities had no higher recourse then unto Nature, as may appear by a discourse concerning this point in Scrabo. By Aristotle it seems to be implied in those Problemes which enquire why the Sun makes men black, and not the fire? Why it whitens wax, yet blacks the skin? By the word Aribiops it self, applied to the memorablest Nations of Negroes, that is of a burnt and torrid countenance. The fancy of the fable infers also the Antiquity of the opinion; which deriveth the complexion from the deviation of the Sun, and the conflagration of all things under Phaeton. But this opinion through generally imbraced, was, I perceive, rejected by Aristobalus a very ancient Geographer; as is discovered by Strabo. It hath been doubted by several modern Writers, particularly by Ortelius; but amply and satisfactorily discussed as we know by no man. We shall therefore endeavour a full delivery hereof, declaring the grounds of doubt, and reasons of denial, which rightly undestood, may, if

And first, Many which countenance the opinion in this reason, do tacitly and upon consequence overthrow it in another. For whilst they make the River Senaga to divide and bound the Moors, so that on the Southside they are black, on the other only tawny; they imply a secret causality herein from the Air, Place or River; and seem not to derive it from the Sun. The effects of whose activity are not precipitously abrupted, but gradually proceed to their cessations.

Secondly, if we affirm that this effect proceeded, or as we will not be back-ward to concede, it may be advanced and fomented from the fervour of the Sun; yet do we not hereby discover a principle sufficient to decide the question concerning other animals; nor doth he that affirmeth the heat makes man black, afford a reason why other animals in the same habitations main-

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tain a constant and agreeable hue unto those in other parts, as Lyons, Elephants, Camels, Swans, Tygers, Effriges. Which though in Athiopia, in the disadvantage of two Summers, and perpendicular Rayes of the Sun, do yet make good the complexion of their species, and hold a colourable correspondence unto those in milder Regions. Now did this complexion proceed from heat in man, the same would be communicated unto other animals which equally participate the influence of the common Agent. For thus it is in the effects of gold, in Regions far removed from the Sun; for therein men are not only of fair complexions, gray-eyed, and of light hair, but many creatures exposed to the air, deflect in extremity from their natural colours; from brown, ruffet & black, receiving the complexion of Winter, and turning perfect white. Thus Olous Magnus relates, that after the Autumnal Equinox, Foxes begin to grow white; thus Michovius reporteth, and we want not ocular confirmation, that Hares and Partridges turn white in the Winter; and thus a white Crow, a proverbial rarity with us, is none unto them; but that inseparable accident of Porphyrie is separated in many hundreds.

Thirdly, if the fervour of the Sun, or intemperate heat of clime did folely occasion this complexion, surely a migration or change thereof might cause a fenfible, if not a total mutation; which notwithstanding experience will not admit. For Negroes transplanted, although into cold and flegmatick habitations, continue their hue both in themselves, and also their generations; except they mix with different complexions; whereby notwithstanding there only succeeds a remission of their tinctures; there remaining unto many descents a strong shadow of their Originals; and if they preserve their coppulations entire, they still maintain their complexions. As is very remarkable in the Dominions of the Grand Signior, and most observable in the Moors in Brafilia, which transplanted about an hundred years past, continue the tinctures of their fathers unto this day. And so likewise fair or white people translated into hotter Countries, receive not impressions amounting to this complexion, as hath been observed in many Europeans, who have lived in the land of Negroes: and as Edvardas Leopes testifieth of the Spanish Plantations, that they retained their native complexions unto his days.

Fourthly, If the fervour of the Sun were the sole cause hereof in Athiopia, or any land of Negroes, it were also reasonable that Inhabitants of the same latitude, subjected unto the same vicinity of the Sun, the same diurnal arch, and direction of its rayes, should also partake of the same hue and complexion, which notwithstanding they do not. For the Inhabitants of the same latitude in Asia are of a different complexion, are as the Inhabitants of Cambogia and Java, insomuch that some conceive the Negro is properly a native of Africa, and that those places in Asia inhabited now by Moors, are but the intrusions of Negroes arriving first from Africa, as we generally conceive of Madagas car, and the adjoyning Islands, who retain the same complexion unto this day. But this defect is more remarkable in America, which although subjected unto both the Tropicks, yet are not the Inhabitants black between.

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or near, or under either; neither to the South-ward in Brafilia, Chili, or Peru; nor yet to the Northward in Hispaniola, Castilia, del Oro, or Nicaragua, And although in many parts thereof there be at present swarms of Negroes serving under the Spaniard, yet were they all transported from Africa, since the discovery of Columbus; and are not indigenous or proper native of America.

Fifthly, We cannot conclude this complexion in Nations from the vicinity or habitude they hold unto the Sun; for even in Africa they be Negroes under the Southern Tropick, but are not all of this hue either under or near the Northern. So the people of Gualata, Agades, Garamantes, and of Goaga, all within the Northern Tropicks are not Negroes; but on the other fide about Capo Negro, Cafala, and Madagascar, they are of a jetty black.

Now if to falve this Anomaly, we fay the heat of the Sun is more powerful in the Southern Tropick, because in the fign of Capricorn falls out the Perigeum, or lowest place of the Sun in his Excentrick, whereby he becomes nearer unto them then unto the other in Cancer, we shall not absolve the doubt. And if any infift upon such nicities, and will presume a different effect of the Sun, from such a difference of place or vicinity; we shall ballance the same with the concernment of it motion, and time of revolution, and say he is more powerful in the Northern Hemisphere, and in the Apogeum; for therein his moration is flower, and fo his heat respectively unto those habitations, as of duration, so also of more effect. For, though he absolve his revolution in 365 days, odd hours and minutes, yet by reason of Excentricity, his motion is unequal, and his course far longer in the Northern Semicircle, then in the Southern; for the later he passeth in a 178, that is, eleven days more. So is his presence more continued unto the Northern Inhabitants; and the longest day in Cancer is longer unto us, then that in Capricorn unto the Southern Habitator. Beside, hereby we only infer an inequality of heat in different Tropicks, but not an equality of effects in other parts subjected to the same. For, in the same degree, and as near the earth he makes his revolution unto the American, whose Inhabitants notwithstanding partake not of the same effect. And if herein we seek a relief from the Dogstar, we shall introduce an effect proper unto a few, from a cause common unto many; for upon the same grounds that Star should have as forcible a power upon America and Afia; and although it be not vertical unto any part of Asia, but only passeth by Beach, in terra incognita; yet is it so unto America, and vertically passeth over the habitations of Pers and Brafilia.

Sixthly, And which is very confiderable, there are Negroes in Africa beyond the Southern Tropick, and some so far removed from it, as Geographically the clime is not intemperate, that is, near the Cape of good hope, in 36 of the Southern Latitude. Whereas in the same elevation Northward, the Inhabitants of America are fair; and they of Europe in Candy, Sicily, and some parts of Spain, deserve not properly so low a name as Tanny.

Laftly, Whereas the Africans are conceived to be more peculiarly scorch-

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ed and torrified from the Sun, by addition of driness from the soil, from want and defect of water; it will not excuse the doubt. For the parts which the Negroes possess, are not so void of Rivers and moisture, as is presumed; for on the other fide of the mountains of the Moon, in that great tract called Zanzibar, there are the mighty Rivers of Suama, and Spirito Santo; on this fide the great River Zaire, the mighty Nile and Niger; which do not only moisten and contemperate the Air by their exhalations, but refresh and humectate the earth by their annual Inundations. Beside, in that part of Africa, which with all disadvantage is most dry, that is, in situation between the Tropicks, defect of Rivers and Inundations, as also abundance of fands, the The drine's of people are not esteemed Negroes; and that is Lybia, which with the Greeks

carries the name of all Africa. A Region to defert, dry and fandy, that Travellers (as Leo reports) are fain to carry water on their Camels; whereof they find not a drop fometime in fix or feven dayes. Yet is this Country accounted by Geographers no part of terra Nigritarum, and Ptolomy plac-

eth herein the Leuco Athiopes, or pale and Tawny Moors.

Now the ground of this opinion might be the visible quality of blackness observably produced by heat, fire and smoak; but especially with the Ancients the violent esteem they held of the heat of the Sun, in the hot or tortid Zone; conceiving that part inhabitable, and therefore that people in the vicinities or frontiers thereof, could not escape without this change of their complexions. But how far they were mistaken in this apprehension, modern Geography hath discovered; And as we have declared, there are many within this Zone whose complexions descend not so low as unto blackness. And if we should strictly infist hereon, the possibility might fall into question; that is, whether the heat of the Sun, whose fervour might swart a living part, and even black a dead or diffolving flesh; can yet in animals, whose parts are successive, and in continual flux, produce this deep and perfect gloss of Blackness.

The particular causes of the

Thus having evinced, at least made dubious, the Sun is not the Author of this Blackness; how, and when this tincture first began is yet a Riddle, and Negroes black- positively to determine, it surpasseth my presumption. Seeing therefore we nels probably. cannot discover what did effect it, it may afford some piece of satisfaction to know what might procure it. It may be therefore confidered, whether the inward use of certain waters or fountains of peculiar operations, might not at first produce the effect in question. For, of the like we have Records in Aristotle, Strabo, and Pliny, who hath made a collection hereof, as of two fountains in Bastia, the one making sheep white, the other black; of the water of Siberis which made Oxen black, and the like effect it had also upon men, dying not only the skin, but making their hairs black and curled. This was the conceit of Aristobulm, who received so little satisfaction from the other, or that it might be caused by hear, or any kind of fire, that he concerved it as reasonable to impute the effect unto water.

Secondly, It may be perpended whether it might not fall out the same

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way that Facobs Cattel became speckled, spotted and ring-straked, that is, by the Power and Efficacy of Imagination; which produceth effects in the conception correspondent unto the phancy of the Agents in generation; and fometimes assimilates the Idea of the Generator into a reality in the thing ingendred. For, hereof there pass for current many indisputed examples; so in Hypocrates we read of one, that from the view and intention of a Picture conceived a Negro; And in the History of Heliodore of a Moorish Queen, who upon aspection of the Picture of Andromeda, conceived and brought Vide plara and forth a fair one. And thus perhaps might some say it was the beginning of Tho. Fledum, this complexion; induced first by imagination, which having once impregcoviribus imanated the feed, found afterward concurrent co-operations, which were continued by Climes, whose constitution advantaged the first impression. Thus Plotinus conceiveth white Peacocks first came in: Thus many opinion that from aspection of the Snow, which lyeth long in Northern Regions, and high Mountains, Hawks, Kites, Bears, and other Creatures become white; And by this way Austin conceiveth the Devil provided, they never wanted a white hot places. spotted Ox in Agypt; for such an one they worshipped, and called Apis.

Thirdly, It is not indisputable whether it might not proceed from such a cause, and the like foundation of Tincture, as doth the black Jaundies, which meeting with congenerous causes, might settle durable inclinations, and advance their generations unto that hue, which were naturally before but a degree or two below it. And this transmission we shall the easier admit in colour, if we remember the like hath been effected in organical parts and figure; the Symmetry whereof being casually or purposely perverted; their morbofities have vigorously descended to their Posterities, and that in durable deformities. This was the beginning of Macrocephali, or people with long heads, whereof Hypocrates hath clearly delivered himself: Cum primum edi- De Aeres aquie tus est Infans, saput ejus tenellum manibus effingunt, & in longitudine adoles- & Lociscere cogant; boc institutum primum bujus modi, natura dedit vitium, succes-In vero temporis in naturam abiit, ut proinde instituto nibil amplius opus effet; semen enim genitale ex omnibus corporis partibus provenit, ex sanis quidem Sanum, ex morbosis morbosum. Si igitur ex calvis calvi, ex caciis cacii, & ex distortis, ut plurimum, distorti gignuntur, eademq; in cateris formis valet rati, quid probibet cur non ex macrocephalis macrocephali gignantur? Thus as Aristotle observeth, the Deers of Arginusa had their ears divided; occafioned at first by slitting the ears of Deer. Thus have the Chineses little feet, most Negroes great Lips and flat Noses; And thus many Spaniards and Mediterranean Inhabitants, which are of the Race of Barbary Moors (although after frequent commixture) have not worn out the Campys Nose unto Flat Nose.

Artificial Negroes, or Gypfies acquire their complexion by anointing their bodies with Bacon and fat fubstances, and so exposing them to the Sun. In Guinie Moors, and others, it hath been observed, that they frequently moisten their skins with fat and oyly materials, to temper the irksome driness

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kinds of Animals-come to thereof from the parching rayes of the Sun. Whether this practife at first had not some efficacy toward this complexion, may also be confidered.

Laftly, If we still be urged to particularities, and fuch as declare how, and when the feed of Adam did first receive this tincture; we may say that men became black in the same manner that some Foxes, Squirrels, Lyons, first turned of this complexion, whereof there are a constant fort in divers Countries; that some Chaughs came to have red legs and bills, that Crowes became pyed; All which mutations however they began, depend on durable foundations; and fuch as may continue for ever. And it as yet we must farther define the cause and manner of this mutation, we must confess, in matters of Antiquity, and such as are decided by History, if their Originals and first beginnings escape a due relation, they fall into great obscurities, and fuch as future Ages feldome reduce unto a resolution. Thus if you deduct the administration of Angels, and that they dispersed the Creatures into all parts after the flood, as they had congreated them into Noahs Ark before; it will be no easie question to resolve, how several sorts of animals were first dispersed into Islands, and almost how any into America; How the venereal contagion began in that part of the earth, fince History is filent, is not eafily resolved by Philosophy. For whereas it is imputed unto Anthropophagy, or the eating of mans flesh; that cause hath been common unto many other Countrys, and there have been Canibals or Men-eaters in the three other parts of the world, if we credit the relations of Prolomy, Strabo and Pliny. And thus if the favourable pen of Mofes had not revealed the confusion of Tongues, and positively declared their division at Babel, our disputes concerning their beginning had been without end; and I fear we must have left the hopes of that decision unto Elias.

And if any will yet infift, and urge the question farther still upon me. . I shall be enforced unto divers of the like nature, wherein perhaps I shall receive no greater satisfaction. I shall demand how the Camels of Battria came to have two bunches on their backs, whereas the Camels of Arabia in all relations have but one? How Oxen in some Countrys began and continue gibbous or bunch-back'd? what way those many different shapes, colours, hairs, and natures of Dogs came in? how they of some Countrys became depilous, and without any hair at all, whereas fome forts in excess abound therewith? How the Indian Hare came to have a long tail, whereas that part in others attains no higher then a fcut ? How the Hogs of Illyria which Aristotle speaks of, became solipedes or whole-hoosed, whereas in other parts they are bifulcous, and described cloven-hoosed by God himself? All which with many others must needs seem strange unto those that hold there were but two of the unclean fort in the Ark; and are forced to reduce

these varieties to unknown orginial since.

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Ho vever therefore this complexion was first acquired, it is evidently maintained by generation, and by the tincture of the skin as a spermatrical be propagated. part traduced from Father unto Son; fo that they which are ftrangers con-

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tract it not, and the Natives which transmigrate, omit it not without commixture, and that after divers generations. And this affection (if the flory were true) might wonderly be confirmed, by what Maginus and others relate of the Emperour of Athiopia, or Prester John, who derived from Solomon, is not yet descended into the hue of his Country, but remains a Mulatto, that is, of a Mongril complexion unto this day. Now although we conceive this blackness to be seminal, yet are we not of Herodotus conceit, that their seed is black. An opinion long ago rejected by Aristotle, and fince by fense and enquiry. His affertion against the Historian was probable, that all feed was white; that is without great controversie in viviporous Animals, and such as have Testicles, or preparing vessels wherein it receives a manifest dealbation. And not only in them, but (for ought I know) in Fishes not abating the feed of Plants, whereof though the skin and covering be black, yet is the feed and fractifying part not fo : as may be observed in the feeds of Onions, Pyonie, and Basil. Most controvertible it seems in the spawn of Frogs and Lobsters, whereof notwithstanding at the very first the spawn is white, contracting by degrees a blackness, answerable in the one unto the colour of the shell, in the other unto the Porwigle or Tadpole; that is, that Animal which first proceedeth from it. And thus may it also be in the generation and sperm of Negroes, that being first and in its naturals white, but upon separation of parts, accidents before invisible become apparent: there arising a shadow or dark efflorescence in the outside; whereby not only their legitimate and timely births, but their abortions are also dusky, before they have felt the scorch and fervour of the Sun.

CHAP. XI. of the same.

A Second opinion there is, that this complexion was first a curse of God derived unto them from Cham, upon whom it was inslicted, for discovering the nakedness of Noah. Which notwithstanding is sooner affirmed then proved, and carrieth with it sundry improbabilities. For first, if we derive the curse on Cham, or in general upon his Posterity, we shall denigrate a greater part of the Earth then was ever so conceived; and not only paint the Ethiopians and reputed Sons of Cush, but the people also of Egypt, Arabia, Assiria, and Chaldea; for by this Race were these Countrys also peopled. And if concordantly unto Berosus, the fragment of Cato de Originibus, some things of Halicarnasseus, Macrobius, and of them of Leandro and Annins, we shall conceive of the Travels of Chamese or Cham; we may introduce a generation of Negroesas high as Italy; which part was never culpable of deformity, but hath produced the magnified examples of beauty.

Secondly, the curse mentioned in Scripture was not denounced upon Cham, but Canaan his youngest Son, and the reasons thereof are divers.

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The first, from the Jewish Tradition, whereby it is conceived, that Canaan made the discovery of the nakedness of Noah, and notified it unto Cham. Secondly, to have cursed Cham, had been to curse all his Posterity, whereof but one was guilty of the fact. And lastly, he spared Cham, because he had blessed him before. Now if we confine this curse unto Canaan, and think the same sulfilled in his posterity; then do we induce this complexion on the Sidonians; then was the promised land a tract of Negroes. For from Canaan were descended the Canaanites, Jebasues, Amorites, Gergezites, and

Hivites, which were poffeffed of that land.

Thirdly, although we should place the original of this curse upon one of the fons of Cham, yet were it not known from which or them to derive it. For the particularity of their descents is imperfectly set down by Accountants, nor is it diffinelly determinable from whom thereof the Ethiopians are proceeded. For whereas these of Africa are generally esteemed to be the issue of Chus, the elder son of Cham, it is not so easily made out. For the land of Chus, which the Septuagint translates Athiopia, makes no part of Africa, nor is it the habitation of Blackmores, but the Country of Arabia, especially the Happy and Stony possessions and colonies of all the sons of Chas, excepting Nimrod and Havilab; peffeffed and planted wholly by the children of Chas, that is, by Sabrab and Raamarb, Sabracha, and the fons of Raamarb, Dedan and Sheba, according unto whose names the Nations of those parts have received their denominations, as may be collected from Pling and Ptolowy; and as we are informed by credible Authors, they do hold a fair Analogy in their names, even unto our dayes. So the wife of Mofes translated in Scripture an Ethiopian, and so confirmed by the fabulous relation of Fosephus, was none of the daughters of Africa, nor any Negroe of Athiopia, but the daughter of Jethro, Prince and Priest of Madian, which was a part of Arabia the stony, bordering upon the Red Sea, So the Queen of Sheba came unto Solomon out of Athiopia, but from Arabia, and that part thereof which bore the name of the first Planter, the son of Chus. So whether the Eunuch which Philip the Deacon baptized, were fervant unto Candace Queen of the African Athiopia (although Damianus a Goes Codignus, and the Ethiopick relations avert) is yet by many, and with strong suspitions doubted. So that Army of a million, which Zerah King of Athiopia is said to bring against Asa, was drawn out of Arabia, and the Plantations of Chus; not out of Athiopia, and the remote habitations of the Moors. For it is faid, that Asa pursuing his Victory, took from him the City Gerar: now Gerar was no City in or near Athiopia, but a place between Cadelh and Zar, where Abraham formerly sojourned. Since therefore these African Erbiopians are not convinced by the common acception to be the fons of Chus, whether they be not the Posterity of Phut or Mizraim, or both, it is not asfuredly determined, For Mizraim, he possessed Egypt, and the East parts of Africa. From Lubym his son came the Lybians, and perhaps from them the Ethiopians. Phut possessed Mauritania, and the Western parts of Africa,

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and from these perhaps descended the Moors of the West, of Mandinga, Melegutte and Guinie. But from Canaan, upon whom the curse was pronounced, none of these had their original, for he was restrained unto Canaan and Syria; although in after-Ages many Colonies dispersed, and some thereof upon the coasts of Africa, and prepossessions of his elder brothers.

Fourthly, to take away all doubt, or any probable divarication, the curse is plainly specified in the Text, nor need we dispute it, like the mark of Cain; Servans servans fervorum erit fratribus sais, Cursed be Canaan, a servant of servants shall he be unto his brethren; which was after sulfilled in the Conquest of Canaan, subdued by the Israelites, the Posterity of Sem. Which Prophecy Abraham well understanding, took an Oath of his Servant not to take a wife for his Son Isaac out of the Daughters of the Canaanites; and the like was performed by Isaac in the behalf of his Son Facob. As for Cham and his other Sons, this curse attained them not; for Nimrod the son of Chas set up his Kingdom in Babyson, and erected the first great Empire; Mizraim and his Posterity grew mighty Monarchs in Egypt; and the Empire of the Ethiopians hath been as large as either. Nor did the curse descend in general upon the posterity of Canaan: for the Sidonians, Arkites, Hamathites, Sinites, Arwadites, and Zemerites seem exempted. But why there being eleven Sons, five only were condemned, and six escaped the malediction, is a

fecret beyond discovery.

Lastly, Whereas men affirm this colour was a Curse, I cannot make out the propriety of that name; it neither feeming to to them, nor reasonably unto us, for they take so much content therein, that they esteem deformity by other colours, describing the Devil, and terrible objects, white. And if we feriously consult the definitions of beauty, and exactly perpend what wife men determine thereof, we shall not apprehend a curse, or any deformity therein. For first, some place the effence thereof in the proportion of parts, conceiving it to confift in a comely commenturability of the whole unto the parts, and the parts between themselves: which is the determination of the best and learned Writers. Now hereby the Moors are not excluded from beauty: there being in this description no consideration of colours, but an apt connexion and frame of parts and the whole. Others there be, and those most in number, which place it not only in proportion of parts, but also in grace of colour. But to make Colour effential unto Beauty, there will arise no flender difficulty; For Aristotle in two definitions of pulchritude, and Galen in one, have made no mention of colour, Neither will it agree unto the beauty of Animals, wherein notwithstanding there is an approved pulchritude. Thus Horses are handsome under any colour, and the symmetry of parts obscures the consideration of complexions. Thus in concolour Animals and fuch as are confined unto one colour, we measure not their Beauty thereby; for if a Crow or Black-bird grow white, we generally account it more pretty; And in almost a monstrosity descend to opinion of desormity. By this way likewife the Moors escape the curse of deformity: there concurring no stationary colour, and sometimes not any unto Beauty.

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The Platonick contemplators reject both these descriptions founded upon parts and colours, or either; as M. Lee the Jew hath excellently difcoursed in his Genealogy of love; defining beauty a formal grace, which delights and moves them to love which comprehend it. This grace, say they, discoverable outwardly, is the Resplendor and Ray of some interiour and invisible Beauty, and proceedeth from the forms of compositions amiable. Whose faculties if they can aptly contrive the matter, they beget in the subject an agreeable and pleasing beauty; if over-ruled thereby, they evidence not their perfections, but run into deformity. For feeing that out of the same materials, Thersites and Paris, Beauty and Monstrosity may be contrived; the forms and operative faculties introduce and determine their perfections. Which in natural bodies receive exactness in every kind, according to the first Idea of the Creator, and in contrived bodies the fancy of the Artificer. And by this confideration of Beauty, the Moors also are not

excluded, but hold a common share therein with all Mankind.

Laftly, in whatfoever its Theory confifteth, or if in the general, we allow the common conceit of symmetry, and of colour, yet to descend into singularities, or determine in what symmetry and colour it confisted, were a suppery defignation. For Beauty is determined by opinion, and feems to have no effence that holds on notion withall; that feeming beauteous unto one, which hath no favour with another; and that unto every one, according as custome hath made it natural, or sympathy and conformity of Minds shall make it seem agreeable. Thus flat Noses seem comely unto the Moor, an Aquiline or hawked one unto the Persian, alarge and prominent Nose unto the Roman; but none of all these are acceptable in our opinion. Thus some think it most ornamental to wear their Bracelets on their Wrists, others say it is better to have them about their Ancles; fome think it most comely to wear their Rings and Jewels in the Ear, others will have them about their Privities; a third will not think they are compleat, except they hang them in their lips, cheeks or nofes. Thus Homer to fet off Minerva, calleth her ynaudans, that is, gray or light blew-eyed; now this unto us feems far lefs amiable then the black. Thus we that are of contrary complexions accuse the blackness of the Moors as ugly; But the Spouse in the Canticles excuseth this conceit, in that description of hers, I am black, but comely. And howfoever Certerns, and the furies of Hell be described by the Poets under this complexion, yet in the Beauty of our Saviour blackness is commended, when it is faid, His Locks are bushy, and black as a Raven. So that to infer this as a curse, or to reason it is a deformity, is no way reasonable; the two foundations of Beauty, Symmetry and Complexion, receiving fuch various apprehensions; that no diviation will be expounded so high as a curse or undeniable deformity, without a manifest and confessed degree of mon-Arofity.

Lastly, it is a very injurious method unto Philosophy, and perpetual promotion of ignorance, in points of obscurity; not open unto easie confide-

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rations, to fall upon a present refuge unto Miracles: or recur unto immediate contrivance from the unsearchable hands of God. Thus in the conceit of the evil oder of the Jews, Christians without a farther research into the verity of the thing, or enquiry into the cause, draw up a judgment upon them from the passion of their Saviour. Thus in the wondrous effects of the clime of Ireland, and the freedome from all venomous Creatures, the credulity of common conceit imputes this immunity upon the benediction of S. Patrick, as Beda and Gyraldm hath left recorded. Thus the Affe having a peculiar mark of a crosse made by a black list down his back, and another athwart, or at right angels down his shoulders; common opinion ascribes this figure unto a peculiar fignation; fince that Beast had the honour to bear our Saviour on his back. Certainly this is a course more desperate then Antipathies, Sympathies, or occult qualities, wherein by a final and fatisfactive difcernment of Faith, we lay the last and particular effects upon the first and general cause of all things, whereas in the other, we do but palliate our determinations; until our acvanced endeavours do totally reject, or partially falve their evafions.

CHAP. XII.

A Digression concerning Blackness.

There being therefore two opinions repugnant unto each other, it may not be presumptive or skeptical to doubt of both. And because we remain imperfect in the general Theory of colours, we shall deliver at present a short discovery of blackness; wherein although perhaps we afford no greater satisfaction then others, yet shall our attempts exceed any; for we shall Emperically and sensibly discourse hereof; deducing the causes of Blackness from such Originals in nature, as we do generally observe things are denigrated by Art. And herein I hope our progression will not be thought unreasonable; for Art being the imitation of Nature, or Nature at the second hand; it is but a sensible expression of effects dependant on the same, though more removed causes: and therefore the works of the one may serve to discover the other.

And first, Things become black by a sooty and suliginous matter proceeding from the Sulphur of bodies torrified; not taking fuligo strictly, but in opposition unto atruis, that is, any kind of vaporous or madefying excretion; and comprehending araduli and, that is, as Aristotle defines it, a separation of moist and dry parts made by the action of heat or fire, and colouring bodies objected: Hereof in his Meteors, from the qualities of the subject he raised three kinds; the exhalations from ligneous and lean bodies, as bones, hair, and the like, he calleth adars, fumns, from sat bodies, and such as have not their fatness conspicuous or separared he termeth asyrus, faligo, as wax, rosin, pitch, or turpentine; that from unctuous bodies, and such whose oylinesse evident, he nameth arisas, or nidor. Now every one of these do

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black bodies objected unto them, and are to be conceived in the footy and

fuliginous matter expressed. I say, proceeding from the sulphur of bodies torrified, that is the oyly fat, and unctuous parts wherein confift the principles of flammability. Nor pure and refined fulphur, as in the spirits of wine often rectified; but containing terrestrious parts, and carrying with it the volatile salt of the body, and such as is distinguishable by taste in soot, nor vulgar and usual sulphur; for that leaves none or very little blackness, except a metalline body teceive the

exhalation.

I fay, torrified, findged, or suffering some impression from fire; thus are bodies casually or artificially denigrated, which in their naturals are of another complexion: thus are Charcoals made black by an infection of their own suffitus, so is it true what is assirtmed of combustible bodies. nigra, perusta alba; black at first from the fuliginous tineture, which being exhaled they become white, as is perceptible in afhes. And to doth fire cleanse and purifie bodies, because it consumes the sulphureous parts, which before did make them foul: and therefore refines those bodies which will never be mundified by water. Thus Camphire of a white substance, by its faligo affordeth a deep black. So is Pitch black, although it proceed from the same Tree with Rosin, the one distilling forth, the other forced by fire, So of the suffitus of a torch, do Painters make a Velvet-black : so is Lampblack made: fo of burnt Harts-horne a fable: fo is Bacon denigrated in Chimneys: so in Feavers and hor distempers from choler adust is caused a blackness in our tongues, teeth and excretions: so are ustilago, brant-corn and trees black by blafting; so parts cauterized, gangrenated, siderated and mortified become black, the radical moisture, or vital sulphur suffering an extinction, and imothered in the part affected. So not only actual, but potentical fire : not burning fire, but also corroding water will induce a blackneis. So are Chimneys and Furnaces generally black, except they receive a clear and manifest sulphur; for the smoke of sulphur will not black a Paper, and is commonly used by Women to whiten Tiffinies, which it performeth by an acide vitriolous, and penetrating spirit ascending from it, by reason whereof it is not apt to kindle any thing: nor will it easily light a Candle, untill that spirit be spent, and the slame approacheth the match. This is that acide and piercing spirit which with such activity and compunction invadeth the brains and nostrils of those that receive it. And thus when Belloniss affirmeth, that Charcoals made out of the wood of Oxycedar are white, Dr. Fordan in his judicious discourse of mineral waters yieldeth the reason, because their vapours are rather sulphureous then of any other combustible substance. So we see that Tinby coals will not black linnen being hanged in the smoak thereof, but rather whiten it, by reason of the drying and penetrating quality of sulphur, which will make red Roses white. And therefore to conceive a general blackness in Hell, and yet therein the pure and refined flames of Sulphur, is no Philosophical conception, nor will twell confift with the real effects of its nature.

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These are the advenient and artificial wayes of denigration, answerably whereto may be the natural progress. These are the wayes whereby culinary and common fires do operate, and correspondent hereunto may be the effects of fire elemental. So may Bitumen, Coales, Jet, Black-lead, and diversmineral earths become black; being either fuliginous concretions in the earth, or suffering a scorch from denigrating Principles in their formati-So men and other animals receive different tinetures from conflitution and complexional efflorescences, and descend still lower, as they partake of the fuliginous and denigrating humour. And so may the Athiepians or Negroes become coal-black, from fuliginous efflorescences and complexional tinetures arising from such probabilities, as we have declared before.

The fecond way whereby bodies become black, is an Atramentous condition or mixture, that is a vitriolate or copperose quality conjoyning with a terrestrious and aftringent humidity; for so is Atramentum Scriptonium, or writing-Ink commonly made by copperose, cast upon a decoction or infusion of galls. I say a vitriolous or copperous quality; for vitriol is the active or chief ingredient in Ink, and no other salt that I know will strike the colour with galls; neither Almon, Sal-gem, Nitre, nor Armoniack. What the com-Now artificial copperose, and such as we commonly use, is a rough and acri-is. monious kind of falt drawn out of ferreous and eruginous earths, partaking chiefly of Iron and Copper; the blew of Copper, the green most of Iron: Nor is it unufual to dissolve fragments of Iron in the liquor thereof, for advantage in the concretion. I say, a terrestrious or astringent humidity; for without this there will ensue no tincture; for Copperole in a decoction of Lettuce or Mallows afford no black, which with an aftringent mixture it will do, though it be made up with Oyl, as in printing and painting Ink. But whereas in this composition we use only Nut-galls, that is an excrescence from the Oak, wherein we follow and beat up the old receit; for any plant of austere and sliptick parts will suffice, as I have experimented in Briftorte, Myrobalans, Myrtus Brabantica, Balaustium and Red-Roses. And indeed, most decoctions of astringent plants, of what colour soever, do leave in the Liquor a deep and Muscadine red: which by addition of vitriol descends into a black . And so Dioscorides in his receit of Ink, leaves out gall, and with copperofe makes use of foot.

Now if we enquire in what part of vitriol this Atramental and denigrating condition lodgeth, it will feem especially to lye in the more fixed falt thereof: For the phlegm or aqueous evaporation will not denigrate; nor yet spirits of virriol, which carry with them volatile and nimbler Salt : For if upon a decoction of Copperofe and Gall, be poured the spirits or oyl of vitriol, the liquor will relinquish his blacknesse; the gall and parts of the copperose precipitate unto the bottom, and the Ink grow clear again; which indeed it will not so easily do in common Ink, because that gum is dissolved therein, which hindereth the separation. But Colcothar or vitriol burnt, though unto a redness containing the fixed falt, will make good Ink; and so will the Lixivium, or Lye made thereof with warm water; but the Terra or In-

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fipid earth remaining, affords no black at all, but ferves in many things for a groffe and useful red. And though Spirits of vitriol, projected upon a decoction of galls, will not raise a black, yet if these spirits be any way fixed; or return into vitriol again, the same will not act their former parts and de-

nigrate as before.

And if we yet make a more exact enquiry; by what this falt of vitriol more peculiarly gives this colour, we shall find it to be from a metalline condition, and especially an Iron Property or serreous participation. For blew Copperose which deeply partakes of the copper will do it but weakly, Verdigreece which is made of Copper will not do it at all; But the filings of Iron infused in Vinegar, will with a deccetion of galls make good Ink, without any Copperose at all; and so will infusion of Load-stone, which is of affinity with Iron. And though more confpicuonfly in Iron, yet fuch a Calcanthous or Artamentous quality, we will not wholly reject in other mettals, whereby we often observe black tinctures in their folutions. Thus a Lemon, Quince, or sharp Apple cut with a knife becomes immediately black . And from the like cause, Artichokes; so sublimate beat up with whites of eggs, if touched with a knife, becomes incontinently black. So Aqua fortis, whose ingredient is vitriol, will make white bodies black. So Leather dressed with the bark of Oak, is easily made black by a bare solution of Copperose. So divers Mineral waters, and fuch as participate of Iron, upon an infusion of galls, become of a dark colour, and entring upon black. So fleel infufed, makes not only the liquor dusky, but in bodies wherein it concurs with proportionable tinetures makes also the excretions black. And so also from this vitriolous quality Mercurius dulcis, and vitriol vomitive occasion black erections. But whether this denigrating quality in Copperose proceedeth from an Iron participation, or rather in Iron from a vitriolous communication; or whether black tinctures from metallical bodies be not from vitriolous parts contained in their fulphur, fince common fulphur containeth also much vitriol, may admit confideration. However in this way of tincture, it feemeth plain, that Iron and Vitriol are the powerful Denigrators.

Such a condition there is naturally in some living Creatures. Thus that black humour by Aristotle named 3600 and commonly translated Arramentum, may be occasioned in the Cuttle. Such a condition there is naturally in some Plants, as Black-berries, Walnut-rindes, Black-cherries; whereby they extinguish inflammations, corroborate the stomack, and are esteemed specifical in the Epilepsie. Such an Atramentous condition there is to be found sometime in the blood, when that which some call Acetum, others Vitrielum, concurs with parts prepared for this tincture. And fo from these conditions the Moors might possibly become Negroes, receiving Attamentous impressions in some of those ways, whose possibility is by us declared.

How a vitriolous quality may be in liring bodies.

Nor is it strange that we affirm there are vitriolous parts, qualities, and even at some distance Vitriol it self in living bodies; for there is a sowr stiprick falt diffused through the Earth, which passing a concoction in plants,

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becometh milder and more agreeable unto the fence, and this is that vegitable vitriol, whereby divers plants contain a grateful sharpness, as Lemmons, Pomegranates, Cherries, or an austere and inconcocted roughness, as Sloes, Meldars and Quinces. And that not only vitriol is a cause of blackness, but that the salts of natural bodies do carry a powerful stroke in the tin-Eture and vernish of all things, we shall not deny, if we contradict not experience, and the visible arts of Dyars, who advance and graduate their colours with Salts. For the decoction of fimples which bear the vible colours of bodies decocted, are dead and evanid, without the commixion of Alam, Argol, and the like. And this is also apparent in Chymical preparations. So Cinabar becomes red by the acide exhalation of fulphur, which otherwise presents a pure and niveous white. So spirits of Salt upon a blew paper make an orient red. So Tartar or Vitriol upon an infusion of Violets affords a delightful Crimson. Thus it is wonderful what variety of colours in the spirits of Salt-peter, and especially, if they be kept in a glass while they pierce the fides thereof; I say, what Orient greens they will project: from the like spirits in the earth the plants thereof perhaps acquire their And from such solarity irradiations may those wondrous varieties Whence the arife, which are observable in Animals, as Mallards heads, and Peacocks colours of feathers, receiving intention or alteration according as they are presented Plants, &c. unto the light. Thus Salt-peter, Ammoniack and Mineral spirits emit delectable and various colours; and common Aqua fortis will in some green and narrow mouthed glasses, about the verges thereof, send forth a deep and Gentianella blew.

Thus have we at last drawn our conjectures unto a period; wherein if our contemplations afford no satisfaction unto others, I hope our attempts will bring no condemnation on our felves, (for besides that adventures in knowledge are laudable, and the affayes of weaker heads affords oftentimes improveable hints unto better) although in this long journey we miss the intended end; yet are there many things of truth disclosed by the way; and the collateral verity, may unto reasonable speculations, require the capital indiscovery.

Of Gypfies.

A Uch wonder it is not we are to feek in the original of Arkiopians M and natural Negroes, being also at a loss concerning the Original of Gypfies and counterfeit Moors, observable in many parts of Europe, Asia,

Common opinion deriveth them from Agypt, and from thence they derive themselves, according to their own account hereof, as Munster disco-

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Opinions goncerning the o-Gyplies.

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vered in the Letters and Pais which they obtained from Sigifmund the Emperour, that they first came out of leffer Agypt, that having defected from the Christian Rule, and relapsed unto Pagan rites, some of every family were enjoyned this penance to wander about the world; or as Aventnus delivereth, they pretend for this vagabond course, a judgment of God upon their Forefathers, who refused to entertain the Virgin Mary and Jesus, when she fled into their Country.

Which account notwithstanding is of little probability: for the general Aream of Writers, who enquire into their original, infift not upon this ; and are so little satisfied in their descent from Agypt, that they deduce them from feveral other Nations. Polodore Virgil accounting them originally Syrians, Philippus Bergomas fetcheth them from Chaldea, Aneas Sylvins from some part of Tartary, Bellonius no further then Walachia and

cordua. didascal. multipl. Bulgaria, not Aventinus then the confines of Hungaria.

That they are no Agyptians, Bellonins makethevident; who met great Observat. l. 2. droves of Gypfies in Agypt, about Grand Cairo, Matærea, and the Villages on the banks of Nilus, who notwithstanding were accounted strangers unto that Nation, and wanders from forreign parts, even as they are effecmed with us.

Gyplies first known in Ger-

That they came not out of Agypt is also probable, because their first appearance was in Germany, fince the year 1400. nor were they observed before in other parts of Europe, as is deducible from Munster, Genetrard, Crant fins and Ortelius.

But that they first set out not far from Germany, is also probable from their language, which was the Sclavonian Tongue; and when they wandred afterward into France, they were commonly called Bohemians, which name is still retained for Gypfies. And therefore when Crantfins delivereth, they first appeared about the Baltick Sea, when Bellonius deriveth them from Bulgaria and Walachia, and others from about Hungaria, they speak not repugnantly hereto: for the language of those Nations was Sclavonian, at least some dialect thereof.

But of what Nation foever they were the first, they are now almost of all; affociating unto them some of every Country where they wander; when they will be loft, or whether at all again, is not without some doubt: for Billow observat. unsetted Nations have out-lasted others of fixed habitations : and though Gypfies have been banished by most Christian Princes, yet have they found What use the some countenance from the Great Turk, who suffereth them to live and maintain publike Stews near the Imperial City in Pera, of whom he often maketh a politick advantage, imploying them as Sypes in other Nations, under which title they were banished by Charles the Fifth.

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CHAP. XIV.

Of some others.

E commonly accuse the fancies of elder times in the improper figures of heaven affigned anto Constellations, which do not seem to have been commonly committed by Geographers and Historians, in the figural refemblances of several Regions on earth; While by Livy and Julius Rusticus the Island of Britain is made to resemble a long dish or two-edged axe; Italy by Numatianus to be like an Oak-leaf: and Spain an Ox-hide, while the phancy of Strabo makes the habitated earth like a Cloak, Dionyfius Afer will have it like a fling: with many others observable in good Writers, yet not made out from the letter or fignification, acquitting Astronomy in their figures of the Zodiack: wherein they are not justing fied unto strict resemblances, but rather made out from the effects of Sun or i. de Sacro bos-Moon in these several portions of heaven; or from peculiar influences of those co cap. 2. constellations, which some way make good their names.

Which notwithstanding being now anthentick by prescription, may be retained in their naked acceptions, and names translated from substances known on earth. And therefore the learned Hevelius in his accurate Selenogrophy, or description of the Moon, hath well translated the known appellations of Regions, Seas and Mountains, unto the parts of that Luminary: and rather then use invented names or humane denominations, with witty congruity hath placed Mount Sinai, Taurus, Maoris Palus, the Mediterranean Sea, Mauritania, Sicily and Asia minor in the Moon.

More hardly can we find the Hebrew letters in the heavens, made out of The Cabala the greater and lesser Stars, which put together, do make up words, wherein of the Stars. Cabaliftical Speculators conceive they read the events of future things; and how from the Stars in the head of Medsfa, to make out the word Charab; Goeffarel out of and thereby defolation prefignified unto Greece or Javan, numerally cha- R. chomer.

racterized in that word, requireth no rigid Reader. It is not easie to reconcile the different accounts of longitude, while in modern Tables the hundred and eighty degree is more then thirty degrees beyond that part, where Prolomy placeth an 180. Nor will the wider and more Western term of Longitude, from whence the Moderns begin their Athan. Kircher commensuration, sufficiently salve the difference. The ancients began the measure of Longitude from the fortunate Islands or Canaries, the Moderns from the Azores or Islands of S. Michael; but fince the Azores are but fifteen degrees more West, why the Moderns should reckon 1 80. where Ptolomy accounteth above 220. or though they take in 15 degrees at the Rebertus Hues West; they should reckon 30 at the East, beyond the same measure, is yet de globis. to be determined; nor would it be much advantaged, if we should conceive that the compute of Ptolomy were not to agreeable unto the Canaries, as the Hesperides or Islands of Cabo Verde.

Tacit. de vita

Hivel Selenog. When the Moon will be change. Why the Sun is feen after it is fet, or natu-Horizon.

Whether the compute of moneths from the first appearance of the Moon, which divers Nations have followed, be not a more perturbed way, then that which accounts from the conjunction, may feem of reasonable doubt, not only from the uncertainty of its appearance in foul and cloudy weather, but unequal time in any, that is sooner or later, according as the Moon shall be in the figns of long descension, as Piscel, Aries, Taurns, in the Perigeum or swiftest motion, and in the Northern Latitude: whereby sometimes it may feen on the first be seen the very day of the change, as will observably happen 1654. in the day of the moneths of April and Mar? or whether also the compute of the day be exmoneths of April and May? or whether also the compute of the day be exactly made from the visible arising or setting of the Sun, because the Sun is fometimes naturally fet, and under the Horizon, when vifibly it is above it; from the causes of refraction, and such as make us behold a piece of filver rally under the in a Basin, when water is put upon it, which we could not discover before, as under the verge thereof.

Whether the Globe of the earth be but a point, in respect of the stars and firmament, or how if the rayes thereof do fall upon a point, they are received in fuch variety of Angels, appearing greater or leffer from differences of

refraction ?

Heavens ferveth. Mct. Lib.

Whether if the motion of the Heavens should cease a while, all things motion of the would inflantly perish? and whether this affertion doth not make the frame of fublunary things, to hold too loofe a dependency upon the first and conferving cause? at least impute too much unto the motion of the heavens, whose eminent activities are by heat, light and influence, the motion it selfbeing barren, or chiefly ferving for the due application of celestial virtues

unto sublunary bodies, as Cabens hath learnedly observed.

