Polygraphice, or the arts of drawing, engraving, etching, limning, painting, washing, varnishing, gilding, colouring, dying, beautifying and perfuming ... To which is added, a discourse of perspective and chiromancy / [William Salmon].

Contributors

Salmon, William, 1644-1713

Publication/Creation

London : Printed by A. Clark, for J. Crumpe, 1675.

Persistent URL

https://wellcomecollection.org/works/eqsxkvmc

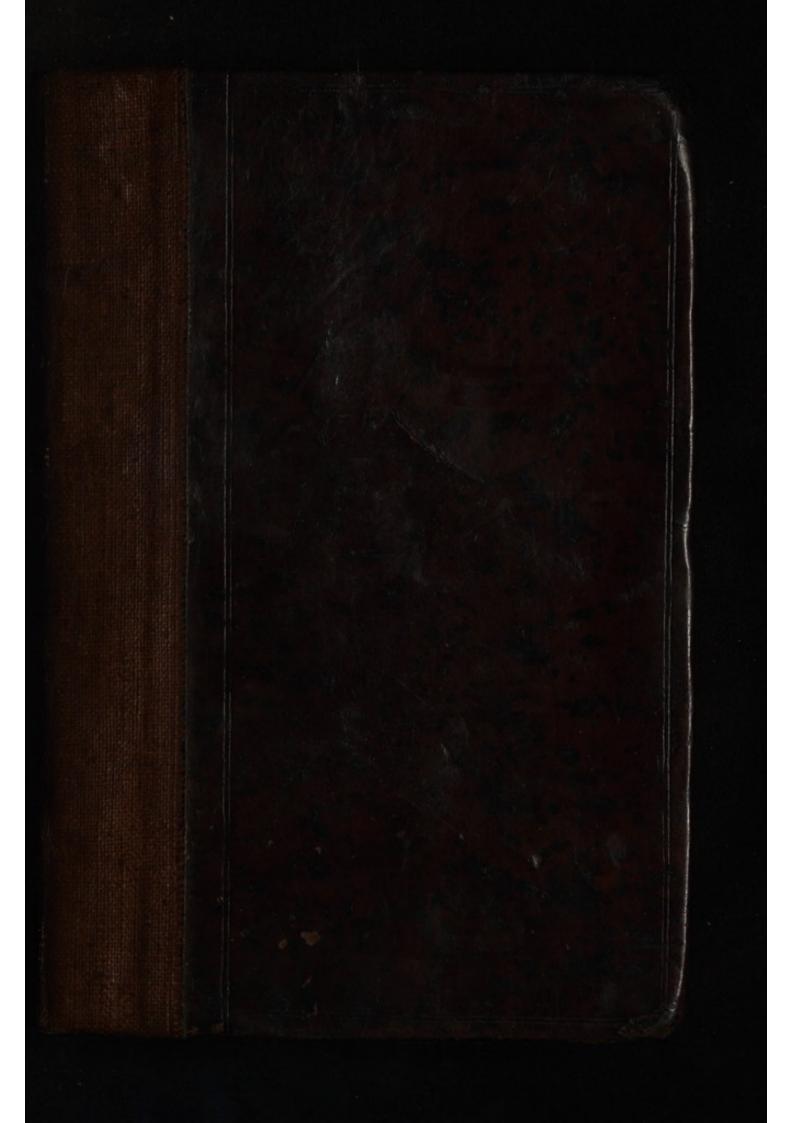
License and attribution

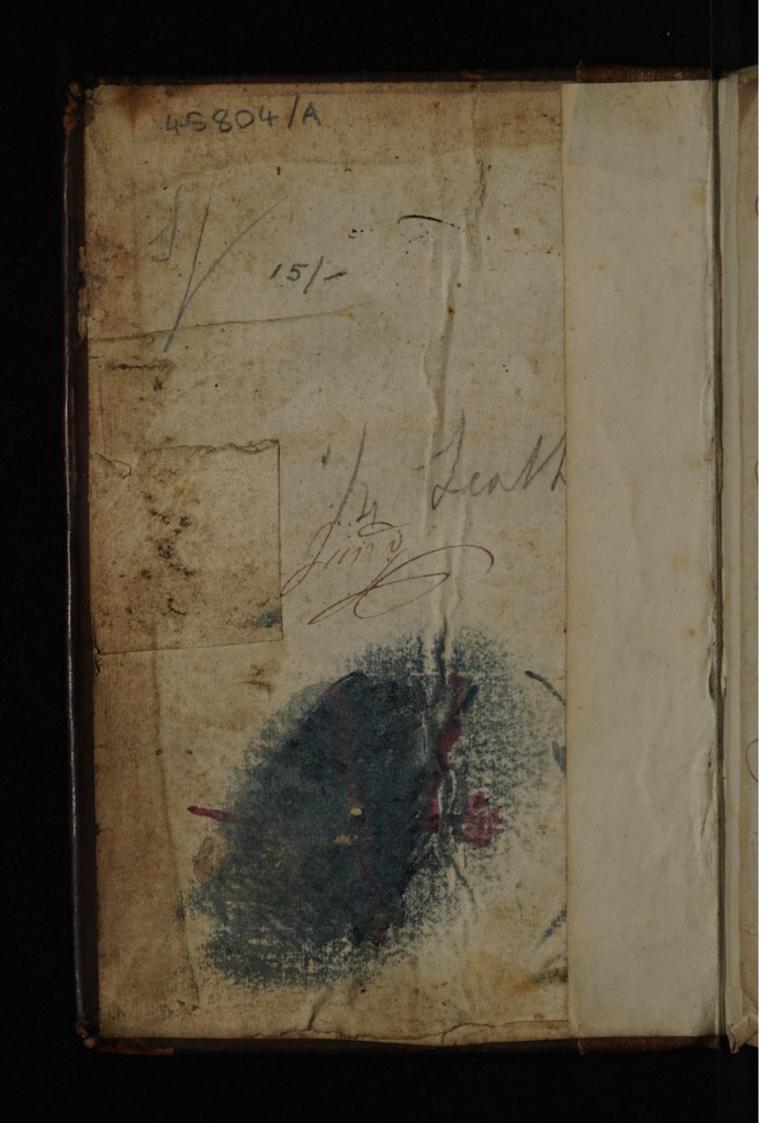
This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

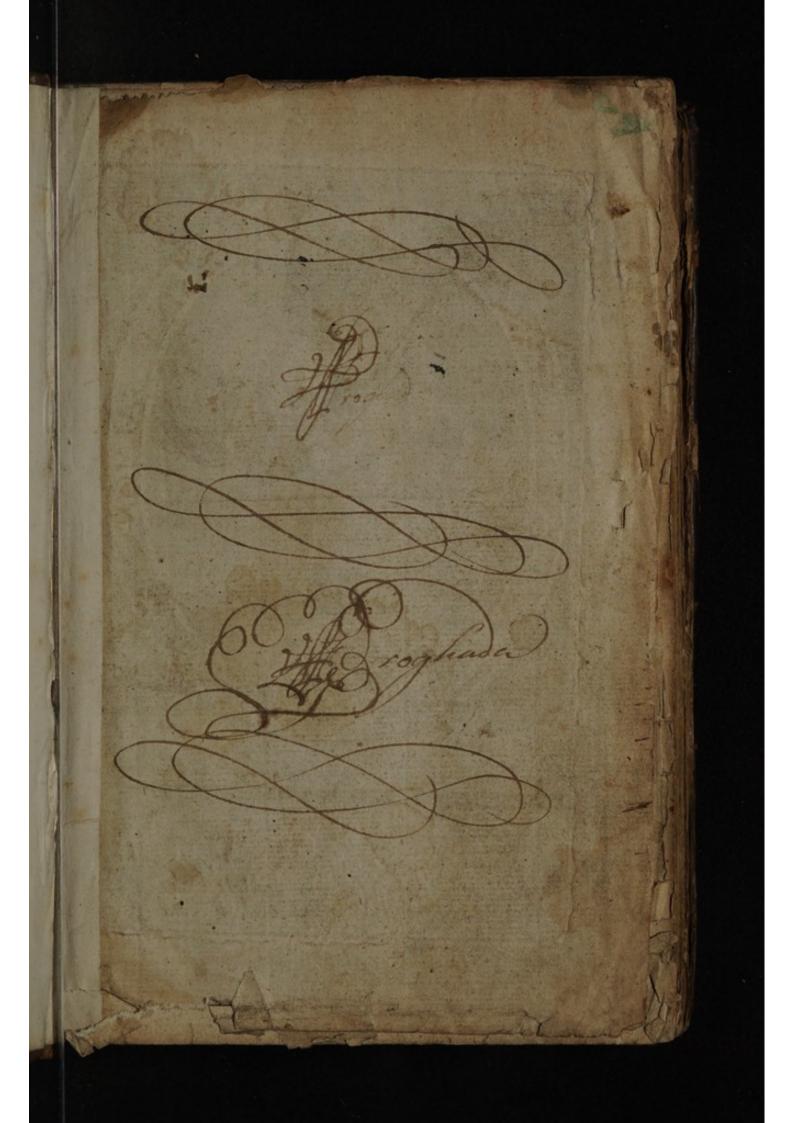
You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.