Whether Comets or Blazing Stars be generally of fuch terrible effects, as elder times have conceived them; for fince it is found that many, from whence these Predictions are drawn, have been above the Moon; why they may not be qualified from their positions, and aspects which they hold with stars of favourable natures; or why fince they may be conceived to arise from the effluviums of other Stars, they may not retain the benignity of their Originals; or fince the natures of the fixed Stars, are Aftrologically differenced by the Planets, and are effeemed Martial or Jovial, according to the colours whereby they answer these Planets; why although the Red Comets do carry the portentions of Mars, the brighty-white should not be of the Influence of Jupiter or Venus, answerably unto Cor Scorpii and Arcturus; is not absurd to doubt.

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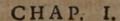
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THE SEVENTH BOOK:

Concerning many Historical Tenents generally received, and some deduced from the History of Holy Scripture.



Of the Forbidden Fruit.

Hat the Forbidden Fruit of Paradise was an Apple, is commonly believed, confirmed by Tradition, perpetuated by Writings, Verses, Pictures; and some have been so bad Prosodians, as from thence to derive the Latine word malum, because that Fruit was the first occasion of evil; wherein notwithstanding determinations are prefumptuous, and many, I perceive, are of another belief. For some have conceived it a Vine; in the mystery of whose fruit lay the expiation of Opinions, of the transgression: Goropius Becanus reviving the conceit of Barcephus, what kinde the peremptorily concludeth it to be the Indian Fig-tree, and by a witty Alle- Forbidden gory labours to confirm the same. Again, some fruits pass under the name Fruit was. of Adams Apples, which in common acception admit not that appellation; the one described by Mathiolus under the name of Pomum Adami ; a very fair Fruit, and not unlike a Citron, but somewhat rougher, chopt and cranied, vulgarly conceived the marks of Adams teeth. Another, the fruit of that plant which Serapion termeth Musa, but the Eastern Christians commonly the Apples of Paradise; not resembling an Apple in figure, and in tafte a Melon or Cucumber. Which fruits although they have received appellations mitable unto the Tradition, yet can we not

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from thence infer they were this fruit in question: No more then Arbor vite, so commonly called to obtain its name from the Tree of Life in Paradise, or Arbor Juda, to be the same which supplied the Gibbet unto

Again, there is no determination in the Text; wherein is only particulared that it was the fruit of a Tree good for food, and pleasant unto the eye, in which regards many excell the Apple; and therefore Learned men do wisely conceive it inexplicable: and Philo puts determination unto despair, when he affirmeth the same kinde of Fruit was never produced since. Surely were it not requisite to have been concealed, it had not passed unspecified; nor the Tree revealed which concealed their nakedness, and that concealed which revealed it; for in the same Chapter mention is made of Fig-leaves. And the like particulars, although they seem uncircumstantial, are oft set down in holy Scripture; so it is specified that Eliza sate under a Juniper-tree, Abselom hanged by an Oak, and Zaoheus got

up into a Sycomore.

Jacobs Sciatic3, See Gen. 31. 25,31,32.

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And although to condemu such Indeterminables unto him that demanded on what hand Venus was wounded, the Philosopher thought it a fufficient resolution to re-enquire upon what leg King Philip halted; and the Tens not undoubtedly resolved of the Sciatica side of Facob, do cantelously in their diet abstain from the finews of both : yet are there many nice particulars which may be authentically determined. That Peter cut off the right ear of Malchus, is beyond all doubt. That our Saviour ear the Paffeover in an an upper room, we may determine from the Text. And some we may concede which the Scripture plainly defines not. That the Dyal of Abaz was placed upon the West-side of the Temple, we will not deny, or contradict the description of Adricemius. That Abrahams servant put his hand under his right thigh, we shall not question; and that the Thief on the right hand was faved, and the other on the left reprobated, to make good the Method of the last judicial dismission, we are ready to admit. But surely in vain we enquire of what wood was Mofes rod, or the Tree that sweetned the waters. Or though Tradition or humane History might afford some light, whether the Crown of thorns was made of Paliurus; whether the Croffe of Christ were made of those four woods in the Distick of Durantes, or only of Oak, according unto Lipsius and Goropius, we labour not to determine. For though hereof prudent Symbols and pious Allegories be made by wifer Conceivers; yet common heads will flie unto superstitious applications, and hardly avoid miraculous or magical expectations.

Now the ground of reason that occasioned this expression by an Apple, might be the community of this fruit, and which is often taken for any other. So the Goddess of Gardens is termed Pomona; so the Proverb expresses it to give apples to Alcinous; so the fruit which Paris decided was called an Apple; so in the Garden of Hesperides, (which many conceive a fiction drawn from Paradise) we read of golden Apples guarded by the Dragon.

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And to speak strictly in this appellation, they placed it more safely then any other; for belide the great variety of Apples, the word in Greek comprehendeth Orenges, Lemmons, Citrons, Quinces; and as Ruellius deh- Ruel. de firneth, such Fruits as have no stone within, and a soft covering without; ex- pinm ratura. cepting the Pomegranate. And will extend much farther in the acception Hagoge in rem of Spigelius, who comprehendethall round fruits under the name of Ap. Herbarians.

ples, not excluding Nuts and Plumbs.

It hath been promoted in some constructions from a passage in the Canticles, as it runs in the vulgar Translation, Sub arbore malo suscitavi te, iti Can. 3. corrupta oft mater tua, ibi violata oft genetrix tua. Which words notwithstanding parabolically intended, admit no literal inference, and are of little force in our Translation, I raised thee under an Apple-tree, there thy mother brought thee forth, there The brought thee forth that bare thee. So when from a basket of Summer-fruits or Apples, as the Vulgar rendreth them. God, by Ams foretold the destruction of his people, we cannot fay they had any reference unto the fruit of Paradife, which was the destruction of man; but thereby was declared the propinquity of their defolation; and that their tranquility was of no longer duration then those horary or foon decaying fruits of Summer. Nor when it is faid in the fame Translation, Poma desiderii anime tue discesserunt a te, the Apples that Fruesus Herai. thy foul lusted after are departed from thee, is there any allusion therein unto the fruit of Paradife. But thereby is threatned unto Babylon, that the pleasures and delights of their Palate should forsake them. And we read in Pierius, that an Apple was the Hieroglyphick of love, and that the Statue of Venus was made with one in her hand. So the little Cupids in the figures of Philostratus do play with Apples in a Garden; and there want Philosoftr. not some who have symbolized the Apple of Paradise unto such constructi- figur. 6. De

Since therefore after this fruit, curiofity fruitlefly enquireth, and confidence blindly determineth, we shall surcease our Inquisition; rather troubled that it was tasted, then troubling our selves in its decision; this onely we observe, when things are left uncertain, men will affure them by determination. Which is not only verified concerning the fruit, but the Serpent that perswaded; many defining the kind or species thereof. So Boneventure and Comeftor affirm it was a Dragon, Engubinus a Bifilisk, Delrio Opinions of a Viper, and others a common Snake. Wherein men fill continue the de- what kinde lufion of the Serpent, who having deceived Eve in the main, fets her po- the Se pent flerity on work to mistake in the circumstance, and endeavours to propagate was, &c. errors at any hand. And those he surely most desireth which concern either God or himself; for they dishonour God who is absolute truth and goodness; but for himself, who is extreamly evil, and the worst she can conceive, by aberration of conceit they extenuate his depravity, and ascribe tome goodness unto him.

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CHAP.

That a Man bath one Rib less then a Woman.

Hat a Man hath one Rib less then a Woman, is a common conceit derived from the History of Genesis, wherein it stands delivered, that Eve was framed out of a Rib of Adam; whence it is concluded the fexe of Man fill wants that Rib our Pather loft in Eve. And this is not only paffant with the many, but was urged against Columbus in an Anatomy of his at Pifa, where having prepared the Scheleton of a Woman that chanced to have thirteen ribs on one fide, there arose a party that cryed him down, and even unto oaths affirmed, that this was the Rib wherein a woman exceeded. Were this true, it would ocularly filence that dispute out of which fide Eve was framed; it would determine the Opinion of Oleaster, that she was made out of the ribs of both sides, or such as from the expression of the Text maintain there was a plurality of ribs required, and might indeed decry the parabolical exposition of Origen, Cajetan, and fuch as fearing to concede a monstrofity, or mutilate the integrity of Adam,

preventively conceive the Creation of thirteen ribs.

For if we furvey the But this will not confift with reason or inspection. Scheleton of both Sexes, and therein the compage of bones, we shall readily discover that men and women have four and twenty ribs, that is, twelve on each fide, feven greater annexed unto the Sternon, and five leffer which come short thereof. Wherein if it sometimes happen that either Sex exceed, the confirmation is irregular, deflecting from the common rate or number, and no more inferrible upon mankinde, then the monstrofity of the fon of Rapha, or the vitious excess in the number of fingers and toes. And although some difference there be in figure, and the female os inominatum be somewhat more protuberant, to make a fairer cavity for the Infant; the coccyx sometime more reflected to give the easier delivery, and the ribs themselves seem a little flatter, yet are they equal in number. And therefore while Aristotle doubteth the relations made of Nations, which had but seven ribs on a side, and yet delivereth, that men have generally no

Anatomy. Again, although we concede there wanted one rib in the Scheleton of Adam, yet were it repugnant unto reason and common observation, that his posterity should want the same. For we observe, that mutilations are not transmitted from father unto son; the blinde begetting such as can see; men with one eye, children with two; and cripples mutilate in their own persons do come out persect in their generations. For the seed conveyeth with it not only the extract and fingle Idea of every part, whereby it trans-

more then eight, as he rejecteth their history, so can we not accept of his

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mits their perfections and infirmities; but double and over again; whereby sometimes it multipliciously delineates the same, as in Twins, in mixed That every and numerous generations. And to speak more strictly, parts of the feed do feem to contain the Idea and power of the whole; so Parents deprived contains the of hands, beget manual iffues, and the defect of those parts is supplyed by Idea of the the Idea of others. So in one grain of corne appearing fimilary and infufficient for a plural germination, there lieth dormant the vertuality of many other, and from thence sometimes proceed above an hundred ears. And thus may be made out the cause of multiparous productions; for though the seminal materials disperse and seperate in the Matrix, the formative operator will not delineate a part, but endeavour the formation of the whole; effecting the same as far as the matter will permit, and from dividing materials, attempt entire formation. And therefore, though wondrous strange, it may not be impossible what is confirmed at Lausdun concerning the Countesse of Holland, nor what Albertus reports of the birth of an hundred and fifty. And if we confider the magnalities of generation in some things, we shall not controvert its possibilities in others : nor easily question that great work, whose wonders are only second unto those of the Creation, and a close apprehension of the one, might perhaps afford a glimmering light, and crepusculous glance of the other.

CHAP. III.

Of Methuselah.

T Hat hath been every where opinioned by all men, and in all times, is more than Paradoxical to dispute, and so that Methaselah was the longest liver of all the posterity of Adams, we quietly believe; but that he must needs be so, is perhaps below Paralogy to deny. For hereof there is no determination from the Text; wherein it is only particulared he was the longest Liver of all the Patriarchs whose age is there expressed, but that he out-lived all others, we cannot well conclude. For of those nine whose death is mentioned before the flood, the text expresses that Enoch was the shortest Liver; who saw but 365. years. But to affirm from hence, none of the rest, whose age is not expressed, did dye before that time, is furely an illation whereto we cannot affent.

Again, Many persons there were in those dayes of longevity, of whose age notwithstanding there is no account in Scripture; as of the race of Cain, the Wives of the nine Patriarchs, with all the sons and daughters that every one hegat; whereof perhaps some persons might out-live Methaselab; the Text intending only the masculine line of Seth, conduceable unto the Genealogy of our Saviour, and the antediluvian Chronology. And

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therefore we must not contract the lives of those which are left in silence by Moses; for neither is the age of Alel expressed in the Scripture, yet is he conceived far elder then commonly opinioned; and if we allow the conclufion of his Epitaph as made by Adam, and fo fet down by Saltan, Pofuit marens pater, cui a filio justine positum foret, Anno ab orth rerum 130. Ab Abele nato 129. We shall not need to doubt. Which notwithstanding Cajetan and others confirm; nor is it improbable, if we conceive that Alel was born in the second year of Adam, and Seth a year after the death of Abel: for fo it being faid, that Adam was an hundred and thirty years old when he begat Seth, Abel must perish the year before, which was one hun-

dred twenty nine.

And if the account of Cain extend unto the Deluge, it may not be improbable that some thereof exceeded any of Seth. Nor is it unlikely in life, riches, power and temporal bleffings, they might furpass them in this world, whose lives related unto the next. For so when the seed of Jacob was under affliction and captivity, that of Ismael and Esan Hourished and grew mighty, there proceeding from the one twelve Princes, from the other no less then fourteen Dukes and eight Kings. And whereas the age of Cain and his posterity is not delivered in the Text, some do salve it from the secret method of Scripture, which sometime wholly omits, but seldom or never delivers the entire duration of wicked and faithless persons, as is observable in the history of Esan, and the Kings of Israel and Judah. And by some to be therefore when mention is made that Isomael lived 137 years, some conof the race of ceive he adhered unto the faith of Abraham; for so did others who were not descended from Facob; for Fob is thought to be an Idumean, and of the seed

Job thought Efau.

> Lastly (although we rely not thereon) we will not omit that conceit urged by learned men, that Adam was elder then Methuselab, inasmuch as he was created in the perfect age of man, which was in those dayes 50 or 60 years, for about that time we read that they begat children; so that if unto 930 we add 60 years, he will exceed Merbuselab. And therefore if not in length of dayes, at least in old age he surpassed others; he was older then all, who was never so young as any. For though he knew old age, he was never acquainted with puberty, youth or Infancy; and so in a strict account he begat children at one year old. And if the usual compute will hold, that men are of the same age which are born within compass of the same year: Eve was as old as her husband and Parent Adam, and Cain their fon coetanous unto both.

> Now that conception, that no man did ever attain unto a thousand years, because none should ever be one day old in the fight of the Lord, unto whom according to that of David, A thousand years are but one day; doth not advantage Methufelah. And being deduced from a popular expression, which will not fland a Metapfby scal and first examination, is not the force to divert a ferious enquirer. For unto God a thousand years are no

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more then one moment, and in his fight Methufelah. lived no nearer one day then Abel, for all parts of time are alike unto him, unto whom none are referrible; and all things prefent, unto whom nothing is patt or to come. And therefore, although we be measured by the Zone of time, and the flowing and continued instants thereof, do weave at last a line and circle about the eldest: yet can we not thus commensurate the sphere of Trismegistus, or sum up the unsuccessive and stable duration of God, inager commence is a second of the control of

CHAP. IV.

That there was no Rain-bow before the Flood.

Hat there shall no Rain-bow appear fourty years before the end of the the other m World, and that the preceding drought unto that great flame shall exhaust the materials of this Meteor; was an affertion grounded upon them to no folid reason: but that there was not any in sixteen hundred years, that but the is, before the flood, feems deduceable from holy Scripture, Gen. 9. I do fet my bow in the clouds, and it shall be for a token of a Covenant between Mil. Me and the earth. From whence notwithstanding we cannot conclude the non-existence of the Rain-bow; nor is that Chronology naturally established, which compute the antiquity of effects arising from physical for the feet and fetled causes, by additional impositions from voluntary determinators. Now by the decree of reason and Philosophy, the Rain-bow hath its ground hat court in nature, and caused by the rayes of the Sun, falling upon a toride and opposite cloud: whereof some reflected, others refracted, beget that semidisting circular variety we generally call the Rain-bow; which must succeed upon concurrence of causes and subjects aprly predisposed. And therefore, to there conceive there was no Rain-bow before, because God chose this out as a beautide token of the Covenant, is to conclude the existence of things from their we may infer there was no water before the institution of Baptism, nor bread and wine before the holy Eucharist.

Again, while men deny the Anni which is internally prefented unto the understanding. With equal reason

concede another. For befide the folary Iris which God shewed unto Noah, That there is there is another Lunary, whose efficient is the Moon, visible only in the a Rain-bow night, most commonly at full Moon, and some degrees above the Horizon, of the Moon. Now the existence hereof men do not controvert, although effected by a different Luminary in the same way with the other. And probably appearance later as being controvert. red later, as being of rate appearance and rater observation, and many there are which think there is no such thing in nature. And therefore by cannot

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fignified by their natures.

Laffly, We shall not need to conceive God made the Rain-bow at this time, if we confider that in its created and predisposed nature, it was more proper for this fignification then any other Meteor or celestial appearancy whatfoever. Thunder and Lightning had too much terrour to have been tokens of mercy; Comets or Blazing Stars appear too feldome to put us in mind of a Covenant to be remembred often: and might rather fignifie the world should be once destroyed by fire, then never again by water. The Cafaxia or milky Circle had been more probable; for (befide that unto the latitude of thirty, it becomes their Horizon twice in four and twenty hours, and unto fuch as live under the Æquator, in that space the whole Circle appeareth) part thereof is visible unto any situation; but being only discoverable in the night, and when the Air is clear, it becomes of unfrequent and comfortless fignification. A fixed Star had not been visible unto all the Globe, and so of too narrow a figuality in a Covenant concerning all. But Rain-bows are feen unto all the world, and every position of sphere. Unto our own elevation they may appear in the morning, while the Sun hath attained about forty five degrees above the Horizon (which is conceived the largest semidiameter of any Iris) and so in the afternoon when it hath declined unto that altitude again, which height the Sun not attaining in winter, Rain-bows may happen with us at Noon or any time. Unto a right position of iphere they may appear three hours after the rising of the Sun, and three before its fetting; for the Sun ascending fifteen degrees an hour, in three attaineth forty five of a latitude. Even unto a parallel sphere, and fuch as live under the pole, for half a year some segments may appear at any time and under any quarter, the Sun not fetting, but walking round about them.

The natural fignification of the Rainbow.

But the propriety of its Election most properly appeareth in the natural fignification and prognostick of it felf; as containing a mixt fignality of rain and fair weather: For being in a roride cloud and ready to drop, it declareth a pluvious disposure in the ayr, but because when it appears, the Sun must also shine, there can be no universal showres, and consequently no Deluge. Thus when the windows of the great deep were open, in vain men lookt for the Rain-bow: for at that time it could not be seen, which after appeared unto Noah. It was therefore existent before the flood, and had in nature some ground of its addition. Unto that of Nature God superadded an affurance of his Promise, that is, never to hinder its appearance, or so to replenish the Heavens again, as that we should behold it no more. And thus without disparaging the promise, it might rain at the same time when God shewed it unto Neah; thus was there more therein then the Heathens understood, when they called it the Nuncia of the gods, and the laugh of weeping Heaven; and thus may it be elegantly faid, I put my bow, not my arrow in the clouds, that is, in the menace of rain the mercy of fair weather, Cabalistical

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Cabalifical heads, who from that expression in Efay, do make a book of Isa. 34. 4. Heaven, and read therein the great concernments of Earth, do literally play on this, and from its semicircular figure, resembling the Hebrew letter 3 Caph, whereby is fignified the uncomfortable number of twenty, at which Fofeph was fold, which Jacob lived under Laban, and at which men were to go to war: do note a propriety in its fignification; as thereby declaring the dismal time of the Deluge. And Christian conceits do seem to strain as high, while from the irradiction of the Sun upon a cloud, they apprehend the mystery of the Son of Righteousnesse in the obscurity of slesh, by the colours green and red, the two destructions of the world by fire and water; or by the colours of blood and water, the mysteries of Baptism, and the holy

Laudable therefore is the Custome of the Temes, who upon the appearance of the Rain-bow, do magnifie the fidelity of God in the memory of his Covenant; according to that of Syracides, look upon the Rain-bow, and praise him that made it. And though some pious and Christian pens have only fymbolized the same from the mystery of its colours, yet are there other affections which might admit of Theological allufions. Nor would he find a more improper subject, that should consider that the colours are made by refraction of Light, and the shadows that limit that light; that the Center of the Sun, the Rain-bow, and the eye of the Beholder must be in one right line, that the Spectator must be between the Sun and the Rain-bow, that fometime three appear, sometime one reversed. With many others, con-Thaumaneiks, fiderable in Meteorological Divinity, which would more sensibly make out the Epithite of the Heathens; and the expression of the son of Syrach. Very beautiful is the Rain-bow, it compafieth the Heaven about with a glorious circle, and the hands of the most High have bended it.

CHAP. V.

Of Sem, Ham, and Japhet.

Oncerning the three Sons of Noah, Sem, Ham, and Japker, that the order of their Nativity was according to that of numeration, and Japhet the youngest son, as most believe, as Austin and others account, the fons of Taphet, and Europeans need not grant: nor will it so well concord unto the letter of the Text, and its readiest Interpretations. For so is it faid in our Translation, Sem the father of all the fons of Heber, the brother of Fapher the elder: so by the Septuagint, and so by that of Tremelius. And therefore when the Vulgar reads it, Fraire Japhet majore, the mistake, as Junis observeth, might be committed by the neglect of the Hebrew accent; which occasioned Jerom so to render it, and many after to believe

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it. Nor is that Argument contemptible which is deduced from their Chronology; for probable it is that Noah had none of them before, and begat them from that year when it is faid he was five hundred years old, and begat Som, Ham, and Japhet. Again, it is said he was fix hundred years old at the flood, and that two years after Sem was but an hundred; therefore Sem must be born when Noah was five hundred and two, and some other

before in the year of five hundred and one.

Now whereas the Scripture affordeth the priority of order unto Sem, we cannot from thence infer his primogeniture. For in Sem the holy line was continued: and therefore however born, his genealogy was most remarkable. So is it not unufual in holy Scripture to nominate the younger before the elder: so is it said, That Tarab begat Abraham, Nachor and Haram; whereas Haram was the eldest. So Rebesca is termed the Mother of Jacob and Efan. Nor is it strange the younger should be first in nomination, who have commonly had the priority in the bleffings of God, and been first in his benediction. So Abel was accepted before Cain; Isaac the younger preferred before Ishmael the elder; Jacob before Esan; Joseph was the youngest of twelve, and David the eleventh son and minor cadet of

Lastly, though Fapher were not elder then Sem, yet must we not affirm that he was younger then Cham; for it is plainly delivered, that after Sem and Japhet had covered Noab, he awaked, and knew what his youngest son had done unto him, sids à rearspo, is the expression of the Septuagint, Fillus miner of ferem, and minimus of Tremelius. And upon these grounds perhaps Josephus doth vary from the Scripture enumeration, and nameth them, Sem, Japhet, and Cham; which is also observed by the Annian Berosus; Noah cum tribus filiis, Semo, Fapeto, Chem. And therefore although in the priority of Sem and Japher, there may be some difficulty, though Cyril, Epiphanius, and Austin, have accounted Sem the elder, and Salian the Annalist, and Petavius the Chronologist contend for the same; yet Cham is more plainly and confessedly named the youngest in the Text.

And this is more conformable unto the Pagan History and Gentile account hereof, unto whom Noah was Saturn, whose symbol was a Ship, as relating unto the Ark, and who is faid to have divided the world between Reading VeiReading Veiaggod & absciworshipped by the name of Hamon, which was the Agyptian and African
dit, for Veiegname for Jupiter, who is said to have cut off the genitals of his father, derived from the history of Ham, who beheld the nakedness of his, and by no hard mistake might be confirmed from the Text, as Boohartus hath well

Gen. II. Gen. 28.

In divine Benedictions the younger of ten perfetted.

That Neah and Satura were the fame perion. Ges. 9.22. ged & nunciawit. Bochartus de Geographia Jacra.

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CHAP. VI.

That the Tower of Babel was crefted against a second Deluge.

N Opinion there is of some generality, that our Fathers after the flood attempted the Tower of Babel to secure themselves against a second Deluge. Which however affirmed by Fosephus and others, hath seemed improbable unto many who have discoursed hereon. For (beside that they could not be ignorant of the promise of God never to drown the World again, and had the Rain-bow before their eyes to put them in mind thereof) it is improbable from the nature of the Deluge; which being not possibly causable from natural showers above, or watery eruptions below, but requiring a supernatural hand, and such as all acknowledge irrefistible; we must disparage their knowledge and judgement in so successes attempts.

Again, They must probably hear, and some might know, that the waters of the flood ascended fifteen cubits above the highest mountains. Now, if as some define, the perpendicular altitude of the highest mountains be four miles; or as others, but fifteen furlongs, it is not eafily conceived how fuch a structure could be effected. Although we allowed the description of Herodotus concerning the Tower of Belus, whose lowest story was in heighth and bredth one furlong, and seven more built upon it; abating that of the Annian Berefus, the traditional relation of Jerom, and fabulous account of the Jews. Probable it is that what they attempted was feafible, otherwise they had been amply fooled in fruitless success of their labours, nor needed God to have hindred them, saying, Nothing will be restrained from them,

which they begin to do.

It was improbable from the place, that is a plain in the land of Shinar. And if the fituation of Babylon were such at first as it was in the daies of Heredotus; it was rather a feat of amenity and pleasure, than conducing unto this intention. It being in a very great plain, and so improper a place to provide against a general Deluge by Towers and eminent Structures, that they were fain to make provisions against particular and annual inundations by ditches and trenches, after the manner of Agypt. And therefore Sir Walter Rawleigh accordingly objecteth: If the Nations which followed History of the Nimrod, still doubted the surprise of a second flood, according to the opi- World. nions of the antient Hebrews, it foundethill to the ear of Reason, that they would have spent many years in that low and over-flown valley of Mesepotamia, And therefore in this fituation, they chose a place more likely to have secured them from the Worlds destruction by fire, then another Deluge of water: and as Pierius observeth) some have conceived that this was their intention.

Laftly, The reason is delivered in the Text. Let us build us a City and 2 Tower, whose top may reach unto Heaven, and let us make a name, lest

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we be scattered abroad upon the whole earth; as we have already began to wander over a part. These were the open ends proposed unto the people; but the secret design of Nimred, was to settle unto himself a place of dominion and rule over his Brethren, as it after succeeded, according to the delivery of the Text, the beginning of his Kingdom was Babel.

CHAP. VII.

Of the Mandrakes of Leah.

E shall not omit the Mandrakes of Leah, according to the history of Genesis. And Renben went out in the daies of Wheat-harvest, and found Mandrakes in the field, and brought them unto his Mother Leah, then Rachel said unto Leah, give me, I pray thee, of thy Sons Mandrakes and she said unto her, it is a small matter that thou hast taken my husband, and wouldst thou take my sons Mandrakes also? And Rachel said, Therefore he shall sye with thee this night for thy sons Mandrakes. From whence hath risen a common conceit, that Rachel requested these plants as a medicine of secundation, or whereby she might become fruitful. Which not-

withstanding is very questionable, and of incertain truth.

For first from the comparison of one Text with another, whether the Mandrakes here mentioned, be the same plant which holds that name with us, there is some cause to doubt. The word is used in another place of Scripture, when the Church inviting her beloved into the fields, among the delightful fruits of Grapes and Pomegranates, it is faid, The Mandrakes give a smell, and at our gates are all manner of pleasant fruits. Now inflead of a fmell of Delight, our Mandrakes afford a papaverous and unpleafant odour, whether in the leaf or apple, as is discoverable in their simplicity or mixture. The same is also dubious from the different interpretations: for though the Septuagint and Fofephus do render it the Apples of Mandrakes in this Text, yet in the other of the Cantieles, the Chaldy Paraphrase termeth it Ballame. R. Solomon, as Drusius observeth, conceives it to be that plant the Arabians named Jesemin. Oleaster, and Georgius Venetus, the Lilly, and that the word Dudaim, may comprehend any plant that hath a good smell, resembleth a womans brest, and flourisheth in Wheat-harvest. Junius and Tremelius interpret the same for any amiable flowers of a pleafant and delightful odour : but the Geneva Translators have been more wary then any: for although they retain the word Mandrake in the Text, they in effect retract it in the Margin: wherein is fet down the word in the Original is Dudaim, which is a kind of fruit or flower unknown.

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nition concerning this Text, if we perpend how variously the vegetables of Scripture are expounded, and how hard it is in many places to make out the The vegetaseries determined. Thus are we at variance concerning the plant that co-bles in H. Scripture how vered Jonas; which though the Septuagint doth render Colocynthus, the variously ex-Spanish Calabaca, and ours accordingly a Gourd: yet the vulgar translates pounded. it Hedera or Ivy; and as Grotins observeth, Ferom thus translated it, not. as the same plant, but best apprehended thereby. The Italian of Diodatis. and that of Tremelius have named it Ricinus, and so hath ours in the Margin, for Palma Christi is the same with Recinus, The Geneva Translators have herein been also circumspect, for they have retained the original word Kikaion, and ours bath also affixed the same unto the Margin.

Nor are they indeed alwaies the same plants which are delivered under

the same name, and appellations commonly received amongst us. So when it is faid of Solomon, that he writ of plants from the Cedar of Lebanus, unto the Hysop that groweth upon the wall, that is, from the greatest unto the smallest, it cannot be well conceived our common Hysop; for neither is that the least of vegetables, nor observed to grow upon walls, but rather as Lemnins well conceiveth, some kind of the Capillaries, which are very fmall plants, and only grow upon walls and flony places. Nor are the four fpecies in the holy oyntment, Cinnamon, Myrrhe, Calamus and Caffia, nor the other in the holy perfume, Frankincense, Stacte, Onycha, and Galbanum, so agreeably expounded unto those in use with us, as not to leave confiderable doubts behind them. Nor must that perhaps be taken for a simple unguent, which Matthew only termeth a precious oyntment; but V. Mathiola rather a composition, as Mark and John imply by pistick Nard, that is Epist. faithfully dispensed, and as may be that famous composition described by Dioscorides, made of oyl of Ben, Malabathrum, Juneus Odoratus, Coslus, Amomum, Myrrhe, Balfam and Nard; which Galen affirmeth to have been in afe with the delicate Dames of Rome; and that the best thereof was made at Landicea, from whence by Merchants it was conveyed unto other parts. But how to make out that Translation concerning the Tythe of Mint, Anise and Cumin, we are still to seek; for we find not a word in the Text. that can properly be rendred Anise, the Greek being arnson, which the Latines call Anethum, and is properly Englished Dill. Lastly, What Meteor that was that fed the Israelites so many years, they must rise again to inform us. Nor do they make it out, who will have it the fame with V. Dociissimon our Manna, nor will any one kind thereof, or hardly all kinds we read of, Magaenurs de be able to answer the qualities thereof, delivered in the Scripture; that is, Minsa, to fall upon the ground, to breed worms, to melt with the Sur, to taffe like fresh oyl, to be grounded in mills, to be like Coriander-seed, and of the co-

lour of Bdellium. Again, It is not deducible from the Text or concurrent sentence of Comments, that Rachel had any fuch intention, and most do rest in the determination of Austin, that she defired them for rarity, pulcritude or suavity.

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Nor is it probable she would have resigned her bed unto Leak, when at the same time she had obtained a medicine to fructishe her self. And therefore Drussus who hath expressly and favourably treated hereof, is so far from conceding this intention, that he plainly concludeth, Hoe quo mode illis in mentem veneris conjucere nequeo; how this conceit fell into mens minds, it cannot fall into mine; for the Scripture delivereth it not, nor can it be clearly deduced from the Text.

Thirdly, If Rachel had any such intention, yet had they no such effect, for the conceived not many years after of fofeph; whereas in the mean

time Leab had three children, Ifachar, Zabulon, and Dinah.

Lastly, Although at that time they failed of this effect, yet is it mainly questionable whether they had any such vertue either in the opinions of these times, or in their proper nature. That the opinion was popular in the land of Canaan, it is improbable, and had Leab understood thus much, she would not surely have parted with fruits of such a faculty, especially unto Rachel; who was no friend unto her. As for its proper nature, the Ancients have generally esteemed it Narcotick or supefactive, and is to be found in the List of Poysons, set down by Dioscorides, Galen, Atius, Agineta, and several Antidotes delivered by them against it. It was I consess from good Antiquity, and in the daies of Theophrastus accounted a Philtre, or plant that conciliates affection; and so delivered by Dioscorides. And this intent might seem most probable, had they not been the Wives of holy facob: had Rachel presented them unto him, and not requested them for her self.

Now what Dioscorides affirmeth in favour of this effect, that the grains of the apples of Mandrakes mundifie the Matrix, and applyed with Sulphur, stop the fluxes of women, he overthrows again by qualities destructive unto conception; affirming also that the juice thereof purgeth upward like Hellebore, and applyed in peffaries, provokes the menstruous flowes, and procures abortion. Petrus Aispanus, or Pope John the twentieth, speaks more directly in his The Janrus panperum: wherein among the receits of fecundation, he experimentally commendeth the wine of Mandrakes given with Triphera magna. But the foul of the medicine may lye in Triphera magna, an excellent composition, and for this effect commended by Nicolaus. And whereas Levinus Lemnius that eminent Physitian doth also concede this effect, it is from manifest causes and qualities elemental occasionally producing the same. For he imputeth the same unto the coldness of that simple, and is of opinion that in hot climates, and where the uterine parts exceed in hear, by the coldness hereof they may be reduced into a conceptive constitution, and Crasis accommodable unto generation; whereby indeed we will not deny the due and frequent use may proceed unto some effect, from whence notwithstanding we cannot infer a fertilitating condition or property of fecundation. For in this way all vegetables do make fruitful according unto the complexion of the Matrix; if that excel in heat, plants exceeding de la compa

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exceeding in cold do rectifie it; if it be cold, simples that are hot reduce it; if dry, moist, if moist, dry correct it; in which division all plants are comprehended. But to distinguish thus much, is a point of Art, and beyond the Method of Rachels or feminine Phyfick. Again, Whereas it may be thought that Mandrakes may fecundate, fince Poppy hath obtained the Epithite of fruitful, and that fertility was Hieroglyphically described by Venus with an head of Poppy in her hand; the reason hereof was the multitude of feed within it felf, and no fuch multiplying in humane generation. And lastly, whereas they may seem to have this quality, since Opium it felf is conceived to extimulate unto venery, and for that intent is sometimes used by Turks, Persians, and most oriental Nations; although Winclerus doth seem to favour the conceit, yet Amatus Lusitanus, and Rodericus a Coftro are against it; Garcias ab horto refutes it from experiment; and they speak probably who affirm the intent and effect of eating Opium, is not so much to invigorate themselves in coition, as to prolong the act, and spin out the motions of carnality. The less shall always the hope of the less shall be been sha

through all the find, that out or Fury or ethould come that thould prietting whele V and a cerns dival HIV . APA Clear ront the evering

of the three Kings of Collein.

A Common conceit there is of the three Kings of Collein, conceived to be the wife menthat travelled unto our Saviour by the direction of the Star, wherein (omitting the large discourses of Raronius, Peinda, and Montacutius) that they might be Kings, befide the antient Tradition and authority of many fathers, the Scripture also implyeth. The Gentiles shall come to thy light, and Kings to the brightness of thy rising. The Kings of Tharsis and the Isles, the Kings of Arabia and Saba shall offer gifts, which places The Magi +1 most Christians and many Rabbins interpret of the Meffiab. Not that they wife men. are to be conceived potent Monarchs, or mighty Kings, but Toparks, Kings What manner of Cities or narrow Territories; fuch as were the Kings of Sodom and Ge- of Kings they morrah, the Kings of Feriche and Ai, the one and thirty which Foshnah were, subdued, and such as some conceive the friends of Fob to have been.

But although we grant they were Kings, yet can we not be affured there were three. For the Scripture maketh no mention of any number, and the number of their prefents, Gold, Myrthe, and Frankincense, couclideth not the number of their persons, for these were the commodities of their Countrey, and such as probably the Queen of Sheba in one person had brought before unto Solomon. So did not the Sons of Facob divide the prefent unto Joseph; but are conceived to carry one for them all, according to the expression of their Father; Take of the best fruits of the land in your

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vessels, and carry down the man a present. And therefore their number being uncertain, what credit is to be given unto their names, Gafper, Melchier, Balthazar, what to the charm thereof against the Falling-fickness, or what unto their habits, complexions, and corporal accidents, we must re-

lye on their uncertain flory, and received pourtraits of Collein.

Lastly, Although we grant them Kings, and three in number, yet could we not conceive that they were Kings of Collein. For though Collein were the chief City of the Ubii, then called Ubiopolis, and afterwards Agrippina, yet will no history inform us there were three Kings thereof. Beside, these being Rulers in their Countreys, and returning home, would have probably converted their subjects: but according unto Munster, their converfion was not wrought until seventy years after by Maternus a Disciple of Peter. And lastly, it is said that the wife men came from the East, but Collein is seated West-ward from Ferusalem; for Collein hath of longitude thirty four degrees, but ferufalem feventy two.

And why of Collein.

The ground of all this was. These wise men, or Kings, were probably of Arabia, and descended from Abraham by Keturah, who apprehending the mysterie of this Star, either by the Spirit of God, the prophesie of Balaam, the prophesie which Suetonius mentions, received and constantly believed through all the East, that out of Jury one should come that should rule the whole World: or the divulged expectancy of the Jews from the expiring prediction of Daniel, were by the same conducted unto Judea, returned into their Countrey, and were after baptized by Thomas. From whence about three hundred years after, by Helena the Empress, their bodies were translated to Constantinople, from whence by Enstatins unto Milane, and at last by Renatus the Bishop unto Collein: where they are believed at prefent to remain, their Monuments thewn unto strangers, and having lost their Arabian titles, are crowned Kings of Collein.

CHAP. IX.

Of the food of John Baptist, Locusts and Wild-honey.

Oncerning the food of John Baptist in the Wilderness, Locusts and Wilde-honey, lest popular opiniatrity should arise, we will deliver the chief opinions. The first conceiveth the Locusts here mentioned, to be that fruit the Greeks name Repartor, mentioned by Luke in the diet of the prodigal fon, the Latins Siliqua, and some Panis Santti Johannis; included in a broad Cod, and indeed of taste almost as pleasant as honey. But this opinion doth not so truly impugne that of the Locusts; and might rather call into controversie the meaning of Wild-honey. The

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The second affirmeth they were the tops or tender crops of trees: for fo Locusta also fignifieth: which conceit is plausible in Latine, but will not hold in Greek, wherein the word is anglos, except for angloss, we read des, or the expos pues, or expenses, which fignifie the extremities of trees, of which be- Locusts of Sr. lief have divers been : more confidently Isidore Peleusiota, who in his Epi- John Baptitt. Ales plainly affirmeth they think unlearnedly who are of another belief. And this so wrought upon Baronins, that he concludeth in neutrality: Hac com scribat Isidorus definiendum nobis non est, & totum relinquimus lectoris arbitrio; nam constat Gracam dictionem axpides, & Locustam, infecti genus, & arborum summitates significare. Sed fallitur, faith Montacutius, nam conflat contrarium, Axploa apud nullum authorem classicum Axpodova significare. But above all, Paracelfus with most animosity promoteth this opinion, and in his book de Melle, spareth not his friend Erasmus. Hee a nonnullis ita explicator ut dicant Locustas aut cicadas Johanni pro cibo fuisse: sed bi fulftitiam dissimulare non possunt, veluti feronimus, Erasmus, & alii Prophetæ Neoterici in Latinitati immortui.

A third affirmeth that they were properly Locusts: that is, a sheathwinged and fix-footed Infect, fuch as is our Grashopper. And this opini- bable what on seems more probable than the other. For beside the authority of Origen, Ferome, Chryfostome, Hillary and Ambrofe to confirm it; this is the proper fignification of the word, thus used in Scripture by the Septuagint, Greek vocabularies thus expound it. Suidas on the word Apple obferves it to be that animal whereon the Baptist fed in the desert; in this fense the word is used by Aristotle, Dioscorides, Galen, and several humane Anthors. And lastly, there is no absurdity in this interpretation, or any solid reason why we should decline it, it being a food permitted unto the Jews, whereof four kinds are reckoned up among clean meats. Befide, not only the Jews, but many other Nations long before and fince, have made an usual food thereof. That the Athiopians, Mauritanians, and Arabians, did commonly eat them, is testified by Diodorns, Strabe, Solinus, Elian and Pliny: that they still feed on them is confirmed by Leo, Gadamustus, and others. John therefore as on Saviour faith, came neither eating nor drinking: that is, far from the diet of Ferafalem, and other riotous places: but fared courfely and poorly according unto the apparel he wore, that is, of Camels hair: the place of his abode, the Wilderness; and the doctrine he preached, humiliation and repentance.

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CHAP. X.

That John the Evangelist should not die.

He conceit of the long-living, or rather not dying of Fohn the Evangelift, although it feem inconfiderable, and not much weightier than that of Foseph the wandring Jew : yet being deduced from Scripture, and abetted by Authors of all times, it shall not escape our enquiry. It is drawn from the speech of our Saviour unto Peter after the prediction of his Martyrdome? Peter faith unto Jesus, Lord, and what shall this man do? Jesus faith unto him, If I will that he tarry until I come, what is that to thee? Follow thou me; Then went this faying abroad among the Brethren, that

this Disciple should not die.

Now the apprehension hereof hath been received either großy and in the general, that is not diffinguishing the manner or particular way of this continuation, in which fense probably the groffer and undiscerning party received it. Or more distinctly apprehending the manner of his immortality; that is, that John should never properly die, but be translated into Paradise, there to remain with Enoch and Elias until about the coming of Christ and should be slain with them under Antichrist, according to that of the Apocalyps. I will give power unto my witnesses, and they shall prophesie a thousand two hundred and threescore daies clothed in sackcloth, and when they shall have finished their testimony, the Beast that ascendeth out of the bottomless-pit, shall make war against them, and shall overcome them, and kill them. Hereof, as Baronius observeth, within three hundred years after Christ, Hippolytus the Martyr was the first affertor, but hath been maintained by many fince ; by Metaphraftes, by Freculphus, but especially by Georgins Trapezuntins, who hath expresty treated upon this Text, and although he lived but in the last Centaury, did still affirm that John was not yet dead.

As for the gross opinion that he should not dye, it is sufficiently refuted by that which first occasioned it, that is the Scripture it felf, and no further off, than the very subsequent verse: Yet Jesus said unto him, he should not dye, but if I will that he tarry till I come, What is that to thee? And this was written by John himself, whom the opinion concerned; and is conceived many years after, when Peter had suffered and fulfilled the pro-

phecy of Christ.

For the particular conceit, the foundation is weak, nor can it be made St. 19hn Evan- out from the Text alledged in the Apocalyps: for befide that therein tryo persons are only named, no mention is made of John, a third Actor in this Tragedy. The same is overthrown by History, which recordeth not only the death of John, but affigneth the place of his burial, that is Ephesus, 2 City in Afia minor, whither after he had been banished into Patmos by Do-

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mitian, he returned in the reign of Nerva, there deceased, and was bu-, ried in the daies of Trajan. And this is testified by Ferome, by Tertullian, by Chry ostom and Enfebins, in whose dates his Sepulchre was to be seen; and by a more antient Testimony alledged also by him, that is of Polycrates Bishop of Ephefus, not many successions after John; whose words are these in an Epistle unto Victor Bishop of Rome; Johannes ille qui supra pectus Domini recombebat, Doctor optimus, apud Ephesum dormivit; many of the like nature are noted by Baronius, Jansenius, Estins, Lipellons, and others.

Now the main and primitive ground of this error, was a gross mistake in the words of Christ, and a false apprehension of his meaning; understanding that positively which was but conditionally expressed, or receiving that affirmatively, which was but concessively delivered. For the words of our Saviour run in a doubtfull strain, rather reprehending than satisfying the curiofity of Peter; as though he should have said, Thou hast thy own doom, why enquirest thou after thy Brothers? What relief unto thy affliction, will be the society of anothers? Why pryest thou into the secrets of Gods Judgements? If he stay untill I come, what concerneth it thee, who shalt be fure to fuffer before that time? And fuch an answer probably he returned, because he fore-knew John should not suffer a violent death, but go unto his grave in peace. Which had Peter affuredly known, it might have cast some water on his flames, and smothered those fires which kindled after unto the honour of his Mafter.

Now why among all the rest John only escaped the death of a Martyr, Of all the Ad the reason is given; because all others fled away, or withdrew themselves postles, S. John at his death, and he alone of the Twelve beheld his passion on the Cross. only is thought Wherein notwithstanding, the affliction that he suffered, could not amount ed a natural unto less than Martyrdome: for if the naked relation, at least the intentive death: And confideration of that passion, be able still, and at this disadvantage of time, why? to rend the hearts of pious Contemplators; furely the near and sensible vifion thereof must needs occasion agonies beyond the comprehension of flesh; and the trajections of such an object more sharply pierce the martyred foul of John, then afterward did the nails the crucified body of Peter.

Again, They were mistaken in the Emphatical apprehension, placing the confideration upon the words, If I will: whereas it properly lay in thefe, When I come. Which had they apprehended, as some have since, that is, not for his ultimate and last return, but his coming in Judgement and de-Atraction upon the Jews; or fach a coming, as it might be faid, that that generation should not pass before it was fulfilled; they needed not, much less need we suppose such diuturnity. For after the death of Peter, John lived to behold the same fulfilled by Vespasian: nor had he then his Nanc dimittis, or went out like unto Simeon, but old in accomplish'd obscurities, and having feen the expire of Daniels prediction, as some conceive, he ac-Ddd 2 complished his Revelation,

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But besides this original and primary foundation, divers others have made impressions according unto different ages and persons by whom they were received. For some established the conceit in the Disciples and Brethren, which were contemporary unto him, or lived about the same time with him. and this was first the extraordinary affection our Saviour bare unto his Disciple, who hath the honour to be called the Disciple whom Jesus loved, Now from hence they might be apt to believe their Master would dispence with his death, or fuffer him to live to fee him return in glory, who was the only Apostle that beheld him to die in dishonour. Another was the belief and opinion of those times, that Christ would suddenly come; for they held not generally the same opinion with their successors, or as descending ages. after so many Centuries; but conceived his coming would not be long after his paffion, according unto feveral expressions of our Saviour grosly underflood, and as we find the same opinion not long after reprehended by St. Paul: and thus conceiving his coming would not be long, they might be induced to believe his favourite should live unto it. Lastly, the long life of John might much advantage this opinion; for he survived the other twelve, he was aged 22 years when he was called by Christ, and 25 that is the age of Priefihood at his death, and lived 93 years, that is 68 after his Saviour, and died not before the second year of Trajan. Now having out-lived all his fellows, the World was confirmed he might live ftill, and even unto the coming of his Mafter.

Saint John, how long furviving our B. Saviour.

Thef. 2.

The grounds which promoted it in succeeding ages, were especially two. The first his escape of Martyrdome: for whereas all the rest suffered some kind of forcible death, we have no history that he suffered any; and men might think he was not capable thereof: For as History informeth, by the command of Domitian he was cast into a Caldron of burning oyl, and came out again unfinged. Now future ages apprehending he suffered no violent death, and finding also the means that tended thereto could take no place, they might be confirmed in their opinion, that death had no power over him, that he might live alwaies who could not be destroyed by fire, and was able to refift the fury of that element which nothing shall refift. The second was a corruption crept into the Latine Text, reading for Si, Sic cum manere volo; whereby the answer of our Saviour becometh positive, or that he will have it so, which way of reading was much received in former ages, and is still retained in the vulgar Translation; but in the Greek and Original, the word is ear, fignifying Si or if, which is very different from ere, and cannot be translated for it: and answerable hereunto is the translation of Junius and Tremelius, and that also annexed unto the Greek by the authority of Sixtus Quintus.

The third confirmed it in ages farther descending, and proved a power-full argument unto all others following; because in his Tomb at Epbelus, there was no corps or relique thereof to be found; whereupon arised divers doubts, and many suspitious conceptions; some believing he was not

buried.

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buried, some that he was buried, but risen again, others that he descended alive into his Tomb, and from thence departed after. But all these proceeded upon unveritable grounds, as Baronius hath observed, who alledgeth a letter of Celestine Bishop of Rome, unto the Council of Ephesus, wherein he declareth the reliques of John were highly honoured by that City; and a passage also of Chrysostome in the Homilies of the Apostles, That John being dead, did cures in Ephesus, as though he were still alive. And in I observe that Esthins discussing this point, concludeth hereupon, Quod corpus eius nunquam reperiatur, hoc non dicerent si veterum scripta di-

ligentur perlustrassent.

Now that the first ages after Christ, those succeeding, or any other should proceed into opinions so far divided from reason, as to think of immortality after the fall of Adam, or conceit a man in these later times shoulds out-live our fathers in the first; although it feem very strange, yet is it not incredible. For the credulity of men hath been deluded into the like conceits; and as Irenius and Tertullian mention, one Menander a Samaritanobtained belief in this very point; whose Doctrine it was, that Death should have no power on his Disciples, and such as received his Baptism, should receive immortality therewith. 'Twas surely an apprehension very strange; nor usually falling either from the absurdities of melancholy or vanities of ambition. Some indeed have been to affectedly vain, as to counterfeit immortality, and have stoln their death, in a hope to be esteemed immortal; and others have conceived themselves dead; but surely few or none have fallen upon so bold an errour, as not to think that they could die at all. The reason of those mighty ones, whose ambition could suffer them to be called gods, would never be flattered into immortality: but the proudest thereof. have by the daily dictates of corruption, convinced the impropriety of that appellation. And furely, although delufion may run high, and possible it is that for a while a man may forget his nature, yet cannot this be durable. For the inconcealable imperfections of our felves, or their daily examples in others, will hourly prompt us our corruption, and loudly tell us we are the fons of earth.

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Many others there are which we refign unto Divinity, and perhaps de-ferve not controversie. Whether David were punished only for pride of heart in numbering the people, as most do hold, or whether as Fo-Sephus and many maintain, he suffered also for not performing the Commandment of God concerning capitation; that when the people were numbred, for every head they should pay unto God a shekel, we shall not here contend. Surely, if it were not the occasion of this plague, we must acknowledge the omission thereof was threatned with that punishment, according to the words of the Law. When thou takest the sum of the children of Israel, then thall they give every man a ransome for his foul unto the Lord, that there be no plague amonst them. Now how deeply hereby God was defrauded in the time of David, and opulent State of Israel, will eafily appear by the fums of former Illustrations. For in the first, the filver of them that were numbred was an hundred Talents, and a thousand seven hundred threescore and fifteen shekels; a Bekan for every man, that is, half a shekel, after the shekel of the Sanctuary; for every one from twenty years old and upwards, for fix hundred thousand, and three thousand and five hundred and fifty men. Answerable whereto we read in Fosephus, Vespasian ordered that every man of the Jews should bring into the Capitol two dragms; which amounts unto fifteen pence, or a quarter of an ounce of filver with us, and is equivalent unto a Bekah, or half a shekel of the Sanctuary. For an Attick dragm is seven pence half-peny, or a quarter of a shekel, and a didrachmum or double dragm, is the word used for Tribute money, or half a shekel; and a stater the money found in the fishes mouth was two Didrachmums, or an whole shekel, and tribute sufficient for our Saviour and for Peter.

We will not question the Metamorphosis of Lots wife, or whether the were transformed into a real Statua of Salt: rhough some conceive that expression Metaphorical, and no more thereby than a lasting and durable column, according to the nature of Salt, which admitteth no corruption: in which sense the Covenant of God is termed a Covenant of Salt; and it is also said, God gave the Kingdom unto David for ever, or by a Covenant

That Absalom was hanged by the hair of the head, and not caught up by the neck, as Fofephus conceiveth, and the common argument against long hair affirmeth, we are not ready to deny. Although I confess a great and learned party there are of another opinion; although if he had his Motion or Helmet on, I could not well conceive it; although the translation of ferome or Trimelius do not prove it, and our own feems rather to overthrow it.

Exod. 30.

Exod. 38.

What the Attick dragm is. What the didrachmum and the stater, Mat. 17. 27.

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That Judas hanged himself, much more, that he perished thereby, we shall not raise a doubt. Although Jansenius discoursing the point, produceth the testimony of Theophylast and Embyonius, that he died not by the Gallows, but under a cart-wheel; and Baronius also delivereth, this was the opinion of the Greeks, and derived as high as Papias, one of the Disciples of John. Although how hardly the expression of Matthew is reconcilable unto that of Peter, and that he plainly hanged himself, with that, that falling headlong, he burst asunder in the midst, with many other, the learned Grozius plainly doth acknowledge. And lastly, Although as he also urgerh, the word amin gare in Matthew, doth not only fignific suspension or pendulous illaqueation, as the common picture describeth it, but How Judas also suffocation, strangulation, or interception of breath, which may arise might die. from grief, despair, and deep dejection of spirit, in which sense it is used in the History of Tobit concerning Sara, रेग्यमां अव क्रिंड से मेर्ड सेमरे दूस केंद्र सेमरे दूस केंद्र सेमरे हैं Ita triftata eft ut strangulatione premeretur, faith Junius; and so might it happen from the horrour of mind unto Judas. So do many of the Hebrens strangular ixaffirm, that Achitophel was also strangled, that is, not from the rope, but clasus delerpassion. For the Hebrew and Arabick word in the Text, not only fignifies fulpension, but indignation, as Grotien hath also observed.

Many more there are of indifferent truths, whose dubious expositions, worthy Divines and Preachers do often draw into wholfome and fober uses, whereof we shall not speak; with industry we decline such Paradoxes, and

peaceably submit unto their received acceptions.

and may have the San, Great Pan is dead, which is a relation very conserved and may have dead in his edition of Oracles. A conditional provided by Ashina in the black his map shield Conflictions, that about that time. Apolo more well as the oracles are that the conflictions. the districtions recent CHAP, XII, and ash O Adenia

Of the cessation of Oracles.

Hat oracles ceafed, or grew mute at the coming of Christ, is best understood in a qualified sense, and not without all latitude, as though precifely there were none after, nor any decay before. For (what we must confess unto relations of Antiquity) some pre-decay is observable from that of Cicero, urged by Baronius; Cur ifto mode jam oracula Delphis non eduntur, non modo nostra atate, sed jam din, ne nibit possir esse contemptius. That during his life they were not altogether dumb, is deduceable from Successions in the life of Tiberius, who attempting to subvert the Oracles adjoyning unto Rome, was deterred by the Lots or Chances which were delivered at Prenefte. After his death we meet with many; Suetonins reports, that the Oracle of Antium forewarned Caligula to beware of Cassins, who was one that conspired his death. Plutareb enquiring why the Oracles of Greece ceased, excepteth that of Lebadia; and in the same place De-

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metrius affirmeth the Oracles of Mopfus and Amphilochus were much frequented in his daies. In brief, Histories are frequent in examples, and there

want not some even to the reign of Julian.
What therefore may consist with History, by cessation of Oracles with Montacutius, we may understand their intercision, not abscission or consummate desolation; their rare delivery, not total dereliction, and yet in regard of divers Oracles, we may speak strictly, and say there was a proper cessation. Thus may we reconcile the accounts of times, and allow those few and broken divinations, whereof we read in story and undeniable Authors. For that they received this blow from Christ, and no other causes alledged by the heathens, from oraculous confession they cannot deny, whereof upon record there are some very remarkable. The first that Oracle of Delphos delivered unto Augustus.

Me puer Hebraus Divos Deus ipse gubernans Cedere sede jubet, tristema; redire sub orcum;
Aris ergo debine tacitus discedito nostris.

An Hebrew Childe, a God all gods excelling, To hell again commands me from this dwelling : Our Altars leave in filence, and no more A Resolution e're from hence implore,

A second recorded by Plutarch, of a voice that was heard to cry unto Mariners at the Sea, Great Pan is dead, which is a relation very remarkable, and may be read in his defect of Oracles. A third reported by Eufebius in the life of his magnified Constantine, that about that time Apollo mourned, declaring his Oracles were false, and that the righteous upon earth did binder him from speaking truth. And a fourth related by Theodoret, and delivered by Apollo Daphneus unto Julian upon his Persian expedition, that he should remove the bodies about him before he could return an answer; and not long after his Temple was burnt with Lightning.

All which were evident and convincing acknowledgements of that Power which shuts his lips, and restrained that delusion which had reigned so many Centuries. But as his malice is vigilant, and the fins of men do fill continue a toleration of his mischiefs, he resteth not, nor will he ever cease to circumvent the fons of the first deceived. And therefore expelled from cat when ex- Oracles and folemn Temples of delufion, he runs into corners, exercifing minor trumperies, and acting his deceits in Witches, Magicians, Diviners, and such inferiour seducers. And yet (what is deplorable) while we apply our selves thereto, and affirming that God hath left to speak by his Prophets, expect in doubtful matters a resolution from such spirits, while we fay the Devil is mute, yet confess that these can speak, while we deny the substance, yet practise the effect, and in the denyed solemnity, maintain

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the equivalent efficacy, in vain we cry that Oracles are down; Apollos Altar fill doth smoak; nor is the fire of Delphos out unto this day.

Impertinent it is unto our intention to speak in general of Oracles, and many have well performed it. The plainest of others was that recorded by Herodorus, and delivered unto Crassus, who as a tryal of his omniscience fent unto distant Oracles; and so contrived with the messengers, that though in several places, yet at the same time they shold demand what Cre-(ws was then a doing. Among all others, the Oracle of Delphos only hit it, returning answer, he was boyling a Lamb with a Tortoise, in a brazen vessel, with a cover of the same metal. The stile is haughty in Greek, though somewhat lower in Latine.

Equoris est spatinus & numerus mibi notus arene, Mutum percipio, fantis nibil audio vocem. Venit ad hos sensus nidor testudinis acris, Qua semel agnina coquitur cum carne labete, Aere infra frato, & ftratum cui des uper es eft.

> I know the space of Sea, the number of the sand, I hear the filent, mute I understand. A tender Lamb joyned with a Tortoise flesh, Thy Master, King of Lydia, now doth dress. The scent thereof doth in my nostrils hover, From brazen pot closed with brazen cover.

Hereby indeed he acquired much wealth, and more honour, and was reputed by Crafus as a Deity: and yet not long after, by a vulgar fallacy he deceived his Favourite and greatest friend of Oracles into an irreparable overthrow by Cyrus. And furely, the same success are likely all to have that relie or depend upon him. 'Twas the first play he practised on mortality; and as time hath rendred him more perfect in the Art, so hath the inveterateness of his malice more ready in the execution. 'Tis therefore the soveraign degree of folly, and a crime not only against God, but also our own reasons, to expect a favour from the devil; whose mercies are more cruel than those of Polyphomus; for he devours his Favourites first, and the nearer a man approacheth, the sooner he is scorched by Moloch. In brief, his favours are deceitful and double-headed, he doth apparent good, for real and convincing evil after it; and exalteth us up to to the top of the Temple, but to tumble us down from it.

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CHAP. XIV.

Of the death of Aristotle.

That Aristotle drowned himself in Euripus, as despairing to resolve the cause of its reciprocation, or ebb and flow seven times a day, with this determination, Siquidem ego non capio te, tu capies me, was the Assertion of Procopius, Nazianzen, Justin Martyr, and is generally believed amongst us. Wherein, because we perceive men have but an impersect knowledge, some conceiving Euripus to be a River, others not knowing where, or in what part to place it, we first advertise, it generally signifieth any strait, fret, or channel of the Sea, running between two Shores, as Julius Pollux hath defined it; as we read of Euripus Hellespontiachus, Pyrrhaus; and this whereof we treat, Euripus Euboicus or Chalcidicus, that is, a narrow passage of Sea dividing Atrica, and the Island of Eubaa, non called Golfo de Negroponte, from the name of the Island and chief City thereof; samousin the Wars of Antiochus, and taken from the Venetians by Mahomet the Great.

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Now that in this Euripe or fret of Negropont, and upon the occasion mentioned, Aristotle drowned himself, as many affirm, and almost all believe, we have some room to doubt. For without any mention of this, we finde two waies delivered of his death by Diogenes Laertius, who express treatest thereof; the one from Eumolus and Phavorinus, that being accused of impiety for composing an Hymn unto Hervius (upon whose Concubine he begat his son Niehomachus) he withdrew into Chalcis, where drinking poyson, he died; the Hymn is extant in Laertius, and the sistenth book of Arbenaus. Another by Apollodorus, that he died at Chalcis of a natural death, and languishment of stomach, in his sixty three, or great Climacterical year, and answerable hereto is the account of Suidus and Censorinus. And if that were clearly made out, which Rabbi ben foseph affirmeth, he found in an Egyptian book of Abraham Sapiens Perizol; that Aristotle acknowledged all that was written in the Law of Moses, and became at last a Proselyte; it would also make improbable this received way of his death.

Again, befide the negative of Authority; it is also deniable by reason; nor will it be easie to obtrude such desperate attempts upon Aristorie, from unsatisfaction of reason, who so often acknowledged the imbecillity thereof. Who in matters of difficulty, and such which were not without abstrustities, conceived it sufficient to deliver conjecturalities. And surely, he that could sometimes sit down with high improbabilities, that could content himself, and think to satisfie others, that the variegation of birds was from their living in the Sun, or erection made by deliberation of the Te-

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Ricles; would not have been dejected unto death with this. He was fo well acquainted with note, and worspow acrum, and An Quia, as we observe in the Queries of his Problems: which is as and the To work, fortalle and plerumque, as is observable through all his Works; had certainly rested with probabilities, and glancing conjectures in this: Nor would his resolutions have ever run into that mortal Antanaclasis, and desperate piece of Rhetorick, to be comprized in that he could not comprehend. Nor is it indeed to be made out he ever endeavoured the particular of Euripus, or so much as to resolve the ebb and flow of the Sea. For, as Vicomercatus and others observe, he math made no mention hereof in his Works, although the occasion present it self in his Meteors: wherein he disputeth the affe-Stions of the Sea; nor yet in his Problems, although in the twenty third Section, there be no less than one and forty Queries of the Sea. Some mention there is indeed in a work of the propriety of Elements, ascribed unto Ariffetle, which notwithflanding is not reputed genuine, and was perhaps De placitis

the same whence this was urged by Plutarch.

Lastly, the thing it felf whereon the opinion dependeth, that is, the variety of the flux and the reflux of Euripus, or whether the same do ebb and How feven times a-day, is not incontrovertible. For though Pomponius Mela, and after him Solinns and Pliny have affirmed it, yet I observe Thucydides, who speaketh often of Enbea, had omitted it. Pansanius an antient Writer, who hath left an exact description of Greece, and in as particular a way as Leandro of Italy, or Cambden of great Brittain describing not only the Countrey, Towns, and Rivers, but Hills, Springs, and Houses hath left no mention hereof. Afchines in Cresiphon only alludeth unto it; and Strobo that accurate Geographer speaks warily of it, that is, we past, and as men commonly reported. And so doth also Maginus, Velocis as varii fluctus est mare ubiquater in die, aut sipties, ut alii dicunt, reciprocantur astus. Botero more plainly, Il mar cresce e cala con un impeto mirabile quam tra volte il di, ben che communimente si dica sette volte, &c. This Sea with wondrous impetuofity ebbeth and floweth four times a day, although it be commonly faid feven times, and generally opinioned, that Aristotle despairing the reason, drowned himself therein. In which description by four times a day, it exceeds not in number the motion of other Seas, taking the words properly, that is, twice ebbing and twice flowing in four and twenty hours. And is no more than what Thomaso Porrebacci affirmeth in his description of famous Islands, that twice a-day it hath such an impetuous flood, as is not without wonder, Livy speaks more particularly, Haud facile infestior classe statio est & fretum insum Euripi, non septies die (sieut fama fert) temporibus certis recifrocat, fed temere in modum venti, nunc buc, nunc illuc ver o mari, velut monte pracipiti devolutus terrens rapitur. There is hardly a worse harbour, the fret or channel of Euripus not certainly ebbing or flowing feven times a day, according to common report; but being succertainly, and in the manner of a winde carried hither and thither, is Eee 2

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whirled away as a torrest down a hill. But the experimental testimony of Gilling is most considerable of any, who having beheld the course thereof, and made enquiry of Millers that dwelt upon its shore, received answer, that it ebbed and flowed four times a day, that is, every fix hours, according to the Law of the Ocean; but that indeed sometimes it observed not that certain course. And this irregularity, though seldome happening, together with its unruly and tumultuous motion, might afford a beginning unto the common opinion. Thus may the expression in Cteffphon be made out : And by this may Aristocle be interpreted, when in his Problems he feems to borrow a Metaphor from Euripur: while in the five and twentieth Section he enquireth, why in the upper parts of houses the air doth Euripize,

that is, is whirled hither and thither.

Now that which gave life unto the affertion, might be his death at Chalcis, the chief City of Eubea, and seated upon Enripms, where 'tis confessed by all he ended his daies. That he emaciated and pined away in the too anxious enquiry of its reciprocations, although not drowned therein, as Rhodiginus relateth, some conceived, was a half confession thereof not justifiable from Antiquity. Surely the Philosophy of flux and reflux was yery imperfect of old among the Greeks and Latins; nor could they hold a fufficient Theory thereof, who only observed the Mediterranean, which in some places hath no ebb, and not much in any part. Nor can we affirm our knowledge is at the height, who have now the Theory of the Ocean and narrow Seas befide. While we refer it unto the Moon, we give fome fatisfaction for the Ocean, but no general falve for Greeks, and Seas which know no flood; nor resolve why it flows three or four foot at Penice in the bottom of the Gulf, yet scarce at all at Ancono, Durazzo, or Corcyra, which lye but by the way. And therefore old abstrusties have caused new inventions; and some from the Hypothests of Copernious, or the Diurnal and annual motion of the earth, endeavour to falve the flows and motions of these Seas, illustrating the same by water in a boal, that rising or falling to either fide, according to the motion of the veffel; the conceit is ingenuous, salves some doubts, and is discovered at large by Galileo.

But whether the received principle and underiable action of the Moon may not be fill retained, although in some difference of application, is yet to be perpended; that is, not by a simple operation upon the surphace or superiour parts, but excitation of the nitro-sulphureous spirits, and parts disposed to intumescency at the bottom; not by attenuation of the upper part of the Sea, (whereby Ships would draw more water at the flow than at the ebb) but inturgescencies caused first at the bottom, and carrying the upper part before them: fubfiding and falling again, according to the motion of the Moon from the Meridian, and languor of the exciting cause: and therefore Rivers and Lakes who want these fermenting parts at the in some Estua- bottom, are not excited unto affuations, and therefore some Seas flow higher than others, according to the plenty of these spirits, in their sub-

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Reg Bat.dottif. Cabeus Met. 3. How the Moon may cause the ebbing and flowing of Sea. Why Rivers and Lakes cbb and flow net. Why fome Scas flow higher than others, and continue longer; Whence the violent flows preceed ries and Ri-MCIS.

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marine constitutions. And therefore also the periods of flux and reflux are various, nor their encrease or decrease equal: according to the temper of the terreous parts at the bottom: who as they are more hardly or eafily moved, do variously begin, continue or end their intumescencies.

From the peculiar disposition of the earth at the bottom, wherein quick excitations are made, may arise those Agars and impetuous flows in some æstuaries and Rivers, as is observable about Trent and Humber in England, which may also have some effect in the boilterous tides of Euripus, not only from ebullitions at the bottom, but also from the fides and lateral parts, driving the streams from either side, which arise or fall according to the motion in those parts, and the intent or remiss operation of the first exciting causes, which maintain their activities above and below the Horizon: even as they do in the bodies of plants and animals, and in the commotion of Catarrhes.

However therefore Ariftotle died, what was his end, or upon what occasion, although it be not altogether assured; yet that his memory and worthy name shall live, no man will deny, nor grateful Scholar doubt : and if according to the Elegie of Solon, a man may be only faid to be happy after he is dead, and ceaseth to be in the visible capacity of beatitude, or if according unto his own Ethicks, fense is not effential unto felicity, but a man may be happy without the apprehension thereof; furely in that sense he is pyramidally happy; nor can he ever perish but in the Euripe of Ignorance, or till the Torrent or Barbariim overwhelm all.

A like conceit there passeth of Melifigines alias Homer, the Father Poet, that he pined away upon the Riddle of the Fishermen. But Herodrew who wrote his life, hath cleared this point; delivering, that passing from Samos unto Athens, he went fick ashore upon the Island Jas, where he died, and was solemnly interred upon the Sea side; and so decidingly concludeth, Ex boc agritudine extremum diem claust Homerus in fo, non, Homers Death. nt arbitrantur aliqui, Auigmitatis perplexitate enectus, sed morbo.

are only feated, which parrake not of the nerves of guilation, or appertrining unto tapor, but receive them only from the fixth pair; whereas the nerves of taffe descend from the third and tourth propagations, and to diffale themselves must be tongue. And therefore Croves, Berns and Swans mye no advantage in telle payond Hawks, Kites, and others of fronte

contrivance of necks, but rather unto the parts contained, the composine of the reflect the body, and the manner whereby they feed. I has aircraft of lone Jegs, have canarally long nacks; that is, for the conveniency of , TAHO, as having a merellity to apply their mouths unto the earth. So the Elephant who in-defect thereof is furnished with a Trank, without which to could not attain the ground. So have Cranes, Herns, Storks and Shove-

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of the wish of Philoxenus.

Hat relation of Aristotle, and conceit generally received concerning Philoxenus, who witheth the neck of a Crane, that thereby he might take more pleasure in his meat, although it pass without exception, upon enquiry I find not only doubtful in the ftory, but abfurd in the defire or reason alledged for it. For though his wish were such as is delivered, yet had it not perhaps that end, to delight his gust in eating, but rather to obtain advantage thereby in finging, as is declared by Mirandula. Ariffotle (faith he) in his Ethicks and Problems, acquieth Philoxenus of fentuality, for the greater pleasure of gust desiring the neck of a Crane; which desire of his, affenting unto Aristotle, I have formerly condemned: But since I perceive that Aristotle for this accusation hath been accused by divers Writers. For Philoxenus was an excellent Musician, and defired the neck of a Crane, not for any pleasure at meat, but fancying thereby an advantage in finging or warbling, and dividing the notes in mufick. And many Writers there are which mention a Musician of that name, as Plutarch in his book against Usury, and Aristotle himself in the eighth of his Politicks, speaks of one Philoxenus a Musician, that went off from the Dorick Dytherambicks unto the Phrygian Harmony.

Again, be the flory true or false, rightly applyed or not, the intention is not reasonable, and that perhaps neither one way nor the other. For if we rightly confider the organ of tafte, we shall finde the length of the neck to conduce but little unto it. For the tongue being the instrument of taste, and the tip thereof the most exact distinguisher it will not advantage the gust to have the neck extended; wherein the Gullet and conveying parts are only feated, which partake not of the nerves of gustation, or appertaining unto sapor, but receive them only from the fixth pair; whereas the nerves of tafte descend from the third and fourth propagations, and so diffuse themselves into the tongue. And therefore Cranes, Herns and Swans have no advantage in taste beyond Hawks, Kites, and others of shorter

necks. Nor, if we confider it, had nature respect unto the taffe in the different contrivance of necks, but rather unto the parts contained, the composure of the rest of the body, and the manner whereby they feed. Thus animals of long legs, have generally long necks; that is, for the conveniency of feeding, as having a necessity to apply their mouths unto the earth. So have Horses, Camels, Dromedaries long necks, and all tall animals, except the Elephant, who in defect thereof is furnished with a Trunk, without which he could not attain the ground. So have Cranes, Herns, Storks and

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Shovelards long necks: and so even in man, whose figure is erect, the length of the neck followeth the proportion of other parts: and fuch as have round faces or broad chefts and shoulders, have very seldome long necks. For, the length of the face twice exceedeth that of the neck, and the space betwixt the throat-pit and the navel, is equal unto the circumference thereof. Again, animals are framed with long necks, according unto the course of their life or feeding : so many with short legs have long necks, because they feed in the water, as Swans, Geese, Pelicans, and other fin-footed animals. But Hawks and birds of prey have short necks and truffed legs; for that which is long, is weak and flexible, and a shorter figure is best accommodated unto that intention. Lastly, the necks of animals do vary, according to the parts that are contained in them, which are the weazen and the gullet. Such as have no weazen and breath not, have scarce any neck, as most forts of fishes; and some none at all, as all forts of pectinals, Soals, Thornback, Flounders; and all crustaceous animals, as Crevises, Crabs and Lobsters.

All which confidered, the Wish of Philoxenus will hardly confist with reason. More excusable had it been to have wished himself an Ape, which if common conceit speak true, is exacter in taste than any. Rather some kind of granivorous bird than a Crane, for in this sense they are so exquisite, that upon the first peck of their bill, they can diffinguish the qualities of hard bodies; which the sense of man discerns not without mastication. Rather some ruminating animal, that he might have eat his meat twice over, or rather, as Theophilus observed in Atheneus, his desire had been more reasonable, had he wished himself an Elephant, or an Horse; for in these animals the appetite is more vehement, and they receive their viands in large and plenteous manner. And this indeed had been more suitable, if this were the same Philoxenus whereof Plutarch speaketh, who was so uncivilly greedy, that to engross the messe, he would preventively deliver

As for the musical advantage, although it seem more reasonable, yet do we not observe that Cranes and birds of long necks have any musical, but harsh and clangous throats. But birds that are canorous, and whose notes we most commend, are of little throats and short necks, as Nightingales, Rinches, Linnets, Canary birds and Larks. And truly, although the weazon, throat and tongue be the instruments of voice, and by their agitations do chiefly concur unto these delightful modulations, yet cannot we assign the cause unto any particular formation; and I perceive the best thereof, the Nightingale, hath some disadvantage in the tongue, which is not accuminate and pointed as in the rest, but seemeth as it were cut off, which perhaps might give the hint unto the sable of Philomela, and the cutting off her tongue by Terens.

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Oncerning the Lake Asphaltites, the Lake of Sodom, or the dead Sea, that heavy bodies cast therein, sink not, but by reason of a salt and bituminous thickness in the water float and swim above, narrations already made are of that variety, we can hardly from thence deduce a fatisfactory determination; and that not only in the story it felf, but in the cause alledged. As for the story, men deliver it variously; some I fear too largely; as Pliny, who affirmeth that bricks will swim therein. Mandevil goeth further, that iron swimmeth, and feathers sink. Munster in his Cosmography hath another relation, although perhaps derived from the Poem of Tertullian, that a candle burning swimmeth, but if extinguished, finketh. Some more moderately, as Fofephus, and many other: affirming only that living bodies float, nor peremptorily averring they cannot fink, but that indeed they do not easily descend. Most traditionally, as Galen, Pliny, Solinus and Strabo, who feems to mistake the Lake Serbonis for it. Few experimentally, most contenting themselves in the experiment of Vespasian, by whose command some captives bound were cast therein, and found to float as though they could have swimmed: divers contradictorily, or contrarily, quite overthrowing the point. Aristotle in the second of his Meteors speaks lightly thereof, we wis purson which word is variously rendred, by fome as a fabulous account, by fome as a common talk. Biddulphus dividerh the common accounts of Indea into three parts, the one, faith he, are apparent truths, the fecond apparent fallhoods, the third are dubious, or between both; in which form he ranketh the relation of this Lake. But Andrew Thevet in his Cosmography doth ocularly overthrow it; for he affirmeth he faw an Ass with his Saddle cast therein, and drowned. Now of these relations so different or contrary unto each other, the second is most moderate and fafest to be embraced, which faith, that living bodies swim therein, that is, they do not eafily fink : and this, until exact experiment further determine, may be allowed, as best confistent with this quality, and the reasons alledged for it.

As for the cause of this effect, common opinion conceives it to be the salt and bituminous thickness of the water. This indeed is probable, and may be admitted as far as the second opinion concedeth. For certain it is, that salt-water will support a greater burden than fresh; and we see an egg will descend in salt water, which will swim in brine. But that iron should float therein, from this cause is hardly granted; for heavy bodies will only swim in that liquor, wherein the weight of their bulk exceedeth not the weight of so much water as it occupyeth or taketh up. But surely no water is

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heavy enough to answer the ponderosity of iron, and therefore that metal will sink in any kind thereof, and it was a perfect Miracle which was wrought this way by Elisha. Thus we perceive that bodies do swim or sink in different liquors, according unto the tenuity or gravity of those liquors which are to support them. So falt water beareth that weight which will sink in vineger, vineger that which will fall in fresh water, fresh water that which will sink in spirits of Wine, and that will swim in spirits of Wine, which will sink in clear oyl; as we made experiment in Globes of wax pierced with light sticks to support them. So that although it be conceived an hard matter to sink in oyl, I believe a man should find it very difficult, and next to slying, to swim therein. And thus will Gold sink in Quick-silver, wherein iron and other metals swim; for the bulk of Gold is only heavier than that space of Quick-silver which it containeth: and thus also in a solution of one ounce of Quick-silver in two of Aqua-fortis, the liquor will bear Amber, Horn, and the softer kinds of stones, as we have made tryahin each.

But a private opinion there is which crosseth the common conceit maintained by some of late, and alledged of old by Serabo, that the floating of bodies in this Lake proceeds not from the thickness of the water, but a bituminous ebullition from the bottom, whereby it wasts up bodies injected, and suffereth them not easily to sink. The verity thereof would be enquired by ocular exploration, for this way is also probable. So we observe, it is hard to wade deep in baths where springs arise; and thus sometime are

balls made to play upon a spouting stream.

And therefore, until judicious and ocular experiment confirm or diffinguish the affertion, that bodies do not fink herein at all, we do not yet believe; that they not eafily, or with more difficulty descend in this than other water, we shall readily affent. But to conclude an impossibility from a difficulty, or affirm whereas things not eafily fink, they do not drown at all; befide the fallacy, is a frequent addition in humane expression, and an amplification not unufual as well in opinions as relations; which oftentimes give indiffinet accounts of proximities, and without reftraint transcend from one another. Thus, forafmuch as the torrid Zone was conceived exceeding hot, and of difficult habitation, the opinions of men to advanced its conftition, as to conceive the fame unhabitable, and beyond possibility for man to live therein. Thus, because there are no Wolves in England, nor have been observed for divers generations, common people have proceeded into opinions, and some wife men into affirmations, they will not live therein, although brought from other Countreys. This most men affirm, and few here will believe the contrary, that there be no Spiders in Ireland; but we have beheld fome in that Countrey; and though but few, some Cob-webs we behold in Irish wood in England. Thus the Crocodile from an egg growing up to an exceeding magnitude, common conceit, and divers Writers

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BOOK VIII.

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deliver, it hath no period of encrease, but groweth as long as it liveth. And thus in brief, in most apprehensions the conceits of men extend the confiderations of things, and dilate their notions beyond the propriety of their natures, according time the tentiley of gravity of the estate which are to support them. So salt water, beatsthelliar weight which are

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an hard matter to fink in cyly I believe a men front line it very deficate. Of divers other Relations, I or grayll or usen bas every supercon iron and prince merals from a for the bulk of the de-is of

1. The relation of Averroes, and now common in every mouth, of the woman that conceived in a bath, by attracting the sperm or seminal effluxion of a man admitted to bath in some vicinity unto her, I have scarce faith to believe; and had I been of the Jury, should have hardly thought I had found the father in the person that stood by her. 'Tis a new and unseconded way in History to fornicate at a distance, and much offendeth the rules of Physick, which say, there is no generation without a joynt emission. nor only a virtual, but corporal and carnal contaction. And although Art Storle and his adherents cut off the one, who conceive no effectual ejaculation in women, yet in defence of the other, they cannot be introduced. For, if as he delivereth, the inordinate longitude of the organ, though in its proper recipient, may be a means to improlificate the feed; furely the distance of place, with the commixture of an aqueous body, must prove an effectual impediment, and utterly prevent the fuccess of a conception. And therefore that conceit concerning the daughters of Lat, that they were impregnated by their fleeping father, or conceived by feminal pollution received at diffance from him, will hardly be admitted. And therefore what Generations by is related of devils, and the contrived delutions of spirits; that they fleat the feminal emissions of man, and transmit them into their votaties vin coition, is much to be suspected, and altogether to be denied, that there ensue conceptions thereupon; however husbanded by Art, and the wifeff menagery of that most subtile impostor. And therefore also that our magnified Merlin was thus begotten by the devil, is a groundless conception; and as vain to think from thence to give the reason of his prophetical spirit. For if a generation could succeed, yet should not the iffue inherit the faculties of the devil, who is but an Auxiliary, and no univocal Actor; nor will his nature fubftantially concur to fuch productions.

And although it feems not impossible, that impregnation may succeed from feminal spirits, and vaporous irradiations containing the active principle, without material and gross emissions; as it happeneth sometimes in

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imperforated perfons, and rare conceptions of some much under puberty or tourteen. As may be also conjectured in the coition of some insects, wherein the female makes intrusion into the male; and as some would have it, from the continued occasion in Hens, from one single tread of a Cock, and little stock laid up near the vent, sufficient for durable prolification; yet will not the same suffice to support the story in question, wherein no corpulent emission is acknowledged, answerable unto the fable of the Talmudifie, in the story of Benzira, begotten in the same manner on the

daughter of the Prophet Feremie.

2. The Relation of Lucillius, and now become common, concerning Craffus the Grandfather of Marcus the Wealthy Romane, that he never laughed but once in all his life, and that was at an Afle eating thiftles, is comething strange. For, if an indifferent and unridiculous object could draw his habitual austereness unto a smile; it will be hard to believe he could with perpetuity refift the proper motives thereof. For the Act of Laughter, Laughter, which is a fweet contraction of the muscles of the face, and a what kind of pleasant agitation of the vocal Organs, is not meetly voluntary, or totally Pallion it is. within the jurisdiction of our felves: but as it may be constrained by corporal contaction in any, and hath been enforced in some even in their death, to the new unufual or unexpected jucundities, which prefent themselves to any man in his life, at some time or other will have activity enough to excitate the earthiest foul, and raise a smile from most composed rempers. Certainly the times were dull when these things hapned, and the wits of those Ages short of these of ours; when men could maintain such immutable faces, as to remain like flatues under the flatteries of wit, and perfift unalterable as all efforts of Jocularity. The spirits in hell, and Pinco him-felf, whom Lacian makes to laugh at passages upon earth, will plainly condemn these Saturnines, and make ridiculous the magnified Heraclitus, who wept prepofteroully, and made a hell on earth; for rejecting the confolations of life, he passed his daies in tears, and the uncomfortable attendments of hell.

3. The same conceit there passeth concerning our blessed Saviour, and is fometimes urged as an high example of gravity. And this is opinioned, because in holy Scripture it is recorded he sometimes wept, but never that he laughed. Which howfoever granted, it will be hard to conceive how he passed his younger years and childhood without a smile, if as Divinity affirmeth, for the affurance of his humanity unto men, and the concealment of his Divinity from the devil, he passed this age like other children, and so proceeded untill he evidenced the fame. And furely herein no danger there is to affirm the act or performance of that, whereof we acknowledge the power and effential property; and whereby indeed he most nearly con-vinced the doubt of his humanity. Nor need we be assaud to ascribe that unto the incarnate Son, which cometimes is attributed unto the uncarnate Fa-

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ther; of whom it is faid, He that dwelleth in the Heavens, shall laugh the wicked to scorn. For a laugh there is of contempt or indignation, as well as of mirth or Jocosity; And that our Saviour was not exempted from the ground hereof, that is, the passion of anger, regulated and rightly ordered by Reason, the schools do not deny; and besides the experience of the money-changers and Dove-sellers in the Temple, is testifyed by St. John, when he

Zelus domus faith, the speech of David was fulfilled in our Saviour.

Now the Alogie of this opinion confifteth in the illation; it being not reasonable to conclude from Scripture negatively in points which are not matters of faith, and pertaining unto Salvation. And therefore although in the description of the creation there be no mention of fire, Christian Philosophy did not think it reasonable presently to annihilate that element, or positively to decree there was no such thing at all. Thus whereas in the brief Narration of Moles there is no record of wine before the flood, we cannot satisfactorily conclude that Noah was the first that ever tasted thereof. And thus because the word Brain is scarce mentioned once, but Heart above an hundred times in holy Scripture; Physicians that dispute the principality of parts, are not from hence induced to bereave that animal Organ of its pricrity. Wherefore the Scriptures being ferious, and commonly omitting fuch Parergies, it will be unreasonable from hence to condemn all laughter, and from confiderations inconfiderable to discipline a man out of his nature. For this is by a ruftical feverity to banish all urbanity, whose harmless and confined condition, as it flands commended by morality, so is it confishent with Religion, and doth not offend Divinity.

Only in the vulgar Latine. Jung. 9.53.

tue comedit me.

4. The custome it is of Popes to change their name at their creation: and the Author thereof is commonly faid to be Bocca di porco, or swines face; who therefore assumed the stile of Sergins the second, as being ashamed so foul a name should dishonout the chair of Peter; wherein notwithstanding, from Montacutius and others I find there may be some mistake. For Massonins who writ the lives of Popes, acknowledgeth he was not the first that changed his name in that Sea; nor as Platina affirmeth, have all his Successors precisely continued that custome; for Adrian the fixth, and Marcellus the fecond, did ftill retain their Baptismal denominations. Nor is it proved, or probable, that Sergine changed the name of Bocca di Porso, for this was his firname or gentilitious appellation: nor was it the custome to alter that with the other; but he commuted his Christian name Peter for Sergins, because he would seem to decline the name of Peter the second. A scruple, I confess, not thought considerable in other Seas, whose Originals and first Patriarchs have been less disputed; nor yet perhaps of that reality as to prevail in points of the same nature. For the names of the Apostles, Patriarchs and Prophets have been assumed even to affectation; the name of Jesus hath not been appropriate, but some in precedent ages have born that name, and many fince have not refused the Christian 46

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Christian name of Emanuel. Thus are there few names more frequent than Moses and Abraham among the Jews; The Turks without scruple affect the name of Mahomes, and with gladness receive so honourable cognomi-

And truly in humane occurrences there ever have been many well directed intentions, whose rationalities will never bear a rigid examination, and though in some way they do commend their Authors, and such as first began them, yet have they proved infufficient to perpetuate imitation in fuch as have succeeded them. Thus was it a worthy resolution of Godfrey, and most Christians have applauded it, That he refused to wear a Crown of gold, where his Saviour had worne one of thorns. Yet did not his Succeffors durably i therit that scruple, but some were anointed, and solemnly accepted the Diadem of regality. Thus Julius, Augustus, and Tiberius, with great humility or popularity refused the name of Imperator, but their Successors have challenged that title, and retain the same even in its titularity. And thus to come nearer our subject, the humility of Gregory the Great, would by no means admit the stile of universal B.shop, but the ambition of Boniface made no scruple thereof, nor of more queasie resolutions.

have been their Successors ever fince.

5. That Tamerlane Was a Scythian Shepherd, from M. Knolls and others, Turkiff His from Albazen a learned Arabian who wrote his life, and was Spectator of ftory. many of his exploits, we have reason to deny. Not only for his birth, for he was of the blood of the Tartarian Emperors, whose father Og had for his possession the Countrey of Sagathy; which was no slender Territory, but comprehended all that tract wherein were contained Ractriana, Sogdiana, Margiana, and the Nation of the Massagetes, whose capital City was Samarcand; a place though now decaid, of great esteem and trade in former ages. But from his regal Inauguration, for it is faid, that being about the age of fifteen, his old father refigned the Kingdom, and men of War unto him. And also from his education, for as the story speaks it, he was instructed in the Arabian learning, and afterward exercised himself therein. Now Arabian learning was in a manner all the liberal Sciences, especially the Mathematicks, and natural Philosophy, wherein not many Ages before him there flourished Avicenna, Averroes, Avenzoar, Geber, Almanzor, and Albazen, cognominal unto him that wrote his History, whose Chronologie indeed, although it be obscure, yet in the opinion of his Commentator, he was contemporary unto Avicenna, and hath left fixteen books of Opticks, of great esteem with ages past, and textuary unto our daies.

Now the ground of this mistake was surely that which the Turkish hiftorian declareth. Some, faith he, of our historians will needs have Tamerlane to be the fon of a Shepherd. But this they have faid, not knowing at all the custome of their Countrey; wherein the principal Revenews of the King and Nobles confifteth in cattel; who despising gold and filver, abound

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in all forts thereof. And this was the occasion that some men call them Shepherds, and also affirm this Prince descended from them. Now, if it be reasonable, that great men whose possessions are chiefly in cattel, should bear the name of Shepherds, and fall upon so low denominations; then may we say that Abraham was a Shepherd, although too powerful for four Kings: that Fob was of that condition, who befide Camels and Oxen, had feven thousand sheep: and yet is said to be the greatest man in the East. Thus was Melha King of Moab a Shepherd, who annually paid unto the Crown of Ifrael, an hundred thouland lambs, and as many Rams. Surely it is no dishonourable course of life which Moses and Facob have made exemplary: 'tis a profession supported upon the natural way of acquisition, and though contemned by the Agyptians, much countenanced by the Hebrews, whose facrifices required plenty of Sheep and Lambs. And certainly they were very numerous; for, at the confectation of the Temple, befide two and twenty thousand Oxen, King Solomon sacrificed an hundred and twenty thousand theep, and the same is observable from the daily provision of his house: which wax ten fat Oxen, twenty Oxen out of the pastures, and an hundred Sheep, befide row-buck, fallow-deer, and fatted Fowls. Wherein Description of notwithstanding (if a punctual relation thereof do rightly inform us) the Grand Seignior doth exceed: the daily provision of whose Seraglio in the Reign of Achmer, befide Beeves, confumed two hundred sheep; lambs and kids when they were in feafon one hundred; calves ten; geefe fifty; hens of the Scraglio, two hundred; chickens one hundred; pidgeons an hundred pair.

the Turkifla Seraglio, fince printed. The daily provision

And therefore this mistake concerning the Noble Tamerlane, was like that concerning Demosthenes, who is faid to be the Son of a Black-fmith, according to common conceit, and that handlome expression of Juvenal.