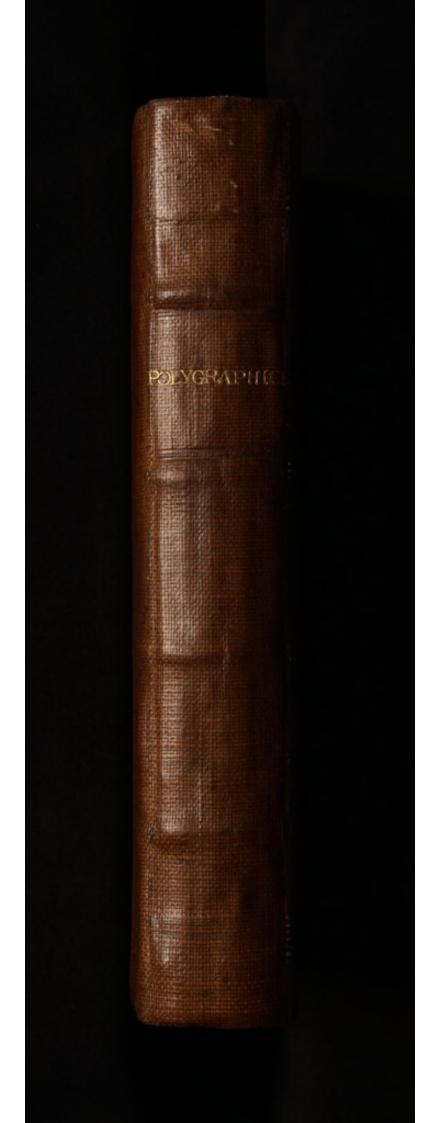


Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org







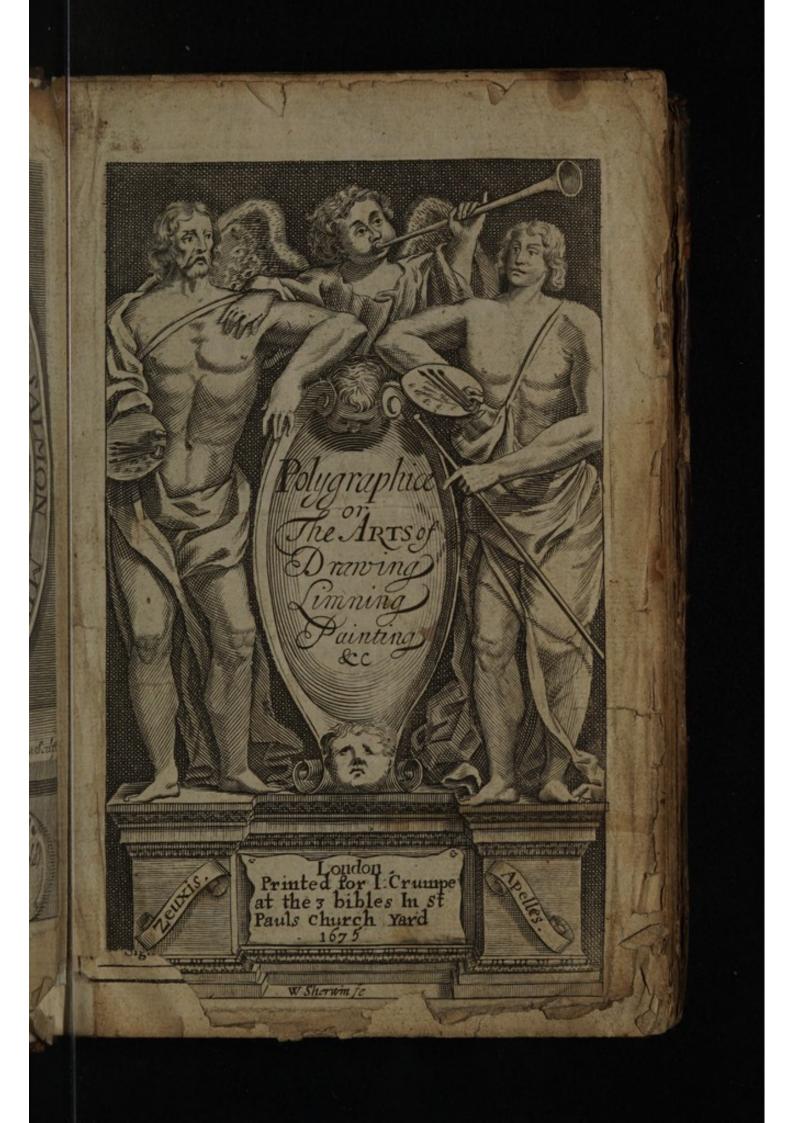


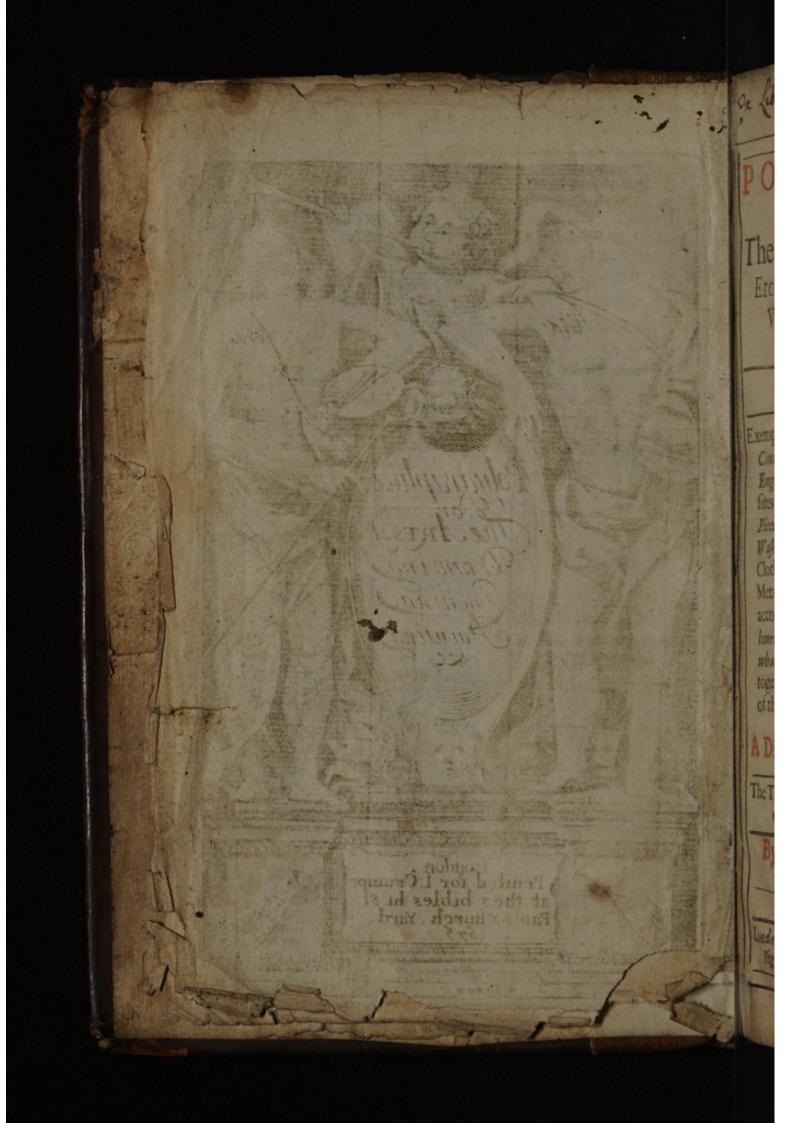


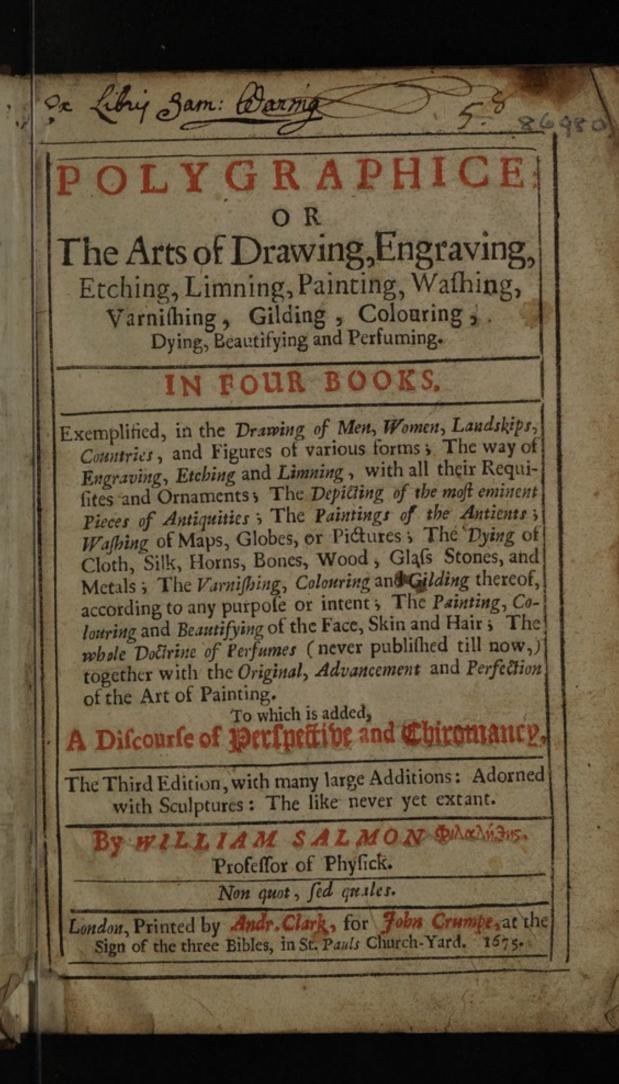


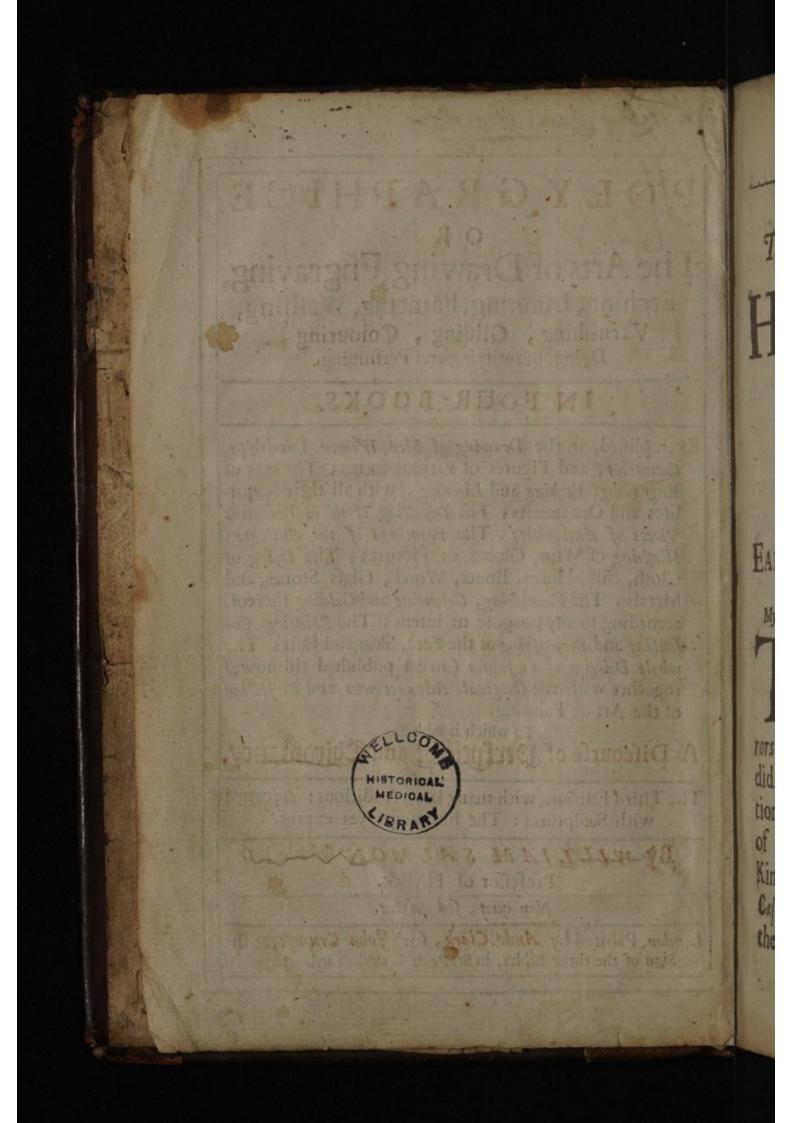












To the Right Honourable HENRY

Lord HowARD, Earl

OF NORWICH, EARL Marshal of ENGLAND.

My LORD;

He Art of Painting was a thing which of old Princes admired, Kings did affect, Emperors and Noble men of almost all Ages did love and make use of. Not to mention Juba, Rex Mauritania, Persius King of Macedonia, King Demetrius, Cyrus King of Persia, Alexander the Great, Casar, and others: How was Tiberius the Emperor taken with the Archigal-A 2 lus

The Epistle

Nobl

ter t

Pati

live

peri

Luci

muc

tion

hop

this

nity

in !

WIL

enio

bot

toa

lus of Parrhafius, and the statue which Lysippus made? How highly did Mna-Son the Tyrant of the Eleatenses prize the Pictures of the Thebean Battel done by Ariftides ? How did King Nicomedes, who proffered an unknown fum of mony to the Gnidians, for the Venus which Praxiteles made, admire it? Befides many others too tedious here to be recited, and fufficiently enough known to your Lordship, of which to make any repetition might be accounted prefumption, especially to your Honour, whole Skill in Art is large, and whole Knowledg of Universal Learning is not fmall, chiefly in that of Hiftory. It is Honour, as Cicero faith, which gives Being, Life and Nourithment to Arts, and where can that be found more than in your noble Self?Prefuming therefore of your Lordships Affection and that.un+ parallel'd Vertue, and Heroick Spirit, which not only lodges in your Honours Breast, but is also Hereditary to your Noble

Dedicatory.

Ich

11.

ne

les,

10.

ich

12-

ci.

10

ny

·e.

r,

ot

is

Id

in of

1.

11,

rs

T

le

Noble Family, I have made bold to fhelter this Work under your Lordships Patronage; expecting either to see it live in your Honours Estimation, or perish in your diflike. Now if these Lucubrations of mine obtain but so much as your Honours least Approbation, I shall think my felf happy; and hope, that with your Name and Memory this Work may be confectated to eternity. May your Lordship daily increase in Honour and Glory, be replenished with all earthly Bleffings, and forever enjoy the full fruition of all Happines both in this World, and that which is to come, is the Prayer of, Couch Deservand D CALAS G R & P R G E M.

MY LORD, will store at him of the

Your Honours most Humble and

Az william Salmona

ingford apparent as it is excellent : "I's one

Affectionate Servant,

PREFACE TO THE READER.

THE



He Subject of the enfuing Work is the Art of Painting: a name not only too fingular, but also too short or narrow, to express what is bere intended thereby: For we do not only express that Art, (as it is generally received) norsk norld, Merid

time

The hove a

been t numb lay ?

foure foure mad

tein,

ante

a mar

ET ME

TUS

1200

In

leros.

tat.

ROEN

Com

Forn

ant

plet

Sub

Azt

Etta

ba

「「「

in the

but also Drawing, Engraving, Etching, Limning, Washing, Colouring and Dying; all which being considered in their proper extent, infinitely exceed that curtail'd name of Painting; which that we might join all in one proper and comprehensive word, we made choice of that Greek Compound POLYGRAPHICE.