Quem pater ardentis massa fuligine lippus, A carbone & forcipibus, gladiolg; parante Incude, & luteo Fulcano ad Rhetora mifit.

But Pintarch who wit his life, hath cleared this conceit, plainly affirming he was most nobly descended, and that this report was raised, because his father had many flaves that wrought Smiths work, and brought the profit gre indeed, almongo it be obtine, yearn the opinion of his Commentator,

he was contemporary unto Anternanand harble it factors books of Opricas,

Now the ground of this midalic was furely that which the Turkelin di-

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King and Nobles confifted in carel , who despiling gold and filver, abound

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mor a the magazine one man noon another, for the fame befel and Todaw moved more of fome Others.

I. IXI E are fad when we read the flory of Belifarine that worthy Chieftain of Justinian, who, after the victories of Vandals, Goths, Perfians, and his Trophies in three parts of the World, had at last his eyes put out by the Emperour, and was reduced to that diffress, that he begged relief on the high way, in that uncomfortable petition, Date obolum Belifario. And this we do not only hear in Discourses, Orations and Themes, but find it also in the leaves of Petrus Crinitus, Volaterranus and other worthy Writers.

But, what may somewhat consolate all men that honour virtue, we do not discover the later Scene of his misery in Authors of Antiquity, or such as have expressly delivered the story of those times. For, Snidas is filent herein, Cedrenus and Zonarus, two grave and punctual Authors, delivering only the confiscation of his goods, omit the history of his mendication. Panlus Diaconus goeth farther, not only passing over this act, but affirming his goods and dignities were restored. Agarbius who lived at the same time, declareth he suffered much from the envie of the Court : but that he de- 'Avex Joros or scended thus deep into affliction, is not to be gathered from his pen. The Arcana historia. same is also omitted by Procopius a contemporary and professed enemie unto Justinian and Besissarius, who hath left an opprobrious book against them both.

And in this opinion and hopes we are not fingle, but Andreas Alciatus the Civilian in his Parerga, and Franciscus de Cordua in his Didasealia, have both declaratorily confirmed the same, which is also agreeable unto the judgement of Nicolaus Alemannus, in his notes upon that bitter history of Proceeding. Certainly fad and Tragical stories are seldome drawn within the circle of their verities; but as their Relators do either intend the hatred or pity of the persons, so are they set forth with additional amplifications. Thus have some suspected it hath hapned unto the story of Oedipus; and thus do we conceive it hath fared with that of Indar, who having finned beyoud aggravation, and committed one villary which cannot be exasperated by all other; is yet charged with the murther of his reputed brother, parricide of his father, and incest with his own mother, as Florilegus or Matthen of Westminster hath at large related. And thus hath it perhaps betallen the noble Belifarius, who, upon instigation of the Empress, having contrived the exile, and very hardly treated Pope Serverius; Latine pens, as a judgement of God upon this fact, have fet forth his future sufferings : and

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omitting nothing of amplification, they have also delivered this: which notwithstanding Johannes the Greek, makes doubtful, as may appear from his Jambicks in Baronius, and might be a mistake or misapplication: translating the affliction of one man upon another, for the same befel unto Johannes Cappadox, contemporary unto Belifarius, and in great savour with Justinian; who being afterward banished into Egypt, was sain to beg relief on the high way.

2. That fluctus Decumanus, or the tenth wave is greater and more dangerous than any other, some no doubt will be offended if we deny; and hereby we shall seem to contradict Antiquity; for, answerable unto the literal and common acception, the same is averted by many Writers, and

plainly described by Ovid.

Qui venit hic fluctus, fluctus supereminet omnes,

Which notwithstanding is evidently salse; nor can it be made out by observation, either upon the shore or the Ocean, as we have with disigence explored in both. And surely in vain we expect a regularity in the waves of the Sea, or in the particular motions thereof, as we may in its general reciprocations, whose causes are constant; and effects therefore correspondent. Whereas its sluctuations are but motions subservient; which winds, storms, shores, shelves, and every interjacency irregulates. With semblable reason we might expect a regularity in the winds; whereof though some be statary, some anniversary, and the rest do tend to determinate points of Heaven, yet do the blasts and undulary breaths thereof maintain no certainty in their course: nor are they numerally seared by Navigators.

Of affinity hereto is that conceit of Ovum Decumanum, so called, because the tenth egg is bigger than any other, according unto the reason alledged by Festus, Decumana eva dicuntur, quia evum decimum majus nascitur. For the honour we bear unto the Clergie, we cannot but wish this true; but herein will be found no more of verity than in the other: and surely sew will assent hereso without an implicite credulity, or Pythago-

rical submission unto every conception of number.

For, surely the conceit is numeral, and though not in the sense apprehended, relateth unto the number of ten, as Franciscus Sylvius hath most probably declared. For, whereas amongst simple numbers or digits, the number of ten is the greatest: therefore whatsoever was the greatest in every kind, might in some sense be named from this number. Now, because also that which was the greatest, was metaphorically by some at first called Decumanus; therefore whatsoever passed under this name, was literally conceived by others to respect and make good this number.

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NI STATE OF THE ST ore dans e out by disigence he waves eneral re-torrespon-tick winds, With sea-of though enerminant maintain tog Navialled, he reason is major as-t with to ther: at Pythap 0 ति द्वार जिल्हा ते व्यास्ति । जिल्हा ते व्यास्ति । जिल्हा ते व्यास्ति । 1

In you & India o in you to of Quamy in China, there is found a Stone go Head of certain Serpents (wet they call by yo name Signifying Hairy : pents) wet heals you Biling of go Same Serpent, y' clse w? lile in 24 This Stone is round, white inge middle , palty edges blew or greenish to applied to you wound, it address to it of it tell, p falls not of, but after Jacket y ? Poison: Then they wash it in milk, wherein its left a while Care; a il return to its natural Odihon. It is a rare stone, for if it let 2? home upon you wound, p stick to it, his a sign it had not such a Venom during 3° first application; but it it stick who, his a Man all yo Payson was drawn out at first. P Frans. ho 6

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The conceit is also Latine; for the Greeks to express the greatest wave, do afe the number of three, that is, the word reixulia, which is a concurrence of three waves in one, whence arose the proverb Tpixuusa kaxav, or a trifluctuation of evils, which Erasmus doth render Majorum fluctus Deenmanus, And thus, although the terms be very different, yet are they made to fignifie the felf-fame thing; the number of ten to explain the number of three, and the fingle number of one wave, the collective concurrence of

3. The poylon of Parylatis, reported from Cresias by Plutarch in the life of Artaxerxes, whereby anointing a knife on the one fide, and therewith dividing a bird; with the one half the poyloned Statira, and fafely fed her felf on the other, was certainly a very fubtil one, and fuch as our ignorance is well content it knows not. But furely we had discovered a poylon that would not endure Pandsraes box, could we be fatisfied in that which for its coldness nothing could contain but an Asses hoof, and therewith some report that Alexander the great was poyloned. Had men derived to ftrange an effect from fome occult or hidden qualities, they might have filenced contradiction; but afcribing it unto the manifest and open qualities of cold, they must pardon our belief; who perceive the coldest and most Stygian waters may be included in glasses; and by Aristotle who faith, that glass is the perfectest work of Art, we understand they were not then to be invented.

And though it be faid that poylon will break a Venice-glass, yet have we not met with any of that nature. Were there a truth herein, it were the best Preservative for Princes and Persons exalted unto such sears; and furely far better than divers now in use. And though the best of China dishes, and fuch as the Emperour doth use, be thought by some of infallible virtue unto this effect; yet will they not, I fear, be able to elude the mischief of fuch intentions. And though also it be true, that God made all things double, and that if we look upon the works of the most High, there are two and two, one against another; that one contrary hath another, and poylon God Almighty is not without a poyfon unto it felf; yet hath the curfe fo far pre- hath created vailed, or elfe our industry defected, that poylons are better known than all things doutheir Antidotes, and some thereof do scarce admit of any. And lastly, ble. although unto every poylon men have delivered many Antidotes, and in every one is promifed an equality unto its adversary, yet down often finde they fail in their effects: Moly will not reful a weaker Cup than that of Circe: a man may be poyloned in a Lemnian dilla; without the miracle Terra Melita. of John, there is no confidence in the earth of Paul; and if it be meant thet no paylon could work upon him, we doubt the story, and expect no nd lafting convertions. fuch success from the diet of Mithridates.

A flory there passeth of an Indian King, that sent unto Alexander a fair woman fed with Aconites and other poylons, with this intent, either by Ggg

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converse or copulation complexionally to destroy him. For my part, although the defign were true, I should have doubted the success: For, though i be possible that poysons may meet with tempers whereto they may become Aliments, and we observe from fowls that feed on fishes, and others fed with garlick and onions, that simple aliments are not alwaies concocted beyond their vegetable qualities; and therefore that even after carnal convertion, poylons may yet retain fome portion of their thatures ; vet are they so refracted, cicurated and subdued, as not to make good their first and destructive malignities. And therefore the Stork that eareth Snakes. and the Stare that feedeth upon Hemlock, though no commendable aliments, are not destructive poyions. For, animals that can innoxionally digest these poysons, become antidotal unto the poyson digested. And therefore whether their breath be attracted, or their flesh ingested, the poysonous reliques go fill along with their antidote, whose society will not permit their malice to be destructive. And therefore also animals that are not mischieved by poysons which destroy us, may be drawn into Antidote against them; the blood or flesh of Storks against the venom of Serpents, the Quail against Hellebore, and the diet of Starlings against the drought of Socrates. Upon like grounds are some parts of Ammals Alexipharmacal unto others; and some veins of the earth, and also whole regions, nor only defroy the life of venomous creatures, but also prevent their productions. For though perhaps they contain the feminals of Spiders and Scorpions, and such as in other earths by suscitation of the Sun may arise unto animation; yet lying under command of their Antidote, without hope of emergencie they are poyloned in their matrix by powers eafily hindring the advance of their originals, whose confirmed forms they are able to

7. The story of the Wandring Jew is very strange, and will hardly obtain belief byet is there a formal account thereof fet down by Mutchen Paris, from the report of an American Bishop; who came into this Kingdom about four hundred years ago, and had often entertained this Wanderer at his Table. That he was then alive, was first called Carrapbilus, Vale quid no was Keeper of the Judgement Hall, whence thruffing out our Saviour with raris? Ego va- expostulation for his stay, was condemned to stay until his voturn : was after baptized by Ananias, and by the name of Fofeph; was thirty years old in the daies of our Saviour, remembred the Saints that arised with him; the making of the Apostles Creed, and their several peregrinations, Surely were this true, he might be an happy arbitrator in many Christian controverses; but must impardonably condemn the obstinacy of the Jews, who can contemn the Rhetorick of fach miracles, and blindly behold to living

and lafting convertions.

6. Clearer confirmations must be drawn for the history of Pope Foan, who succeeded Lee the fourth, and preceded Benedict the third, then many

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one fu 也如此 we yet discover. And fince it is delivered with aimst and ferant by many; fince the learned Lea Allatins hath discovered, that antient copies of Max- confutatio fatimes Polones, who is chiefly urged for it, had not this flory in it; fince bule de Josean not only the stream of Latine Historians have omitted it, but Photius the Papilla cam Patriatch, Metrophanes Smyrneus, and the exasperated Greeks have made Nibusio. no mention of it, but conceded Benedict the third Successor unto Leo the fourth, he wants not grounds that doubts it.

Many things historical which feem of clear concellion, want not affirmations and negations, according to divided pens: as is notorioully observable in the story of Hildebrand or Gregory the seventh, repugnantly de-livered by the Imperial and Papal party. In such divided records, partiality hath much depraved history, wherein if the equity of the Reader do not correct the inquiry of the Writer, he shall be much confounded with repugnancies, and often find in the same person, Numa and Nero. In things of this nature, moderation must intercede; and so charity may hope, that Roman Readers will construe many passages in Bolfech, Fayns, Schlussel- Of Luther, berg, and Coeblans.

7. Every ear is filled with the flory of Fryer Racon, that made a brazen Roz. Bacon head to speak these words, Time is, Which though there want not the like minorita. Oxrelations, is surely too literally received, and was but a mystical fable con- oriensis vir cerning the Philosophers great work, wherein he eminently laboured. Im- doctiffimus. plying no more by the copper head, than the veffel wherein it was wrought, and by the words it spake, then the opportunity to be watched about the Tempus oreus, or birth of the mystical child, or Philosophical King of Lullius: the rifing of the Ferra foliata of Arnoldus, when the earth sufficiently impregnated with the water, ascendeth white and splendent. Which not observed, the week is irrecoverably lost; according to that of Petrus Bonnes. Ibi est operis perfectio ant annihilatio; quontam ipsa die, immo hora, orienter elementa finplicia deparata, que egent statim compositione, an- pretissa. tequam volent ab igne.

Now letting flip this critical opportunity, he missed the intended treafure. Which had he obtained, he might have made out the tradition of making a bruzen wall about England. That is, the most powerful defence, and ftrongest fortification which Gold could have effected.

8. Who can but pitty the virtuous Epicurus, who is commonly conceived to have placed his chief felicity in pleasure and sensual delights, and hath ther fore left an infamous name behind him? How true, let them determine who read that he lived feventy years, and wrote more books than any Philosopher but Chrysippus, and no less than three hundred, without borrowing from any Author. That he was contented with bread and water, and when he would dine with five, and pretend unto epulation, he defired no other addition than a piece of Cytheridian cheese. That shall confider the words of Seneca, Non dice, qued perig; nostrorum, settam

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Epicuri flagitiorum magistrum esse: sed illud dico male audit infamis oft; & immerito. Or shall read his Life, his Epistles, his Testament in Laertius, who plainly names them Calumnies, which are commonly faid againft them.

The ground hereof feems a misapprehension of his opinion, who placed his felicity not in the pleasures of the body, but the mind, and tranquility thereof, obtained by wisdom and virtue, as is most clearly determined in De vita & mo- his Epiftle unto Maneceus. Now how this opinion was first traduced by the Stoicks, how it afterwards became a common belief, and so taken up by Authors of all ages, by Cicero, Plutarch, Clemens, Ambrofe and others; the learned Pen of Gaffendus hath discovered, 149 hand

ribus Epicari.

of this name, modelicon to it increase, and a castro may hope that of Later, Action Readers will could .IVX .P. AP.

More briefly of some others.

Ther relations there are, and those in very good Authors, which though we do not positively deny, yet have they not been unquestioned by fome, and at least as improbable truths have been received by others. Unto some it hath seemed incredible what Herodorus reporteth of the great Army of Xerxes, that drank whole Rivers dry. And unto the Author himfelf it appeared wondrous strange, that they exhausted not the provision of the Countrey, rather than the waters thereof. For as he maketh the account, and Budeus de Aff. correcting the mis-compute of Valla, delivereth it; if every man of the Army had had a chenix of Corn a day, that is, a fextary and half; or about two pints and a quarter, the Army had daily expended ten hundred thousand and forty Medimna's, or measures containing fix Bushels. Which rightly considered, the Abderises had reason to bless the Heavens, that Xerxes eat but one meal a day; and Pythius his noble Host, might with less charge and possible provision entertain both him and his Army. And yet may all be falved, if we take it hyperbolically, as wife men receive that expression in Fob, concerning Behemoth the Elephant; Behold, he drinketh up a River, and hasteth not, he trusteth that he can draw up fordan into his mouth.

2. That Annibal eat or brake through the Alpes with Vinegar, may be too grofly taken, and the Author of his life annexed unto Platarch affirmeth only, he used this artifice upon the tops of some of the highest mountains. For as it is vulgarly understood, that he cut a passage for his Army through those mighty mountains, it may seem incredible, not only in the greatness

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of the effect, but the quantity of the efficient : and fuch as behold them, may think an Ocean of Vinegar too little for that effect. 'Twas a work indeed rather to be expected from earthquakes and inundations, than any corrofive waters, and much condemneth the Judgement of Xerxes, that wrought through Mount Arbos with Mattocks.

3. That Archimedes burnt the thips of Marcellas, with speculums of parabolical figures, at three furlongs, or as fome will have it, at the diffance of three miles, founds hard unto reason, and artificial experience : and therefore justly questioned by Kircherus, who after long enquity, could find but one made by Manfredus Septalins that fired at fifteen paces. And therew De luce & fore more probable it is, that the thips were nearer the thore, or about umbia. some thirty paces, at which distance notwithstanding the effect was very great. But whereas men conceive the ships were more easily set on slame, by reason of the pitch about them, it seemeth no advantage. Since burningglasses will melt pitch, or make it boyl, not easily set it on fire.

4. The flory of the Fabii, whereof three hundred and fix marching against the Veientes, were all flain, and one child alone to support the family remained; is furely not to be parallel'd, nor easie to be conceived, except we can imagine, that of three hundred and fix, but one had children below the service of war; that the rest were all unmarried, or the wife but of one impregnated.

5. The received flory of Milo, who by daily lifting a Calf, attained and ability to carry it being a Bull, is a witty conceit, and handsomely sets forth the efficacy of Affuefaction. But furely the account had been more reasonably placed upon some person not much exceeding in strength, and such a one as without the affiftance of custome, could never have performed that act; which some may presume that Mile without precedent artifice or any other preparative, had strength enough to perform. For as relations declare, he was the most pancratical man of Greece, and as Gallen reporteth, and as the and Mercurialis in his Gymnasticks representeth, he was able to perfist erect upon an oyled plank, and not to be removed by the force or protrufion of three men. And if that be true which Atheneus reporteth, he was little beholding to custome for this ability. For in the Olympick games, for the space of a furlong, he carried an Oxe of four years upon his should: ders; and the same day he carried it in his belly: for as it is there delivered, he eat it up himself. Surely he had been a proper guest at Grandgoussers feast, and might have match'd his throat that eat fix pilgrims for a In Rabelais. Salad.

6. It much disadvantageth the Panegyrick of Synesius, and is no small who writ in disparagement unto baldness, if it be true what is related by Alian concer- the praise of ning Aschilus, whose bald-pate was mistaken for a rock, and so was brained baldness. by a Tortoile which an Eagle let fall upon it. Certainly it was a very great mistake in the perspicacity of that Animal. Some men critically disposed,

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disposed, would from hence confute the opinion of Copenhiens, hever conceiving how the motion of the earth below, should not wave from a knock perpendicularly directed from a body in the air above, 220 sd or 15 15 15 15

1. It croffeth the Proverb, and Rome might well be built in a day; if that were true which is traditionally related by Strato, that the great Cities. Anchiale and I ansus, were built by Sardanapalus both in one day, according to the inscription of his monument, Surdanapalus Anacondaranis filus, Anchialen & Tarfam una die edificavi, Tu autem hofpes Ede, Lude, Bibe, or. which if Arichly taken, that is, for the finishing thereof, and not only for the beginning; for an artificial or natural day, and not one of Daniels weeks, that is, feven whole years , furely their hands were very heart vy that walfed thirteen years in the private house of Solomon: it may be wondred how forty years were spent in the erection of the Temple of Ferna falem, and no less than an hundred in that famous one of Ephefus. Certainly it was the greatest Architecture of one day, fince that great one of fix; an Art quite loft with our Mechanicks, a work not to be made out, but I ke the walls of Theles, and fuch an Artificer as Amphion.

8. It had been a fight only fecond unto the Ark, to have beheld the great Syracufia, or mighty thip of Hiero, described in Athenens; and some have thought it a very large one, wherein were to be found ten Stables for horof what Bulk. fes, eight Towers, besides Fish-ponds, Gardens, Tricliniums, and many fair rooms paved with Agath, and precious Rones. But nothing was impossible unto Archimider, the learned Contriver thereof; nor shall we question his removing the earth, when he finds an immoveable base to place

his Engine upon it.

A Lift of fome historical Errata's in this and the following Scations.

The Syracufia

er King Hit-

ro's Gallcon,

9. The relation of Plutarch of a youth of Sparta, that suffered a Fox concealed under his robe to tear out his bowels, before he would either by voice or countenance betray his theft; and the other of the Spartan Lid, that with the same resolution suffered a coal from the Altar to burn his arm, although defended by the Author that writes his life, is I perceive mistrusted by men of Judgement, and the Author with an aiune, is made to falve himfelf. Affuredly it was a Noble Nation that could afford an hint to fuch inventions of patience, and upon whom, if not fuch verities, at least such verisimilities of fortitude were placed. Were the story true, they would have made the only Disciples for Zeno and the Stoicks, and might perhaps have been perswaded to laugh in Phaleris his Bull.

10. If any min shall content his belief with the speech of Balaams Als, without a belief of that of Mahomets Camel, or Livies Oxe : if any man make a doubt of Giges ring in Justinus, or conceives he must be a Few that believes the Sabbatical river in Fosephus. If any man will say he doth not apprehend how the tail of an African Weather out-weighern the body of a good Calf, that is, an hundred pound, according unto Les Africanus, or defires before belief, to behold such a creature as is the Ruck in Panlas KW.

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Venerus, for my pare I shall not be argey with his incredulity. It even

TI. If any one shall receive as stretch'd or fabulous accounts what is delivered of Cocles, Spavola and Curtius, the sphere of Archimedes, the Rory of the Amazons, the taking of the City of Babylon, not known to some therein in three daies after; that the Nation was deaf which dwelt at the Farfalloni Hifall of Nilms, the laughing and weeping humour of Heraclitus and Demo- florici. crisics, withmany more, he flust not want foine reason, and the authority

id will the apon the fireak of an Lindon or Diapazon in attendennal for 12. If any man doubt of the Avange Antiquities delivered by Historians, as of the wonderful corps of Antens untombed a thouland years after his death by Sentorius. Whether there were no deceit in thefe fragments of the Ark to common to be feen in the daies of Bersfin ; whether the Pillar which Tofephas beheld long ago, Tentullian long after, and Baribolomens de Silieniace, and Borchardus long lince, beithe same with that of Liera Wife; whether this were the hand of Paul, or that which is commonly fiseum the head of Peter, if any doubt, I shall not much dispute with their suspitions. If any man shall not believe the Turpentine betwist Jerusalem and Beshlehem, under which the Virgin suckled our Saviour, as she passed between those Cities; or the figtree of Bethany shewed to this day, whereon Zacheus ascended to behold our Saviour, I cannot tell how to enforce his belief, nor do I think it requisite to attempt it. For, as it is no reasonable somewhat conproceeding to compelia Religion, or think to enforce our own belief upon trary to reason. another, who cannot without the concurrence of Gods spirit, have any indubitable evidence of things that are obtruded. So is it also in matters of common belief, whereasto neither can we indubitably affent, without the co-operation of our fense and reason, wherein confifts the principles of perswafion. For, as the habit of Faith in Divinity is an argument of things unfeen, and a flable affent unto things inevident, upon authority of the Diwine Revealer; Six the belief of man which depends upon humane testimomy, is but a flaggering affent unto the affirmative, not without fome tear of the negative. And as there is required the Word of God, or infused inclination unto the one, to must the actual fentation of our fenfes, at least the non-opposition of our reasons procure our affent and acquiescence in the other. So when Enfebies an holy Writer affirmeth, there grew a strange and unknown plant near the statue of Christ, erected by his Hemorrhoidal patient in the Gospel, which attaining unto the hem of his vesture, acquired a fudden faculty to cure all diveases. Although he faith he faw the Statua in his daies, hath it found in many men to much as humane belief? Some believing, others opinioning, a third suspecting it might be otherwise. For indeed, in matters of belief the understanding affenting unto the relation, either for the authority of the person, or the probability of the object, although there may be a confidence of the one, yet if there be not a fatisfa-

ction in the other, there will arme fulpenfions; nor can we properly be-

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lieve until some argument of reason, or of our proper sense convince or determine our dubitations.

And thus it is also in matters of certain and experimented truth: for if unto one that never heard thereof, a man should undertake to perswade the affections of the Load-stone, or that Jett and Amber attracteth straws and light bodies, there would be little Rhetorick in the authority of Aristote, Priny, or any other. Thus although it be true that the string of a Lute or Viol will fur upon the stroak of an Unison or Diapazon in another of the same kind i that Alcannabeing green, will suddenly infect the nails and other parts with a durable red; that a candle out of a Musket will pierce through an Inch-board, or an urinal force a nail through a Plank; yet can sew or none believe thus much without a visible experiment. Which notwithstanding falls out more happily for knowledge; for these relations leaving unsatisfaction in the Hearers, dossition in genuous dubiosities unto experiment, and by an exploration of all, prevent delusion in any.

choice Cities; or the figure of Bethany thewed to this day, whereon A received come come come come come come to be bold of the figure of Bethany thewed to this day, whereon A received come come come come to be bold of the first of the firs

lief, nor do I chink it teconic e to attempt it. For, as it is no restensive reconstruction of the colony to colony to care the second of the colony to call the call the

L'Aftly, As there are many, Relations where to we can affect, and make a substitution of the read of the substitution of the s

ment unto the expectation of all aged Parents, who shall but read the story of that barbarous Queen; who after she had beheld her Royal Parents mine, lay yet in the arms of his assassine, and caroused with him in the skull of her Father. For my part, I should have doubted the operation of Antimony, where such a potion would not work; 'twas an act methinks beyond Anthropophagy, and a cup sit to be served up only at the table of

2. While we laugh at the flory of Pigmalian, and receive as a fable that he fell in love with a Statue; we cannot but fear it may be true, what is delivered by Herodoins concerning the Agyptian Pollinctors, or such as anointed the dead; that some thereof were found in the act of carnality with them. From wits that say 'tis more than incontinency for Hylas to sport with Hecuba, and youth to flame in the storen embraces of age, we require a name for this: wherein Petronius of Magnish cannot relieve us. The tyranny of Mezentins did never equal the various of this Incohus, that

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could embrace corruption, and make a Mistress of the grave; that could not relift the dead provocations of beauty, whose quick invitements scarce excuse submission. Surely, if such depravities there be yet alive, deformity need not despair; nor will the eldest hopes be ever superannuated,

fince death hath spurs, and carcasses have been courted.

3. I am heartily forry, and wish it were not true, what to the dishonour of Christianity is affirmed by the Italian; who after he had inveigled his enemie to disclaim his faith for the redemption of his life, did presently poyniard him, to prevent repentance, and affure his eternal death. The villany of this Christian exceeded the persecution of Heathens, whose malice was never fo Longimanous as to reach the foul of their enemies; or to extend anto the exile of their Elysiums. And though the blindness of some ferities have favaged on the bodies of the dead, and been fo injurious unto worms, as to difenter the bodies of the deceased; yet had they therein no defign upon the foul; and have been so far from the destruction of that, or defires of a perpetual death, that for the satisfaction of their revenge, they with d them many fouls, and were it in their power, would have reduced them unto life again. It is a great depravity in our natures, and furely an affection that somewhat savoureth of hell, to defire the society, or comfort our felves in the fellowship of others that suffer with us; but to procure the miseries of others in those extremities, wherein we hold an hope to have no fociety our felves, is me-thinks a strain above Lucifer, and a project beyond the primary seduction of hell.

4. I hope it is not true, and some indeed have probably denied, what is recorded of the Monk that poyloned Henry the Emperour, in a draught of the holy Eucharift. 'Twas a scandalous wound unto Christian Religion, and I hope all Pagans will forgive it, when they shall read that a Christian was poytoned in a cup of Chrift, and received his bane in a draught of his falvation. Had he believed Transubstantiation, he would have doubted the effect; and furely the fin it felf received an aggravation in that opinion. It much commendeth the innocency of our Fore-fathers, and the simplicity of those times, whose Laws could never dream so high a crime as parricide: whereas this at the least may seem to out-reach that fact, and to exceed the regular distinctions of murder. I will not say what sin it was to act it; yet may it feem a kind of martyrdome to fuffer by it. For, although unknowingly, he died for Christ his sake, and lost his life in the ordained testimony of his death. Certainly, had they known it, some noble zeals would scarcely have refused it? rather adventuring their own death, than refusing the

memorial of his.

Many other accounts like these we meet sometimes in history, scanda- Hajus farine lous unto Christianity, and even unto humanity; whose verities not only, multa in histobut whose relations honest minds do deprecate. For of fins heteroclital, and ria horribilia. fuch as want either name or prefident, there is oft-times a fin even in their histories. We defire no records of such enormities, fins should be ac-

counted new, that so they may be esteemed monstrous. They omit of monftrofity as they fall from their rarity; for, men count it venial to erre with their fore-fathers, and foolifhly conceive they divide a fin in its fociety. The pens of men may sufficiently expatiate without these singularities of villany; For, as they encrease the hatred of vice in some, so do they enlarge the Theory of wickedness in all. And this is one thing that may make later ages worse than were the former; For, the vicious examples of ages past, poylon the curiosity of these present, affording a hint of fin unto seduceable spirits, and solliciting those unto the imitation of them, whose heads were never so perversly principled as to invent them. In this kind we commend the wisdome and goodness of Galen, who would not leave unto the World too subtil a Theory of poysons; unarming thereby the malice of venomous spirits, whole ignorance must be contented with Sublimate and Arfenick. For, furely there are fubtiler venenations, fuch as will invisibly destroy, and like the Basilisks of heaven. In things of this nature filence commendeth history; "tis the veniable part of things lost; wherein there must never tife a Pancirollas, nor remain any Register but that of

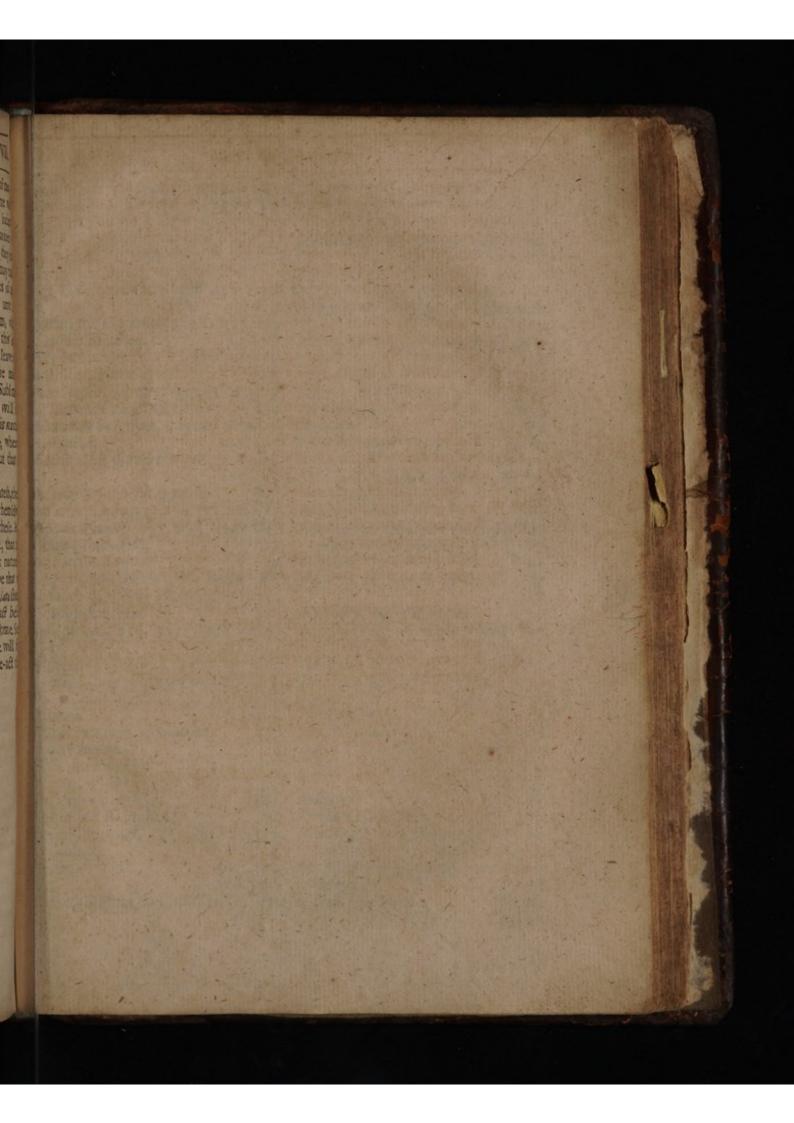
Who writ De Antiquis deperaitis, or of insentions loft.

And yet, if as some Stoicks opinion, and Seneca himself disputeth, these unruly affections that make us sin such prodigies, and even sins themselves be animals; there is an history of Africa and story of Snakes in these. And if the transanimation of Pythagoras or method thereof were true, that the souls of men transmigrated into species answering their former natures: some men must surely live over many Serpents, and cannot escape that very brood whose sire Satan entred. And though the objection of Plate should take place, that bodies subjected unto corruption, must fail at last before the period of all things, and growing sewer in number, must leave some souls apart unto themselves; the spirits of many long before that time will find but naked habitations: and meeting no assimilables wherein to re-act their natures, must certainly anticipate such natural desolations.

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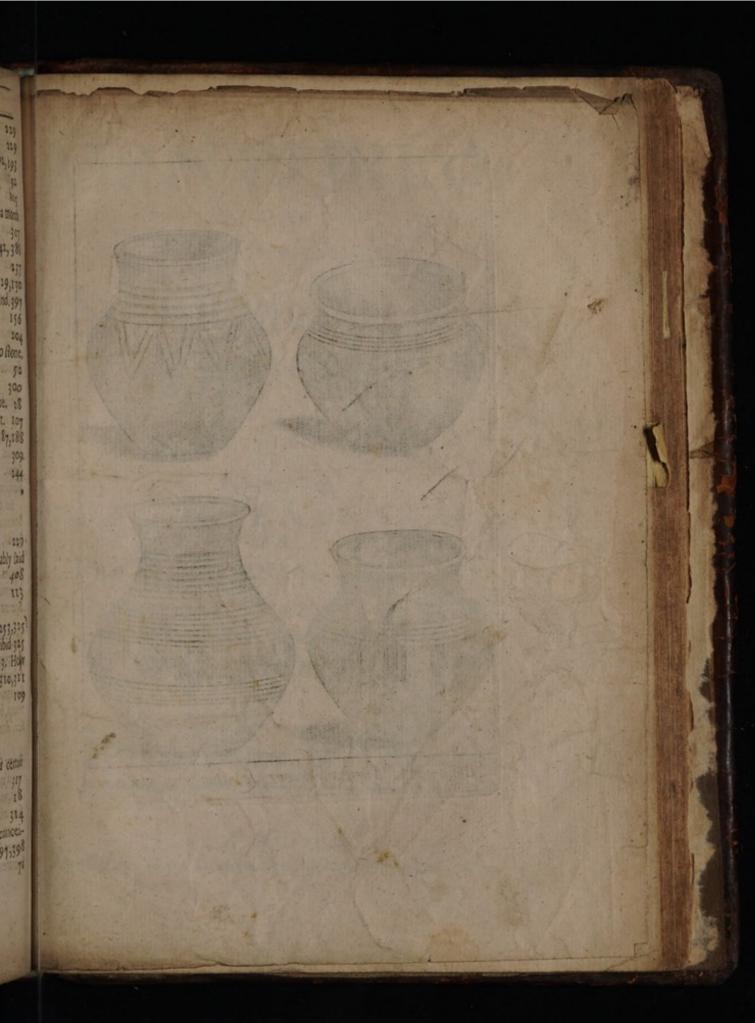
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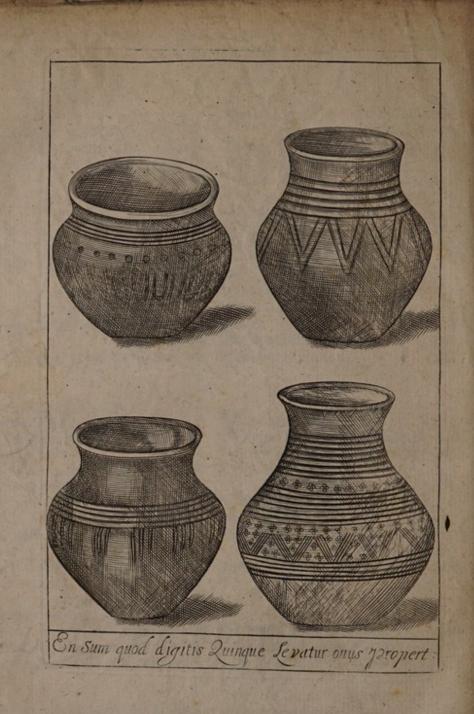
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Printed

HYDRIOTAPHIA, URN-BURIAL,

OR,

A DISCOURSE of the

Sepulchral Urns

lately found in

NORFOLK.

Together with

THE GARDEN OF CYRUS;

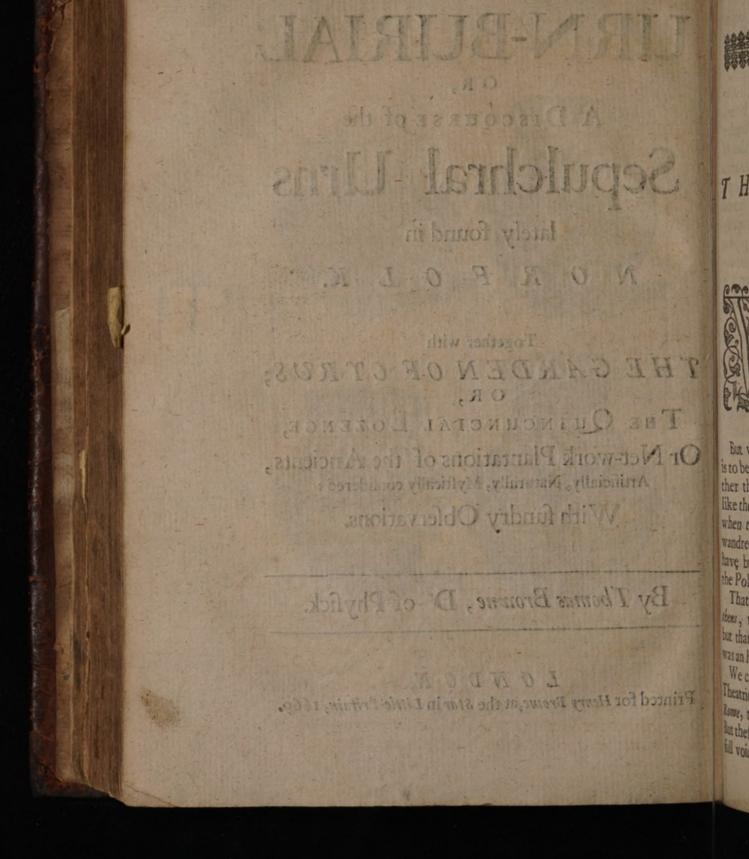
THE QUINCUNCIAL LOZENGE,

Or Net-work Plantations of the Ancients, Artificially, Naturally, Mystically considered:

With fundry Observations.

By Thomas Browne, Dr of Physick.

LONDON,
Printed for Henry Brome, at the Star in Little-Britain, 1669.



HTDRIOTAPHIA,



TO MY

Worthy and Honoured Friend, THOMAS Le GROS

of Crostwick, Esquire.



Hen the Funeral Pyre was out, and the last Valediction over, men took a lasting Adieu of their interred Friends, little expecting the curiofity of future Ages should comment upon their Ashes, and having no old experience of the duration of their Reliques, held no opinion of fuch after-confiderations.

But who knows the fate of his Bones, or how often he Pompeios inis to be buried? who hath the Oracle of his Ashes, or whe- venes Asia atther they are to be scattered? The Reliques of many lie, que Europa, like the Ruines of (a) Pompey's, in all parts of the Earth: And fed ipfun Terwhen they arrive at your hands, these may seem to have es.

wandred far, who in a direct (b) and Meridian Travell recelly but See have but few miles of known Earth between your felf and between your the Pole.

That the Bones of The fews should be seen again (c) in A-Green'and. thens, was not beyond conjecture and hopefull expectation; back by C'but that these should arise so opportunely to serve your self, mon. Plutarch. was an hit of Fate, and honour beyond prediction.

We cannot but wish these Urns might have the effect of Hippodrome Theatrical Vessells, and the great (d) Hippodrome-Urns in ceived to re-Rome, to refound the acclamations and honour due unto you. found the But these are sad and sepulchral Pitchers, which have no joy-voices of peofull voices; filently expressing old Mortality, the Ruines of Shows.

rcelly but Sea house and

The Epistle Dedicatory.

forgotten times, and can onely speak with life, how long in this corruptible frame some parts may be uncorrupted; yet able to out-last Bones long unborn, and the noblest Pyle

(e) among us.

. Worthily polifelfed by that true Gentleman Sir Horatio Town head , Friend.

F Abit all plats.

5 Which makes the world fo many years old.

We present not these as any strange sight or spectacle unknown to your eyes, who have beheld the best of Urns, and nobleft variety of Ashes; who are your self no slender my honoured Master of Antiquities, and can daily command the view of fo many Imperial Faces: which raiseth your thoughts unto old things, and confideration of Times before you, when even living men were Antiquities; when the living might exceed the dead, and to depart this world could not be properly faid to go unto the (f) greater numbers and so runs up your thoughts upon the Ancient of days, the Antiquaries truest object, unto whom the eldest parcels are young, and Earth it felf an Infant, and without (g) Egyptian Account makes but small noise in thousands.

- We were hinted by the occasion, not catched the opportunity to write of old things, or intrude upon the Antiquary. We are coldly drawn unto discourses of Antiquities, who have scarce time before us to comprehend new things, or make out learned Novelties. But feeing they arose as they lay, almost in silence among us, at least in short account suddenly passed over; we were very unwilling they should die again,

and be buried twice among us.

Beside, to preserve the living, and make the dead to live, to keep men out of their Urns, and discourse of humane Fragments in them, is not impertinent unto our Profession; whose study is Life and Death, who daily behold examples of Mortality, and of all men least need artificial Memento's or Coffins by our bed-fide, to minde us of our Graves.

'I'is time to observe Occurrences, and let nothing remarkable escape us. The Supinity of elder days hath left so much in filence, or time hath fo martyred the Records, that the most (b) industrious Heads do finde no easie work to erect a

endeavoured, new Britannia.

Tis opportune to look back upon old Times, and contem nanced by in- plate our Forefathers. Great examples grow thin, and are to genuous and be fetched from the passed world. Simplicity slies away, and Iniquity comes at long strides upon us. We have enough to

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The Epistle Dedicatory.

doe to make up our selves from present and passed Times, and the whole stage of things scarce serveth for our instruction. A compleat piece of Vertue must be made up from the Cento's of all Ages; as all the Beauties of Greece could make but one handsome Venus.

When the Bones of King Arthur were digged up (i), the 'In the time old Race might think they beheld therein some Originals of fecond. themselves. Unto these of our Urns none here can pretend cambian. relation; and can onely behold the Reliques of those persons, who in their life giving the Laws unto their predecellors, after long obscurity now lie at their mercies. But remembring the early Civility they brought upon these Countries, and forgetting long-patted milchiefs; we mercifully preferve their

Bones, and pifs not upon their Afhes.

In the offer of these Antiquities we drive not at ancient Families, so long out-lasted by them; we are far from erecting your Worth upon the pillars of your Fore-fathers, whose merits you illustrate. We honour your old Vertues, conformable unto times before you, which are the noblest Armory. And having long experience of your friendly Convertation, void of empty Formality, full of Freedome, constant and generous Honelty, I look upon you as a Gemm of the (k) old a Adamas de Rock, and must profess my self even to Uru and Ashes,

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though at some different from their principals. Hidrein of me

Knowledge hath been fo trucody it is hard to firm as a thing new. - Su saisse generalise of water good and Servant, and the to

Thomas Browne.

Lug Episse Dedicatory.

TO MY

Worthy and Honoured Friend, NICHOLASBACON

of Gillingham, Esquire.

· Plempius, Cabens,&c.



Ad I not observed that (a) Purblinde men have discoursed well of sight, and some (b) without Islue excellently of Generation; I, that was never Master of any considerable Garden, had not attempted this Subject. But the Earth is the

Garden of Nature, and each fruitfull Countrey a Paradise. Dioscorides made most of his Observations in his March about with Antonius; and Theophrastus raised his Generalities chiesly

from the Field.

Beside, we write no Herball, nor can this Volume deceive you, Besleri Hor- who have handled the (c) massiest thereof; who know that three (d) Folio's are yet too little, and how New Herbals fly from America upon us: from persevering Enquirers, and (e) old in those singularities, we expect such Descriptions; wherein (f)England is now so exact, that it yields not to other Countreys.

We pretend not to multiply vegetable divisions by Quincuncial and Reticulate Plants, or erect a new Phytology. The Field of Knowledge hath been so traced it is hard to spring any thing new. Of old things we write something new : if Iruth may receive addon and divers dition, or Envy will have any thing new ; since the Ancients knew the late Anatomicall discoveries, and Hippocrates the Circu-

You have been so long out of trite Learning, that 'tis hard to finde a Subject proper for you; and if you have met with a Sheet upon this, we have miffed our intention. In this multiplicity of writing, bye and barren Themes are best fitted for Invention; Subjects so often discoursed confine the Imagination, and fix our conceptions unto the Notions of Fore-writers. Beside, Such Discourses allow excursions, and venially admit of collateral Truths, though at some distance from their principals. Wherein if we

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tus Eystetenfis. d Bauhini Theatrum Botanicum,

" My worthy Friend M. Goodier, an ancient and learned Botanist.