To perfivade any one to the Study or Practice of this Art, would be a great felly; fince Ignorance (which is always blind) can never be able to judg aright: For to him that already understands it, the labour would be useles and unprofitable; to him which is already delighted therein, it would be needles and superfluous; and to the averse and ignorant, it would be the putting a Jewel into a Swines snout: the exquisite knowledg of which is impossible ever so be attained or understood, by such prejudicate and cloudy Souls, although it is sufficiently known to many already; and its usefulnes as apparent as it is excellent: To enumerate

The Preface to the Reader.

merate the one, or reberfe the other, is but to perfrade the world, that it is day-light when the Sun is upon the Meridian ; or at least to inculeate, an ignorance of those things, which have been manifeftly known even a long time fince.

E

tt if

ba:

t i

only ed)

ng,

C0%-

ild

ONE

test

this

bis

tr to

ilefs

tere-

verfe

ines

ever

ゆう

2%-

ray

The Method of this work is wholly new, wherein we bave united and made one, fuch various subjects, as have been the uncertain, obscure and tedious discourse of a great number of various and large Volumes. What shall we lay ? things far asunder, we have laid together : things uncertain, are here limited and reduced : things ob-Scure, we have made plain: things tedious, we have made fhort : things erroneous, we have rectified and corrected : things bard, we have made facil and eafie .: things various, we have collected : things (in appearance) betorogene, we have made homogene : And in a word, the whole Art we have reduced to certain heads; brought under a certain method ; limited to practical rules; and made it perspicuous, even to a very mean understanding.

In the Composite of this Work (besides our own Ob-Servations) we have made use of the best Authors now extant, that we could possibly procure, or get into our bands; wherein our labour was not small; what in Reading, Comparing, Transcribing, Chooling, Correcting, Dispoling, and Revising every thing, in respect of Matter, Form and Order. The which had we any Prefident to bave followed, any Path to bave traced, any Example to bave imitated, any Help to have confielted, or any Subject entire : Or otherwife , bad the Number of our Authors been small, their Maxims truths, their Rules certain, their Meanings not obscure, or their Precepts been reduced to Method and Order : We might not only, with much more eafe, pleasure and certainty; less labour, trouble and pains; greater perfpicaity, plainness and

A 4

The Preface to the Reader.

and fingularity; better order, method and language; but also in thorter time have brought to perfection, what we here present you withal.

P

L

toms

patho

II. in La III

調,

lin

IV Chape

In this third Edition we have not only inferted several Copper Cuts, with more than two hundred several additions of fingular use, through the three first Books ; but there is also a whole fourth Book, containing above four-Score Chapters of Such neceffary matter, that the work without them may really be accounted defective. There is not only several necessary things added (which were omitted in the three first Books;) as also the various depicturings of the Ancients, according to the custom of every Nation, drawn from the best, most experienced and faithfullest Authors now extant, (whether English, Italian or Latin) but alfo the various ways of Painting, Beautifying and Adorning the Face and Skin, So artificially, as it shall be imperceptible to the scrutiny of the most curious and piercing eye: to which we have added (as a necessary Appendice) the whole Doctrine of Perfumes, never written on (to our knowledg) in this order before; together with the Original, Advancement and Perfection of thefe Arts.

Lastly, the Reader is defired to take notice, that in this following Work, there are many excellent secrets, not vulgarly known, which fell into our bands from several special friends, (whose exquisite knowledg in these kinds of Mysteries truly declares them to be absolute Masters thereof) which for the publick good are freely communicated to the world.

From the Eaft end of Pauls, near the Free-School, London.

William Salmon.

POLYGRAPHICES LIBER PRIMUS. OF DRAWING.

* Polygraphices.

it coulds in proportion and pallon, as it ba

age;

adbut

27-

推注

din

s of

the the the the

ole

al,

102

ral

rof

18-

10

n

CHAP. I.

Of Polygraphice in General.

I. Polygbaphics is an Art, fo much imitating Nature, as that by proportional lines with anfwerable Colours, it teacheth to reprefent to the life (and that in plano) the forms of all corporeal things, with their respective passions.

II. It is called, in general, in Greek Xecouatinn, in Latin Pictura, and in English the Art of Painting.

III. It is fevenfold (to wit) in Drawing, Engraving, Etching, Limning, Painting, Washing and Colouring.

IV. Drawing is, that whereby we reprefent the fhape and form of any corporeal fubftance in rude lines only. V. It

Polygraphices. Lib.1.

Cap.2

(though

you ma

futica.

IV. Draug

will at

to draw

VERY CA

there a

VL

OT PC

gons,

prach VII.

to take atplea 7 be

ef equa

the Ch

VII

Witha

Ta

可深山

Frind

234tr

inn i

Titley

fais

A

Your

12

V. It confifts in proportion and paffion, as it hath relation to motion and fituation, in respect of Light and Vision.

2

VI. Sanderson faith, This admirable Art is the Imitation of the furface of Nature in Colour and Proportion. 1. By Mathematical demonstration, 2. By Chorographical description, 3. By shapes of living creatures, 4. And by the forms of Vegetables; in all which it prefers Likeness to the life, conferves it after death, and this altogether by the Sense of Seeing.

VII. The proportion fnews the true length, breadth or bignefs of any part (in known measures) in respect of the whole, and how they bear one to another: The passion represents the visual Quality, in respect of love or hatred, forrow or joy, magnanimity or cowardife, majesty or humility; of all which things we shall speak in order.

CHAP. II.

Of the Instruments of Drawing,

I. THe Instruments of Drawing are sevenfold, viz. Charcoals, feathers of a Ducks wing, black and red Lead Pencils, Pens made of Ravens quills, Rulers, Compasses and Passis.

II. Charcoals are to be chosen of Sallow-wood split into the form of Pencils, and sharpened to a point, being chiefly known by their pith in the middle.

Their use is to draw lightly the draught over at first, that if any thing be drawn amiss it may be wiped out and amended.

III. The Feathers ought to be of a Ducks wing, (though

Cap.2. The Instruments of Drawing. 3

I.

ath

ght

the

By

ving n all

ifter

pett

ner: A of

W21-,

hall

az.

ind

ers,

olit

be-

ift,

(8)

ngh Ngh (though others may ferve well enough) with which you may wipe out any ftroak of the Charcoal where it is drawn amifs, left variety of Lines breed confusion.

IV. Black and red Lead Pencils, are to go over your Draught the fecond time more exactly, becaufe this will not wipe out with your hand, when you come to draw it over with the Pen.

V. Pens made of Ravens quills (but others may ferve) are to finish the work: but herein you must be very careful and exact, for what is now done amiss there is no altering of.

VI. The Rulers, which are of use to draw straight or perpendicular lines, triangles, squares or polygons, the which you are to use in the beginning, till practice and experience may render them needles.

yII. Compasses made of fine Brass with Steel-points, to take in and out, that you may use black or red Lead at pleasure.

Their use is first to measure (by help of a curious scale of equal parts upon the edg of your Ruler) your proportions, and whether your work is exact which is done with the Charcoal. Secondly, to draw Circles, Ovals, and Arches withal.

VIII. Pastils are made of several Colours to draw withal, upon coloured Paper or Parchment, Thus,

Take Plaister of Paris or Alabaster calcined, of the colour of which you intend to make your Pastils with, ana. q. f. grind them first asunder, then together, and with a little water make them into paste, then with your hands roul them into long pieces like black-led Pencils, then drie them moderately in the Air: being dried, when you use them, fcrape them to a point like an ordinary Pencil.

And thus may you make Passils of what colour you please, fitting them for the Faces of Men or Wo-

Polygraphices. Lib.1.

Ch.3

100 270

the Por

Spires

Colun

IV.

ral Pro

clevate

ther D deed th

V.

Frank Straw

胎前

VL asthe

Cat, 1 Eagle

3. Fi

back, I

k toz

With 2

Carch

Pertio

Well to

Cleath

Cotter

Cloth

filds:

0,1

men, Land-skips, Clouds, Sun-beams, Buildings and Shadows.

IX. To the former add good Copies, Patterns, and Examples of good Pictures, and other Draughts, without which it is almost impossible, that the young Artist should ever attain to any perfection in this Art.

Those that desire to be furnished with any excellent Patterns, Copies or Prints, may have of all forts, whether of Humane shape, Perspective design, Landskip, Fowls, Beasts, Fishes, Insects, Plants, Countries, or any other artificial Figures, exquisitely drawn, at very reasonable rates, where this Book is to be sold.

CHAP. III.

THE HOY HOLE W SHIT SHORE

Of the Precepts of Drawing in general.

1. BE fure to have all the neceffaries aforefaid in Breadinefs, but it will be good to practife as much as may be without the help of your Rule and Compaffes; it is your eye and fancy must judg without artificial measurings.

II. Then first begin with plain Geometrical Figures, as Lines, Angles, Triangles, Quadrangles; Polygons, Arches, Circles, Ovals, Cones, Cylinders and the like. For thefe are the foundations of all other proportions.

III. The Circle helps in all orbicular forms, as in the Sun, Moon, &c. the Oval in giving a just proportion to the Face and Mouth; the mouth of a Pot or Well, the foot of a Glass, &c. the Square confines the Picture you

Ch.3. The Precepts of Drawing.

D.I.

and

ins,

oung

this

excel-

orts .

and-

loun-

ann.

to be

aid in

tile as

and

with-

eures,

Poly-

rs and

other

35 II

ortion

Well,

dure

800

you are to Copy, Oc. the Triangle in the half-face; the Polygon in Ground-plats, Fortifications, and the like; Angles and Arches in Perspective; the Cone in Spires, tops of Towers and Steeples: the Cylinder in Columns, Pillars, Pilasters, and their Ornaments.

IV. Having made your hand fit and ready in general Proportions, then learn to give every object its due fhade according to its convexity or concavity, and to elevate or deprefs the fame, as the object appears either nearer or farther off the light, the which is indeed the life of the work.

V. The fecond Practice of Drawing confifts in forming Fruits, as Apples, Pears, Cherries, Peaches, Grapes, Strawberries, Peafcods, &c. with their Leaves: the imitation of Flowers, as Rofes, Tulips, Carnations, &c. Herbs, as Rofemary, Tyme, Hyfop, &c. Trees, as the Oak, Fir, Afh, Wallnut, &c.

VI. The third Practice of Drawing imitates, 1. Beafts, as the Lamb, Elephant, Lion, Bear, Leopard, Dog, Cat, Buck, Unicorn, Horfe, &c. 2. Fowls, as the Eagle, Swan, Parrot, Partridg, Dove, Raven, &c. 3. Fishes, as the Whale, Herring, Pike, Carp, Thornback, Lobster, Crab, &c. of which variety of Prints may be bought at reasonable rates.

VII. The fourth Praxis imitates the Body of Man with all its Lineaments, the Head, Nofe, Eies, Ears, Cheeks, Hands, Arms, and Shadows all exactly proportional both to the whole, and one to another, as well to fituation as magnitude.

VIII. The fifth Praxis is in Drapery, imitating Cloathing, and artificially fetting off the outward Coverings, Habit and Ornaments of the Body, as Cloth, Stuff, Silk and Linen, their natural and proper folds; which although it may feem fomething hard to do, yet by much exercise and imitation of the choiceli

Polygraphices. Lib. 1.

Cap.

XII.

Sille!

aja,

the Ver

Diffec

and net

drawin

to exer

comp)

turt h

this I

gent Maffe

XII

all this

be cafi

0

L IN binder

ofe m

Wint

choicest Prints, will become facil and easies

6

IX, In drawing of all the aforegoing forms, or what ever elfe, you must be perfect, first in the exact proportions: fecondly in the general or outward lines before you fall to shadowing or trimming your work within.

X. In mixed and uncertain forms, where Circle and Square will do no good (but only the *Idea* thereof in your own fancy) as in Lions, Horfes, and the like; you must work by reason in your own judgment, and so obtain the true proportion by daily practice. Thus;

Having the shape of the thing in your mind, first draw it rudely with your coal, then more exactly with your lead or pencil; then peruse it well, and consider where you have erred, and mend it, according to that Idea, which you carry in your mind; this done, view it again, correcting by degrees the other parts, even te the least Jota, so far as your judgment will inform you; and this you may do with twenty thirty, forty or more papers of several things at once : having done what you can, confer it with some excellent pattern or print of like kind, using no rule or compass at all, but your own reason, in mending every fault, giving every thing its due place, and just proportion; by this means you may rectifie all your errors, and step an incredible way on to perfection.