Asin Lonparis, whereof we mention none, left we lation. feem to omit

The Epistle Dedicatory.

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He that will illustrate the excellency of this Order, may easily tione, de Denfail upon so spruce a Subject, wherein we have not affrighted the titione. common Reader with any other Diagramms then of it self, and have industriously declined illustrations from rare and unknown Plants.

Tour discerning Judgement, so well acquainted with that Study, will expect herein no Mathematicall Truths, as well understanding how few Generalities and (h) U finita's there are in h Rules withnature. How Scaliger bath found exceptions in most Univer- out exceptifals of Aristotle and Theophrastus. Now Botanicall Max- ons. imes mast have fair allowance, and are tolerably currant, if not

intolerably over-balanced by Exceptions.

You have wifely ordered your Vegetable delights beyond the reach of exception. The Turks, who pass their days in Gardens here, will have Gardens also hereafter, and delighting in Flowers on Earth, must have Lilies and Roses in Heaven. In Garden-Delights it is not easie to hold a Mediocrity; that insinuating pleasure is seldome without some extremity. The Ancients venially delighted in stourishing Gardens; many were Florists that knew not the true use of a Flower; and in Plinie's days none had directly treated of that Subject. Some commendably affected Plantations of venemous Vegetables, some confined their delights unto single Plants, and Cato seemed to dote upon Cubbage: while the ingenuous delight of Tulipists stands saluted with hard language, even by their own (i) Professors.

That in this Garden-Discourse we range into extraneous things, Laurenberg. and many parts of Art and Nature, we follow herein the example Pet. Hondius of old and new Plantations; wherein noble spirits contented not in liv. Belg. themselves with Trees, but by the attendance of Aviaries, Fish-Ponds, and all variety of Animals, they made their Gardens the Epitome of the Earth, and some resemblance of the Secular Shows

of old.

That we conjoyn these parts of different Subjects, or that this should succeed the other, your judgement will admit without impute of incongruity; since the delightfull World comes after Death, and Paradise succeeds the Grave; since the verdant state of things is the Symbol of the Resurrection, and to flourish in the state of Glory, we must first be sown in Corruption. Beside the ancient practice.

de Superfæta-

'Tulipomania, Narrecernijd,

The Epistle Dedicatory.

practice of Noble Persons, to conclude in Garden-Graves, and Urns themselves of old, to be wrapt up in Flowers and Garlands.

Nullum fine venia placuisse eloquium, is more sensibly understood by Writers then by Readers; nor well apprehended by either, till Works have hanged out like Apelles his Pictures; wherein

even common eyes will finde something for emendation.

To wish all Readers of your abilities, were unreasonably to multiply the number of Scholars beyond the temper of these Times. But unto this ill-judging Age, we charitably desire a portion of your Equity, Judgement, Candour, and Ingenuity; wherein you are so rich, as not to lose by diffusion. And being a flourishing Branch of that (k) Noble Family unto which we owe so much observance, you are not new set, but long rooted in such Perfection; whereof having had so lasting confirmation in your worthy Conversation; constant Amity and expression, and knowing you a serious Student in the highest Arcana of Nature, with much excuse we bring these low Delights and poor Maniples to your Trea-

unto finds Themes, and Cot ordered to dote when Cabrece of while the interments defer by Tulingle french falated with back hav-

of all anderes Plant diams; subsinging andle forces contented me

That we conseque these parts of different endecks or this thir to at let be engest the other, "goest justee were well admit at these will

P. Confiste Microsoft the Caraca & Caraches view and Marie of the

M Of the most worthy Sr Edmund Bacon, prime Baroner, noble Friend.

Norwick, May 1. Your affectionate Friend and Servant,

Thomas Browne.

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HYDRIOTAPHIA. Urn-Burial;

reflect in two ways, of himple tiching at That carnel futer them on Eart A O

A brief Discourse of the Sepulchral Urns lately found in

NORFOLK.

CHAP. I.



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> N the deep discovery of the Subterranean world, a shallow part would satisfie some Enquirers; who, if two or three yards were open about the Surface, The rich would not care to rack the Bowels of Potofi (a), Mountain of and the Regions towards the Centre. Nature hath Perm. furnished one part of the Earth, and Man another. The Treasures of Time lie high, in Urns, Coyns, and Monuments, scarce below the Roots of some Vegetables. Time hath endless Rarities, and Shows of

all varieties; which reveals old things in Heaven, makes new discoveries in Earth, and even Earth it felf a discovery. That great Antiquity America

lay buried for a thousand years; and a large part of the Earth is still in the

Though if Adam were made out of an Extract of the Earth, all parts might challenge a Restitution; yet few have returned their Bones far lower then they might receive them; not affecting the graves of Giants under hilly and heavy coverings, but, content with less then their own depth, have wished their Bones might lie soft, and the earth be light upon them. Even such as hope to rise again would not be content with central Interrment, or so desperately to place their Reliques as to lie beyond discovery, and in no way to be seen again: which happy contrivance hath made communication with our Fore-fathers, and lest unto our view some parts which

Though Earth hath ingrossed the name, yet Water hath proved the smartest Grave, which in forty days swallowed almost Mankinde and the living Creation; Fishes not wholly escaping, except the falt Ocean were hand-

fomly contempered by a mixture of the fresh Element.

they never beheld themselves.

Many have taken voluminous pains to determine the state of the Soul upon Dis-union; but men have been most phantastical in the singular contrivances of their Corporal dissolution; whilest the soberest Nations have

rested in two ways, of simple Inhumation, and Burning.

That carnal Interrment or Burying was of the elder date, the old examples of Abraham and the Patriarchs are sufficient to Hustrate; and it were without competition, if it could be made our that Adam was buried near Damaseus or Mount Culvary, according to some Tradition. God himself, that buried but one, was pleased to make choice of this way, as is colle-Etible from Scripture-expression, and the hot Contest between Satan and the Arch-angel about discovering the Body of Moses. But the practice of Burning was also of great Antiquity, and of no slender extent. For (not. to derive the same from Hercules) noble descriptions there are hereof in the Gracian Funerals of Homer, in the formal Obsequies of Patroclus and Achilles; and somewhat elder in the Theban War, and the solemn Combustion of Menaceus and Archemorus, contemporary unto Jair the eighth Judge of Israel. Confirmable also among the Trojans, from the Funeral Pyre of Hettor, burnt before the gates of Troy, and the (b) burning of Penthesileathe Amazonian Queen; and long continuance of that practice in the inward Countries of Asia, while, as low as the Reign of Julian, we finde that the King of Chionia (c) burnt the Body of his Son, and interred the Ashes in a filver Urn.

The same practice extended also far West *, and besides Herusians, trey near Getes and Thracians, was in use with most of the Celta, Sarmatians, Gerpersia.

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The same practice extended also far West *, and besides Herusians, trey near Getes and Thracians, was in use with most of the Celta, Sarmatians, Gerpersia.

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mans then most opinion, or Pliny seems to allow. For (beside the old

mentar. L. Gyraldus, Kirckmannus.

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Ammianus
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King of Chinnia, a Countrey near
Persia.

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Table-Laws of Burning (d) or Burying within the City, of making the Fu- d 12 Tabul. neral-fire with plained wood, or quenching the Fire with Wine) Manlius part. 1. de Juthe Conful burnt the Body of his Son; Numa, by special clause of his re sacro. Ho-Will, was not burnt, but buried; and Remus was folemnly buried, according winem mortato the description of Ovid (e). sepelito, neve

wito, tom. 2. Rogum afcia ne polito, tom. 4. Item Vigeneri Annotat. in Livium, & Alex. ab Alex. cum Tiraquello, Roscinus cum Dempstero. " ultima prolato subdita flamma rozo. Fast. lib. 4. cum Car. No-

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Cornelius Sylla was not the first whose Body was burned in Rome, but of the Cornelian Family, which being indifferently, not frequently, used before, from that time spread and became the prevalent practice; not totally pursued in the highest run of Cremation; for when even Crows were funerally burnt, Poppea the Wife of Nero found a peculiar Grave-interr-

Now as all Customs were founded upon some bottom of Reason, so there wanted not grounds for this; according to feveral apprehensions of the most rational Dissolution. Some being of the opinion of Thales, that Water was the Original of all things, thought it most equal to submit unto the Principle of Putrefaction, and conclude in a most Relentment. Others conceived it most natural to end in Fire, as due unto the Master-principle in the Composition, according to the doctrine of Heraclitus; and therefore heaped up large Piles, more actively to waft them toward that Element, whereby they also declined a visible degeneration into Worms, and

left a lasting parcel of their Composition.

Some apprehended a purifying virtue in Fire, refining the grofler Commixture, and firing out the Æthereal particles to deeply immerfed in it. And fuch as by Tradition or rational conjecture held any hint of the final Pyre of all things, or that this Element at last must be too hard for all the rest, might conceive most naturally of the Fiery dissolution. Others, pretending no natural grounds, politickly declined the malice of Enemies upon their buried Bodies. Which confideration led Sylla unto this practice, who having thus ferved the Body of Marius, could not but fear a Retaliation upon his own; entertained after in the Civil Wars and revengefull Contentions of Rome. 1013 1111131 07

But as many Nations embraced, and many left it indifferent, so others too much affected, or strictly declined this practice. The Indian Brachmans seemed too great friends unto Fire, who burnt themselves alive, and thought it the noblest way to end their days in Fire; according to the expression of the Indian burning himself at Achens (f), in his last words And there-

upon the Pyre unto the amazed Spectatours, Thus I make my felf immortal. fore the In-But the Chaldeans, the great Idolaters of Fire, abhorred the Burning Icription of their Carkasses, as a pollution of that Deity. The Persian Magi declimade acets ned it upon the like scruple, and being onely folicitous about their Bones, dingly. Nit. exposed their Flesh to the prey of Birds and Dogs. And the Perfees now Damafe.

TIEVIE C.

in India, which expose their Bodies unto Vultures, and endure not so much as Fereira or Beers of Wood, the proper Fuell of Fire, are led on with such niceties. But whether the ancient Germans, who buried their dead, held any such sear to pollute their Deity of Hershus, or the Earth, we have

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The £gyptians were affaid of Fire, not as a Deity, but a devouring Element, mercilefly confinming their Bodies, and leaving too little of them; and therefore by precious Embalments, Depositure in dry earths, or handsome inclosure in Glasses, contrived the notablest ways of integral Conservation. And from such £gyptian scruples imbibed by Pythagoras, it may be conjectured that Numa and the Pythagorical Sect first waved the

fiery Solution.

The Seythians, who swore by Winde and Sword, that is, by Life and Death, were so far from Burning their Bodies, that they declined all Interrment, and made their Graves in the Air: And the Ichthyophagi, or sish-eating Nations about Agypt; affected the Sea for their Grave; thereby declining visible corruption, and restoring the debt of their Bodies. Whereas the old Heroes in Homer dreaded nothing more then Water or Drowning; probably upon the old Opinion of the siery substance of the Soul, onely extinguishable by that Element: And therefore the Poet emphatically impliesh the total destruction in this kind of death

which happened to Ajax Oilens (9).

The old * Baleareans had a peculiar mode, for they used great Urns and much Wood, but no Fire, in their Burials; while they bruised the Flesh and Bones of the dead, crowded them into Urns, and laid heaps of Wood upon them. And the * Chinois, without Cremation or urnal Interrment of their Bodies, make use of Trees and much burning, while they plant a Pine-tree by their Grave, and burn great numbers of printed draughts of Slaves and Horses over it; civilly content with their companies in effigie, which hadrone Network Parkers and Printed Bodies.

which barbarous Nations exact unto reality.

Christians abhorred this way of Obsequies, and though they stick not to give their Bodies to be burnt in their lives, detested that mode after death; affecting rather a Depositure then Absumption, and properly submitting unto the sentence of God, to return, not unto Ashes, but unto Dust again; conformable unto the practice of the Patriarchs, the Interrmentalis the ment of our Saviour, of Peter, Paul, and the ancient Martyrs; and so far Bishop, cy- at last declining promiscuous Interrment with Pagans, that some have sufference of the pagans that some pagans that s

red Ecclefiaftical Censures for making no scruple thereof.

The Musselman-believers will never admit this Fiery resolution: For they hold a present Trial from their black and white Angels in the Grave, which they must have made so hollow, that they may rise upon their knees.

The Jewish Nation, though they entertained the old way of Inhumation, yet sometimes admitted this practice, (for the men of Jabesh burnt the

" Which Magius reads ¿ξαπόλωλε. " Diodorus Siculus. " Ramufius is Navigat. Big

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Body of Saul:) and by no prohibited practice, to avoid Contagion or Pollution, in time of Pestilence, burnt the Bodies of their Friends (b). h Amos 6.10. And when they burnt not their dead Bodies, yet sometimes they used great Burnings near and about them, as is deducible from the expressions concerning Jehoram, Sedechias, and the sumptuous Pyre of Asa. And they were so little averse from (i) Pagan Burning, that the Jews lamenting the Suction, is death of Cafar their Friend, and revenger on Pompey, frequented the vita Jul. Cafplace where his Body was burnt for many nights together. And as they raised noble Monuments and Mausoleums for their own Nation (k), so k As that they were not ferupulous in erecting fome for others; according to the magnificent practice of Daniel, who left that lafting fepulchral Pyle in Echatana for the Monument Median and Persian Kings (1).

But even in times of Subjection and hottest use they conformed not un- Simon , to the Roman practice of Burning; whereby the Prophecy was fecured 1 Macc. 13. concerning the Body of Christ, that it should not see corruption, or a Bone 1 Kall-oxedushould not be broken; (which we believe was also providentially prevented qua Savyanifrom the Soludiers Spear, and Nails, that past by the little Bones both in " whereof his hands and feet : not of ordinary contrivance, that it should not cor- Jewish Priest rupt on the Crofs, according to the Law of Roman Crucifixion) or an hair had always of his head perifh, though observable in Jewish Customs, to cut the Hairs the custody of Malefactors.

Nor in their long Co-habitation with the Egyptians, crept they into Jof. lib. 10. a custome of their exact Embalming, wherein deeply slashing the Muscles, Antique and taking out the Brains and Entrails, they had broken the subject of so entire a Resurrection, nor fully answered the Types of Enoch, Eliah, or Fonah; which yet to prevent or restore was of equal facility unto that rifing Power, able to break the Fasciations and bands of death, to get clear out of the Cere-cloth and an hundred pounds of oyntment, and out of the Sepulchre before the stone was rolled from it.

But though they embraced not this practice of Burning, yet entertained they many Ceremonies agreeable unto Greek and Roman Obsequies. And he that observeth their Funeral-Feasts, their Lamentations at the Grave, their Mulick and weeping Mourners, how they closed the eyes of their Friends, how they washed, anointed, and kissed the dead; may easily conclude these were not mere Pagin Civilities. But whether that mournfull burthen and treble calling out after Absalom had any reference to the last Conclamation and triple Valediction used by other Nations; we hold: but a wavering conjecture.

Civilians make Sepulture but of the Law of Nations: others do naturally found it and discover it also in Animals. They that are so thick-skinned as still to credit the story of the Phanix, may say something for Animal-burning: More ferious conjectures finde fome examples of Sepalture in Elephants, Cranes, the Sepulchral Cells of Pilmires and practice of Bees; which civil Society carrieth out their dead, and hath Exequies, if not Interrments CHAP. B 3

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"HE Solemnities, Ceremonies, Rites of their Cremation or Interrment, fo folemnly delivered by Authours, we fhall not disparage our Reader to repeat. Onely the last and lasting part in their Ums, collected Bones and Ashes, we cannot wholly omit, or decline that Subject which

occasion lately presented in some discovered among us.

In a Field of old Walfingham, not many months past, were digged up between forty and fifty Urns, deposited in a dry and fandy soil, not a yard deep, not far from one another; not all strictly of one Figure, but most answering these described; some containing two pounds of Bones, diftinguishable in Sculls, Ribs, Jaws, Thigh-bones, and Teeth, with fresh impressions of their Combustion; besides the extraneous substances, like pieces of small Boxes, Combs handsomly wrought, Handles of small brass in-* In one fent struments, brazen Nippers, and in one some kinde of Opale *.

Near the same plot of ground, for about fix yards compass were digged up Coals and incinerated substances; which begat conjecture that this was the Ustrina or place of Burning their Bodies, or some Sacrificing-place un-Whitherley of to the Manes, which was properly below the furface of the ground, as the

Are and Altars unto the Gods and Heroes above it.

That these were the Urns of Romans, from the common custome and place where they were found is no obscure Conjecture, not far from a Roman Garrison, and but five mile from Brancaster, set down by ancient Record under the name of Brannodunum; and where the adjoyning Town, containing feven Parishes, in no very different found, but Saxon termination, still retains the name of Burnham; which being an early Station, it is not improbable the neighbour-parts were filled with Habitations either of Romans themselves, or Britans Romanized, Which observed the Roman

Nor is it improbable that the Romans early possessed this Country. For though we meet not with such strict particulars of these parts before the new Institution of Constantine, and military charge of the Count of the Saxon shoar, and that about the Saxon Invasions the Dalmatian Horsemen were in the Garrison of Brancaster: yet in the time of Claudius, Vespasian and Severus, we finde no less then three Legions dispersed through the Province of Britain. And as high as the Reign of Claudius, a great Overthrow was given unto the Iceni by the Roman Lieutenant Offerius. Not long after the Country was so molested, that in hope of a better state Prasutagus bequeathed his Kingdom unto Nero and his Daughters; and Boadicea his Queen fought the last decisive Battel with Paulinus. After which time, and the Conquest of Agricola the Lieutenant of Vespasian, probable it is they wholly possessed this Countrey, ordering it into Garrisons or Habitations

me by my worthy Friend Walfingbam.

best suitable with their securities. And so some Roman Habitations not improbable in these parts as high as the time of Vespasian, where the Saxons after feated, in whose thin-fill'd Maps we yet find the Name of Walsingham. Now if the Iceni were but Gammadims, Anconians, or men that lived in an Angle, Wedge or Elbow of Britain, according to the original Etymology; this Country will challenge the Emphatical appellation, as

most properly making the Elbow or Iken of Icenia.

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That Britain was notably populous is undeniable, from that expression finita multiput of Casar (a). That the Romans themselves were early in no small numbers, do est, creterSeventy thousand with their Associats slain by Boadicea affords a sure acwaque waisicia, ferè Galcount: And though many Roman Habitations are not known; yet some liess cosmilia, by old Works, Rampiers, Coyns and Urns do teffifie their poffessions. Cast de Bil-Some Urns have been found at Caffor, some also about Sombereake, and not lo Gal. 1.5. many years past no less then ten in a Field at Buxtone (b), not near any recorded Garrison. Nor is it strange to find Roman Coyns of Copper and ground of my Silveramong us, of Vefpasian, Trajan, Adrian, Commodus, Antoninus, Se- Friend verus, &c. but the greater number of Diocletian, Constantine, Constant, Rov. Fegor Valens, with many of Victorinus, Posthumius, Tetricus, and the thirty Ty- Esq; wherein rants in the Reign of Gallienus; and some as high as Adrianus have been contained found about Therford or Sitomagus, mentioned in the Itinerary of Antoni- were prefernus, as the way from Venta or Cafter unto London (c). But the most fre- ved by the quent discovery is made at the two Casters by Normich and Yarmouth (d), at most worthy Burgh-castle and Brancaster (e).

* Hominamin-Sir william Pafton Bt.

From Caffor to Thetford the Romans accounted thirty two miles, and from thence observed not our common Road to London, but passed by Combretonium, ad Ansam, Canonium, Cassemagus, &c. by Bretenham, Congestiall, Chelmsford, Barntwood, &c. Most at Caster by Varmonto, found in a place called East-blondy-burgh-surloss, belonging to Mr. Thomas Wood, a person of civility, industry and knowledge in this way, who hath made observations of remarkable things about him, and from whom we have received divers Silver and Copper Coyns. Belonging to that noble Gentleman and true example of worth, Sir Ralph Hare, Barenet, my honoured Friend.

Besides the Norman, Saxon and Danish pieces of Cubred, Canous, William, Marilda (f), and others, some British Coyns of Gold have been A piece of dispersedly found; and no small number of Silver-pieces (g) near Nor- Mand the with, with a rude Head upon the Obverfe, and with an ill-formed Horse on to be found the Reverse, with Inscriptions Ic. Duro T. whether implying Iceni, Duro- in Buchenbens triges, Tascia, or Trinobantes, we leave to higher conjecture. Vulgar Chro- Castle with notogie will have Norwich-Caftle as old as Julius Cafar : but his diffance this Inferifrom these parts, and its Gorbiek form of Structure, abridgeth such Anti- ption, Elle n'a quity. The British Coyns afford conjecture of early habitation in thefe & At Thorpe. parts, though the City of Norwich arose from the Ruines of Venta, and, though perhaps not without some Habitation before, was enlarged, builded and nominated by the Saxons. In what bulk or populofitie it food in the old East-Angle Monarchy, Tradition and History are filent. Confiderable it was in the Dariff Irruptions, when Suen barnt Therford and

h Brampton,

Norwich (b), and Ulfketel the Governour thereof was able to make fome

Abbas Jornal- refistence, and after endeavoured to burn the Danish Navy.

How the Romans left fo many Coyns in Countries of their Conquests feems of hard resolution; except we consider how they buried them under ground, when upon barbarous Invasions they were fain to desert their Habitations in most part of their Empire, and the strictness of their Laws Plut. ia vita forbad to transfer them to any other uses: wherein the (i) Spartans were fingular, who, to make their Copper-money useless, contempered it with Vinegar. That the Britans left any, some wonder; since their Money was Iron and Iron-rings before Cafar; and those of after-stamp by permission, and but small in bulk and bigness: That so few of the Saxons remain, because overcome by succeeding Conquerours upon the place, their Coyns by degrees paffed into other Stamps, and the marks of after-

Then the time of these Urns deposited, or precise Antiquity of these Reliques, nothing of more uncertainty. For fince the Lieutenant of Claudies feems to have the first progress into these parts, fince Boadicea was overthrown by the Forces of Nero, and Agricola put a full end to these Conquests; it is not probable the Country was fully garrifoned or planted before; and therefore, how-ever these Urns might be of later date, not

likely of higher Antiquity.

And the succeeding Emperours defisted not from their Conquests in these and other parts, as is tellified by History and Medall-inscription yet extant; the Province of Britain, in so divided a distance from Rome, beholding the faces of many Imperial persons, and in large account, no fewer then Cafar, Claudius, Britannicus, Vespasian, Titus, Adrian, Severus,

Commodus, Geta, and Caracalla.

A great obscurity herein, because no Medall or Emperour's Coyn enclofed, which might denote the dates of their Interrments. Observable in many Urns, and found in those of Spittle-Fields by London, which contained the Coyns of Claudius, Vespasian, Commodus, Antoninus, attended with Lacrymatories, Lamps, Bottles of Liquour, and other appurtenances of affectionate Superstition, which in these rural Interrments were wanting.

Some uncertainty there is from the period or term of Burning, or the cessation of that practice. Macrobius affirmeth it was distissed in his days. But most agree, though without authentick Record, that it ceased with the Antonini : most safely to be understood after the Reign of those Emperours which assumed the name of Antoninus, extending unto Heliogabalus; not strictly after Marcus; for about fifty years later we finde the magnificent Burning and Confectation of Severus. And if we so fix this period or ceffation, these Urns will challenge above thirteen hundred years.

But whether this practice was onely then left by Emperours and great persons, or generally about Rome, and not in other Provinces, we hold no authentick account. For after Tertullian, in the days of Minucius, it was

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obviously objected upon Christians, that they condemned the practice of Burning (). And we finde a passage in Sidonins (1), which afferteth that & Exferrantur practice in France unto a lower account. And perhaps 'twas not fully difu- rogos, & damfed till Christianity fully established, which gave the final extinction to these want ignium Sepulchral Bonefires.

Whether they were the Bones of Men, or Women, or Children, no au- 1 Sidon. Athentick decision from ancient Custome in distinct places of Burial. though not improbably conjectured, that the double Sepulture or Buryingplace of Abraham had in it fuch intention. But from exility of Bones, thinness of Sculls, smalness of Teeth, Ribs and Thigh-bones, 'tis not improbable that many thereof were persons of minor age, or Women. Confirmable also from things contained in them : In most were found substances resembling Combs, Plates like Boxes fastened with Iron pins, and handsomely over-wrought like the Necks or Bridges of Musical Instruments, long brais Plates over-wrought like the Handles of near Implements, brazen Nippers to pul awayHair, & in one a kind of Opale, yet maintaining a blewish colour.

Now that they accustomed to burn or bury with them things wherein they excelled, delighted, or which were dear unto them, either as farewells unto all Pleasure, or vain apprehension that they might sufe them in the other world, is testified by all Antiquity. Observable from the Gemme or Beryll-Ring upon the finger of Cynthia, the Mistress of Properties, when after her Funeral Pyre her Ghost appeared unto him. And notably illustrated from the Contents of that Roman Urn preserved by Cardinal Farnese (m), " Vigeneri wherein, besides great number of Gemms with Heads of Gods and Goddes- Annot, in 4. ses, were found an Ape of Agath, a Grashopper, an Elephant of Amber, a Crystal Ball, three Glasses, two Spoons, and fix Nuts of Crystal. And beyond the content of Urns, in the Monument of Childerick the first (n), and fourth King from Pharamond, casually discovered three years past at Tournay, restoring unto the world much Gold richly adorning his Sword, two hundred Rubies, many hundred Imperial Coyns, three hundred Golden Bees, the Bones and Horse-shoe of his Horse interred with him, according to the barbarous magnificence of those days in their Sepulchral Obsequies. Although if we steer by the conjecture of many, and Septuagint expression, some trace thereof may be found even with the ancient Hebrens, not onely from the Sepulchral Treasure of David, but the Circumcifion-knives which Fosuah also buried.

Some men, confidering the Contents of these Urns, lasting pieces and Toys included in them, and the Custome of Burning with many other Nations, might fomewhat doubt whether all Urns found among us were properly Roman Reliques, or fome not belonging unto our British, Saxon or

Danish Fore-fathers. In the form of Barial among the ancient Britans the large Discourfes of Cafar, Tacitus and Straboate filent: For the discovery whereof, with other particulars, we much deplore the loss of that Letter which Cicero

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expected or received from his Brother Quintus, as a resolution of British Customs; or the Account which might have been made by Scribonius Laro Dienis ex- also discovered that frugal Bit (o) of the Old Britans, which in the bigness nd Fall

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But that the Druids and ruling Priests used to burn and bury, is expresfed by Pomponius. That Bellinus, the Brother of Frennus, and King of Britans, was burnt, is acknowledged by Polydorus, as also by Amandus Zierixensis in his Historia, and Pinedu in his Universa historia Spanish. That they held that practice in Gallia, Cafar expresly delivereth. Whether the Britans (probably descended from them, of like Religion, Language and Manners) did not sometimes make use of Burning , or whether at least fuch as were after civilized unto the Roman life and manners conformed not unto this practice, we have no historical affertion or denial. But fince from the account of Tacitus the Romans early wrought fo much Civility upon the British Stock, that they brought them to build Temples, to wear the Gown, and study the Roman Laws and Language; that they conformed also unto their Religious Rires and Customs in Burials seems no improbable conjecture.

That Burning the dead was used in Sarmatia, is affirmed by Gaguinus: that the Sueans and Gothlanders used to burn their Princes and great petfons, is delivered by Saxo and Olaus: that this was the old German practice, is also afferted by Tacitus. And though we are bare in historical particulars of such Obsequies in this Island, or that the Saxons, Jues and Angles burnt their dead; yet came they from parts where twas of ancient pracrice; the Germans nting it, from whom they were descended. And even in Juland and Slefnick, in Anglia Cimbrica, Urns with Bones were found

not many years before us.

But the Danish and Northern Nations have raised an Ara or point of Compute from their Custome of Burning their dead; some deriving it from Ungainus, some from Frothe the Great, who ordained by Law, that Plinces and chief Commanders should be committed unto the Fire, though the common fort had the common Grave-interrment. So Starblatterns that old Meroe was burnt, and Ringo royally burnt the Body of Harald the King flain by him.

What time this Custome generally expired in that Nation, we discern no affured period: whether it ceased before Christianity, or upon their Conversion by Aufgurius the Gaul in the time of Ludevicus Pius, the Son of Charles the Great, according to good Computes; or whether it might not be used by some persons, while for a hundred and eighty years Paganism and Christianity were promiscuously embraced among them, there is no affured conclusion. About which times the Danes were busie in England, and particularly infelted this Countrey; where many Castles and strong Holds were built by them, or against them, and a great number of Names

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and Families still derived from them. But fince this Custome was probably difused before their Invasion or Conquest, and the Romans confessedly prachifed the same since their possession of this Illand, the most affured account will fall upon the Romans, or Britans Romanized.

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However certain it is that Urns, conceived of no Roman Original, are often digged up both in Normay and Denmark, handiomely described and graphically represented by the learned Physician Wormius (p); and in some parts of Denmark in no ordinary number, as stands delivered by Authours exactly describing those Countreys (q). And they contained not onely ta & Anti-Bones, but many other substances in them, as Knives, pieces of Iron, quitat. Das. Brass and Wood; and one of Norway a brass guilded Jews-harp.

Nor were they confused or careless in disposing the Noblest fort, while Cyprius, in they placed large Stones in circle about the Urns or Bodies which they interred: somewhat answerable unto the Monument of Rollrich-stones in ded abundahat England (r), or Sepulchral Monument probably erected by Rollo, who after collis, &cc. conquered Normandy; where 'tis not improbable somewhat might be discovered. Meanwhile to what Nation or person belonged that large Urn found at Albury (1), containing mighty Bones and a Buckler; what those In cheshire. large Urns found at little Maffingham (t); or Why the Anglesea Urns are Twinus de replaced with their mouths downward; remains yet undiscovered.

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bus Albionicis. In Norfolk. .bedlighled tome inverse proper littelier Covers adapted and fitted to them. But un the

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showers probably formers there.

DLaiftered and whited Sepulchres were anciently affected in cadaverous and corruptive Burials; and the rigid Fems were wont to (a) garnish . Matt. 23.29 the Sepulchres of the righteous. Hisses in Hecuba (b) cared not how meanly be Euripides. he lived, so he might finde a noble Tomb after death. Great Princes affeeted great Monuments, and the fair and larger Urns contained no vulgar Ashes; which makes that disparity in those which time discovereth among us. The present Urns were not of one Capacity, the largest containing above a Gallon, some not much above half that measure; nor all of one Figure, wherein there is no strict conformity in the same or different Countreys; observable from those represented by Casalins, Bosio, and others, though all found in Italy: while many have Handles, Ears, and long Necks, but most imitate a Circular figure, in a spherical and round composure; whether from any mystery, best duration, or capacity, were but a conjecture. But the common form with Necks was a proper figure, making our last Bed like our first, nor much unlike the Urns of our Nativity, while eve lay in the neather part of the earth (c), and inward vault of our Microcosm. Many Urns are red, these but of a black colour, somewhat smooth, and dully founding; which begat fome doubt whether they were burnt, or

Itania in

onely baked in Oven or Sun; according to the ancient way in many Bricks, Tiles, Pots, and testaceous works; and as the word Testa is properly to be taken, when occurring without addition; and chiefly intended by Piny, when he commendeth Bricks and Tiles of two years old, and to make them in the Spring. Nor onely these concealed pieces, but the open magnificence of Antiquity ran much in the Artifice of Clay. Hereof the House of Mansolus was built; thus old Jupiter stood in the Capitol; and the Statua of Hercules, made in the Reign of Tarquinius Priscus, was extant in Pliny's days. And fuch as declined Burning or Funeral Urns, affected Coffins of Clay, according to the mode of Pythagoras, a way preferred by Varro. But the spirit of great ones was above these circumscriptions, affecting Copper, Silver, Gold, and Porphyrie Urns, wherein Severus lay, after a ferious view and fentence on that which should contain him (d). Some of these Urns were thought to have been filvered over, from sparklings in several Pots with small Tinsel parcells; uncertain whether from the Earth, or the first mixture in them.

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> Among these Urns we could obtain no good account of their Coverings; onely one seemed arched over with some kinde of Brick-work. Of those found at Buxton some were covered with Flints, some in other parts with Tiles; those at Yarmouth Caster were closed with Roman Bricks. And some have proper Earthen Covers adapted and fitted to them. But in the Homerical Urn of Patroclus, what-ever was the folid Tegument, we finde the immediate Covering to be a purple piece of Silk. And fuch as had no Covers might have the Earth closely pressed into them; after which dispofure were probably some of these, wherein we found the Bones and Ashes half mortered unto the Sand and fides of the Urn, and some long roots of

Quich or Dogs-grass wreathed about the Bones.

No Lamps, included Liquours, Lacrymatories or Tear-Bottles attended these rural Urns, either as sacred unto the Manes, or pationate expressions of their furviving Friends; while with rich Flames and hired Tears they folemnized their Obsequies, and in the most lamented Monuments made one part of their Inscriptions (e). Some finde Sepulchral Vessels containing Liquours, which time hath incraffated into Jellies. Fer befide these Lacrymatories, notable Lamps, with Vessels of Oils and Arocorum centum. marical Liquours, attended noble Offuaries; and some yet retaining a * Vinofity and Spirit in them, which if any have tafted they have far exceeded the Palates of Antiquity. Liquours not to be computed by years of annual Magistrates, but by great Conjunctions and the fatal periods of Kingdoms (f). The draughts of Consulary date were but crude unto these, and Opimian (2) Wine but in the muste unto them.

In fundry Graves and Sepulchres we meet with Rings, Coyns, and Chilices: Ancient Frigality was fo severe, that they allowed no Gold to attend the Corps, but onely that which served to fasten their Teeth (b). Whether the Opaline Scone in this Urn were burnt upon the Finger of the

cum lacrymis pofuere. * Lazius. f About five h undred years. Plate. 8 Vinam Opiтіант ал-Petron. 12 Tabul. 1. xi. de Fure facro. Néve aurum addito, aft quoi anvo dentes vineti erant, im cam illo sepesire france efto.

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dead, or cast into the Fire by some affectionate Friend, it will confist with either Custome. But other incinerable substances were found so fresh, that they could feel no findge from Fire. These upon view were judged to be Wood, but finking in water and tried by the fire we found them to be Bone or Ivory. In their hardness and yellow colour they most resembled Box, which in old expressions found the Epithete (i) of Eternal, and perhaps in fuch Conservatories might have passed uncorrupted,

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That Bry-leaves were found green in the Tomb of S. Humbert (k), Theophraft. after an hundred and fifty years, was looked upon as miraculous. Remarkable it was unto old Spectators, that the Cypress of the Temple of Diana lasted so many hundred years. The Wood of the Ark and Olive-rod of Aaron were older at the Captivity. But the Cypress of the Ark of Noah was the greatest vegetable Antiquity, if Fosephus were not deceived by some Fragments of it in his days. To omit the Moor-logs and Firretrees found under ground in many parts of England, the undated ruines of Winds, Flouds or Earthquakes; and which in Flanders Rill shew from what Quarter they fell, as generally lying in the North-East position (1).

But though we found not these pieces to be Wood, according to first apprehension, yet we missed not altogether of some woody substance; for the Bones were not so clearly pick'd, but some Coals were found amongst them. A way to make Wood perpetual, and a fit affociate for Metall, whereon was laid the foundation of the great Ephefian Temple, and which were made the latting Tests of old Boundaries and Land-marks. Whilest we look on these, we admire not observations of Coals found fresh after four hundred years (m). In a long-deferted habitation (n) even Egg-shels have been found fresh, not tending to corruption.

In the Monument of King Childerick, the iron Reliques were found all "At Elmcham... rufty and crumbling into pieces. But our little Iron-pins, which fastned the ivory works, held well together, and loft not their Magneticall quality, though wanting a tenacious moisture for the firmer union of parts although it be hardly drawn into Fusion, yet that metall foon submitteth unto rust and diffolution. In the Brazen pieces we admired not the duration, but the freedom from rast and ill savour upon the hardest attrition: but now exposed unto the piercing Atoms of Air, in the space of a few months they begin to spot and betray their green Entrals. We conceive not these Urns to have descended thus naked as they appear, or to have entred their Graves without the old habit of Flowers. The Urn of entred their Graves without the old habit of Flowers. Philopæmen was so laden with Flowers and Ribbands, that it afforded no fight of it felf. The rigid Lycurgus allowed Olive and Myrtle. The Athenians might fairly except against the practice of Democritus, to be buried up in Honey, as fearing to imbezzle a great Commodity of their Country, and the best of that kinde in Europe. But Plato seemed too frugally politick, who allowed no larger Monument then would contain four Heroick veries, and defigned the most barren ground for Sepulture. Though.

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Though we cannot commend the goodness of that Sepulchral ground which was fer at no higher rate then the mean Salary of Judas. Though the Earth had confounded the Ashes of these Ossuaries, yet the Bones were so smartly burnt, that some thin Plates of Brass were found half melted among them: whereby we apprehended they were not of the meanest Carkasses, perfunctorily fired, as sometimes in military, and commonly in Pestilence-Burnings; or after the manner of abject Corps huddled forth and carelefly burnt without the Efquiline Port at Rome : which was an Affront con-Amphitheatro tinued upon Tiberius, while they but half burnt his Body ", and in the Amphitheater, according to the custome in notable Malefactors: whereas Nero feemed not so much to fear his Death, as that his Head should be cut off, and his Body not burnt entire.

Some, finding many fragments of Sculls in these Urns, suspected a mix-P So the most ture of Bones. In none we searched was there cause of such conjecture, though sometimes they declined not that practice. The Ashes of (0) Domitian were mingled with those of Julia; of Achilles with those of Parnoclus: All Urns contained not fingle Ashes; without confused Burnings they affectionately compounded their Bones, passionately endeavouring to continue their living Unions. And when distance of death denied such Conjunctions, unsatisfied affections conceived some satisfaction to be neighbours in the Grave, to lie Urn by Urn, and touch but in their names. And many were fo curious to continue their living Relations, that they r'Al 26-lin wal- Contrived large and Family-Ilrns, wherein the Athes of their nearest Friends and Kindred might successively be received (p), at least some parcels thereof, while their collateral memorials lay in minor Veffels about

Antiquity held too light thoughts from Objects of Mortality, while some rollingGlobe, drew provocatives of Mirth from Anatomies (9), and Jugglers shewed tricks with Skeletons: when Fiddlers made not so pleasant mirth as Fencers, and men could fit with quiet stomachs while (r) Hanging was plaid Knife in their before them. Old confiderations made few Memento's by Sculls and Bones upon their Monuments. In the Agyptian Obelisks and Hieroglyphical Figures it is not easie to meet with Bones. The Sepulchral Lamps speak nothing less then Sepulture; and in their literal draughts prove of-ten obscene and antick pieces. Where we finde D. M. (s) it is obvious to meet with facrificing Patera's and Vessels of Libation upon old Sepulchral Monuments. In the Fenish Hypogaum (t) and subterranean Cell at Rome was little observable beside the variety of Lamps, and frequent draughts of the holy Candlestick. In authentick draughts of Antony and Ferome, we meet with Thigh-bones and Death's-heads: but the cometerial Cells of ancient Christians and Martyrs were filled with draughts of Scripture-Stories; not declining the Flourishes of Cypress, Palms and Olive, and the mystical Figures of Peacocks, Doves and Cocks; but iterately affecting the Pourtraicts of Enoch, Lazarus, Jonas, and the Vision of Ezekiel, as hopefull

* Sucton. in vita Tib. Gia Seminstreamdum. Not. Ca-

Sucton. ia vitaDomitian. learned and worthy Mr. M. Cafanbon upon Asteri-

9 Sic erimus cuntti, &c. Ergo dum vivimus, viva-

rous Pastime at Feafts , when men ftood upon a Necks in a Rope, and a hands, ready to cut it when the Stone was rolled away, wherein if they failed, they loft their lives, to the Laughter of their Spectators. Athenæus.

Dies Manibuss. Bosio.

hopefull draughts, and hinting imagery of the Resurrection, which is the life of the Grave, and sweetens our habitations in the Land of Moles and Pilmires.

Gentile Inscriptions precisely delivered the extent of mens Lives, seldome the manner of their Deaths, which History it felf so often leaves obscure in the Records of memorable persons. There is scarce any Philosopher but dies tivice or thrice in Laertins; nor almost any Life without two or three Deaths in Plutarch: which makes the tragical Ends of noble Perfons more favourably refented by compassionate Readers, who finde some relief in the Election of fuch differences.

The certainty of Death is attended with uncertainties in Time, Manner, Places. The variety of Monuments hath often obscured true Graves, and Cenotaphs confounded Sepulchres. For befide their real Tombs, many have found honorary and empty Sepulchres. The variety of Homer's Monuments made him of various Countries. Enripides (v) had his Tomb 'Pausan. in Africa, but his Sepulture in Macedonia. And Severus (x) found his Lamprid. in

real Sepulchre in Rome, but his empty Grave in Gallia.

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He that lay in a golden Urn () eminently above the Earth was not severi. like to finde the quiet of these Bones. Many of these Urns were broke by Trajasus. a vulgar discoverer in hope of inclosed Treasure. The Ashes of Marcellus Dion. (z) were lost above-ground, upon the like account. Where Profit hath Marcell. prompted, no Age hath wanted fuch Miners : For which the most barba- The Commisrous Expilators found the most civil Rhetorick. Gold once out of the sion of the Earth is no more due unto it; what was unreasonably committed to the Gothilb King ground is reasonably resumed from it. Let Monuments and rich Fabricks, finding out not Riches, adorn mens Ashes. The Commerce of the living is not to be Sepulchral transferred unto the dead. It is not injuffice to take that which none com- Treasure, plains to lose; and no man is wronged where no man is Possessour.

What virtue yet fleeps in this Terra damnata and aged Cinders, were Var. 1. 4. petty Magick to experiment: These crumbling Reliques and long-fired particles superannuate such expectations. Bones, Hairs, Nails and Teeth of the dead were the treasures of old Sorcerers. In vain we revive such practices. Present Superstition too visibly perpetuates the folly of our Britannia Fore-fathers, wherein unto (a) old Observacion this Island was so com- bodie cam et-

plear, that it might have instructed Persia.

Plato's Historian of the other world lies twelve days incorrupted, while tastis Ceremohis Soul was viewing the large stations of the Dead. How to keep the nis, at deliffe Corps feven days from Corruption by Anounting and Washing, without Perfis videri Exenteration, were an hazardable piece of art in our choicest practice. How 1.29. they made distinct Separation of Bones and Ashes from hery admixture, hath found no historical folution; though they feemed to make a distinct Collection, and overlooked not Pyrrbus his Toe. Some provision they might make by fietile Veffels, Coverings, Tiles, or flat Stones, upon and about the Body; and in the same Field, not far from these Urns, many

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Stones were found under ground: as also by carefull separation of extraneous matter, composing and raking up the burnt Bones with Forks, obserb Topographia vable in that notable Lump of Galuanus Martianus (b), who had the fight of that Vas ustrinum, or Vessel wherein they burnt the dead, found in the Esquiline Field at Rome; which might have afforded clearer solution. But their infatisfaction herein begat that remarkable invention in the Funeral pellatum, quod Pyres of some Princes, by incombustible Sheets made with a texture of is co cadavera Asbestos, incremable Flax, or Salamander's wool, which preserved their

comburerentur. Bones and Ashes (c) incommixed.

How the bulk of a man should sink into so few pounds of Bones and To be seen Ashes may seem strange unto any who considers not its Constitution, and in Licet. de how flender a mass will remain, upon an open and urging Fire, of the carnal reconsistis ve- composition. Even Bones themselves reduced into Ashes do abate a notable proportion; and, confifting much of a volatile Salt, when that is fired out, make a light kinde of Cinders: although their bulk be disproportionable to their weight, when the heavy principle of Salt is fired out, and the Earth almost onely remaineth; observable in Sallow, which makes more Ashes then Oak, and discovers the common Fraud of selling Ashes by measure, and not by ponderation.

Some Bones make best Skeletons (d), some Bodies quick and speediest according to Ashes. Who would expect a quick flame from Hydropical Heraelitus? The poisoned Souldier, when his Belly brake, put out two Pyres, in Plutarch (e). But in the Plague of Athens (f) one private Pyre served two or three Intruders; and the Saracens burnt in large heaps by the King of Caffile (g) shewed how little Fewel sufficeth. Though the Funeral Pyre of Patroclus took up an hundred foot (b), a piece of an old Boat burnt Pompey. And if the burthen of Isaac were sufficient for an Holocaust, a

man may carry his own Pyre.