XI. Having then good Patterns and Copies to draw by, the young Artift must learn to reduce them to other proportions either greater or smaller, and this by often and many tryals (as we shall hereafter more particularly teach) this requires great judgment, for in a cut, you shall find neither circumscribing firokes, nor difference between light and light, or shadow and shadow; therefore ferious observations are required in the fite of those things, whether coming forwards or going backwards.

Cap.4. The Art of Drawing.

1.1.

1 OF

ċcx-

Ward

Vour

Tircle

nere-

d the

judg-

pra-

drap

r lead

e bavé

h 4000

etting

fo fat

IV do

things fome tule of

every

oporti-

nd ftep

o draw hem to

nd this

ent, for

Arokes

OW 201

required

xuwards XIL XII. The drawing after Plaister-work, done by skilful Masters, as the Gladiator and children of Francifco, the Rape of the Sabine Women, the Wrastler, the Venus of Greece, Hereules, Hermes, anatomical Diffections, and other pieces of antiquity, are main and necessary Introductions to attain a perfection in drawing after the life.

XIII. This done, let the young Artift now begin to exercife in drawing after the life; (for that is the compleateft, beft, and moft perfect Copy, which Nature has fet for obfervation) wherein the liberty of imitation is prefented in the largeft latitude: and this must be attained by much Practice and diligent Exercife, adjoining the Instructions of a good Master.

XIV. In this Practice of Drawing let there be a perfection attained, before ever there be the leaft thoughts of Colours or Painting; for that afterwards all things belonging to Painting will in a fhort time be cafily and perfectly underftood.

CHAP. IV.

som fooner and octor than can be inturine

Of particular Observations in the Art of Drawing.

I. IN drawing after a Print or Picture, put it in fuch a light as that the gloßs of the Colours hinder not your fight, fo as that the light and your eye may equally obliquely fall upon your piece; which place at fuch a diffance, that at opening of your

Polygraphices.

8

Lib. I.

Car

1

-

111

cho

abo

by

WOI

I

故

flees

and

far eye plu to y

und

Dal

for

yo:

ten

tno.

Boo

000

wh

CIN

the

imi

1

tre

200

mo

ad

your eyes, you may view it all at once, the greater your Picture is, the further off you must place it to draw after: the which you must always be fure to put right before you. a little reclining.

II. Then observe the middle of your Picture to be copied, which touch upon your paper with the point of your coal: then observe the most perspicuous and uppermost figures (if more than one,) which touch gently in their proper places, thus running over the whole draught, you will fee the Skeleton, as it were, of the work.

But if you go on without these considerations, whereunto your Draught will tend or run; then having ended your work, you will be forced to draw the same many times over and over again, and, it may be, every time to as little purpose; by the tediousness of which your ingenuity will be dulled.

III. Be fecure of a right and true draught, though you do it flowly; what you think may be done in two or three hours; it will be better to beflow two or three days upon: by this means (though you act leifurely, yet you will act prudently, and) you will both fooner and better than can be imagined attain the perfection of what you defire.

IV. These outschetches being made, view them diligently whether they answer your pattern apparently; for the Gestures of the life ought to shew themselves eminently in the first and rudest draughts thereof; without which be sure your work will be faulty.

V. Having viewed these schetches, begin to correct and amend them (where you find them amiss) and gradatim by adding or diminishing a little here and there as you see it differ from your pattern, you will bring it nearer and nearer to the life.

Cap.4. The Art of Drawing.

). I.

ater

It to

01 21

to be

point

and

t the

Vere,

Tar

#25 m

371

ne in

two

po act

I WIL

attam

n dili-

entlys

felva

ereoti

0 001-

mils)

e here

atten ,

The

This with a Charcoal you may eafily do, because you may wipe away what is amis.

9

VI. In drawing after Plaister and embossed works, choose a good North light, which let descend from above, not dilating or scattering it felf too much, by which you may the more pleasantly shade your work.

If the Room has a South light, put oiled Paper before the window, or if you draw by Candle-light, have a Lamp Shaded with oiled paper; for a Candle will grow lower and lower, which causes the shades to change, all which you avoid in a Lamp.

VII. Then fet your felf down about three times as far from the Pattern as the Pattern is high; fo as your eyes in a direct line may view the fame: then with a plumb line obferve what parts of your Pattern appears to you, by the extending ftreight thereof, and how one under another they come in fight, and accordingly make your fundamental fcotches, as we have just before taught.

VIII. In drawing the Muscles of a human body you must first have either the life or very good patterns made either of Plaister, or drawn in Pictures, enough of which are to be found in Anatomical Books; but chiefly the Book of *jacob Vander Gracht*, compleated with many varieties and curiofities; from whence the alterations and changes, rifing and falling, extension and contraction, and other operations of the Muscles, Arteries and particular members are in imitation of the life excellently depicted.

IX. In drawing after a naked body, all the Muscles are not so plainly to be expressed as in Anatomical Figures; but that fide whose parts are most apparent and fignificant in the performing of any action, must more or less appear according to the force of that action. B X.In

Polygraphices.

10

Lib.I.

but

1

poli

ktt

the

whi

kat

bil

the

de

lon

80

Bra Will Wa

to the

ful

in

Ch

ET:

COL

20

X. In young perfons the Muscles must not manifeflly appear to hard, as in elder and full grown pertons: the fame observe in fat men, and fleshy, and such as are very delicate and beautiful. And in Women you must fearce express any at all, because that in the life they either appear not at all, or very little, unless it be particularly in some forceable action : and then you must represent them but very faintly, left you spoil the fingular Beauty of the body. The like observe in little Children.

XI. In drawing of these Muscles the motion of the whole body is allo to be confidered : in the rising or falling of the Arms, the Muscles of the Breast more or less appear : the Hips the like according as they bend outward or inward; and the fame chiesy in the Shoulders, Sides and Neck, according to the several actions of the body: all which alterations are first to be observed in the life.

CHAP. V.

Of the Imitation of the Life.

I. IN order hereunto it will be neceffary (having fixed a convenient time and place) to choofe a good Mafter, with whom you may (pend two days in a week, at leaft; or elfe a fociety of about half a fcore or a dozen young men, who are experienced to draw after the life, by the advice and example of whom, and your own diligent obfervations and care, you may come not only to mend one anothers faults, but also one anothers judgments.

II. Then choose a well-shap'd man, one of large shoulders,

Cap 5. The Imitation of the Life. II

11.

i.

nd

0-

Dat

tle,

nd

left

Se.

ine, 10

i0ť

end the

ral

10

DB 63

ays

11

10 of

ind

ers

ry:

151

thoulders of a fair breaft, ftrongly mufcled, full thighs, long leggs, and of a proportionable heighth, not too tall nor too fhort, not too thick nor too flender, but a person every ways of an admirable shape.

III. Let this Exemplar be made to fland in a good posture, representing some noble action of the life, letting the head turn it felf to the right fide if the left be (hadowed; and contrariwife, making the parts of the apparent shoulder somewhat higher than that which is obscured; and the head if it looks upwards, leaning no farther backwards than that the eyes may be feen ; and in the turning of it, let it move no farther than that the chin may only approach the thoulder; making allo the hip on that lide the fhoulder is loweft, a little to flick out; and that arm foremoft, where the leg is behind, and contrariwife.

IV. The fame you must observe in all fourfooted Beafts; and this generally to make the limbs crofswife to cohere together; and in the turning of it forward, backward, upward, downward, fideways, ever to counterballance it ty the opposition of other parts, the right knowledg of which is a great step to the Imitation of the life.

V. This done, let him, whole turn it is to begin, first scotch on the paper his own Idea's (being fixed in a convenient place and light, as in the former Chapter) wherein you must endeavour to make every part to agree with the whole, first in form, fecondly in proportion, thirdly in action: after this begin again, running over your Draught, bring it to a conclusion, as we shall hereafter teach you.

VI. Observing always, that after you have scotcht your whole Figure, that you choose a part which you most defire to finish) to perfect the same, in regard that with the reft flands in a good pollure; the realon

Polygraphices. Lib.1.

200

and

in

th.

be

the

cui thi

ch

po

an:

W

al

fon is, because time will not always casily permit to finish or compleat a whole Figure, unless it be with expert Artists: it being much better to perfect a part than to leave the whole imperfect; which as each Practitioner arrives and draws nearer to perfection, he may with so much the more boldness, fecurity and certitude attempt the compleating of the whole.

VII. You are also to confider after what manner you would have your Figure to be feen, whether upon even ground, or from aloft; for accordingly you must make the position of your Exemplar.

VIII. Let the young Artift also at his conveniency, fometimes view the Country, and practife upon the drawing of Landskips, as much representing Nature (1. in their diffance, 2. in their mutual position, 3. in visible aspect) as possible may be: by this means he will come to have a general and compleat understanding in the universal measures of all things.

CHAP. VI.

Of the Imitation of Draughts.

I. The Learner must, by many and often tryals, get a habit of Imitation; which if it be to be done with the Pen, beware of fcratching and making thin and lean stroaks, but rather broad, which you shall draw from above, downwards; but according to the shades, fome of the hatches must be sharp, some broad, some unequal, and some equal.