From Animals are drawn good burning Lights, and good medicines (i) against Burning. Though the seminal humour seems of a contrary nature to Fire, yet the Body compleated proves a combustible lump, wherein Fire findes flame even from Bones, and some fewel almost from all parts; though Speran. Alb. the (k) Metropolis of Humidity feems least disposed to it, which might render the Sculls of these Urns less burned then other Bones. But all flies or finks before fire almost in all Bodies: When the common Ligament is diffolved, the attenuable parts afcend, the rest subside in Coal, Calx, or Ashes.

To burn the Bones of the King of (1) Edom for Lime, feems no irratio-As Artemi- nal Ferity: But to drink of the Ashes of dead Relations (m), a passionate Prodigality. He that hath the Ashes of his Friend hath an everlasting Treafare. Where Fire taketh leave, Corruption flowly enters. In Bones well burnt, Fire makes a Wall against it self; experimented in Copels and Tests of Metalls, which confift of fuch ingredients. What the Sun compoundeth, Fire analyseth, not transmuteth. That devouring Agent leaves almost always a morfel for the Earth, whereof all things are but a Colony; and which, if

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.d Old Bones, Lyfersus. Those of young perfons, not tall mor fat, according to Columbus. e In vita Grace. F Thucydides. g Laurent. Valla. h'Engliperodi Tida & Irda. & The Brain. Hippocrates.

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time permits, the Mother-Element will have in their primitive mass again, He that looks for Urns and old Sepulchral Reliques, must not seek them in the Ruines of Temples, where no Religion anciently placed them. These were found in a Field, according to ancient Custome, in noble or private Burial; the old practice of the Canaanites, the Family of Abrabam, and the Burying-place of Fosua, in the Borders of his possessions: and also agreeable unto Roman practice to bury by High-ways, whereby their Monuments were under eye, Memorials of themselves, and Memento's of Mortality unto living Passengers; whom the Epitaphs of Great ones were fain to beg to stay and look upon them. A language though sometimes afed, not so proper in Church-Inscriptions (n). The sensible Rhetorick of the dead to Exemplarity of good life first admitted the Bones of pions men and Martyrs within Church-walls, which in succeeding Ages crept into promiscuous practice; while Constantine was peculiarly favoured to be admitted unto the Church-Porch, and the first thus buried in England

was in the days of Cutbred. Christians dispute how their Bodies should lie in the Grave. In Ut- Kirckmannal Interement they clearly escaped this Controversie. Though we decline hus de Faster.

the Religious confideration, yet in cometerial and narrower Buying-places, to avoid confusion and cross position, a certain posture were to be admitted; which even Pagan civility observed. The Persians lay North and South; the Megareans and Phoenicians placed their Heads to the East; the Athenians, some think, towards the West, which Christians still retain. And Beda will have it to be the posture of our Saviour. That he was crucified with his face towards the West, we will not contend with Tradition, and probable account: But we applaud not the hand of the Painter, in exalting his Cross so high above those on either fide; fince hereof we

finde no authentick account in History, and even the Crosses found by Helena pretend no such distinction from longitude or dimension.

Tobe knav'd out of our Graves, to have our Sculls made Drinkingbowls and our Bones turned into Pipes, to delight and sport our Ene-

mies, are Tragical Abominations, escaped in burning Burials. Urnal Interrments and burnt Reliques lie not in fear of Worms, or to be an Heritage for Serpents: In carnal Sepulture Corruptions feem peculiar unto parts, and fome speak of Snakes out of the Spinal Marrow. But while we suppose common Worms in Graves, 'tis not easie to finde any there; few in Church-yards above a foot deep, fewer or none in Charches, though in fresh-decayed Bodies. Teeth, Bones and Hair give the most lasting defiance to Corruption. In an Hydropical Body ten years buried in a Church-yard we met with a fat concretion, where the Nitre of the Earth and the falt and lixivious Liquour of the Body hid coagulated large lumps of Fat into the confidence of the hardest Cafflefoap; whereof part remainesh with us. After a Battel with the Per Sans, the Roman Corps decayed inferridaps, while the Rantan Bodies remained dry

o Of Thomas Marquels of Dorfet, whose Body 1530, Was 1608 upon the cutting open of the Cereclo:h found perfeet, and nothing corrupted, the Flesh not in colour, proportion and formers like an ordinary Corps interred. Burton's Descript. of Leicefter-(hirc. of Ruffin.

and uncorrupted. Bodies in the same ground do not uniformly diffolve, nor Bones equally moulder; whereof in the opprobrious Difease we expect no long duration. The Body of the Marqueis of Dorfet feemed found and handsomely Cereclothed, that after seventy eight years was found uncorrupted (0). Common Tombs preferve not beyond Powder: A firmer being buried confistence and compage of parts might be expected from Arefaction, deep Barial, or Charcoal. The greatest Antiquities of mortal Bodies may remain in petrified Bones; whereof, though we take not in the Pillar of Lat's wife, or Metamorphofis of Ortelius (p), fome may be older then Pyramids, in the petrified Reliques of the general Inundation. When Alexander opened the Tomb of Corus, the remaining Bones discovered his proportion; whereof Urnal Fragments afford but a bad conjecture, and have this disadvantage of Grave-Interrments, that they leave us ignorant of most personal discoveries. For fince Bones afford not onely Rectihardened but tude and Stability, but Figure, unto the Body; it is no impossible Physiognomy to conjecture at fleshly Appendences, and after what shape the Muscles and Carnous parts might hang in their full confistences. A fullfored Cariola shews a well-shaped Horse behinde; handsome-formed Sculls give some Analogy of Flesh-resemblance; a critical view of Bones newly to be makes a good diffinction of Sexes. Even Colour is not beyond conjecture; fince it is hard to be deceived in the distinction of Negro's Sculls. (q) Dante's Characters are to be found in Sculls as well as Faces. Hercules is not onely known by his Foot: Other parts make out their compro-P In his Mip portions, and inferences upon whole or parts. And fince the dimenfions of the Head measure the whole Body, and the Figure thereof gives Date, in his conjecture of the principal Faculties; Physiognomy out-lives our selves, view of Pur- and ends not in our Graves. 10 2001 9700t authoritick account in Editory

garory, found Cluttons fo meagre and extenuated, that he conceited them to have been in the Siege of Jerufalen, and that it was case to have discovered Homo or Omo in their Faces: M being made by the two lines of their Cheeks, arching over the Eye-brows to the Nose, and their sunk eyes making O O, which makes up Omo.

Parean gliocchiair, anella senza gemme, Che nel viso de gli buomini legge buomo; B.n bavria quivi conosciuto lemme.

> Severe Contemplators, observing these lasting Reliques, may think them good Monuments of persons past, little advantage to future beings; and confidering that Power which subdueth all things unto it felf, that can resume the scattered Atomes, or identifie out of any thing, conceive it superfluous to expect a Refurrection out of Reliques. But the Soul fubfilting, other matter clothed with due accidents may falve the Individuality. Yet the Saints, we observe, arose from Graves and Monuments about the holy City. Some think the ancient Patriarch's fo earnestly defired to lay their Bones in Canaan, as hoping to make a part of that Refurrection, and though thirty miles from Mount Calvary, at least to lie in that Region which should produce the first-fruits of the dead. And if, according to learned conjecture, the Bodies of men shall rife where their greatest Re

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liques remain, many are not like to erre in the Topography of their Refurrection, though their Bones or Bodies be after translated by Angels Tirin. in Einto the field of Ezekiel's Vision, or, as some will order it, into the zek. Valley of Judgement, or Febosaphat.

CHAP. IV.

Hristians have handsomely glossed the deformity of Death, by care-Gull confideration of the Body, and civil Rites, which take off brutal terminations: and though they conceived all repairable by a Refurrection, cast not off all care of Interrment. And finee the Ashes of Sacrifices burnt upon the Altar of God were carefully carried out by the Priests, and deposed in a clean field; fince they acknowledged their Bodies to be the Lodging of Christ and Temples of the Holy Ghost; they devolved not all upon the fufficiency of Soul-existence: and therefore with long Services and full Solemnities concluded their last Exequies, wherein (a) to all diffinctions the Greek Devotion feems most pathetically cere- * Rithale

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Christian invention hath chiefly driven at Rites which speak hopes of J.Goar, in another life, and hints of a Resurrection. And if the ancient Gentiles held not the Immortality of their better part, and some subsistence after Death; in feveral Rites, Customs, actions and expressions, they contradicted their own Opinions: wherein Democritus went high, even to the thought of a Resurrection (b), as is scoffingly recorded by Pliny. What similis recan be more express then the expression of Phocylides (6)? Or who viviscends would expect from Lucretius (d) a sentence of Ecclesiastes? Before Plato promissa De-could speak, the Soul had wings in Homer, which fell not, but flew out of mocrito vanithe Body into the mansions of the dead: he also observed that handsome tas, qui non distinction of Demas and Soma, for the Body conjoyned to the Soul and revixit infe. the Body separated from it. Lucian spoke much truth in jest, when he said, lum!) ista dethat part of Hercules which proceeded from Alemena perished, that from mentia eft, ite-Jupiter remained immortal. Thus (e) Socrates was content that his Friends rari vitam should bury his Body, so they would not think they buried Socrates; and morte? Plin. regarding onely his immortal part, was indifferent to be burnt or buried. "Kal raixa From such considerations Diogenes might contemn Sepulture, and, being die paint From such considerations Diogenes might contemn Sepulture, and, being die in the content could not perula, grow careless of corporal Interregion in the content could not perula, grow careless of corporal Interregion in the content could not perula, grow careless of corporal Interregion in the content could not perula, grow careless of corporal Interregion in the content could not perula a content could not perula a content con ment. The Stoicks, who thought the Souls of wife men had their habitati- Addan agoion about the Moon, might make flight account of fubterraneous deposition: Zoulras, deixceps. whereas the Pythagoreans and transcorporating Philosophers, who were a cedit enim tobe often buried, held great care of their Interrment. And the Plato- retro de terra nicks rejected not a due care of the Grave, though they put their Ashes qualifait acte to unreasonable expectations in their redious term of Return and long-fet In terram, Revolution.

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oc. Lucret. Plato is Men Phed,

Men have loft their Reason in nothing so much as their Religion, where-

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in Stones and Clouts make Martyrs; and fince the Religion of one feems Madnels unto another, to afford an account or rational of old Rites requires no rigid Reader. That they kindled the Pyre averfely, or turning their face from it, was an handsom Symbole of unwilling Ministration. That they washed their Bones with Wine and Milk; that the Mother wrapt them in Linen, and dried them in her Bosome, the first fostering part and place of their Nourishment; that they opened their eyes towards Heaven before they kindled the Fire, as the place of their hopes or original; were no improper Ceremonies. Their last Valediction (f) thrice uttered by the Attendants was also very solemn, and somewhat answered by Christians, who thought it too little, if they threw not the earth thrice upon the interred Body. That in strewing their Tombs the Romans affected the Rose, the Greeks Amaranthus and Myrtle; that the Funeral Pyre confilled of sweet fewel, Cypress, Pirre, Larix, Yew, and Trees perpetually verdant; lay filent expressions of their surviving Hopes: wherein Chriflians, which deck their Coffins with Bays, have found a more elegant Embleme. For that Tree, seeming dead, will restore it self from the Root, and its dry and exfuccous Leaves resume their verdure again; which, if we mistake not, we have also observed in Furze. Whether the planting of Yew in Church-yards hold not its original from ancient Funeral-Rites, or as an Embleme of Refurrection from its perpetual Verdure, my alfo admit conjecture.

They made use of Musick to excite or quiet the Affections of their Friends, according to different Harmonies. But the fecret and symbolical hinewas the Harmonical nature of the Soul, which delivered from the Body went again to enjoy the primitive Harmony of Heaven, from whence it first descended; which, according to its progress traced by Antiquity,

came down by Cancer, and ascended by Capricornus.

They burnt not Children before their Teeth appeared, as apprehending their Bodies too tender a morfel for Fire, and that their griftly Bones would scarce leave separable Reliques after the pyral Combustion. That they kindled not Fire in their houses for some days after, was a strict memorial of the late afflicting Fire. And mourning without hope, they had an happy fraud against excessive Lamentation, by a common opinion, that deep Sorrows disturbed their Ghosts (g).

& Tamants

That they buried their dead on their Backs, or in a supine position, seems agreeable unto profound Sleep and common posture of dying, contrary to the most natural way of Birth; nor unlike our pendulous posture in the doubtful state of the Womb. Diogenes was fingular, who preferred a prone fituation in the Grave: and some Christians (b) like neither, who declined the figure of Rest, and made choice of an erect posture.

That they carried them out of the world with their Feet forward, was not inconfonant unto Reason; as contrary unto the native posture of

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Man, and his production first into it; and also agreeable unto their Opimons, while they bid adieu unto the world, not to look again upon it : whereas Mahemetans, who think to return to a delightful life again, are carried forth with their Heads forward, and looking towards their houses.

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They closed their Eyes, as parts which first die, or first discover the fad effects of Death. But their iterated Clamations to excitate their dying or dead Friends, or revoke them unto life again, was a vanity of Affection; as not prefumably ignorant of the critical Tests of Death by apposition of Feathers, Glasses, and reflexion of Figures, which dead Eyes represent not, which how-ever not strictly verifiable in fresh and warm Cadavers, could hardly elude the Test in Corps of four or five

That they sucked in the last Breath of their expiring Friends, was surely a practice of no medical Inftitution, but a loose opinion that the Soul paffed out that way; and a fondness of Affection from some * Pythagorical * Francesco foundation, that the Spirit of one Body passed into another; which they Perucei, wished might be their own.

That they poured Oyl upon the Pyre, was a tolerable practice, while the intention rested in facilitating the Ascension : But to place good Omens in the quick and speedy Burning, to sacrifice unto the Winds for a dispatch in this office, was a low form of Superstition.

The Archimime or Jester attending the Funeral Train, and imitating the speeches, gesture and manners of the deceased, was too light for fuch Solemnities, contradicting their funeral Orations, and dolefull Rites of the Grave.

That they buried a piece of Money with them, as a Fee of the Elysian Ferryman, was a practice full of folly. But the ancient custome of placing Coyns in confiderable Urns, and the present practice of burying Medals in the noble Foundations of Europe, are laudable ways of Hiltorical difcoveries in Actions, Persons, Chronologies; and posterity will applaud them.

We examine not the old Laws of Sepulture, exempting certain persons from Burial or Burning: But hereby we apprehend that these were not the Bones of persons Planet-struck or burnt with fire from Heaven; no Reliques of Traitors to their Countrey, Self-killers, or Sacrilegious malefactors; persons in old apprehension unworthy of the Earth, condemned unto the Tartarus of Hell, and bottomless pit of Pluto, from whence there was no redemption.

Nor were onely many Customes questionable in order to their Obsequies, but also fundry Practices, Fictions, and Conceptions, discordant or obscure, of their state and future beings. Whether unto eight or ten Bodies of Men to adde one of a Woman, as being more inflammable, and unctuously constituted for the better pyrall Combustion, were any rational practice;

Pompe funchis

practice; or whether the complaint of Periander's Wife be tolerable, that wanting her Funeral Burning she suffered intolerable cold in Hell, according to the constitution of the Infernal house of Pluco, wherein Cold makes a great part of their Tortures; it cannot pass without some

question.

Why the Female-Ghosts appear unto Ulysses before the Heroes and masculine spirits; why the Psyche or Soul of Tiresias is of the masculine gender, who being blinde on Earth sees more then all the rest in Hell; why the Funeral Suppers consisted of Eggs, Beans, Smallage and Lettuce, since the dead are-made to eat Asphodels about the Elysian meadows; why, since there is no Sacrifice acceptable, nor any Propitiation for the Covenant of the Grave, men set up the Deity of Morta, and fruitlessy adored Divinities without Ears; it cannot escape some doubt.

The dead feem all alive in the humane Hades of Homer; yet cannot they speak, prophesie, or know the living, except they drink Bloud, wherein is the Life of man. And therefore the Souls of Penelope's Paramours conducted by Mercury chirped like Bats, and those which

followed Hercules made a noise but like a flock of Birds.

The departed Spirits know things past and to come, yet are ignorant of things present. Agamemnon foretells what should happen unto Ulysses, yet ignorantly enquires what is become of his own Son. The Ghosts are assaid of Swords in Homer; yet Sibylla tells Aneas in Virgil, the thin habit of Spirits was beyond the force of Weapons. The Spirits put off their Malice with their Bodies, and Casar and Pompey accord in Latine Hell; yet Ajax in Homer endures not a Conference with Ulysses. And Deiphobus appears all mangled in Virgil's Ghosts, yet we meet with

perfect Shadows among the wounded Ghofts of Homer.

Since Charon in Lucian applauds his condition among the dead, whether is it handsomely said of Achilles, that living contemner of Death, that he had rather be a Plowman's servant then Emperour of the dead? How is Hercules his Soul in Hell, and yet in Heaven, and Julius his Soul in a Star, yet seen by Aneas in Hell? except the Ghosts were but Images and Shadows of the Soul, received in higher mansions, according to the ancient division of Body, Soul, and Image or Simulachrum of them both. The particulars of suture Beings must needs be dark unto ancient Theories, which Christian Philosophy yet determines but in a Cloud of Opinions. A Dialogue between two Infants in the womb concerning the state of this world might handsomly illustrate our ignorance of the next, whereof methinks we yet discourse in Plato's Den, and are but Embryon Philosophers.

Pythagoras escapes in the fabulous Hell of Dante (i) among that swarm of Philosophers, wherein whilest we meet with Plate and Socrates, Cate is to be found in no lower place then Purgatory. Among all the set,

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Epicurus is most considerable, whom men make honest without an Elysium, who contemned life without encouragement of Immortality, and making nothing after Death, yet made nothing of the King of terrours.

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Were the Happiness of the next World as closely apprehended as the Felicities of this, it were a Martyrdome to live; and unto such as confider none hereafter, it must be more then Death to die: which makes us amazed at those Audacities that durst be Nothing, and return into their Chaos again. Certainly such spirits as could contema Death when they expected no better Being after, would have scorned to live had they known any. And therefore we applaud not the judgement of Machiavel, that Christianity makes men Cowards, or that with the confidence of but half dying, the despised Vertues of Patience and Humility have abased the spirits of men, which Pagan Principles exalted; but rather it hath regulated the wildness of Addacities in the attempts, grounds, and eternal sequels of Death, wherein men of the boldest spirits are often prodigiously temerations. Nor can we extenuate the Valour of ancient Martyrs, who contemned Death in the uncomfortable scene of their lives, and in their decrepit Martyrdomes did prosess, and not many months of their days, or parted with Life when it was scarce worth the living. For (beside that long time past holds no consideration unto a stender time to come) they had no small disadvantage from the constitution of Old age, which naturally makes men fearfull, and complexionally superannuated from the bold and couragious thoughts of Youth and fervent years. But the contempt of Death from corporal animofity promoteth not our Felicity. They may fit in the Orchestra and noblest Seats of Heaven, who have held up shaking hands in the Fire, and humanely contended for

Meanwhile Epicarus lies deep in Dance's Hell, wherein we meet with Tombs enclosing Souls which denied their Immortalities. But whether the vertuous Heathen, who lived better then he spake, or erring in the Principles of himself, yet lived above Philosophers of more specious Maximes, lie so deep as he is placed, at least so low as not to rise against Christians, who, believing or knowing that Truth, have lastingly denied it in their practice and conversation, were a Quere too sad to infish on.

But all or most apprehensions rested in Opinions of some future Being, which ignorantly or coldly believed beget those perverted Conceptions, Ceremonies, Sayings, which Christians pity or laugh at. Happy are they which live not in that disadvantage of time, when men could say little for Futurity but from Reason; whereby the noblest mindes fell often upon doubtful Deaths and melancholick Dissolutions. With these hopes Sucrates warmed his doubtful spirits against that cold Potion; and Cato, before he durst give the fatal stroak, spent part of the night in reading the Immortality of Plato, thereby confirming his wavering hand unto the animosity of that attempt.

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It is the heaviest stone that Melancholy can throw at a man, to tell him he is at the end of his Nature; or that there is no farther State to come, unto which this feems progressional, and otherwise made in vain. Without this accomplishment the natural expectation and defire of such a State were but a fallacy in nature : unfatisfied Confiderators would quartel the justice of their Constitutions, and rest content that Adam had fallen lower, whereby, by knowing no other Original and deeper Ignorance of themselves, they might have enjoyed the Happiness of inferiour Creatures; who in tranquillity possess their Constitutions; as having not the apprehension to deplore their own Natures; and being framed below the circumference of these Hopes, or cognition of better being, the Wisedom of God hath necessitated their contentment. But the superiour ingredient and obscured part of our selves, whereunto all present Felicities afford no resting contentment, will be able at last to tell us we are more then our present selves, and evacuate such Hopes in the fruition of their own Accomplishments.

CHAP. V.

Now fince these dead Bones have already out-lasted the living ones of Methuselish, and in a yard under Ground and thin walls of Clay outworn all the strong and specious Buildings above it, and quietly rested under the Drums and Tramplings of three Conquests; what Prince can promise such diuturnity unro his Reliques, or might not gladly fay,

* Sie ego componi versus in ossa velim?

" Tibuilus.

Time, which antiquates Antiquities, and hath an Art to make Dust of all things, hath yet spared these minor Monuments. In vain we hope to be known by open and visible Conservatories, when to be unknown was the means of their Continuation, and obscurity their Protection. If they died by violent hands, and were thrust into their Urns, these Bones became considerable, and some old Philosophers would honour (a) them, whose Souls they conceived most pure, which were thus snatched from their Bodies, and to retain a stronger propension unto them : whereas they weariedly left a languishing Corps, and with faint defires of Re-union. If they fell by long and aged decay, yet wrapt up in the bundle of Time they fell into indiffinction, and made but one blot with Infants. If we begin to die when we live, and long life be but a prolongation of death, our Life is a fad composition; we live with Death, and die not in a moment, How anima paigi- many Pulles made up the life of Meibufelab, were work for Archimedes:

· Oracula Chaldaica cum Scholits Picili & Plethonis. Bin AITTOTTO στόμα ψυχαί χαθερύτατας. relinquestium

Common Counters fum up the life of Moses his name (b). Our days be- bIn the Plalm come confiderable like petty fums by minute accumulations; where nume- of Mofes. rous Fractions make up but small round Numbers, and our days of a Span

long make not one little Finger (c).

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It the nearness of our last necessity brought a nearer conformity unto it, to the ancithere were a happinels in Hoary hairs, and no calamity in Half senses. But the long habit of living indisposeth us for dying; when Avarice makes us Hand, wherethe sport of Death; when David grew politickly Cruel, and Solomon could in the little hardly be faid to be the Wisest of men. But many are too early old, and Finger of the before the date of age. Adversity stretcheth our days, Misery makes right Hand * Alemena's nights, and Time hath no wings unto it. But the most tedious fignified an being is that which can unwish it self, content to be nothing, or never to Hundred. have been; which was beyond the Male-content of Fob, who curfed not Pierius in the day of his Life, but his Nativity; content to have so far been, as to Hieroglyph. have a title to future being; although he had lived here but in an hidden

state of life, and as it were an Abortion.

What Song the Sirens lang, or what name Achilles affumed when he The puzzling hid himself among Women, though puzzling Questions, are not beyond Questions of all conjecture. What time the persons of these Ossuaries entred the * famous Nations of the dead, and flept with Princes and Counfellors, might ans. Marcel. admit a wide Solution. But who were the proprietaries of these Bones, Donatus in or what Bodies these Ashes made up, were a question above Antiquarism, Suet. not to be refolved by man, nor eafily perhaps by Spirits, except we confult the Provincial Guardians, or Tutelary Observators. Had they made Job. as good provision for their Names as they have done for their Reliques, they had not so grossly erred in the art of Perpetuation. But to subsist in Bones, and be but pyramidally extant, is a fallacy in Duration. Vain Alhes, which, in the oblivion of Names, Persons, Times and Sexes, have found unto themselves a fruitless Continuation, and onely arise unto late Posterity as Emblems of mortal Vanities, Antidotes against Pride, Vainglory, and madding Vices! Pagan Vain-glories, which thought the World might last for ever, had encouragement for Ambition, and finding no Atropos unto the immortality of their Names, were never dampt with the necessity of Oblivion. Even old Ambitions had the advantage of ours in the attempts of their Vain-glories, who acting early, and before the probable Meridian of Time, have by this time found great accomplishment of their Defigns, whereby the ancient Heroes have already out-lasted their Monuments and Mechanical Preservations. But in this latter Scene of Time we cannot expect such Mummies unto our Memories, when Ambition may fear the Prophecie of Elias (e); and Charles the fifth can never hope to live within two Methuselah's of Hector (f).

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thousand years. f Hillor's fame lasting above two lives of Methuselah before that famous Prince was

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unto present considerations seems a Vanity almost out of date, and a superannuated piece of Folly. We cannot hope to live folong in our names as some have done in their persons: one Face of Janus holds no proportion to the other. 'Tis too late to be Ambitious. The great Mutations of the World are acted, or time may be too short for our Defigus. To extend our Memories by Monuments, whose death we daily pray for, and whose duration we cannot hope without injury to our expectations in the advent of the last Day, were a contradiction to our Beliefs. We, whose Generations are ordained in this fetting part of Time, are providentially taken off from fuch imaginations; and, being necessitated to eye the remaining particle of Futurity, are naturally constituted unto thoughts of the next World, and cannot excufably decline the confideration of that Duration which maketh Pyramids Pillars of fnow, and all that's past a Moment.

Circles and Right lines limit and close all Bodies, and the mortal right-8 O The cha- lined Circle (g) must conclude and shut up all. There is no Antidote against the Opium of Time, which temporally confidereth all things. Our Fathers finde their Graves in our short Memories, and sadly tell us how we may be buried in our Survivors. Grave-stones tell truth scarce forty years (b). Generations pass while some Trees stand, and old Families last not three Oaks. To be read by bare Inscriptions, like many in Gruter (i), up, and other to hope for Eternity by Ænigmatical Epithets or first letters of our Names, to be studied by Antiquaries who we were, and have new Names given us like many of the Mummies, are cold Confolations unto the Students of

scriptiones an- Perpetuity, even by everlasting Languages.

To be content that Times to come should onely know there was such a man, not caring whether they knew more of him, was a frigid Ambik cuperem no- tion in Cardan (k), disparaging his horoscopal inclination and judgement of himself. Who cares to subsist like Hippocrates's Patients, or Achilles's Horfes in Homer, under naked Nominations, without Deferts and noble acts, which are the balfame of our Memories, the Entelechia and Soul Card. is vita of our Subfiltences. To be nameless in worthy deed exceeds an infamous History. The Canaanitish woman lives more happily without a name, then Herodias with one. And who had not rather have been the good'

Thief, then Pilate?

But the iniquity of Oblivion blindly scattereth her Poppy, and deals with the Memory of men without distinction to merit of Perpetuity. Who can but pity the Founder of the Pyramids? Heroftrains lives that burnt the Temple of Diana; he is almost lost that built it. Time hathspared the Epitaph of Adrian's Horse, confounded that of himself. In vain we compute our Felicities by the advantage of our good Names, fince bad have equal durations; and Therfites is like to live as long as Agament non, without the favour of the everlasting Reguler. Who knows whether the best of men be known? or whether there be not more remarkable persons forgot, then any that stand remembred in the known

rafter of Death.

Old ones being taken under them. Gruteri In-

tum effe quòd fim, non opto ut sciatur qualis sim. propria.

account of Time? The first man had been as unknown as the last, and Me-

thuselah's long life had been his onely Chronicle.

Oblivion is not to be hired: The greater part must be content to be as though they had not been, to be found in the Register of God, not in the Record of Man. Twenty feven names make up the first Story, and the recorded names ever fince contain not one living Century. The number of the dead long exceedeth all that shall live. The Night of Time far furpaffeth the Day, and who knows when was the Equinox? Every hour adds unto that current Arithmetick, which scarce stands one moment. And fince Death must be the Lucina of Life, and even Pagans could doubt whether thus to live were to die; fince our longest Sun sets at right defcenfions, and makes but Winter Arches, and therefore it cannot be long before we lie down in Darkness, and have our light in Ashes; fince the Brother of Death daily haunts us with dying Memento's, and Time, that grows old it felf, bids us hope no long Duration: Diuturnity is a Dream

and folly of expectation.

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Darkness and Light divide the course of Time, and Oblivion shares with Memory a great part even of our living Beings; we flightly remember our Felicities, and the smartest stroaks of Affliction leave but short smart upon us. Sense endureth no extremities, and Sorrows destroy us or themfelves. To weep into Stones are Fables. Afflictions induce callofities, Miferies are flippery, or fall like Snow upon us, which notwithstanding is no Stupiditie. To be ignorant of evils to come, and forgetfull of evils past, is mercifull provision in Nature, whereby we digest the mixture of our few and evil days, and our delivered Senses not relapsing into cutting remembrances, our Sorrows are not kept raw by the edge of repetitions. A great part of Antiquity contented their hopes of subliftency with a Transmigration of their Souls. A good way to continue their Memories, while having the advantage of plural successions, they could not but act something remarkable in fuch variety of Beings, and enjoying the fame of their passed selves, make accumulation of glory unto their last Durations. Others, rather then be lost in the uncomfortable night of Nothing, were content to recede into the common Being, and make one particle of the publick Soul of all things, which was no more then to return into their unknown and divine Original again. Agyptian ingenuity was more unfatiffied, contriving their Bodies in fiveet Confiftences to attend the return of their Souls. But all was vanity, feeding * the winde, and folly. The * Omnia va-Agyptian Mummies, which Cambyfes or Time hath spared, Avarice now vitas & paconsumeth. Mummie is become Merchandise, Mizraim cures Wounds, file venti, and Pharaob is fold for Balfams.

In vain do Individuals hope for Immortality, or any patent from Obli- nt olim Aquila vion, in preservations below the Moon: Men have been deceived even in Symmatheir flatteries above the Sun, and studied conceits to perpetuate their V. Druf. Ecnames in Heaven. The various Cosmographie of that part hathalready ess.

varied the names of contrived Confiellations; Nimrod is lost in Orion, and Ofiris in the Dog-star. While we look for incorruption in the Heavens, we finde they are but like the Earth; durable in their main Bodies, alterable in their Parts: whereof, beside Comets and new Stars, Perspectives begin to tell tales; and the Spots that wander about the Sun,

with Phaethon's favour, would make clear conviction.

There is nothing strictly immortal but Immortality; what-ever bath no Beginning may be confident of no End: (all others have a dependent Being, and within the reach of destruction) which is the peculiar of that necessary Essence that cannot destroy it self; and the highest strain of Omnipotency, to be so powerfully constituted, as not to suffer even from the power of it felf. But the fufficiency of Christian Immortality frustrates all earthly glory, and the quality of either state after death makes a folly of posthumous memory. God, who can onely destroy our Souls, and hath affured our Refurrection, either of our Bodies or Names hath directly promiled no duration; wherein there is fo much of Chance, that the boldest expectants have found unhappy frustration; and to hold long subfiltence, feems but a scape in Oblivion. But man is a noble Animal, splendid in Ashes, and pompous in the Grave, solemnizing Nativities and Deaths with equal luftre, nor omitting Ceremonies of Bravery in the infamy of his nature.

Life is a pure Flame, and we live by an invisible Sun within us. A fmall Fire fufficeth for life, great Flames seemed too little after death, while men vainly affected precious Pyres, and to burn like Sardanapalus. But the wifedom of Funeral Laws found the folly of prodigal Blazes, and reduced undoing Fires unto the rule of fober Obsequies, wherein few could be so mean as not to provide Wood, Pitch, a Mourner, and an Urn.

Five Languages secured not the Epitaph of Gordianus. The man of God lives longer without a Tomb then any by one, invisibly interred by Angels, and adjudged to obscurity, though not without some marks direeting humane discovery. Enoch and Elias, without either Tomb or Burial, in an anomalous state of being, are the great examples of Perpetuity in their long and living Memory, in strict account being still on this fide Death, and having a late Part yet to act upon this Stage of Earth. If in the decretory term of the world we shall not all die, but be changed, according to received Translation, the last Day will make but few Graves; at leaft quick Refurrections will anticipate lafting Sepultures a Some Graves will be opened before they be quite closed, and Lazarus be no wonder, when many that feared to die shall groan that they can die but once. The dismall state is the second and living Death, when Life puts despair on the damned; when men shall wish the coverings of Mountains, not of Monuments, and Annihilation shall be courted.

While some have studied Monuments, others have studiously declined them; and some have been so vainly boisterous, that they durst not ac-

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knowledge their Graves: wherein (1) Alaricus feems most fabtile, who I Jornandes had a River turned to hide his Bones at the bottom. Even Sylla, that de rebus Getithought himself fale in his Urn, could not prevent revenging Tongues, iii. and Stones thrown at his Monument. Happy are they whom Privacy makes innocent; who deal fo with men in this world, that they are not airaid to meet them in the next; who, when they die, make no commotion among the dead, and are not touch'd with that poetical taunt of I-Saiah (m).

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Pyramids, Arches, Obelisks, were but the irregularities of Vain-glory, and wilde enormities of ancient Magnanimity. But the most magnanimous refolution rests in the Christian Religion, which trampleth upon Pride, and fits on the neck of Ambition, humbly pursuing that infallible Perpetuity unto which all others must diminish their Diameters, and be poorly seen . Angulus con-

in Angles of contingency (n). Pious spirits, who pass their days in raptures of Futurity, made little least of Anmore of this world then the world that was before it, while they lay ob- glesscure in the Chaos of Preordination, and night of their Fore-beings. And if any have been so happy as truely to understand Christian Annihilation, Ecstasis, Exsolution, Liquefaction, Transformation, the Kiss of the Spouse, Gustation of God, and Ingression into the Divine shadow, they have already had an handsome anticipation of Heaven; the glory of the World is

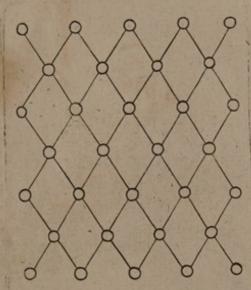
furely over, and the Earth in Athes unto them. To subfift in lasting Monuments, to live in their productions, to exist in their Names, and predicament of Chimera's, was large satisfaction unto old expectations, and made one part of their Elyziums. But all this is nothing in the Metaphysicks of true Belief. To live indeed is to be again our felves, which being not onely an hope, but an evidence, in noble Believers, 'tis all one to lie in St. Innocent's (a) Church-yard, as in the Sands on Paris, of Agypt; ready to be any thing, in the ecstasse of being ever, and as foon concontent with fix foot as the Moles of Adrianus (p).

Manfoleum or sepulchral Pile built by Adrianus in Rome, where now ftandeth the Caffile of St. Angelo.

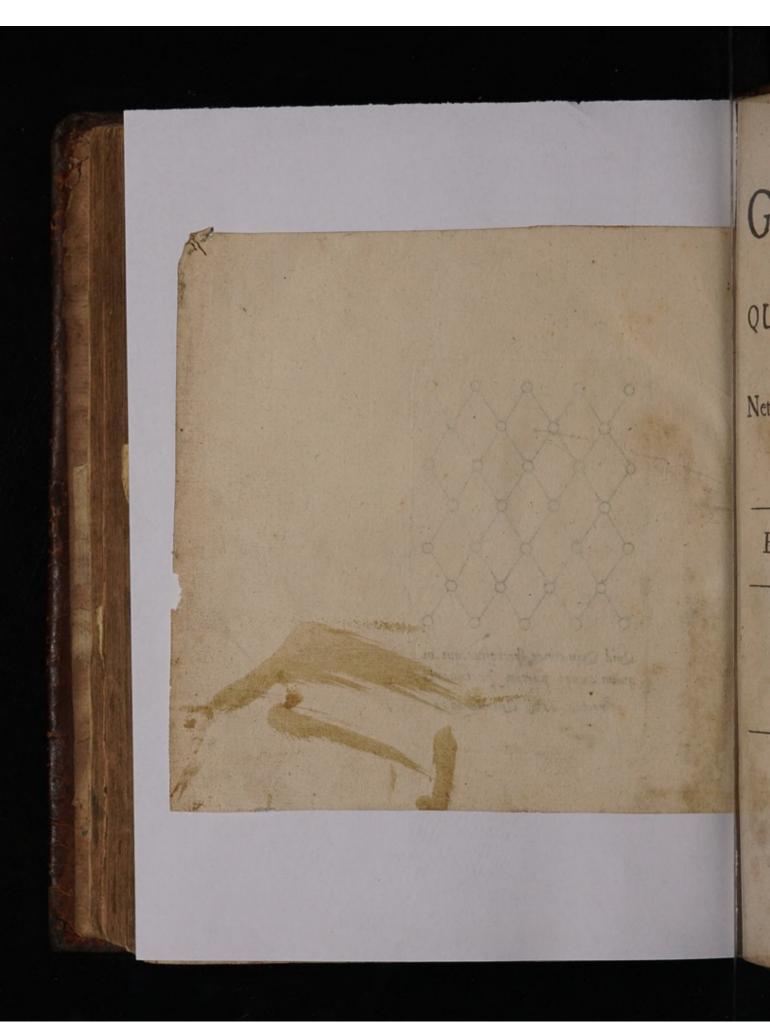
Lucan. -Tabesne cadavera solvat, An rogus, band refert.

P A Stately

and Street and the property means of the property and the contract of the taken in the st. who dealing with men in this world, that they seem Provide Calculate Water particularly and capetings of Michigan, and a lively Contract of your desired and the charge has got to according models, in the Meterphy Case of one Relief. To in an lead is to be again tierers, 'de all one to be in Ste beneries of a) Chemic yaid, as manie your as the pure revenue and the editions of the age of the print of our whole at the last to May alter of the fidual fill their by alter in Rost, where now landed the Content the state of the s



Quid Quin cunce speciosius, qui, in quam cung: partem spectaueris, rectus est: Quintilian://



THE

Garden of Cyrus;

OR, THE

QUINCUNCIAL LOZENGE,

OR

Net-work Plantations of the ANCIENTS, Artificially, Naturally, Mystically considered.

By THO. BROWN D. of Phylick.



LONDON,
Printed in the Year 1668.

Gardon of Cyrus; QUINCUNCIAL LOZENGE. Mergrooth Plancacions of the ANGIENTS, Picificially, Naturally, 'Myfically confidered. Radar and Yest af botain

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CHAP. I.



HAT Vulcan gave Arrows unto Apollo and Diana the fourth day after their Nativities, according to Gentile Theology, may pass for no blind apprehension of the Creation of the Sun and Moon in the work of the fourth day; when the diffused Light contracted into the Orbs and shooting Rays of those Luminaries. Plainer Descriptions there * Plato in Tiare from Pagan pens of the creatures of the Fourth Fronds tegi

day: While the (a) divine Philosopher unhappily omitteth the noblest part sylvas. of the Third; and Ovid, (whom many conceive to have borrowed his e Staipens) Description from Moses) coldly deserting the remarkable account of the in opening. Text, in three words (b) describeth this work of the Third day, the Vege- the Fiesh; table creation, and first ornamental Scene of Nature, the primitive Food exaigens, of Animals, and first story of Physick, in Dietetical conservation.

For though Physick may plead high, from the medicall act of God in the Rib; casting so deep a Sleep upon our first Parent; and Chirurgery (c) finde its in closing up whole Art in that one passage concerning the Rib of Adam: yet is there the part a-no rivality with Garden-contrivance and Herbary. For if Paradise were gain.

planted the third day of the Creation, as wifer divinity concludeth, the Nativity thereof was too early for Horoscopie; Gardens were before Gar-

diners, and but some hours after the Earth.

d For fome the ambiguà principio.

· Josephiss.

Of deeper doubt is its Topography and Local defignation: yet being the primitive Garden, and without much (d) controversie seated in the there is from East; it is more then probable the first Curiofity and Cultivation of Plants most flourished in those quarters. And fince the Ark of Noah first touch'd word Mikle- upon some Mountains of Armenia, the Planting Art arose again in the dem, whether East, and found its Revolution not far from the place of its Nativity, aboviente, or about the Plains of those Regions. And if Zoroafter were either Cham, Chus, or Mizraim, they were early Proficients therein, who left (as Pliny delivereth) a work of Agriculture.

However, the account of the penfil or hanging Gardens of Babylon, if made by Semiramis, the third or fourth from Nimrod, is of no flender antiquity; which being not framed upon ordinary level of ground, but raised upon Pillars admitting under-passages, we cannot accept as the first Babylonian Gardens, but a more eminent progress and advancement in that Art then any that went before it; fomewhat answering or hinting the old Opinion concerning Paradife it felf, which many conceptions elevated

above the plane of the Earth.

Nabuchodonofor, whom some will have to be the samous Syrian King of Diodorus, beautifully repaired that City, and so magnificently built his (e) hanging Gardens, that from fucceeding Writers he had the honour of the first Authour. From whence over-looking Babylon, and all the Region about it, he found no circumscription to the eye of his Ambition, till over-delighted with the Bravery of this Paradife, in his melancholick Meramorphofis he found the folly of that Delight, and a proper punishment in the contrary habitation, in wilde Plantations and Wanderings of the Fields.

The Persian Gallants, who destroyed this Monarchy, maintained their Botanicall Bravery. Unto whom we owe the very name of Paradife: wherewith we meet not in Scripture before the time of Solomon, and it is conceived originally Persian. The word for that disputed Garden expresfing in the Hebrew no more then a Field enclosed, which from the fame

Root is content to derive a Garden and a Buckler.

Cyrus the elder, brought up in Woods and Mountains, when time and power enabled, pursued the dictate of his Education, and brought the Treafures of the Field into Rule and circumscription; so nobly beautifying the hanging Gardens of Babylon, that he was also thought to be the Authour

Abasuerus (whom many conceive to have been Artaxerxes Longimanus) in the (f) Country and City of Flowers, and in an open Garden, entertained his Princes and people; while Vafthi more modestly treated the Ladies within the Palace thereof.

But if (as some opinion) King Abasucrus Were Artaxerxes Mnemon,

Sufban in · Sufiana. Plutarch in the life of Actanters.

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that found a Life and Reign antiverable unto his great Memorie, our magnified Cyrus was his fecond Brother; who gave the occasion of that memorable work, and almost miraculous Retreat of Xenophon. A person of high spirit and honour, naturally a King, though facally prevented by the barmless chance of Post-geniture: not onely a Lord of Gardens, but a manual Planter thereof, disposing his Trees, like his Armies, in regular ordination. So that while old Laertes hath found a name in Homer for pruning Hedges, and clearing away Thorns and Briars; while King Attalustives for his poisonous plantations of Aconites, Henbane, Hellebore, and Plants hardly admitted within the walls of Paradife; while many of the Ancients do poorly live in the fingle names of Vegetables; all Stories do look upon Cyrus as the splendid and regular Planter.

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According whereto Xenophon describeth his gallant Plantation at Sardis, thus rendred by Strebens; (g) Arbores pari intervalle stas, rectos or- s Xenoplon dines, & omnia perpulchre in Quincuncem directa. Which we shall take for in Geconomica, granted, as being accordingly rendred by the most elegant of the (b) La- Kale R rate in times, and by no made term, but in use before by Varro. That is, The or had moved Rows and Orders so handsomely disposed, or five Trees so fee tegether had a regular Angularity and through Prospect was lest on every side. Owing this name not onely to the quintuple number of Trees, but the Figure declaring that number, which being doubled at the Angle makes up & Cicero in the Letter x, that is the emphatical Decussation, or fundamental Figure.

Now though in some ancient and modern practice the Area or decustated Plot might be a perfect Square, answerable to a Tufcan Pedestal, and the Quinquernio or Cinque-point of a Die, wherein by Diagonal lines the Interfection was regular, accommodable unto Plantations of large-growing Trees, and we must not deny our selves the advantage of this Order; yet shall we chiefly infift upon that of (i) Curtius and Porta; in their brief description hereof, wherein the Decussis is made within a longilateral Square, with opposite Angles acute and obtuse at the Intersection, and so upon progression making a Rhombus or Lozenge figuration, which seemeth very agreeable unto the original Figure : Answerable whereunto we observe the decuffated characters in many Confulary Coins, and even in those of Constantine and his Sons, which pretend their pattern in the Sky; the crucigerous Enfign carried this Figure, not transverily or rectangularly interieeted, but in a Decustation, after the form of an Andrean or Burgundian Crofs, which answereth this description,

Where by the way we shall decline the old Theme, so traced by Antiquiry, of Croffes and Crucifixion, whereof fome being right, and of one fingle piece, without Traversion or Transome, do little advantage our subject. Nor shall we take in the mystical Tan, or the Cross of our Blessed Saviour, which, having in some descriptions an Empeden or crosling Footstay, made not one fingle Transversion. And fince the learned Lipsins hath made some doubt even of the Cross of St. Andrew, fince some Martyrological

Hortis . Bapt.

h Of Marius, Alexander. Roma Sotteryanea.

Wherein the lower part is fomewhat longer, as defined by Upton, Defindio militari, and Johannes de Bado Anreo, cam Comment. eliviff. & dolliff.Biffei. Cafal. de Ritibus.

Boso nelu Triorfante Croce.

tyrological Histories deliver his death by the general name of a Cross, and Hippolytus will have him suffer by the Sword; we should have enough to make out the received Cross of that Martyr. Nor shall we urge the Labarum and samous Standard of Constantine, or make farther use thereof, then as the first letters in the Name of our Saviour Christ, in use among Christians before the days of Constantine, to be observed in (k) Sepulchral Monuments of Martyrs in the Reigns of Adrian and Anioninus, and to be found in the Antiquities of the Gentiles before the Advent of Christ, as in the Medal of King Prolemy signed with the same Characters, and might be the beginning of some word or name which Antiquaries have not hit on.

We will not revive the mysterious Crosses of Agypt, with Circles on their heads, in the Breast of Serapis, and the hands of their Genial spirits, not unlike the Character of Venns, and looked on by ancient Christians with relation unto Christ fince, how-ever they first began, the Agyptians thereby expressed the process and motion of the Spirit of the World, and the distussion thereof upon the Celestial and Elemental nature, implied by a Circle and right-lined Intersection; a Secret in their Telesins and magical Characters among them. Though he that considereth the (1) plain Cross upon the head of the Owl in the Laterane Obelisk, or the (m) Cross erected upon a Pitcher dissuing streams of water into Basins with sprinkling Branches in them, and all described upon a two-sooted Altar, as in the Hieroglyphicks of the brazen Table of Bembus, will hardly decline all thought of Christian signality in them.

We shall not call in the Hebrew Tenapha, or ceremony of their Oblations waved by the Priest unto the four Quarters of the World, after the form of a Crois; as in the Peace-offerings. And if it were clearly made out, what is remarkably delivered from the Traditions of the Rabbins, that as the Oil was poured coronally or circularly upon the head of Kings, so the High-Priest was anointed decussatively or in the form of an X; though it could not escape a typical thought of Christ from mystical Considerations, yet being the conceit is Hebrew, we should rather expect its verification from Analogy in that Language, then to confine the same unto the unconcerned Letters of Greece, or make it out by the characters of Cadmus or Palamedes.

Of this Quincuncial Ordination the Ancients practifed much, discoursed little; and the Moderns have nothing enlarged: which he that more nearly considereth in the form of its square Rhimbus and Decustation, with the several commodities, mysteries, parallelisms and resemblances both in Art and Nature, shall easily discern the elegancy of this Order.

That this was in some ways of practice in divers and distant Nations, hints or deliveries there are from no slender Antiquity. In the hanging-Gardens of Babylon, from Abydenus, Eusevius, and others, (n) Curtins describeth this rule of Decussation. In the memorable Garden of Alcinous, anciently conceived an original phancy from Paradise, mention there is

* Decaffation ipfa incurdum ac perameanum confectum prabuit.
Curt. Hort.

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of well-contrived Order; for so have Didymns and Eustathius expounded the emphatical word. Diomedes, describing the rural possessions of his Father, gives account in the same Language of Trees orderly planted. And Mysses being a Boy was promised by his Father forty Fig-trees, and fifty (a) Rows of Vines producing all kind of grapes.

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SHEET) 16 18 That the Eastern Inhabitants of India made use of such Order, even in dumbar, of open Plantations, is deducible from Theophrastas; who, describing the control of the contr Trees whereof they made their Garments, plainly delivereth that they were planted xxl' opxxx, and in such order that at a distance men would mistake them for Vineyards. The same seems confirmed in Greece from a fingular expression in (p) Aristotle concerning the Order of Vines, de- Porchite dplivered by a military term representing the Orders of Souldiers; which also confirmeth the antiquity of this form yet used in Vineal plantations.

That the same was used in Latine Plantations is plainly confirmed from the commending pen of Varro, Quintilian, and handsome Description of

(9) Virgil. That the first Plantations not long after the Floud were disposed after diabus; nec this manner, the generality and antiquity of this Order observed in Vineyards and Vine-plantations affordeth some conjecture. And fince, from boribus positis, judicious enquiry, Saturn, who divided the world between his three Sons, fecto via limiwho beareth a Sickle in his hand, who taught the Plantations of Vines, the te quadret. fetting, grafting of Trees, and the best part of Agriculture, is discove- Georg. 2. red to be Noah; whether this early-dispersed Husbandry in Vineyards had not its Original in that Patriarch, is no fuch Paralogical doubt.

And if it were clear that this was used by Noah after the Floud, I could eafily believe it was in use before it; not willing to fix such ancient inventions to higher original then Noah; not readily conceiving those aged Heroes, whose diet was vegetable, and onely or chiefly consisted in the Fruits of the earth, were much deficient in their splendid Cultivations, or after the experience of fifteen hundred years left much for future discovery in Botanical Agriculture; nor fully perfunded that Wine was the invention of Noab; that fermented Liquours, which often make themselves, so long escaped their Luxury or experience; that the first fin of the new world was no fin of the old; that Cain and Abel were the first that offered Sacrifice; or, because the Scripture is filent, that Adam or Isano offered none

at all. Whether Abraham, brought up in the first planting Countrey, observed not some rule hereof when he planted a Grove at Beer-fleba, or whether at least a like Ordination were not in the Garden of Solomon, probability may contest; answerably unto the wisedom of that eminent Botanologer, and orderly disposer of all his other works: especialy since this was one piece of Gallantry wherein he pursued the specious part of Felicity; according to his own description; I made me Gardens and Or- Eccles. 22 chards, and planted Trees in them of all-kindes of fruit. I made me Pools of

Phavorimis. Philoxenus.

9 Indulge or-

Cyrus's Garden, or, The Quincunx Artificially considered.

water, to water therewith the wood that bringeth forth Trees; which was no ordinary Plantation, if, according to the Targum, or Chaldee Paraphrase, it contained all kinds of Plants, and some setched as far as India, and the extent thereof were from the wall of Jerusalem unto the water of Silvab.

Vet. Teftamenti Pha-745.

" Which King Numa fet up with his Fingers for disposed, noted 365. Pliny.

And if Fordan were but Faar Eden, that is, the River of Eden, Genefar but Ganfar, or the prince of Gardens; and it could be made out, that the Plain of Fordan were watted not comparatively, but causally, and because it was the Paradife of God, as the learned (r) Abramas hinteth; he was not far from the Prototype and original of Plantations. And fince even in Paradite it felf the Tree of Knowledge was placed in the middle of the Garden, what-ever was the ambient Figure, there wanted not a Centre and rule of Decuffation. Whether the Groves and facred Plantations of Antiquity were not thus orderly placed, either by Quaternio's or quintuple Ordinations, may favourably be doubted. For fince they were so methodical in the constitutions of their Temples, as to observe the due situation, aspect, manner, form and order in Architectonical relations, whether they were not as diffinct in their Groves and Plantations about them in form and species respectively unto their Deities, is not without probability of conjecture. And in their Groves of the Sun this was a fit number, by multiplication to denote the Days of the Year; and might hieroglyphically speak as much as the mystical Statua of (s) Fanns in the Language of his Fingers. And fince they were fo critical in the number of his Horses, the strings of his Harp, and Rays about his Head, denoting the Orbs of Heaven, the Seafons and Months of the Year; witty Idolatry would hardly be that they nu- flat in other appropriations.

CHAP. II.

OR was this onely a form of practice in Plantations, but found imitation from high Antiquity in fundry Artificial Contrivances and mamual Operations. For, to omit the polition of Squared Stones coneatin or wedge-wife in the Walls of Roman and Gothick Buildings, and the Lithostrota or figured Pavements of the Ancients, which confisted not all of Square stones, but were divided into triquetrous Segments, Honey-combs, and fexangular Figures, according to Viruvius; the squared Stones and Bricks in ancient Fabricks were placed after this order, and two above or below conjoyned by a middle-stone or Plinthus, observable in the Ruins of Furum Nerve, the Mansoleum of Angustus, the Pyramid of Cestins, and the sculpture-draughts of the larger Pyramids of Agypt. And therefore in the draughts of eminent Fabricks Painters do commonly imitate this Order in the lines of their description.

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In the Laureat draughts of Sculpture and Picture the Leaves and foliate works are commonly thus contrived, which is but in imitation of the Pulvinaria and ancient Pillow-work, observable in Ionick pieces about Columns, Temples and Altars. To omic other Analogies in Architectonical Draughts; which Art it felf is founded upon (a) Fives, as having its Sub- Of a Struject and most gracefull pieces divided by this Number.

parts, Funda-

mentum, Parietes, Apertura, Compartitio, Tettum, Leo Alberti: Five Columns, Trfcan, Dorick, 10atch, Coristhian, Compound: Five different Intercolumniations, Pycnostylos, Diastylos, Systylos, Accostylos, En-Stylos. Vitruy.

The Triumphal, Oval, and Civical Growns of Laurel, Oak, and Myrtle, when fully made, were plaited after this order. And, to omit the Croffed Crowns of Christian Princes, of what figure that was which Anaftafins described upon the Head of Les the third, or who first brought in the Arched Crown; that of Charles the Great (which feems the first remarkably-closed Crown) was framed after this (b) manner, with an Inter- " wir co-flat fection in the middle from the main crofting Bars, and the Interspaces unapud Chifflet.
to the Frontal circle continued by handsome Network-plaits, much atin B. K. Binter this order. Whereon we shall not infift, because from greater Anti- rellis, & Icon. quity, and practice of Confectation, we meet with the Radiated and Star- Fam. Stradæ. ry Crown upon the Head of Augustus, and many succeeding Emperours; fince the Armenians and Parthians had a peculiar Royal Cap, and the Gracians from Alexander another kinde of Diadem. And even Diadems themfelves were but Fasciations and handsome Ligatures about the Heads of Princes; not wholly omitted in the Mitral Crown, which common Pa-Eture feems to fet too upright and forward upon the Head of Auron; worn fometimes fingly or doubly by Princes, according to their Kingdomes, and no more to be expected from two Crowns at once upon the Head of Prolemy. And so easily made out when Historians tell us, some bound up wounds, some hanged themselves with Diadems.

The Beds of the Ancients were corded somewhat after this fashion; that is, not directly, as ours at present, but obliquely, from fide to fide, and after the manner of Network; whereby they ftrengthned the Spinde or Bedfides, and spent less Cord in the work, as is demonstrated by (c) Blancanus. Aristor. Me-

And as they lay in croffed Beds, fo they fat upon feeming croffe-legged chan quest. Seats; in which form the noblest thereof were framed; observable in the Triumphal Seats, the Sella Curulis or Adile Chair, in the Coins of Cestins, Sylla, and Julius. That they fat also croffe-legg'd many noble Draughts declare; and in this figure the fitting Gods and Goddeffes are drawn in Medalls and Medallions. And beside this kinde of work in Retiarie and hanging Tectures, in Embroideries and eminent Needle-works, the like is obvious unto every eye in Glass-windows: nor onely in Glashe contrivances, but also in Lattice and Stone-work, conceived in the Temple of Solomon, wherein the Windows are termed Feneftra reticulates or Lights dialouid. framed

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framed like Nets; and agreeable unto the Greek expression concerning Cant. 2. 9. Christ in the (d) Canticles looking through the Nets, which ours hath rendred, He looketh forth at the windows, shewing himself through the Lattesse, that is, partly feen and unfeen, according to the visible and invisible fide of his nature. To omit the noble Reticulate work in the Chapiters of the Pillars of Solomon, with Lillies and Pomegranates upon a Network-ground; and the Craticula or Grate through which the Ashes fell in the Altar of

Barnt-offerings.

That the Networks and Nets of Antiquity were little different in the from from ours at present, is confirmable from the Nets in the hands of the Retiarie Gladiators, the proper Combatants with the Secutores. To omit the ancient Conopeion or Guat-net of the Agyptians, the inventers of that Artifice; the rushy Labyrinths of Theocrius; the Nosegay-nets, which hung from the Head under the Noffrils of Princes; and that uneafie metaphor of Reciculum Jecoris, which some expound the Lobe, we the Caul above the Liver. As for that famous Network of Vulcan, which inclosed Mars and Venus, and caused that unextinguishable Laugh in Heaven; fince the Gods themselves could not discern it, we shall not prie into it : although why Vulcan bound them, Neptune loofed them, and Apollo should first discover them, might afford no vulgar Mythologie. Heralds have not omitted this Order or imitation thereof, whiles they fymboseaccatis, ma- lically adorn their Scutcheons with Mascles, Fusils and Saltirs, and while fentatis, inve- they dispose the figures of Ermins and varied Coats in this Quincuncial

To See to of Aus. Hom.

etis, fufelatic, method. vide Spelm. Aspiloz. &

The same is not forgot by Lapidaries, while they cut their Gemms pyramidally, or by aquicrural Triangles. Perspective Pictures, in their Base, trudit. Biffico. Horizon, and lines of Distances, cannot escape these Rhomboidal Decusfations. Sculptors in their strongest Shadows after this order dodraw their double Haches : And the very Americans do naturally fall upon it in their neat and curious Textures, which is also observed in the elegant Artifices of Europe. But this is no law unto the Woof of the neat Reviarie Spider, which feems to weave without Transversion, and by the union of Right lines to make out a continued Surface; which is beyond the common Art of Textury, and may still nettle Minerva, the Goddess of that Mysterie. And he that shall hatch the little Seeds, either found in small Webs or white round Eggs carried under the bellies of fome Spiders, and behold how at their first production in Boxes they will presently fill the same with their Webs, may observe the early and untaught finger of Nature, and how they are natively provided with a stock sufficient for such Texture.

As in the contention between Minerva and Arachite.

> The rural Charm against Dodder, Tetter, and strangling Weeds, was contrived after this Order, while they placed a chalked Tile at the four corners, and one in the middle of their Fields; which though ridicalous in the intention, was rational in the contrivance, and a good

way to diffuse the Magick through all parts of the Area.

Somewhat after this manner they ordered the little Stones in the old Game of Pentalithismus, or casting up five Stones to catch them on the back of their hand. And with some resemblance hereof the Proci or prodigal Paramours disposed their men, when they played (e) Penelope: For being themselves an hundred and eight, they set fifty four Stones on things. either fide, and one in the middle, which they called Penelope, which he

that hit was Master of the Game.

In Cheffe-boards and Tables we yet finde Pyramids and Squares: I with we had their true and ancient description, far different from ours, or the Chee-mate of the Persians, and might continue some elegant remarkables, as being an invention as high as Hermes the Secretary of Ofiris, figuring Plato. the whole World, the Motion of the Planets, with Eclipses of Sun and

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Phylicians are not without the use of this Decustation in several Operations, in Ligatures and Union of diffolved Continuities. Mechanicks make use hereof in forcipal Organs and Instruments of Incision: wherein who can but magnifie the power of Decustation, inservient to contrary ends, Solution and Confolidation, Union and Division, illustrable from Aristotle in the old Nucifragium or Nut-cracker, and the Instruments of Evultion, Compression or Incision; which confisting of two Vectes or Arms converted towards each other, the innitency and stress being made upon the Hypomochlion or Fulciment in the Decustation, the greater Compression is made by the Union of two Impulsors?

The Roman (f) Battalia was ordered after this manner, whereof, as f In the diffufficiently known, Virgil hath left but an hint and obscure intimation. For thus were the Maniples and Cohorts of the Haftati, Principes and Triarii placed in their Bodies, wherein confisted the strength of the the Repub-

polure of the the Wars of lick, before the division of the Legion into ten Cohorts by the Emperours. Salmaf.in his Epiftle a Monfiew de Peirefe, de Remilitari Roma-

greated Marions, so that I posterious as the partore field he to enough for one day's well to action the Heart of the Cary, to make

Roman Battel. By this Ordination they readily fell into each other: the Hastati being pressed, handsomely retired into the Intervalls of the Principes, these into that of the Triarii; which making as it were a new Body, might joyntly renew the Battel, wherein confifted the Tecret of their Successes. And therefore it was remarkably (g) fingular in the Bat- Appianus. tel of Africa, that Scipio, fearing a Rout from the Elephants of the Enemy,

lest not the Principes in their alternate distances, whereby the Elephants passing the Vacuities of the Hastari might have run upon them, but drew his Battel into right order, and leaving the passages bare, defeated the mischief intended by the Elephants. Out of this Figure were made two remarkable forms of Battel, the Cuneus and Forceps, or the Shear and Wedge-Battels, each made of half a Rhombus, and but differenced by position. The Wedge invented to break or work into a Body, the Forceps to environ and defeat the power thereof, composed out of the selectest Souldiery, and disposed into the form of an V, wherein receiving the Wedge, it inclosed it on both sides. After this form the samons (h) Narses ordered his Battel against the Franks; and by this Figure the Almens were enclosed, and cut in pieces.

Agathias.

Ammianus.

The Rhombus or Lozenge-figure, so visible in this Order, was also a re
* Elian. Tatt. markable form of Battel in the Grecian (i) Cavalry, observed by the Theffahans and Philip King of Macedon, and frequently by the Parthians, as
being most ready to turn every way, and best to be commanded, as having

its Ductors or Commanders at each Angle.

The Macedonian Phalanx (a long time thought invincible) confifted of a long Square. For though they might be fixteen in rank and file, yet when they that close, so that the fixth Pike advanced before the first, though the number might be square, the Figure was oblong, answerable unto the Quincuncial Quadrate of Carring. According to this Square Thueydides delivers the Athenians disposed their Battel against the Laceda
a comein. moniane, (k) Brick-wise; and by the same word the learned Gnelling ex
selfoniali-poundeth the Quadrat of (1) Virgil, after the form of a Brick or Tile.

Secto via limite quadret. Comment. is Ving.

And as the first Station and position of Trees, so was the first Habitation of men, not in round Cities, as of later foundation; for the form of Babylon, the first City, was square, and so shall also be the last, according to the description of the Holy City in the Apicalyps. The famous Pillars of Seth before the Floud had also the like Foundation, if they were but Antidiluvian Obelisks, and such as Cham and his Agyptian race imitated after the Floud.

Diod.Sic.

ARER WEST

But Ninive, which Authours acknowledge to have exceeded Babylon, was of a (m) longilateral Figure, ninety five Furlongs broad, and an hundred and fifty long, and so making about fixty miles in circuit, which is the measure of three days journey, according unto military Marches, or castrensial Mansions. So that if fonas entred at the narrower side, he found enough for one day's walk to attain the Heart of the City, to make his Proclamation. And if we imagine a City extending from ware to London, the expression will be moderate of sixscore thousand Infants, although we allow Vacuities, Fields, and Intervalls of habitation; as there needs must be, when the Monument of Ninus took up no less then ten Furlonge

And though none of the feven Wonders, yet a noble piece of Antiquity,

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and made by a Copy exceeding all the rest, had its principal parts disposed after this manner, that is, the Labyrinth of Crete, built upon a long Quadrate, containing five large Squares, communicating by right Inflexions terminating in the Centre of the middle Square and Lodging of the Minotaur, if we conform unto the description of the elegant Medal thereof in (n) Agostino. And though in many accounts we reckon grofly by the " Antonio Square, yet is that very often to be accepted as a long-fided Quadrate; Agostino which was the figure of the Ark of the Covenant, the Table of the Shew- delle Mebread, and the Stone wherein the names of the twelve Tribes were engraved, that is, three in a row, naturally making a longilateral Figure, the perfect Quadrate being made by nine.

What Figure the Stones themselves maintained, Tradition and Scripture are filent; yet Lapidaries in precious Stones affect a Table or long Square, and in such proportion, that the two lateral and also the three inferiour Tables are equal unto the superiour, and the Angles of the lateral Tables contain and conftitute the Hypotenusa or broader fides fub-

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That the Tables of the Law were of this Figure, general imitation and Tradition hath confirmed: yet are we unwilling to load the shoulders of Moles with fuch massie Stones as some Pictures lay upon them, fince 'tis plainly delivered that he came down with them in his hand; fince the word strictly taken implies no such massie hewing, but cutting and fashioning of them into shape and surface; since some will have them Emeralds, and if they were made of the materials of Mount Sina, it is not improbable that they were Marble; fince the Words were not many, the Letters short of five hundred, and the Tables written on both sides

required no fuch capacity.

The Beds of the Ancients were different from ours at prefent, which are almost square, being framed oblong, and about a double unto their breadth; not much unlike the Area or Bed of this Quincuncial Quadrate. The fingle Beds of Greece were (0) fix foot and a little more in . Aristot. length, three in breadth. The Giant-like Bed of Og, which had four Michan. Cubits of breadth, nine and a half in length, varied not much from this proportion. The Funeral-Bed of King Cheeps, in the greater Pyramid, which holds seven in length, and four foot in breadth, had no great difformity from this measure: And whatsoever were the breadth, the length could hardly be less of the tyrannical Bed of Procrustes, fince in a shorter meafure he had not been fitted with perfons for his cruelty of Extension. But the old Sepulchral Bed or Amazonian (p) Tomb in the Market-place of p plut is Megara was in the form of a Lozenge, readily made out by the composure vita The. of the Body. For the Armes not lying fasciated or wrapt up after the Gracian manner, but in a middle diffention, the including lines will ftrictly make out that Figure, follow man present a fine could be sen to

CHAP. III.

Now although this elegant ordination of Vegetables hath found coincidence or imitation in fundry works of Art; yet is it not also destitute of Natural examples, and, though overlooked by all, was elegantly

observable in severall works of Nature.

Could we satisfie our selves in the position of the Lights above, or discover the wisedom of that Order so invariably maintained in the fixed Stars of Heaven; could we have any light, why the Stellary part of the first Mass separated into this Order, that the Girdle of Orion should ever maintain its line, and the two Stars in Charles's Wain never leave pointing at the Pole-Star; we might abate the Pythagorical Musick of the Spheres, the sevenfold Pipe of Pan, and the strange Cryptography of Gaffarel in his Starry Book of Heaven.

But not to look so high as Heaven, or the single Quincunx of the Hyades upon the neck of Taurus, the Triangle and remarkable Crusero about the foot of the Centaur; observable rudiments there are hereof in subterraneous Concretions and Bodies in the earth; in the Gypsum or Taleum Rhomboides, in the Favaginites or Honey-comb-stone, in the Asteria and

Astroites, and in the crucigerous Stone of S. Fago of Gallicia.

The same is observably effected in the Iulus, Catkins, or pendulous Excrescencies of several Trees, of Walnuts, Alders and Hazels, which hanging all the Winter, and maintaining their Net-work close, by the expansion thereof are the early sortellers of the Spring; discoverable also in long Pepper, and elegantly in the Iülus of Calamus aromaticus, so plentifully growing with us in the first Palms of Willows, and in the Flowers of Sycamore, Petasites, Asphodelus, and Blattaria, before explication. After such order stand the flowry Branches in our best-spread Verbascum, and the Seeds about the spicous head or torch of Tapsus barbatus, in as fair a regularity as the circular and wreathed order will admit, which advanceth one side of the Square, and makes the same Rhomboidal

In the squamous Heads of Scabious, Knapueed, and the elegant Jacea Pinan, and in the scaly composure of the Oak-rose, which some years most aboundeth. After this Order hath Nature planted the Leaves in the head of the common and prickled Artichoak, wherein the black and shining Flies do shelter themselves, when they retire from the purple Flower about it. The same is also found in the Pricks, Sockets and impressions of the Seeds, in the Pulp or bottom thereof; wherein do elegantly stick the Fathers of their Mother. To omit the Quincuncial Specks on the top of the Miscle-berry, especially that which grows upon the Tilia

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or Lime-Tree; and the remarkable disposure of those yellow Fringes Authol Gree. about the purple Pestill of Aron, and elegant clusters of Dragons, so pecu- inta Epiliarly secured by Nature with an Umbrella or skreening Leaf about them.

The spongy Leaves of some Sea-wrecks, Fucus, Oaks in their severall der inthe harkindes, found about the Shoar with ejectments of the Sea, are overwrought when your puller. with Net-work elegantly containing this Orders which plainly declareth the Especially naturality of this Texture, and how the Needle of Nature delighteth to the Porus cer-

work even in low and doubtfull Vegetations.

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The Arbustetum or Thicket on the head of the Teazil may be observed ti, sporofa, Alin this Order: And he that confidereth that Fabrick so regularly palisado'd and stemm'd with Flowers of the royal colour, in the house of the solitary Maggot may find the Seraglio of Solomon; and contemplating the calicular Shafts and uncous disposure of their extremities, so accommodable unto the office of Abstersion, not condemn as wholly improbable the conceit of those who accept it for the herb (a) Borith. Where by the way we could a Jer. 2. 22. with much inquiry never discover any transfiguration in this abitemious Infect, although we have kept them long in their proper Houses and Boxes, where some, wrapt up in their Webs, have lived upon their own Bowels from Seprember unto July.

In fuch a Grove do walk the little Creepers about the head of the Burre. And fuch an order is observed in the aculeous prickly Plantation upon the heads of severall common Thistles, remarkably in the notable Palitadoes about the flower of the Milk-thiftle : And he that inquireth into the little bottom of the Globe-thiftle, may find that gallant Bush arise from

a Scalp of like disposure.

The white Umbrella or medicall bush of Elder is an Epitome of this Ocder, arifing from five main Stemms Quincuncially disposed, and tolerably maintained in their fabdivitions. To omit the lower observations in the

feminal Spike of Mercurie wild and Plantane.

Thus hath Nature ranged the Flowers of Santfoyn and French Honyfuckle; and fomewhat after this manner hath ordered the buth in Japiter's Beard, or House-leek, which old Superstition fet on the tops of houses as a desenfative against Lightning and Thunder. The like in Fenny Seagreen, or the Water-(b) Souldier; which, though a military name from b strations. Greece, makes out the Roman Order.

A like ordination there is in the favaginous Sockets and Lozenge-feeds of the noble Flower of the Sun, wherein in Lozenge-figured Boxes Nas

ture that's up the Seeds and Balfame which is about them.

But the Fitte and Pine-tree from their Fruits do naturally dictate this position the Rhombordal procuberances in Pine-apples maintaining this Quincuncial Order unto each other, and each Rhombus art is felf. Thus are also disposed the triangular Foliations in the conicall Fruit of the Firretree, orderly shadowing and protecting the winged Seeds below them,

The like to often occurreth to the chriofity of Observers, especially in G 3

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spicated Seeds and Flowers, that we shall not need to take in the fingle Quincunx of Fuchfus in the growth of the male Fern, the feedy disposure of Gramen Ischemon, and the Trunk or near Reticulate work in the Cod of CY

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For even in very many round-stalked Plants the Leaves are set after a quintuple Ordination, the first Leaf answering the fifth in lateral disposition; wherein the Leaves successively rounding the Stalk, in four at the farthest the Compass is absolved, and the fifth Leaf or Sprout returns to the position of the other fifth before it; as in accounting upward is often obfervable in furre-Pelitory, Ragweed, the Sprouts of Oaks, and Thorns upon Pollards, and very remarkable in the regular disposure of the rugged excrescencies in the yearly Shoots of the Pine.

Bat in square-stalked Plants the Leaves stand respectively unto each other, either in cross or decuffation to those above or below them, arising at crosspositions; whereby they shadow not each other, and better resist the force of Winds, which in a parallel fituation and upon square Stalks

would more forcibly beat upon them.

And to omit, how Leaves and Sprouts which compass not the Stalk are often fet in a Rhomboïdes, and, making long and short Diagonals, do stand like the Legs of Quadrupedes when they go; nor to urge the thwart enclosure and furdling of Flowers and Blossomes before explication, as in the multiplied Leaves of Pionie; and the Chiasmus in five-leaved Flowers, while one lies wrapt about the staminous Beards, the other four obliquely shutting and closing upon each other; and how even Flowers which confift of four Leaves stand not ordinarily in three and one, but two and two cross-wife unto the Stylus: even the Autumnal Buds, which await the return of the Sun, do after the Winter Solflice multiply their calicular Leaves, making little Rhombus's and Network-figures, as in the Sycamore and Lilac.

The like is discoverable in the original production of Plants, which first putting forth two Leaves, those which succeed bear not over each other, but shoot obliquely or cross-wife, untill the Stalk appeareth, which fendeth not forth its first Leaves without all order unto them: and he that from hence can discover in what position the two first Leaves did arise, is

no ordinary Observator.

Where, by the way, he that observeth the rudimental Spring of Seeds, thall find strict rule, although not after this order. How little is required unto effectual Generation, and in what diminutives the Plastick Principle lodgeth, is exemplified in Seeds, wherein the greater mass affords so little comproduction. In Beans the Leaf and Root sprout from the Germen; the main fides split and lie by; and in some pull'd up near the time of Blooming we have found the pulpous fides intire or little wasted. In Acorns the Neb dilating splitteth the two sides, which sometimes lie whole when the Oak is sprouted two handfuls. In Lupins these pulpy sides do

fometimes arise with the Stalk in a resemblance of two sat Leaves. Wheat and Rie will grow up, if, after they have shot some tender Roots, the adhering Pulp be taken from them. Beans will prosper though a part be cut away, and so much set as sufficeth to contain and keep the Germen close. From this superfluous Pulp, in unkindly and wet years, may arise that multiplicity of little Insects which insect the Roots and Sprouts of tender Grains and Pulses.

In the little Neb or fructifying principle the motion is regular, and not transvertible, as to make that ever the Leaf which Nature intendeth the Root; observable from their Conversion untill they attain their right

polition, if Seeds be let inversedly.

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whole ides do remas In vain we expect the production of Plants from different parts of the Seed; from the same Corenlam or little original proceed both Germinations: and in the power of this slender particle lie many Roots, that though the same be pull'd away, the generative particle will renew them again, and proceed to a perfect Plant: And Malt may be observed to

grow, though the Cooms be fallen from it.

The Seminal Neb hath a defined and fingle place, and not extended unto both extremes. And therefore many too vulgarly conceive that Barley and Oats grow at both ends; for they arise from one paniebilio or generative Neb, and the Spear, sliding under the Husk, first appeareth night the top. But in Wheat and Rie, being bare, the Sprouts are seen together. If Barley unhalled would grow, both would appear at once. But in this and Oat-meal the Neb is broken away; which makes them the milder food, and less apt to raise Fermentation in Decoctions.

Men taking notice of what is outwardly visible, conceive a tensible priority in the Root. But as they begin from one part, so they seem to start and set out upon one signal of Nature. In Beans yet soft, in Pease while they adhere unto the God, the rudimental Leaf and Root are discoverable. In the Seeds of Rocket and Mustard, sprouting in Glasses of water, when the one is manifest, the other is also perceptible. In muddy waters, apt to breed Duck-weed and Perwinkles, if the first and rudimental stroaks of Duck-weed be observed, the Leaves and Root anticipate not each other. But in the Date-stone the first Sprout is neither Root nor Leaf distinctly, but both together: For the Germination being to pass through the narrow Navel and hole about the midst of the Stone, the generative Germ is fain to inlengthen it self, and shooting out about an inch, at that distance divideth into the ascending and descending portion.

And though it be generally thought that Seeds will root at that end where they adhere to their Originals, and observable it is that the Neb sits most often next the Stalk, as in Grains, Pulses, and most small Seeds; yet is it hardly made out in many greater Plants. For in Acorns, Almonds, yet is it hardly made out in many greater Plants. For in Acorns, Almonds, Pistachios, Walnuts, and acuminated Shells, the Germ puts forth at the remotest part of the Pulp. And therefore to set Seeds in that posture wherein

wherein the Leaf and Roots may shoot right without contortion or forced circumvolution, which might render them strongly rooted and straighter, were a Criticism in Agriculture. And Nature seems to have made some provision hereof in many from their Figure, that as they fall from the Tree

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Beside the open and visible Testicles of Plants, the seminal Pores lie ingreat part invisible, while the Sun finds Polypody in Stone-walls, the little stinging Nettle and Nightshade in barren sandy High-ways, Scurvy-grass in Greenland, and unknown Plants brought in earth from remote Countreys. Beside the known longevity of some Trees, what is the most lasting Herb or Seed seems not easily determinable. Mandrakes upon known account have lived near an hundred years. Seeds found in Wild-Fowls Gizzards have sprouted in the earth. The Seeds of Marjoram and Stramonium, carelessy kept, have grown after seven years. Even in Garden-plots long sallow, and digged up, the Seeds of Blattaria and yellow Henbane after twelve years buriall have produced themselves again.

That Bodies are first Spirits Paracelfus could affirm, which in the maturation of Seeds and Fruits seems obscurely implied by Aristotle, when he delivereth that the spirituous parts are converted into Water, and the Water into Earth; and attested by observation in the maturative progress of Seeds, wherein at first may be discerned a flatuous distention of the Husk, afterwards a thin Liquour, which longer time digesteth into a Pulp or Kernell, observable in Almonds and large Nuts; and someway answered in the progressionall perfection of animal Semination, in its spermaticall maturation from crude pubescency unto perfection. And even that Seeds themselves in their rudimentall discoveries appear in soliaceous Surcles or Sprouts within their Coverings, in a diaphanous Jellie, before deeper incrassation, is also visibly verified in Cherries, Acorns, Plums.

From Seminal confiderations, either in reference unto one another, or distinction from animal production, the Holy Scripture describeth the Vegetable creation; and while it divideth Plants but into Herb and Tree, though it seemeth to make but an accidental Division from magnitude, it tacitly containeth the natural distinction of Vegetables observed by Herbarists, and comprehending the four kinds. For since the most natural distinction is made from the production of Leaf or Stalk, and Plants after the two first seminal Leaves do either proceed to send forth more Leaves, or a Stalk; the folious and stalky emission distinguisheth Herbs and Trees, and stand authentically differenced but from the accidents of the Stalk.

The equivocal production of things under undiscerned Principles makes a large part of Generation, though they seem to hold a wide Univocacy in their set and certain Originals, while almost every Plant breeds its peculian Insect, most a Buttersly, Moth or Fly; werein the Oak seems to contain the largest Seminality, while the saids, Oak-Apple, Dill, woolly Tust, foraminous Roundles upon the Leaf, and Grapes under ground, make a Fly

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with some difference. The great variety of Flies lies in the variety of their Originals. In the Seeds of Caterpillars or Cankers there lieth not onely a Butterfly or Moth, but, if they be steril or untimely cast, their production is often a Fly; which we have also observed from corrupted and mouldred Eggs both of Hens and Fishes. To omit the generation of Bees out of the Bodies of dead Heifers, or, what is strange, yet well attested, the production of Eels in the backs of living Cods and Perches.

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The exiguity and smalness of some Seeds extending to large productions de Pisc. is one of the Magnalities of Nature, somewhat illustrating the work of the Creation, and vast production from Nothing. The true (c) Seeds of Cy- Dostifiem. press and Rampions are indistinguishable by old eyes. Of the Seeds of To- Laurenburg. bacco a thousand make not one grain. The disputed Seeds of Harts-tongue Hort. and Maiden-hair require a greater number. From fuch undifcernible Seminalities arife spontaneous Productions. He that would discern the rudimentall stroak of a Plant, may behold it in the Original of Duckweed, at the bigness of a pin's point, from convenient water in Glasses; wherein a watchfull eye may also discover the puncticular Originals of Perwincles and Gnats.

That Seeds of some Plants are less then any Animals seems of no clear decision. That the biggest of Vegetables exceedeth the biggest of Animals in full bulk and all dimensions admits exception in the Whale, which in length and above-ground measure will also contend with tall Oaks. That the richest Odour of Plants surpasseth that of Animals may seem of some doubt, fince animal-Musk feems to excell the vegetable, and we finde fo noble a fent in the Tulip-Fly and (d) Goat-Beetle.

Now whether feminal Nebs hold any fure proportion unto feminal En- and tender closures; why the form of the Germ doth not answer the figure of the en- green Capriclosing Pulp; why the Neb is seated upon the solid and not the chaneli'd fide of the Seed, as in Grains; why, fince we often meet with two Yolks found: we in one Shell, and sometimes one Egg within another, we do not oftener meet with meet with two Nebs in one diffinct Seed; why, fince the Eggs of a Hen but two. laid at one course do commonly out-weigh the Bird, and some Moths coming out of their Cases, without affistence of food, will lay so many Eggs as to outweigh their Bodies, Trees rarely bear their Fruit in that gravity or proportion; whether in the germination of Seeds, according to Hippocrates, the lighter part accendeth and maketh the Sprout, the heaviest tending downward frameth the Root, fince we observe that the first Shoot of Seeds in water will fink or bow down at the upper and leafing end; whether it be not more rational Epicurism to contrive whole dishes out of the Nebs and spirited particles of Plants, then from the Gallatures and Treddles of Eggs, fince that part is found to hold no feminal share in Oval Generation : are Quere's which might enlarge, but must conclude this Digression.

And though not in this Order, yet how Nature delighteth in this Number, and what confent and coordination there is in the Leaves and parts of

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Flowers, it cannot escape our observation in no small number of Plants. For the calicular or supporting and closing Leaves do answer the number of the Flowers, especially in such as exceed not the number of Swallows Eggs; as in Violets, Stitchwort Blossomes: and Flowers of one Leaf have often five divisions, answered by a like number of calicular Leaves; as Gentianella, Convolvalus, Bell-flowers. In many the Flowers, Blades, or staminous Shoots and Leaves are all equally five; as in Cockle, Mullein, and Blattaria, wherein the Flowers before explication are pentagonally wrapped up, with some resemblance of the Blatta or Moth, from whence it hath its name. But the contrivance of Nature is singular in the opening and shutting of Bindeweeds, performed by five inflexures, distinguishable by pyramidicall sigures and also different colours.

The Rose at first is thought to have been of five Leaves, as it yet groweth wilde among us; but in the most luxuriant the calicular Leaves do still maintain that number. But nothing is more admired then the five Brethren of the Rose, and the strange disposure of the Appendices or Beards in the calicular Leaves thereof; which, in despair of resolution, is tolerably salved from this contrivance, best ordered and suited for the free closure of them before explication. For those two which are smooth and of no Beard are contrived to be undermost, as without prominent parts, and sit to be smoothly covered; the other two which are beset with Beards on either side stand outward and uncovered; but the sister half-bearded Leaf is covered on the bare side, but on the open side stands free, and

bearded like the other.

Besides a large number of Leaves have five divisions, and may be circumscribed by a Pentagon or figure of five Angles, made by right lines from the extremity of their Leaves; as in Maple, Vine, Fig-Tree. But sive-leaved Flowers are commonly disposed circularly about the Stylms; according to the higher Geometry of Nature, dividing a Circle by five Radii, which concurre not to make Diameters, as in quadrilateral and

fexangular Interfections.

Now the number of Five is remarkable in every Circle, not onely as the first spherical Number, but the measure of spherical Motion. For spherical Bodies move by Fives; and every globular Figure, placed upon a Plane, in direct volutation returns to the first point of Contaction in the first touch, accounting by the Axes of the Diameters or Cardinal Points of the four quarters thereof: and before it arriveth unto the same Point again, it maketh five Circles equal unto it self, in each progress from those quarters absolving an equal Circle.

By the same Number doth Nature divide the Circle of the Sea-star, and in that order and number disposeth those elegant Semi-circles or dental Sockets and Eggs in the Sea-Hedge-hog. And no mean Observation hereof there is in the Mathematicks of the neatest Reviary Spider, which concluding in forty four Circles, from five Semidiameters beginneth that elegant Texture.

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And after this manner doth lay the foundation of the circular Branches of the Oak, which being five-cornered in the tender annual Sprouts, and manifesting upon incision the fignature of a Star, is after made circular, and swell'd into a round Body. Which practice of Nature is become a point of Art, and makes two Problems in Euclide. But the Briar, which fends Elem. li. 4. forth Shoots and Prickles from its Angles, maintains its pentagonal Figure, and the unobserved fignature of a handsome Porch within it. To omit the five small Buttons dividing the Circle of the Ivy-berry, and the five characters in the Winter-stalk of the Wall-nut, with many other Observables, which cannot escape the eyes of signal Discerners; such as know where to finde Ajax his name in Gallitricum, or Aaron's Mitre in Henbane.

Quincuncial forms and Ordinations are also observable in Animal Figurations. For to omit the Hyoides or Throat-bone of Animals; the Furcula or Merry-thought in Birds, which supporteth the Scapule, affording a paffage for the Winde-pipe and the Gullet; the Wings of Flies, and difposure of their Legs in their first formation from Maggots, and the position of their Horns, Wings and Legs in their Aurelian Cases and Swadling-clouts: the back of the Cimex arboreus, found often upon Trees and lesser Plants, doth elegantly discover the Burgundian Decustation. And the like is observable in the Belly of the Notonecton or Water-Beetle, which swimmeth on its back; and the handsome Rhombus'es of the Sea-

poult or Werrell, on either fide the Spine.

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The sexangular Cells in the Honey-combs of Bees are disposed after this Order. Much there is not of wonder in the confused Houses of Pismires, though much in their bufie life and actions: more in the edificial Palaces of Bees those Monarchical spirits, who make their Combs six-corner'd, declining a Circle, whereof many stand not close together, and compleatly fill the Area of the place; but rather affecting a fix-fided Figure, whereby every Cell affords a common fide unto fix more, and also a fit receptacle for the Bee it self, which, gathering into a Cylindrical Figure, aptly enters its fexangular house, more nearly approaching a circular Figure then either doth the Square or Triangle. And the Combs themselves are so regularly contrived, that their mutual Intersections make three Lozenges at the bottom of every Cell; which severally regarded make three Rows of neat Rhomboidal Figures, connected at the Angles, and so continue three several Chains throughout the whole Comb.

As for the Favago found commonly on the Sea-shoar, though named from an Honey-comb, it but rudely makes out the resemblance, and better agrees with the round Cells of Humble-bees. He that would exactly differn the shop of a Bee's mouth needs observing eyes, and good augmenting-Glasses, wherein is discoverable one of the neatest pieces in Nature; and must have a more piercing eye then mine, who findes out the shape of Bull's heads in the Guts of Drones pressed out behinde, according H 2

Gom.de Sale. cording to the experiment of Gomesius; wherein notwithstanding there feemeth somewhat which might incline a plain fancy to credulity of similitude.

A refemblance hereof there is in the orderly and rarely-disposed Cells made by Flies and Infects, which we have often found faftened about small Sprigs; and in those cottonary and woolly pillows which sometimes we meet with fastened unto Leaves, there is included an elegant Net-work Texture, out of which come many imall Flies. And fome reiemblance there is of this Order in the Eggs of some Butterflies and Moths, as they (tick upon Leaves and other substances; which being dropped from behinde, nor directed by the eye, doth neatly declare how Nature Geometrizeth, and

observeth Order in all things.

A like correspondency in Figure is found in the Skins and outward Teguments of Animals, whereof a regardable part are beautifull by this Texture. As the Backs of feveral Snakes and Serpents, elegantly remarkable in the Aspis and the Dart-snake, in the Chiasmus and larger Decustations upon the Back of the Rattle-snake, and in the close and finer Texture of the Mater formicarum, or Snake that delights in Ant-hils; whereby, upon approach of outward injuries, they can raise a thicker Phalanx on their Backs, and handsomely contrive themselves into all kindes of Flexures: whereas their Bellies are commonly covered with smooth semicircular divisions, as best accommodable unto their quick and gliding mo-

This way is followed by Nature in the peculiar and remarkable Tail of the Bever, wherein the scaly particles are disposed somewhat after this order; which is the plainest resolution of the wonder of Bellonius, while he faith, with incredible Arcifice hath Nature framed the Tail or Oar of the Bever. Where by the way we cannot but wish a model of their Houses, so much extolled by some Describers: wherein since they are so bold as to venture upon three Stages, we might examine their Artifice in the Contignations, the rule and order in the Compartitions; or whether that magnified Structure be any more then a rude rectangular Pile or meer Hovel-building.

Thus works the hand of Nature in the feathery Plantation about Birds; observable in the Skins of the * Breast, Legs and Pinions of Turkies, Geese and Dacks, and the Oars or finny Feet of Water-Fowl; and fuch a natural Net as the scaly covering of Fishes, of Mallets, Carps, Tenches, &c. even in fuch as are excoriable and confift of smaller Scales, as Bretts, Soals, and Flounders. The like Reticulate grain is observable in some Russia Leather. To omit the ruder Figures of the Oftracion, the triangular or

Cunny-fith, or the pricks of the Sea-Porcupine.