II. Hold your pen or pencil fomewhat long, (and not fo upright as when you write,) feeming as though you laid it straight forward : and if they be passils, accustom

12

Cap. 6. The Imitation of Draughts. 13

Ł,

10

th

in

12.

he

18r

on

uft

cy,

the

UTC.

in

he

1-

1

bċ

B

JU

B

nc

ad

Si

1

accustom your felf to turn them in your hand, by this means you will prevent their becoming fo foon blunt, and they wearing to a point may ferve without fcraping the making of a whole Draught.

III. In shadowing of your Draught, you must first begin to do it faintly and fmoothly, and ftraight against the edges of the light, fo that it may look as if it had been dasht with a brush-pencil; and then here and there overshadow it again in the darkest shades farther out, and adorn it with hatchings; and where any thing more is required, put the fame in nimbly and clearly by gentle touches, the which will add a great grace unto your work.

IV. Doefling (which is a certain befmeering of the work) is to be done with Crions of red or black Chalk, touching the Draught eafily all over fmoothly and evenly with the points thereof, and not with Cotton or the like put up into Quills, as fome ule ; though that may be done in fome cafes, as where one work is to be brought into another.

v. If Copies be taken (chiefly upon coloured paper) to make it curious and neat, let the edges of the heightening be fmoothed a little (not with corton, but) with the like coloured paper rouled up to a sharp point at one end, and by this means you will take away the sharpness and hardness of your edges, and make them look fweet and pleafant.

VI. In performance of these things a certain kind of washing is sometimes necessary, performed with Pencils dipt in some coloured liquor, and so laid upon coloured paper; and this is to be done either through the whole work, or in a part thereof, to wit, in some principal flat shades; which may be afterwards loofly wrought over with a Pen or black Chalk, the which will look very pleafantly. VII.

14 Polygraphices. Lib.1.

VII. This Walhing, must be first done very weak and faint, yet smooth (without smoothing of it at the edges, except by a new stroak of your pencil moistened with your tongue; for much smoothing will spoil your work) this first washing being dry, go over again with your work, yet only those parts where there ought to be a darker shade; and afterwards again give some deeper and harder touches without smoothing, the which will very much set your work off.

VIII. Faint shadows, and things obscure, must be presented as faintly as may be, chiefly upon coloured paper, where the heightning helps you; but beware you go not too often over your shades, left you spoil them, by making them too hard and illtavoured

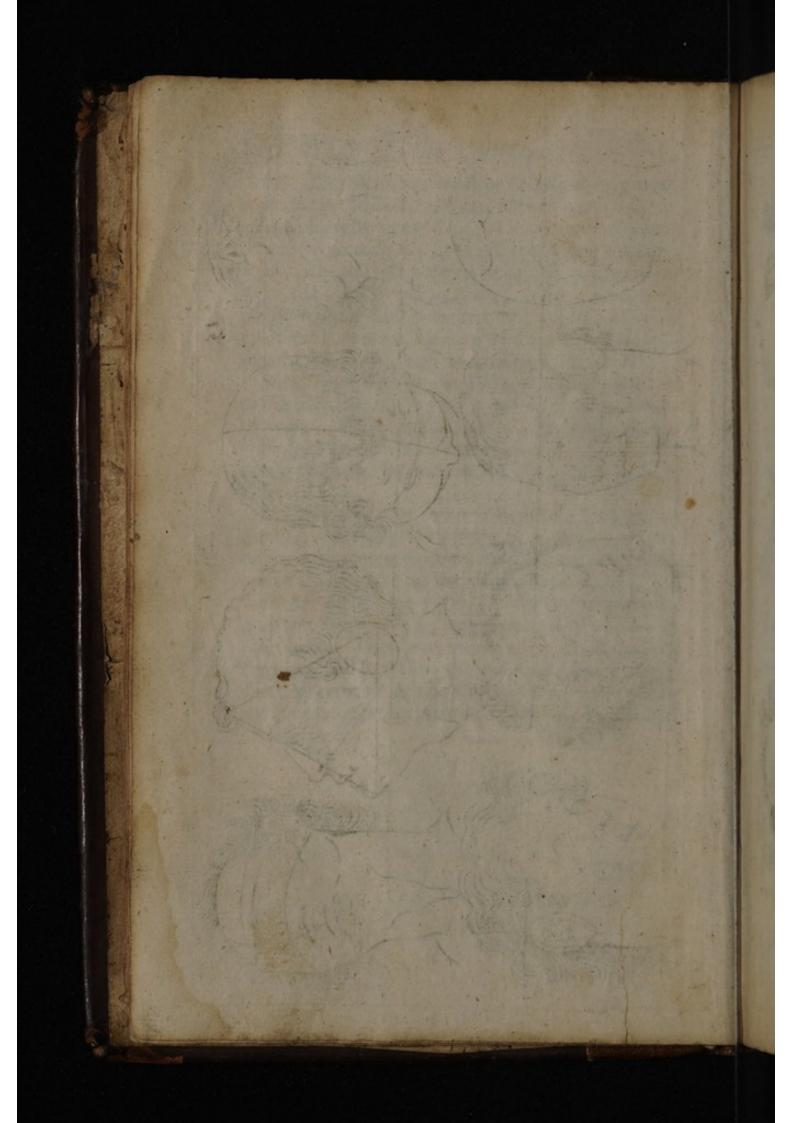
IX. In drawing, whether it be after a Draught or the Life; first observe the thing in general, in respect of the circumferent stroaks; for them are they, which bound and contain all the parts of the whole, and without which the particular parts can never be perfectly distinguished, nor represent themselves in their being: This done, then confider in like manner the parts, and supposing the parts each to be a whole, you may come to represent the parts of parts, and by the fame means to express the whole of any Draught whatfoever.

wrotelic over with a Pup of black Chain

wan lock ren picelaner.

Awe as restrict a part a diate show CHAP









Cap. 7. Drawing the Face of a Man. 15

CHAP. VII.

Of Drawing the Face of a Man.

N drawing of the Face you are first to observe its I. motion whether upwards, downwards, forwards, or fideways; whether it be long or round, fat or lean great or little.

For if it be fat, the cheeks will feem to fivell : if lean, the jaw-bones will stick out, and the cheeks fall in; but if neither too fat nor too lean, it will be for the most part round.

II. Touch lightly the features where the eyes, mouth, nole, and chin fhould ftand, (having first drawn the cirle or oval of the Face) then make a ftroak down from that place of the forehead which is even with the chin, coming down where you fhould place the middle or tip of the nofe, and middle of the mouth, which ftroak must be made ftraight down in a full right Face, but arched or oval in an oblique Face, leaning that way towards which the Face doth turn : then crofs the ftroak about the middle of the eyes, either with a straight line in a right Face, or with a Curved either upwards or downwards according to the present action or posture of the Face : then make another answerable to that, where the end of the nofe thould come; and another for the mouth that it be not made crooked.

III. This Crofs is difficult to be underflood in plano; but upon a Face made upon a folid body, in form or thape of an Egg, the leveral variations of the faid crofs are most excellently demonstrated: and from hence

Polygraphices.

Lib.I. hence may the learner understand all the alterations of a Face, and thereby draw it all manner of ways, as fideways, upwards, downwards, forewards, backwards, orc. and that only by the motion of the faid oval folid accordingly, as in the following Figures you

may eatily perceive.

16

IV. Then if the face look upwards towards Heaven, or downwards towards the Earth, let the Eyes, Nofe, Mouth, and Brows looks accordingly with it; and now proceed to the placing of the Features.

V. In a just proportioned Face, the diffances, 1. between the top of the forehead and the eye-brows ; 2. between the eye brows and the bottom of the nofe, 3. between the bottom of the nofe and the bottom of the chin are equal.

VI. In drawing the utmost Circumference of a Face, take in the Head and all with it, left you be deceived in drawing the true bignefs.

VII. Then confider all those chief touches which give life to a face, adding grace thereto, and something discovering the disposition of the mind.