The same is also observable in some part of the Skin of Man, in Habits of near Texture, and therefore not unaptly compared unto a Net. We shall not affirm that from such grounds the Egyptian Embalmers imitated

* Elegantly conspicuous on the infide of the stripped Skins of Dive-Fowl, of the Cormorant, Gofhonder, Weafell, Loon, 000.

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this Texture: yet in their linen folds the same is still observable among their neatest Mummies, in the Figures of Isis and Osirio, and the Tutelary spirits in the Bembine Table. Nor is it to be overlooked how Orus, the Hieroglyphick of the World, is described in a Net-work covering from the shoulder to the foot. And (not to enlarge upon the cruciated Character of Trismegistus, or handed Crosses so otten occurring in the Needles of Pharaoh and Obelisks of Antiquity) the Status Isiacs, Teraphims and little Idols found about the Mummies, do make a Decustation or Facob's Cross with their Armes, like that on the head of Ephraim and Manasses and this Decussis is also graphically described between them.

This Reticulate or Net-work was also considerable in the inward parts of Man, not onely from the first Subtegmen or Warp of his formation, but in the netty Fibres of the Veins and Vessels of life; wherein, according to common Anatomie, the right and transverse Fibres are decussated by the oblique Fibres, and so must frame a Reticulate and Quincuncial Figure by their Obliquations, emphatically extending that Elegant expression of Scripture, Thou hast curiously embroidered me, thou hast uraught me up after

the finest way of Texture, and as it were with a Needle.

Nor is the same observable onely in some Parts, but in the whole Body of Man, which apon the extension of Arms and Legs doth make out a Square, whose Intersection is at the Genitals. To omit the phantastical Quincunx in Plato of the first Hermaphrodite or Double man, united at the

Loins, which Tupiter after divided.

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A rudimental refemblance hereof there is in the cruciated and rugged folds of the Reciculum or Net-like Ventricle of ruminating horned Animals, which is the second in order, culinarily called the Honey-comb: for many divisions there are in the Stomack of several Animals. What number they maintain in the Scarus and ruminating Fish, common description or our own experiment hath made no discovery. But in the Ventricle of Porpusses there are three divisions; in many Birds a Crop, Gizzard, and little Receptacle before it. But in Cornigerous Animals, which chew the Cud, there are no less then four of distinct position and office.

The Reticulum by these crossed Cells makes a further Digestion in the dry and exsuccous part of the Aliment received from the sirst Ventricle. For at the bottome of the Gallet there is a double Orisice: What is first received at the Mouth descendeth into the first and greater Stomack, from whence it is returned into the Mouth again; and after a suller Massication and salivous mixture, what part thereof descendeth again in a moist and succulent body, it slides down the softer and more permeable Orisice into the Omasus or third Stomack; and from thence conveyed into the fourth, receives its last Digestion. The other dry and exsuccous part, after Rumination by the larger and stronger Orisice, beareth into the first Stomack, from thence into the Reticulum, and so progressively H 3

into the other divisions. And therefore in Calves newly calved there is little or no use of the two first Ventricles, for the milk and liquid aliment flippeth down the fofter Orifice into the third Stomack; where making little or no stay, it passeth into the fourth, the seat of the Congulum or Runnet, or that division of Stomack which seems to bear the name of the whole in the Greek translation of the Priest's Fee in the Sacrifice of

Peace-offerings.

As for those Rhomboidal Figures made by the Cartilagineous parts of the Wezon in the Lungs of great Fishes and other Animals, as Rondeletiau discovered, we have not found them so to answer our Figure as to be drawn into illustration. Something we expected in the more discernable texture of the Lungs of Frogs, which notwithstanding being but two curious Bladders, not weighing above a grain, we found interwoven with Veins, not observing any just order. More orderly situated are those cretaceous and chalky Concretions found sometimes in the bigness of a small Vetch on either side their Spine; which being not agreeable unto our order, nor yet observed by any, we shall not here discourse on.

But had we found a better account and tolerable Anatomy of that prominent Jowl of the (e) Sperma-Ceti-Whale, then questuary operation or the stench of the last cast upon our Shoar permitted; we might have perhaps discovered some handsome order in those Net-like Seats and Sockets,

made like Honey-combs, containing that medicall matter.

Lastly, The Incession or Local motion of Animals is made with analogy unto this Figure, by decuffative Diametrals, Quincuncial Lines and Angles. For, to omit the enquiry how Butterflies and Breezes move their four Wings, how Birds and Fishes in aire and water move by joynt stroaks of opposite Wings and Fins, and how falient Animals in jumping forward feem to arise and fall upon a square Base; as the Station of most Quadrupedes is made upon a long Square, fo in their Motion they make a Rhombordes, their common Progression being performed diametrally by Decustation and cross advancement of their Legs; which not observed, begot that remarkable absurdity in the position of the Legs of Castor's Horse in the Capitol. The Snake, which moveth circularly, makes his Spires in like order, the convex and concave Spirals answering each other at alternate distances. In the motion of Man the Arms and Legs observe this thwarting position; but the Legs alone do move Quincuncially by fingle Angles, with some resemblance of an V, measured by succellive advancement from eachFoot, and the Angle of Indenture great or less, according to the extent or brevity of the Stride.

Studious Observators may discover more Analogies in the orderly Book of Nature, and cannot escape the Elegancy of her hand in other Correspondencies. The Figures of Nails and Crucifying appurtenances are but precariously made out in the Granadilla or Flower of Christ's Passion; and we despair to behold in these parts that handsome draught of Cru-

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cifixion in the fruit of the Barbado Pine. The feminal Spike of Phalaris, or great Shaking-grass, more nearly answers the Tail of a Rattle-Snake then many Resemblances in Porta: And if the (f) Man-Orchis of orchis Ana Columna be well made out, it excelleth all Analogies. In young Walnuts thropophora cut athwart it is not hard to apprehend strange Characters; and in those Fabit Coof somewhat elder growth, handsome ornamental draughts about a plain lumnæ. Cross. In the Root of Osmond, or Water-fern, every eye may discern the form of a Half-Moon, Rain-bow, or half the Character of Pisces. Some finde Hebren, Arabick, Greek and Latine Characters in Plants : In a common one among us we feem to reade Acaia, Vivin, Lilil.

Right lines and Circles make out the bulk of Plants: In the parts thereof we finde Helicall or spiral Roundles, Voluta's, conicall Sections, circular Pyramids and Frustums of Archimedes; and cannot overlook the orderly hand of Nature, in the alternate succession of the flat and narrower fides in the tender Shoots of the Ath, or the regular inequality of bigness in the five-leaved Flowers of Henbane, and something like in the calicular Leaves of Tutfan : How the Spots of Perficaria do manifest themselves between the fixth and tenth Rib; how the triangular Cap in the Stem or Stylus of Tulips doth constantly point at three outward Leaves; that spicated Flowers do open first at the Stalk; that white Flowers have yellow Thrums or Knops; that the Nebs of Beans and Peafe do all look downward, and fo press not upon each other; and how the Seeds of many pappous or downy Flowers locktup in Sockers, after a Gompholis or mortis-articulation diffuse themselves circularly into Branches of rare order, observable in Tragopogon or Goat's-beard, conformable to the Spider's web, and the Radii in like manner telarly interil bened ,

And how in Animal natures even Colours hold correspondencies and mutual correlations. That the colour of the Caterpillar will shew again in the Butterfly, with fome latitude is allowable. Though the regular Spots in their Wings feem but a mealie adhesion, and such as may be wiped away ; yet fince they come in this variety out of their Cases, there must be regular Pores in those parts and Membranes defining such Exudations.

That (g) Augustus had native Notes on his Body and Belly, after the or- & Suet. in viti. der and number in the Star of Charles-wain, will not feem strange unto Aug. Aftral Physiognomy, which accordingly considereth Moles in the Body of Man, or Physicall Observators, who from the position of Moles in the Face, reduce them to rule and correspondency in other Parts. Whether after the like method medicall conjecture may not be raifed upon Parts inwardly affected, fince parts about the Lips are the criticall feats of Puftules difcharged in Agues, and scrophulous Tumours about the Neck do so often speak the like about the Mesentery; may also be considered.

The ruffet Neck in young Lambs feems but adventitious, and may owe its tincture to some contaction in the Womb: But that if Sheep have any

any black or deep Ruffet in their Faces, they want not the same about their Legs and Feet; that black Hounds have mealy Mouths and Feet; that black Cows, which have any white in their Tails, should not miss of some in their Bellies; and if all white in their Bodies, yet if black-mouth'd, their Ears and Feet maintain the same colour: are correspondent Tinctures not ordinarily failing in Nature, which eafily unites the accidents of extremities, fince in some Generations she transmutes the Parts themselves, while in the Aurelian Metamorphosis the Head of the Canker becomes the Tail of the Butterfly. Which is in some way not beyond the contrivance of Art, in Submersions and Inlays inverting the extremes of the Plant, and fetching the Root from the Top; and also imitated in handfome Columnary work, in the inversion of the extremes, wherein the Capitle and the Base hold such near correspondency.

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In the Motive parts of Animals may be discovered mutual proportions; not onely in those of Quadrupedes, but in the Thigh-bone, Leg, Foot-bone, and Claws of Birds. The Legs of Spiders are made after a fesquitertian proportion, and the long Legs of some Locusts double unto some others. But the internodial parts of Vegetables, or spaces between the Joynts, are contrived with more uncertainty; though the Joynts

themselves in many Plants maintain a regular Number.

In Vegetable Composure the unition of prominent parts seems most to answer the Apophyses or Processes of Animal Bones, whereof they are the produced parts or prominent Explantations. And though in the parts of Plants which are not ordained for Motion we do not expect correspondent Articulations; yet in the fetting on of some Flowers and Seeds in their Sockets, and the lineal commissure of the Pulp of several Seeds, may be observed some shadow of the Harmony, some show of the Gomphosis or mortis-articulation.

As for the Diarthrofis or motive Articulation, there is expected little Analogy: though long-stalked Leaves do move by long lines, and have observable Motions; yet are they made by outward impulsion, like the motion of pendulous Bodies, while the parts themselves are united by

fome kinde of Symphysis unto the Stock.
But standing Vegetables, void of motive Articulations, are not without many Motions. For befide the motion of Vegetation upward, and of Radiation unto all quarters, that of Contraction, Dilatation, Inclination and Contortion, is discoverable in many Plants. To omit the Rose of Fericho, the ear of Rie which moves with change of weather, and the Magical Found often Spit, made of no rare Plants, which windes before the fire, and rofts the Bird without turning.

Even Animals near the Classis of Plants seem to have the most restless standing wa- Motions. The Summer-worm of Ponds and Plashes makes a long waving Motion; the Hair-worm feldom lies still. He that would behold a very anomalous Motion, may observe it in the tortile and tiring ftroaks of (b) Gnat-Worms.

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As for the Delights, Commodities, Mysteries, with other concernments of this Order, we are unwilling to fly them over in the short deliveries of Virgil, Varro, or others, and shall therefore enlarge with additional ampliations.

By this Polition they had a just proportion of Earth to supply an equality of Nourishment; the Distance being ordered, thick or thin, according to the magnitude or vigorous attraction of the Plant, the goodness, leanness, or propriety of the Soil; and therefore the rule of Solon concerning the Territory of Athens not extendible unto all, allowing the distance of fix

foot unto common Trees, and nine for the Fig and Olive. They had a due diffusion of their Roots on all or both sides, whereby they maintained some proportion to their height in Trees of large radication. For that they strictly make good their profundeur or depth unto their height, according to common conceit, and that expression of (a) Virgil, " Quantum though confirmable from the Plane-tree in Pliny, and some few examples, vertice ad anis not to be expected from the generation of Trees almost in any kinde, either of fide-spreading or tap-roots; except we measure them by lateral dice ad tartaand opposite diffusions; nor commonly to be found in minor or herby va tendit. Plants, if we except Sea-holly, Liquorish, Sea-rush, and some others.

They had a commodious radiation in their growth, and a due expanfion of their Branches for shadow or delight. For Trees thickly planted do run up in height and branch with no expansion, shooting unequally, or short and thin, upon the neighbouring side. And therefore Trees are inwardly bare, and spring and leaf from the outward and Sunny side of

their Branches. Whereby they also avoided the perill of ownerseignds or one Tree perishing with another, as it happeneth ofttimes from the fick Effluviums or entanglements of Roots, falling foul with each other; observable in Elmes fet in Hedges, where if one dieth, the neighbouring Tree prospereth not

long after. In this fituation, divided into many intervalls, and open unto fix paffages, they had the advantage of a fair perflation from windes, bruthing and cleanfing their furfaces, relaxing and clofing their Pores unto due perspiration. For that they afford large Effluviums, perceptible from Odours diffused at great distances, is observable from Onions out of the Earth, which though dry, and kept untill the Spring, as they shoot forth large and many Leaves, do notably abate of their weight: and Mint growing in Glasses of water, untill it arriveth unto the weight of an ounce, in a shady place, will fometimes exhauft a pound of water.

And as they fend forth much, fo may they receive somewhat in : For

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befide the common way and road of reception by the Root, there may be a refection and imbibition from withouts for gentle Showrs refresh Plants, though they enter not their Roots, and the good and bad Effinviums of Vegetables promote or debilitate each other. So Epithymum and Dodder, rootless and our of the ground, maintain themselves upon Thyme, Savory, and Plants whereon they hang. And Ivy divided from the Root, we have observed to live some years by the cirrous parts, commonly conceived but as renacles and hold-fasts unto it. The Stalks of Mint cropt from the Root stripped from the Leaves, and set in Glasses with the Rootend upward, and out of the water, we have observed to send forth Sprouts and Leaves without the aid of Roots; and Sordium to grow in like manner, the Leaves fer downward in water. To omit feverall Seaplants, which grow on fingle Roots from stones, although in very many

there are Side-Ihoots and Pibres beside the fastening Root, Too

By this open Position they were fairly exposed unto the rays of Moon and Sun, so considerable in the growth of Vegetables. For though Poplars, Willows, and feverall Trees, be made to grow about the brinks of Acheron and dark habitations of the Dead; though fome Plants are content to grow in obscure Wells, wherein also old Elme-pumps afford sometimes long bushy Sprouts, not observable in any above ground; and large fields of Vegetables are able to maintain their Verdure at the bottome and shady part of the Sea : yet the greatest number are not content without the actual rays of the Sun; but bend, incline, and follow them; as large lifts of Solifequous and Sun-following Plants. And some observe the method of its motion in their own growth and conversion, twining towards the West by the South, as Briony, Hops, Woodbine, and severall kindes of Bindeweed; which we shall more admire, when any can tell us they obferve another Motion and Twift by the North at the Antipodes. The same Plants rooted against an erect North-wall full of holes will finde a way through them to look upon the Sun. And in tender Plants, from Mustardfeed fown in the Winter, and in a plot of earth placed inwardly against a South-window, the tender Stalks of two Leaves arose not erect, but bending towards the Window, nor looking much higher then the Meridian Sun. And if the Pot were turned, they would work themselves into their former declinations, making their conversion by the East. That the Leaves of the Olive and some other Trees solftitially turn, and precisely tell us when the Sun is entred Cancer, is scarce expectable in any Climate; and Theophrasbus warily observes it : Yet somewhat thereof is observable in our own, in the Leaves of Willows and Sallows, some weeks after the Solflice. But the great Convolvulus or white-flowered Bindweed observes both motions of the Sun; while the Flower twifts Æquinoctially from the feft hand to the right, according to the Daily revolution, the Stalk twineth Ecliptically, from the right to the left, according to the Annual conversion, in action of the section of the conversion of the conversion of the section of the s

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Some commend the exposure of these orders unto the Western gales, as the most generative and fructifying breath of Heaven. But we applaud the Husbandry of Solomon, whereto agreeth the doctrine of Theophrastus, Arise, O North-ninde, and blow thou South, upon my Garden, that the Spices thereof may flow out. For the North-winde closing the Pores and shutting up the Essential Gums, when the South doth after open and relax them, the Aromatical Gums do drop, and sweet Odours sly actively from them. And if his Garden had the same situation which Maps and Charts afford it, on the East-side of Ferusalem, and having the wall on the West; these were the Winds unto which it was well exposed.

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By this way of Plantation they encreased the number of their Trees, which they lost in Quaternio's and Square-orders; which is a commodity insisted on by Varro, and one great intent of Nature, in this position of Flowers and Seeds in the elegant formation of Plants, and the former Rules observed in natural and artificial Pigurations.

Whether in this order, and one Tree in some measure breaking the cold and pinching gusts of Winds from the other, Trees will not better maintain their inward Circles, and either escape or moderate their excentricities, may also be considered. For the Circles in Trees are naturally concentricall, parallel unto the Bark and unto each other, till Frost and piercing Winds contract and close them on the weather-side, the opposite seamicircle widely enlarging, and at a comely distance; which hinderests of tentimes the beauty and roundness of Trees, and makes the Timber Tess serviceable, whiles the ascending Juyce, not readily passing, settles in Knots and Inequalities. And therefore it is no new course of Agriculture, to observe the native position of Trees according to North and South in their Transplantations.

The same is also observable under ground in the Circinations and spherical rounds of Onions, wherein the Circles of the Orbs are ofttimes larger, and the Meridional lines stand wider upon one side then the other. And where the largeness will make up the number of planetical Orbs, that of Luna and the lower Planets exceed the dimensions of Saturn and the higher. Whether the like be not verified in the Circles of the large Roots of Briony and Mandrakes, or why in the Knots of Deal or First the Circles are often eccentrical, although not in applane, but vertical and tight position; deserves a farther enquiry.

Whether there be not some irregularity of Roundness in most Plants according to their position; whether some small compression of Plants not perceptible in parts which stand against the current of waters, as in Reeds, Bull-rushes, and other Vegetables, toward the streeting quarter, may also be observed; and therefore such as a long and weak are commonly contrived into a Roundness of Figure, whereby the water present less, and slippeth more smoothly from them? and even in Flags or statisfigured Leaves, the greater part obvert their sharper sides among the Christian in Ditches.

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But whether Plants which float upon the furface of the water be for the most part of cooling qualities, those which shoot above it of heating virtues, and why; whether Sargasso for many miles floating upon the Western Ocean, or Sea-Lettuce and Phasganium at the bottome of our Seas, make good the like qualities; why Fenny waters afford the hottest and sweetest Plants, as Calamus, Cyperus, and Crowfoot, and Mad cast out of Ditches most naturally produceth Arse-smart; why Plants so greedy of Water so little regard Oil; why, since many Seeds contain much Oil within them, they endure it not well without, either in their growth or production; why, since Seeds shoot commonly under ground and out of the air, those which are let fall in shallow Glasses, upon the surface of the water, will sooner sprout then those at the bottom, and if the water be covered with Oil, those at the bottom will hardly sprout at all; we have not room to conjecture.

Whether Ivy would not less offend the Trees in this clean Ordination and well-kept paths, might perhaps deserve the question. But this were a Quere onely unto some Habitations, and little concerning Cyrns or the Babylonian Territory, wherein by no industry Hurpalus could make Ivy grow; and Alexander hardly found it about those parts to imitate the Pomp of Bacchus. And though in these Northern Regions we are too-much acquainted with one Ivy, we know too little of another; whereby we apprehend not the expressions of Antiquity; the (b) Splenetick medicine of Galen, and the Emphasis of the Poet in the (c) beauty of the white Ivy.

The like concerning the growth of Miscletoe, which dependeth not onely of the Species or kinde of Tree, but much also of the Soil; and therefore is common in some places, not readily found in others; frequent in France, not so common in Spain, and scarce at all in the Territory of Ferrara; nor easily to be found where it is most required upon Oaks, less on Trees continually verdant. Although in some places the Olive escapes it not, requiting its detriment in the delightfull view of its read Berries; as Clusius observed in Spain, and Bellonius about Hierasalem. But this Parafitical Plant suffers nothing to grow upon it by any way of art, nor could we ever make it grow where Nature had not planted it; as we have in vain attempted by Inoculation and Insition upon its native or forein Stock; and though there seem nothing improbable in the Seed, it hath not succeeded by Sation in any manner of ground; wherein we had no reason to despair, since we read of vegetable Horns, and how Rams-horns will root

But besides these rural Commodities, it cannot be meanly delectable in the variety of Figures which these Orders open and closed do make: whilest every Inclosure makes a Rhombus, the Figures obliquely taken a Rhombosides; the Intervalls bounded with parallel lines, and each Interfection built upon a Square, affording two Triangles or Pyramids vertically conjoyned, which in the strict Quincuncial Order do oppositely make acute and blunt Angles.

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And though therein we meet not with right Angles , yet every Rhombus containing four Angles equal unto two right, it virtually contains two right in every one. Nor is this strange unto such as observe the natural Lines of Trees, and parts disposed in them. For neither in the Root dothnature affect this Angle, which shooting downward for the stability of the Plant doth best effect the same by Figures of Inclination; nor in the Branches and stalky Leaves, which grow most at acute Angles, as declining from their Head the Root, and diminishing their Angles with their altitude : Verified also in lesser Plants, whereby they better support themfelves, and bear not so heavily upon the Stalk; so that while near the Root they often make an Angle of feventy parts, the Sprouts near the top will often come short of thirty. Even in the Nerves and Master-veins of the Leaves the acute Angle ruleth; the obtuse is but seldom found, and in the backward part of the Leaf, reflecting and arching about the Stalk. But why ofttimes one fide of the Leaf is unequal unto the other, as in Hazell and Oaks; why on either fide the Mafter-vein the leffer and derivative Chanels are not directly opposite, nor at equal Angles respectively unto the adverse side, but those of one part do often exceed the other, as the Wallnut and many more; deferves another enquiry.

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Now if for this Order we affect coniferous and tapering Trees, particularly the Cypress, which grows in a conical Figure, we have found a Tree not onely of great Ornament, but in its Essentials of affinity unto this Order; a solid Rhombus being made by the conversion of two Equictural Cones, as Archimedes hath defined. And these were the common Trees about Babylon and the East, whereof the Ark was made; and Alexander found no Trees so accommodable to build his Navy. And this we rather think to be the Tree mentioned in the Cancilles, which stricter Botanology will hardly allow to be Camphire.

And if Delight or ornamental view invite a comely Disposure by circular Amputations, as is elegantly performed in Haw-thorns, then will they answer the Figures made by the conversion of Rhombus, which maketh two concentrical Circles; the greater Circumference being made by the

The Cylindrical Figure of Trees is virtually contained and latent in this Order: a Cylinder, or long Round, being made by the conversion or turning of a Parallelogram, and most handsomely by a long Square, which makes an equal, strong and lasting Figure in Trees, agreeable unto the Body and motive parts of Animals, the greatest number of Plants, and almost all Roots, though their Stalks be angular, and of many Corners, which seem not to follow the Figure of their Seeds; since many angular Seeds send forth round Stalks, and spherical Seeds arise from angular Spindles, and many rather conform unto their Roots, as the round Stalks of bulbous Roots, and in tuberous Roots Stemms of like figure. But why, since the largest number of Plants maintain a circular Figure, there are so few with

with teretous or long-round Leaves; why coniferous Trees are tenuifolious or narrow-leafed; why Plants of few or no Joynts have commonly round Stalks; why the greatest number of hollow Stalks are round Stalks; or why in this variety of augular Stalks the quadrangular most exceedeth; were too long a speculation. Meanwhile obvious experience may finde, that in Plants of divided Leaves above, Nature often beginneth circularly in the two first Leaves below; while in the fingular Plant of Ivy the exercifeth a contrary Geometry, and beginning with angular

Leaves below, rounds them in the upper Branches.

Nor can the Rows in this Order want delight, as carrying an aspect anfiverable unto the dipteros hypethra, or double order of Columns open above; the opposite Ranks of Trees standing like Pillars in the Cavedia of the Courts of famous Buildings, and Portico's of the Templa Subdialia of old; fomewhat imitating the Peristylia or Cloister-buildings, and the Exedra of the Ancients, wherein men discourfed, walked and exercised. For that they derived the rule of Columns from Trees, especially in their proportional diminutions, is illustrated by Vitruvius from the Shafts of Firre and Pine. And though the Inter-arboration do imitate the Areostylos, or thin order, not strictly answering the proportion of Intercolumniations; yet in many Trees they will not exceed the intermission of the Columns in the Court of the Tabernacle, which being an hundred cubits long, and made up by twenty Pillars, will afford no less then Intervalls of five cubits.

Beside, in this kinde of Aspect the Sight being not diffused, but circumicribed between long Parallels and the emoniaopies and adumbration from the Branches, it frameth a Penthouse over the Eye, and maketh a quiet vision; and therefore in diffused and open Aspects men hollow their Hand above their Eye, and make an artificial Brow, whereby they direct the dispersed rays of Sight, and by this shade preserve a moderate light in the chamber of the Eye, keeping the Pupilla plump and fair, and not contracted or shrunk as in light and vagrant vision.

And therefore Providence hath arched and paved the great House of the World with Colours of Mediocrity, that is, blew and green, above and below the Sight, moderately terminating the Acies of the Bye. For most Plants, though green above-ground, maintain their original white below it, according to the candour of their feminal Pulp, and the rudimental Leaves do first appear in that colour; observable in Seeds sprouting in water upon their first Foliation. Green feeming to be the first supervenient or above-ground complexion of Vegetables, separable in many upon ligature or inhumation, as Succory, Endive, Artichoaks; and which is also lost upon fading in the Autumn.

And this is also agreeable unto Water it felf, the alimental Vehicle of Plants, which first altereth into this Colour, and containing many vegetable Seminalities, revealeth their Seeds by Greenness; and therefore

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foonest expected in rain or standing Water, not easily found in distilled or Water strongly boiled, wherein the Seeds are extinguished by Fire and Decoction, and therefore last long and pure without such alteration, affording neither uliginous Coats, Gnat-worms, Acari, Hair-worms, like crude and common water: and therefore that is most fit for wholesome Beverage, and with Malt makes Ale and Beer without boiling. What large Water-drinkers some Plants are, the Canary-tree and Birches in some Northern Countries, drenching the fields about them, do sufficiently demonstrate. How Water it self is able to maintain the growth of Vegetables, and without extinction of their generative or medicall virtues, befide the experiment of Helmont's Tree, we have found in some which have lived fix years in Glasses. The Seeds of Scurvy-grass growing in Waterpots have been fruitfull in the Land; and Asarum after a year's space, and once carting its Leaves in water, in the second Leaves hath handsomely performed its vomiting operation.

Nor are onely dark and green Colours, but Shades and Shadows contrived through the great Volume of Nature, and Trees ordained not onely to protect and fhadow others, but by their Shades and shadowing parts to preserve and cherish themselves; the whole Radiation or Branchings shadowing the Stock and the Root, the Leaves, the Branches and Fruit, too much exposed to the Winds and scorehing Sun. The calicular Leaves inclose the tender Flowers, and the Flowers themselves he wrapt about the Seeds in their rudiment and first formations, which being advanced the Flowers fall away, and are therefore contrived in variety of Figures best fatisfying the intention; handfomely observable in hooded and gaping Flowers, and the Butterfly-blooms of leguminous Plants, the lower Leaf closely involving the rudimental Cod, and the alary or wingy divisions em-

bracing or hanging over it.

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But Seeds themselves do lie in perpetual Shades, either under the Leaf, or thur up in Coverings; and fuch as lie barest have their Husks, Skins and Pulps about them, wherein the Neb and generative particle lieth moist and fecured from the injury of Air and Sun. Darkness and Light hold interchangeable dominions, and alternately rule the Seminal state of things. Light unto (d) Pluto is Darkness unto Inpiter. Legions of seminal Idea's a Lux Ofen, he in their second Chaos and Oreus of Hippocrates; till, putting on the Tenebra Johabits of their Forms, they shew themselves upon the stage of the world vi; Tembre and open dominion of fove. They that held the Stars of Heaven were but fove, Lux Rays and flashing glimpses of the Empyreal Light, through holes and per-Hippoer. de forations of the upper Heaven, took off the natural Shadows of Stars; Diega, while, according to (e) better discovery, the poor Inhabitants of the Moon "Hevelin Sehave but a Polary life, and must pass half their days in the shadow of that lenographia. Luminary.

Light, that makes things feen, makes some things invisible. Were it not for Darkness and the Shadow of the Earth, the noblest part of the Creation

had remained unseen, and the Stars in Heaven as invisible as on the fourth day, when they were created above the Horizon with the Sun, or there was not an Eye to behold them. The greatest Mystery of Religion is expressed by Adumbration, and in the noblest parts of Fewish Types we finde the Cherubims shadowing the Mercy-seat : Life it self is but the Shadow of Death, and Souls departed but the Shadows of the living: all things fall under this name. The Sun it self is but the dark Simulachrum, and Light dipole

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Lastly, It is no wonder that this Quincunciall Order was first and still affected as gratefull unto the Eye; for all things are feen Quincuncially: For at the Eye the Pyramidall Rays from the Object receive a Decustation, and so strike a second Base upon the Revina or hinder Coat, the proper organ of Vision, wherein the Pictures from Objects are represented, answerable to the Paper or Wall in the dark Chamber, after the Decustation of the Rays at the hole of the Horny Coat; and their Refraction upon the Crystalline Humour answering the Foramen of the Window, and the Convex or Burning-glasses which refract the Rays that enter it. And if ancient Anatomy would hold, a like disposure there was of the Optick or Vifual Nerves in the Brain, wherein Antiquity conceived a concurrence by Decuffation. And this is not onely observable in the Laws of direct Vision, but in some part also verified in the reflected Rays of fight. For making the Angle of Incidence equal to that of Reflexion, the Vifual ray returneth Quincuncially, and after the form of an V; and the line of Reflexion being continued unto the place of Vision, there ariseth a Semi-decuffation, which makes the Object seen in a perpendicular unto it self, and as far below the reflectent as it is from it above; observable in the Sun and Moon beheld in water.

And this is also the Law of Reflexion in moved Bodies and Sounds, which, though not made by Decussation, observe the rule of equality between Incidence and Reflexion, whereby whispering places are framed by Ellipticall Arches laid fide-wife; where the voice being delivered at the Focus of one extremity, observing an equality unto the Angle of Incidence, it will reflect unto the Focus of the other end, and fo escape the Ears of

the standers in the middle.

A like rule is observed in the Reflexion of the vocal and sonorous line in Echoes, which cannot therefore be heard in all stations: but happening in Woody plantations by Waters, and able to return some words, if reach'd by a pleasant and well-dividing voice, there may be heard the softest Notes

And this is not onely verified in the way of Sense, but in animal and inin nature. tellectual receptions; things entring upon the Intellect by a Pyramid from without, and thence into the Memory by another from within, the common Decussation being in the Understanding, as is delivered by (f) Bovillus. Whether the intellectual and phantasticall lines be not thus rightly

Car. Bovillus de Intelledisposed, but magnified, diminished, difforted, and ill-placed in the Mathematicks of some Brains, whereby they have irregular apprehensions of things, perverted Notions, Conceptions, and incurable Hallucinations, were no unpleasant speculation.

And if Agyptian Philosophy may obtain, the Scale of Influences was thus disposed, and the genial Spirits of both Worlds do trace their way in ascending and descending Pyramids, mystically apprehended in the Letter X, and the open Bill and straddling Legs of a Stork, which was imitated

by that Character.

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Of this Figure Plato made choice to illustrate the Motion of the Soul both of the World and Man; while he delivered that God divided the whole Conjunction length-wife, according to the Figure of a Greek x, and then turning it about reflected it into a Circle: by the Circle implying the uniform Motion of the first Orb, and by the Right lines, the planetical and various Motions within it. And this also with application unto the Soul of man, which hath a double aspect, one right, whereby it beholdeth the Body and Objects without; another circular and reciprocal, whereby it beholdeth it felf. The Circle declaring the Motion of the indivisible Soul, simple, according to the divinity of its nature, and returning into it felf; the Right lines respecting the Motion pertaining unto Sense and Vegetation; and the central Decussation, the wondrous connexion of the severall Faculties conjointly in one Substance. And so he conjoyned the Unity and Duality of the Soul, and made out the three Substances so much confidered by him; that is, the indivisible or Divine, the divisible or Corporeal, and that third was the Systasis or Harmony of those two in the mystical Decussation.

And if that were clearly made out which fustin Martyr took for granted, this Figure hath had the honour to characterize and notifie our Bleffed Saviour, as he delivereth in that borrowed expression from Plato, Decustavir eum in universo: the hint whereof he would have Plato derive from the Figure of the Brazen Serpent, and to have mistaken the Letter X for T; whereas it is not improbable he learned these and other mystical expressions in his learned Observations of Egypt, where he might obviously behold the Mercurial Characters, the handed Crosses, and other Mysteries not throughly understood in the facred Letter X, which being derivative from the Stork, one of the ten facred Animals, might be originally Agypeian, and brought into Greece by Cadmus of that Country. .

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O inlarge this Contemplation unto all the Mysteries and Secrets I accommodable unto this Number, were inexcusable Pythagorifms yet I cannot omit the ancient conceit of Five furnamed the number of (a) Justice, as justly dividing between the Digits, and hanging in the Centre of Nine, described by Square numeration, which angularly divided will make the decuffated Number; and fo agreeable unto the onincuncial Ordination, and Rows divided by Equality and just decorum in the whole Complantation; and might be the Original of that common Game among us, wherein the fifth place is Sovereign, and carrieth the chief intention: the Ancients wifely instructing youth, even in their Recreations, unto Vertue, that is, early to drive at the middle

Point and Central Seat of Justice.

Nor can we omit how agreeable unto this Number an handsome division is made in Trees and Plants, fince Plutarch and the Ancients have named it the Divifive number, juftly dividing the Entities of the world, many remarkable things in it, and also comprehending the (b) general di-Θέμνος, τρύ- vision of Vegetables. And he that considers how most Blossoms of Trees, and the greatest number of Flowers, confist of five Leaves, and therein dothrest the settled Rule of Nature, so that in those which exceed there is often found, or eafily made, a variety; may readily discover how Naand that fifth ture refts in this number, which is indeed the first Rest and pause of Numeration in the Fingers, the natural Organs thereof. Nor in the division the Fungiand of the Feet of perfect Animals doth nature exceed this account. And Tubera, whe- even in the Joynts of Feet, which in Birds are most multiplied, it surther to be na- passeth nor this Number; so progressionally making them out in many, med "Armon that from five in the Fore-claw the descendeth unto two in the hindemoft; and so in four Feet makes up the number of Joynts in the five Fingers or Toes of Man.

Not to omit the quintuple Section of a * Cone, of handsome practice in ornamental Garden-plots, and in some way discoverable in so many works of Nature; in the Leaves, Fruits and Seeds of Vegetables, and Scales of some Fishes, so much considerable in Glasses and the Optick doctrine, wherein the learned may confider the Crystalline Humour of

the Eye in the Cuttle-fish and Loligo.

He that forgets not how Antiquity named this the Conjugal or wedding Number, and made it the Embleme of the most remarkable Conjunction, will conceive it duly appliable unto this handsome Oeconomy and Vegetable Combination; and may hence apprehend the Allegoricall fense of that obscure expression of (c) Hesiod, and afford no improbable reason Phy

· Dixy.

& Daydrory Arbor, Frutex, Suffrie zex, Herba, or jupyous comprehending allo com setua marina falfa, and Sca-corais of lo many yards length.
* Elleipfis,
Parabola, Hyperbole, Eirculus, Trhangulum:

striumlas, id eft, nupsias multas. Rhodig ..

why Plate admitted his Nuptial-Guefts by Fives in the Kindred of the

(d) married couple. And though a sharper Mystery might be implied in the Number of Leg. 6. the Five wife and foolish Virgins which were to meet the Bridegroom; yet was the same agreeable unto the Conjugal Number, which ancient Numerists made out by two and three, the first parity and imparity, the active and passive Digits, the material and formal principles in generative Societies; and not discordant even from the Customs of the Romans, who admitted but (e) five Torches in their Nuptial Solemnities. Whether e plutarely there were any Mystery or not implied, the most generative Animals Problem. were created on this day, and had accordingly the largest Benediction. Rom.1. And under a Quintuple confideration wanton Antiquity confidered the

circumstances of Generation, while by this number of Five they naturally divided the Nectar of the fifth Planet.

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The same Number in the Hebren Mysteries and Cabalisticals Accounts was the (f) Character of Generation, declared by the Letter He, the fifth f Archang. in their Alphabet; according to that Cabaliftical Dogma, If Alram had dog, Qabal. not had this Letter added unto his Name, he had remained fruitless, and without the power of Generation: not onely because hereby the number of his Name attained two hundred fourty eight, the number of the affirmative Precepts; but because as in created Natures there is a Male and Female, so in Divine and intelligent productions the Mother of Life and Fountain of Souls in Cabalifticall Technology is called Binab, whose Seal and Character was He. So that being steril before, he received the power of Generation from that measure and mansion in the Archetype, and was made conformable unto Binah. And upon fuch involved confiderations the(g) Ten of Sarai was exchanged into Five. If any shall look upon this 3 Jod into as a Hable number, and fitly appropriable unto Trees, as Bodies of Rest He. and Station, he hath herein a great Foundation in Nature, who, observing much variety in Legs and motive Organs of Animals, as two, four, fix, eight, twelve, fourteen, and more, hath paffed over five and ten, and affigned them unto none, or very few, as the Phalangium monstrosum Brasilianum Clusii, & Jac. de Laet Cur. poster. America Descript. if perfectly described. And for the Stability of this Number, he shall not want the Sphericity of its nature, which multiplied in it felf will return into its own denomination, and bring up the rear of the account. Which is also one of the Numbers that makes up the Mysticall Name of God, which confifting of Letters denoting all the sphericall Numbers, ten, five, and fix, emphatically fets forth the Notion of Trismegistus, and that intelligible Sphear which is the Nature of God.

Many Expressions by this Number occurr in holy Scripture, perhaps unjustly laden with Mysticall Expositions, and little concerning our Order. That the Ifracines were forbidden to ear the fruit of their

new-planted Trees before the fifth year, was very agreeable unto the natural Rules of Husbandry; Fruits being unwholesome and lash before the fourth or fifth year. In the second day, or Feminine part of five, there was added no approbation: For in the third, or Masculine day, the fame is twice repeated; and a double Benediction inclosed both Creations, whereof the one in some part was but an accomplishment of the other. That the Trespasser was to pay a fifth part above the head or principal, makes no fecret in this Number, and implied no more then one part above the principal; which being confidered in four parts, the additional forfeit must bear the name of a fifth. The five golden Mice had plainly their determination from the number of the Princes. That five should put to flight an hundred might have nothing mystically implied, confidering a rank of Souldiers could scarce confist of a lesser number. Saint Paul had rather speak five words in a known then ten thousand in an unknown tongue; that is, as little as could well be spoken; a simple Proposition confishing of three words, and a complexed one not ordinarily short of five.

More confiderable things there are in this mysticall account, which we must not insist on. And therefore why the radicall Letters in the Pentateuch should equal the number of the Souldiery of the Tribes; why our Saviour in the Wilderness sed five thousand persons with five Barley Loaves, and again, but four thousand with no less then seven of Wheat; why Toseph defigned five changes of Rayment unto Benjamin, and David took just five Pebbles out of the Brook against the Pagan Champion; we leave it unto Arithmeticall Divinity, and Theological explanation.

Tiwaga Es xe, four and one, or five. Scalig.

firtuna, the fifth House. Conjunct, Opposite, Sextile, Trigonal.

Yet if any delight in new Problems, or think it worth the enquiry, whether the Physician hath rightly hit the nominal notation of Quinque; why the Ancients mixed five or three, but not four parts of Water, unto their Wine, and Hippocrates observed a fifth proportion in the mixture of Water with Milk, as in Dysenteries and Bloudy-fluxes; under what abstruce foundation Astrologers do figure the good or bad Fate from our "Ayan no- Children in (h) Good Fortune, or the fifth House of their Celestial Schemes; whether the Agyptians described a Star by a Figure of five name of the Points with reference unto the (i) five capital Aspects whereby they transmit their Influences, or abstruser Considerations; why the Cabalisticall Doctours, who conceive the whole Sephiroth or divine Emanations to have guided the ten-stringed Harp of David, whereby he pacified the evil gonal, Tetra- spirit of Saul, in strict numeration do begin with the Perihypate Meson, or F fant, and so place the Tiphereth, answering C fol fa ut, upon the fifth String; or whether this Number be oftner applied unto bad things and ends then good in holy Scripture, and why; He may meet with Abitruitties of no ready resolution.

It any shall question the rationality of that Magick in the cure of the Blinde man by Serapis, commanded to place five Fingers on his Altar, and

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With IOUT, then his Hand on his Eyes; why, fince the whole Comedy is primarily and naturally comprised in (k) four parts, and Antiquity permitted not to & Hearans, many persons to speak in one Scene, yet would not comprehend the same emirants, vain more or less then five Acts; why amongst Sea-stars Nature chiefly de- ndsacre, talighteth in five Points; and fince there are found fome of no fewer then raccoopie. twelve, and some of seven and nine, there are few or none discovered of fix or eight: If any shall enquire why the Flowers of Rue properly confift of four Leaves, the first and third Flower have five; why, fince many Flowers have one Leaf, or (1) none, as Scaliger will have it, divers three, and the greatest number consist of five divided from their bottoms, there are yet to few of two; or why Nature generally beginning or fetting out with two opposite Leaves at the Root, doth so seldome conclude with that order and number at the Flower: He shall not pass his hours in valgar

Speculations.

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If any shall farther Querie why magneticall Philosophy excludeth Decusfations, and Needles transversly placed do naturally distract their Verticities; why Geomancers do imitate the Quintuple Figure in their Mother-Characters of Acquisition and Amission, &c. somewhat answering the Figures in the Lady or speckled Beetle; with what Equity Chiromanticall conjecturers decry these Decustations in the Lines and Mounts of the Hand; what that decuffated Figure intendethin the Medall of Alexander the Great; why the Goddesses sit commonly cross-legged in ancient Draughts, fince Juno is described in the same as a veneficall posture to hinder the birth of Hercules: If any shall doubt why at the Amphidromicall Featts, on the fifth day after the Childe was born, Presents were fent from Friends of Polypusses and Cuttle-fishes; why five must be onely left in that Symbolicall Mutiny among the men of Cadmus; why Proteus in Homer, the Symbol of the first Matter, before he settled himfelf in the midst of his Sea-Monsters, doth place them out by fives; why the fifth year's Oxe was acceptable Sacrifice unto Jupiter; or why the noble Antoninus in some sense doth call the Soul it self a Rhombus: He shall not fall on trite or trivial Disquisitions. And these we invent and propose unto acuter Enquirers, naufeating Crambe-verities and Questions overqueried. Flat and flexible Truths are beat out by every Hammer; but Vulcan and his whole Forgetweat to work out Achilles his Armour. A large field is yet left unto sharper Discerners to enlarge upon this O:der, to fearch out the Quaternio's and figured Draughts of this nature, and, moderating the study of Names and mere Nomenclature of Plants, to erest Generalities, disclose unobserved Proprieties, not onely in the Vegetable Shop, but the whole Volume of Nature, affording delightful Truthe, confirmable by Senfe and ocular Observation, which seems to me the surest path to trace the Labyrinth of Truth. For though discursive Enquiry and rational Conjecture may leave handsome gashes and flesh-wounds; without conjunction of this expect no mortal or dispatching blows unto Er-K 3 rour.

m Hyades rizon about midnight at that time. P De Infomo Artemidorus and Apomazar. P Strewed with Rofes.

But the (m) Quincunx of Heaven runs low, and tis time to close the near the Ho- five Ports of Knowledge: We are unwilling to fpin our our awaking thoughts into the Phantaims of Sleep, which often continueth Precogitations, making Cables of Cobwebs, and Wilderneffes of handsome Groves. Beside (n) Hippocrates hath spoke so little, and the (o) Oneirocritical Mafters have left such frigid Interpretations from Plants, that there is little encouragement to dream of Paradife it self. Nor will the sweetest delight of Gardens afford much comfort in Sleep, wherein the dulness of that Sense shakes hands with delectable Odours; and though in the (p)Bed of Cleopatra, can hardly with any delight raise up the ghost of a Rose.

Night, which Pagan Theology could make the Daughter of Chaos, affords no advantage to the description of Order; although no lower then that Mass can we derive its Genealogy. All things began in Order, so shall they end, and to shall they begin again; according to the Ordainer of Or-

der and mystical Mathematicks of the City of Heaven.

Though Somnus in Homer be fent to rouze up Agamemnon, I finde no fuch effects in these drowsie approches of Sleep. To keep our eyes open longer were but to act our Antipodes. The Huntimen are up in America, and they are already past their first fleep in Persia. But who can be drowfie at that hour which freed us from everlafting Sleep? or have flumbring thoughts at that time when Sleep it felf must end, and, as some conjecture, all shall awake again?

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a transference of the moone of the property of some but, and while exact the state of the contract of the state of th oves. Ma-little els of Bed then shall Orie in sopen series, distri-nbring chare,