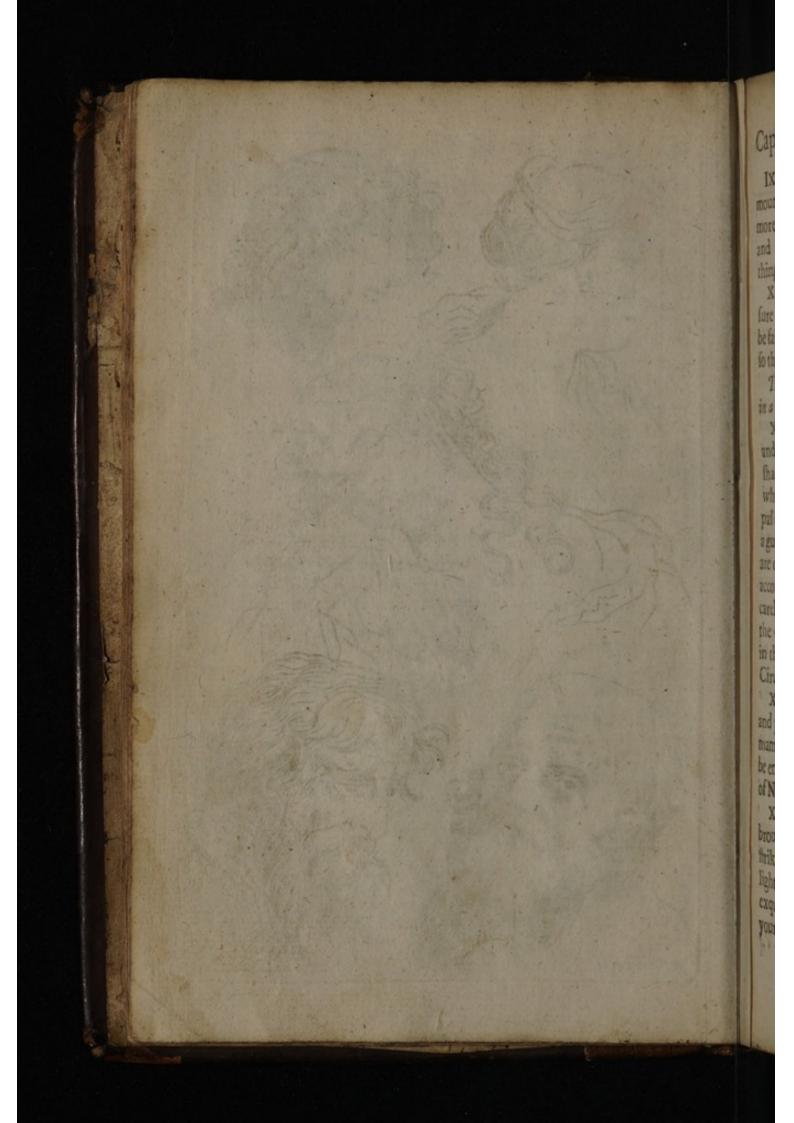
So the mouth extended and the corners a little turning up, shews a smiling countenance : the eye-brow bending, and the forehead and top of the nose between the eyebrows wrinkled, hews one frowning : the upper- eye-lid coming something over the ball of the cye, shews one fober and stayed : with many other touches which give life and firit to a face, which in good prints, by little and little, and diligent observation you will at last find out.

VIII. The diffances between the eyes, is the length of one eye in a full face, but in a three-quarter or half-face, it is leffened proportionably : and exactly underneath the corners of the eyes place the noftrils. IX, Having









Cap.7. Drawing the Face of a Man. 17

IX. Having given touches where the eyes, nofe, mouth and chin fhould be placed, begin to draw them more exactly, and fo proceed till the Face be finished; and then make the hair, beard, shadows, and other things about it.

X. Be fure to make the fhadows rightly, and be fure not to make them too dark, where they fhould be faint; for that can never be made light again, and fo the whole Face ir marr'd.

The shadows are fainter and lighter in a fair Face than in a swarthy.

XI. When you have finished the Face, give here and there fome hard touches with your pen where the fhadows are darkest; then come the cars and hair, wherein having drawn the out-line, draw the principal curls, or master stroaks in the hair, which will be a guide to you in the leffer curls, whose dependance are on them: always make the curls to bend exactly according to the pattern, that they may lie loose, or careless, and not as if they were stiff and forced; the curls being rightly drawn, in the last place strike in the loose hairs which hang scatteringly out of the Circles.

XII. In forming the Ear, defcribe an oval as it were, and proceeding lightly, joyn ftroak to ftroak, in fuch manner as you fee in the Figures; fo that the ear may be entirely formed, without digreffing from the bounds of Nature or Art.

XIII. Laftly, having practifed a little by rule, and brought your hand in; in drawing of any thing, first strike the out-stroaks, principal veins and muscles lightly, and afterwards shadow them, ever following exquisite patterns and prints, which will both encrease your judgment, and bring command to your hand.

CHAP.

18 Polygraphices. Lib.1.

CHAP. VIII.

Of Drawing the Extreme parts.

1. IN drawing the Hands, draw not all the joints, veins or other things to appear plainly, but only lightly and faintly, and ftrike out the bignefs of the hand, and the manner of its turning with faint touches, and not with hard ftroaks; then that being done right, part the fingers according to the pattern with like faint ftroaks; then mark that place where any of the fingers do ftand out from the others, with a faint refemblance: this done, proceed to draw it more perfectly, making the bending of the joints, the wrifts and other principal things more exactly; and laftly, go over with it again, drawing every fmall bending or fwelling of the fingers, nails, knuckles and veins, fo many as do appear.

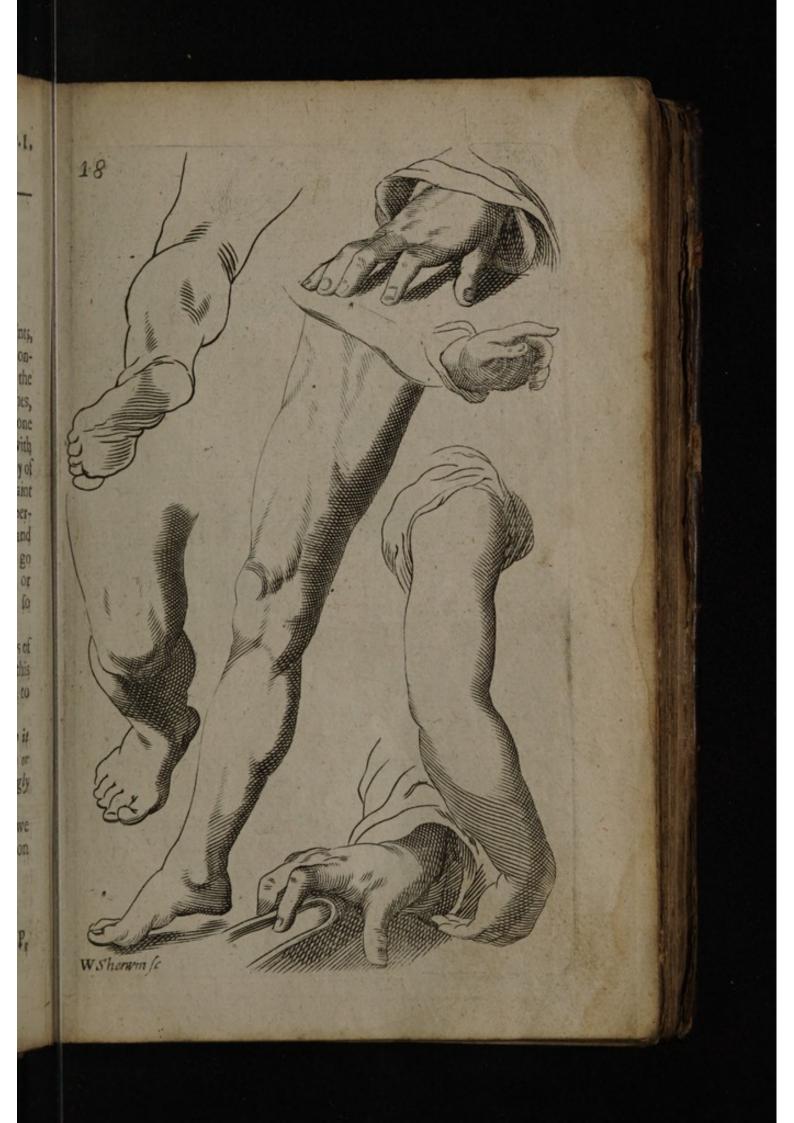
II. Learn by good prints the just proportions of the hands, with their equal distances, observing this rule, that according as it turns one way or another, to shorten proportionally as they appear to the eye.

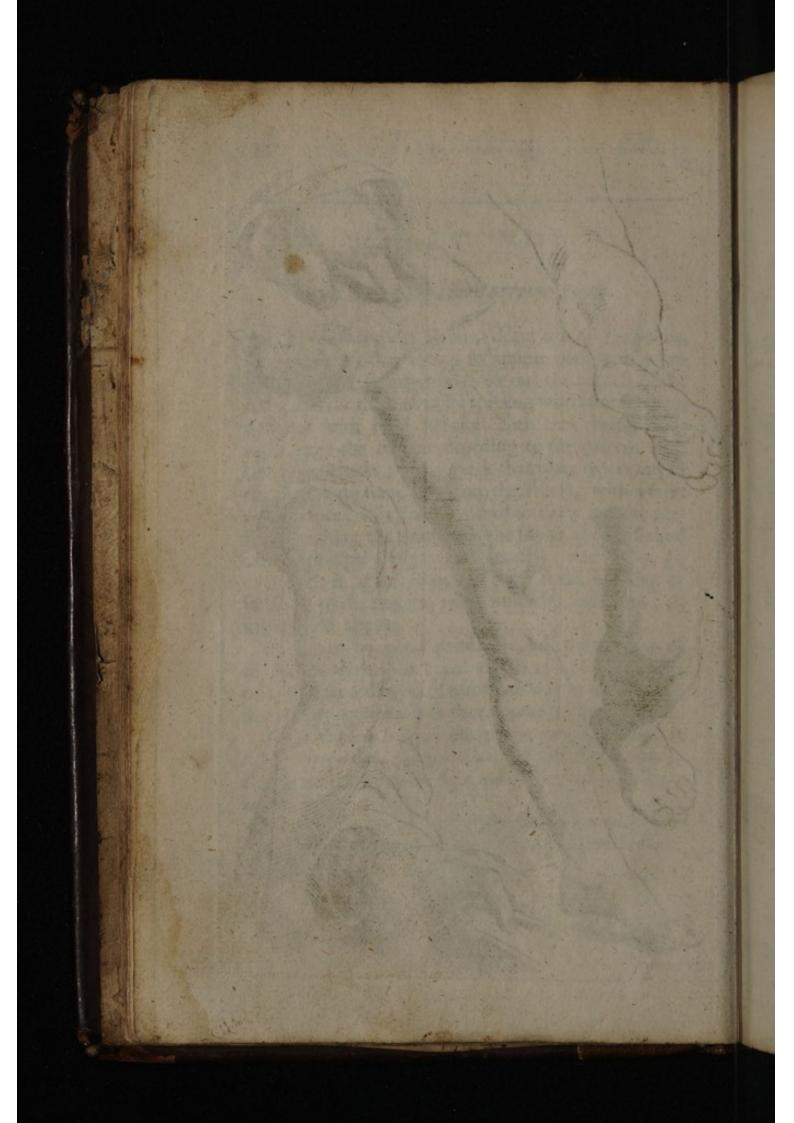
For so much as it turns away from our eye, so much it loses in proportion, yea sometimes a whole finger, two or three or more is lost to our fight, which you must accordingly answer in your draught.

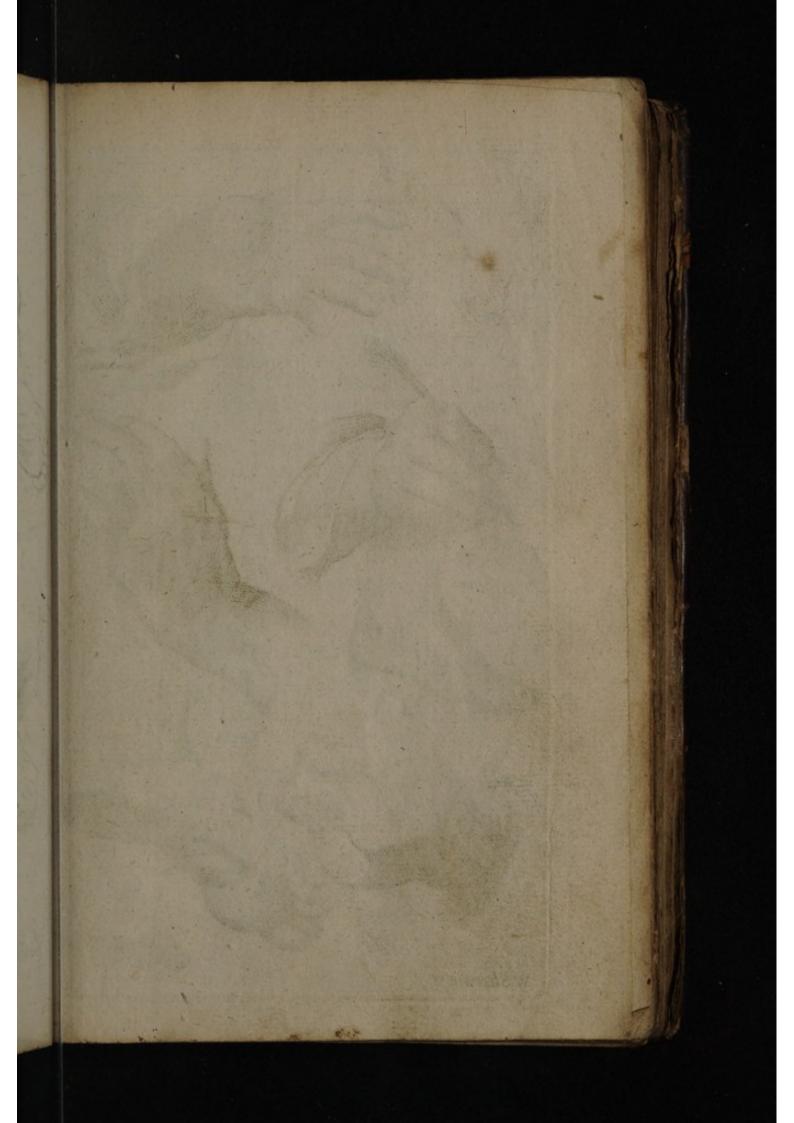
III. In drawing of the feet, the fame rules which we even now enumerated, at the first and fecond Section of this Chapter, are to be understood here.

CHAR

PAHS Contract, and being command to your hand.









Cap.9. Of Drawing the whole Body. 19

CHAP. IX.

Of Drawing the whole Body.

I. First begin with the head, and be fure to give it its just proportion, answerable to what you intend the whole body shall be; then draw the shoulders in their exact breadth; after them, the trunk of the body beginning at the arm-pits, and so drawing down to the hips on both sides, observing withal the exact breadth of the waste: lassly, draw the legs, arms and hands, exactly to your pattern.

II But first draw with a coal, and that very lightly and faintly, drawing nothing perfect (that you may the easier mend it if it be amils, and then afterwards finith one thing after another as curiously as you can.

III. Let the parallel finews, mulcles, veins and joints, be placed opposite one to another in a straight line (as shoulder to shoulder, hip to hip, knee to knee, $\mathcal{O}c$.) for which purpose draw straight cross lines to guide you therein; observing that which way soever the body turns or bows, these lines may answer accordingly.

IV. Let all perpendicular joints, and parts alfo, be placed in a right line one under another (as they are in your pattern) for which end, draw a firaight line (if the body be ftraight) from the throat thorow the middle of the breaft and privities, to the feet, to which line draw all those particular points parallels, that the body may not appear crooked or awry. V. In

20 Polygraphices.

Lib.L.

V. In bowings and bendings of the body, let the extuberance of the outward part be just equal to " the compression of the inward part; making all things of an equal proportion, that as opposite parts may be equal (as the arm to the arm, leg to leg, Ge.) to every part may be proportionable to each other, (as the Hand not too big for the arm, nor the arm for the body, nor the body for the legs, &c.) only with this difference, that (as the one part may appear fully to the eye, or the other may turn away either in part or in whole, or be feen fide-way) it be made fo much lefs than the other, by fo much as it turns away from the fight.

VI. As you observe a just proportion in bigness, fo alfo in length, that as every opposite part be of equal length, fo that each part may not be too long one for another, but according to the proposed magnitude: And in this cafe that if the body be awry, or any ways hid, those parts may thorten accordingly, to what is out of fight.

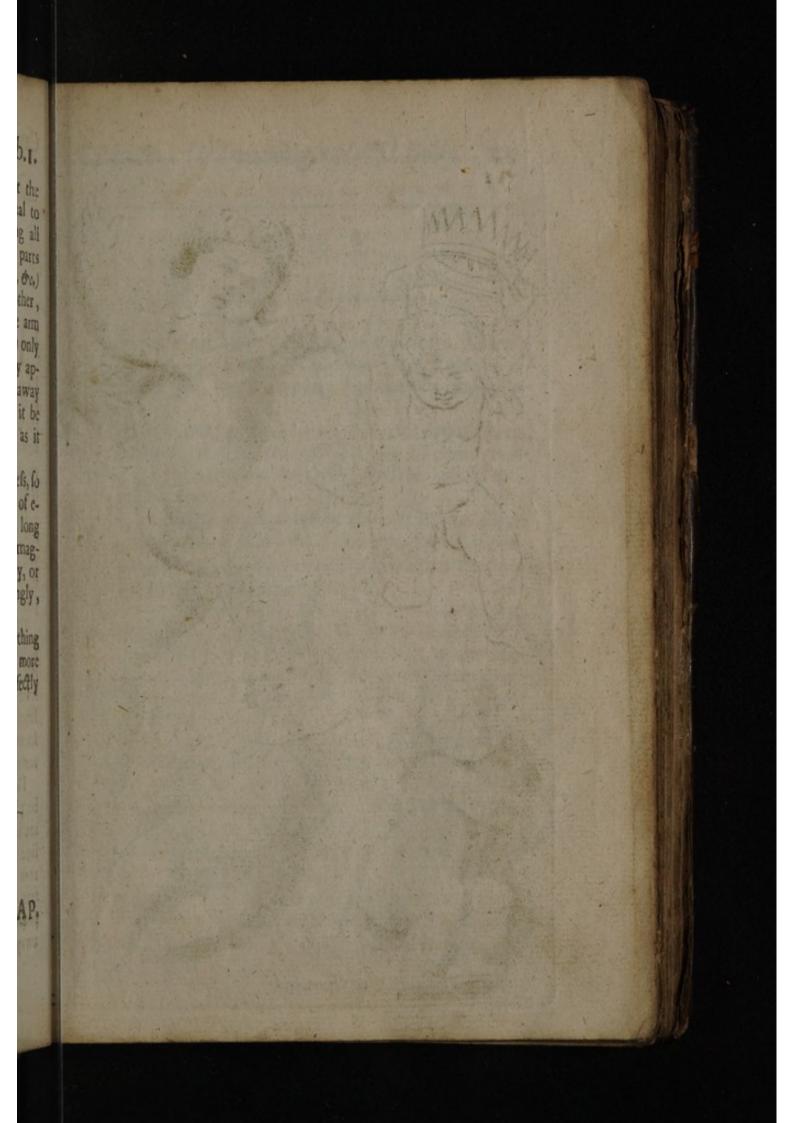
VII. Loftly, Observe the just distance of one thing from another, for by that means you will be more exact in your draught ; and, in fhort time, perfectly imitate your pattern or nature.

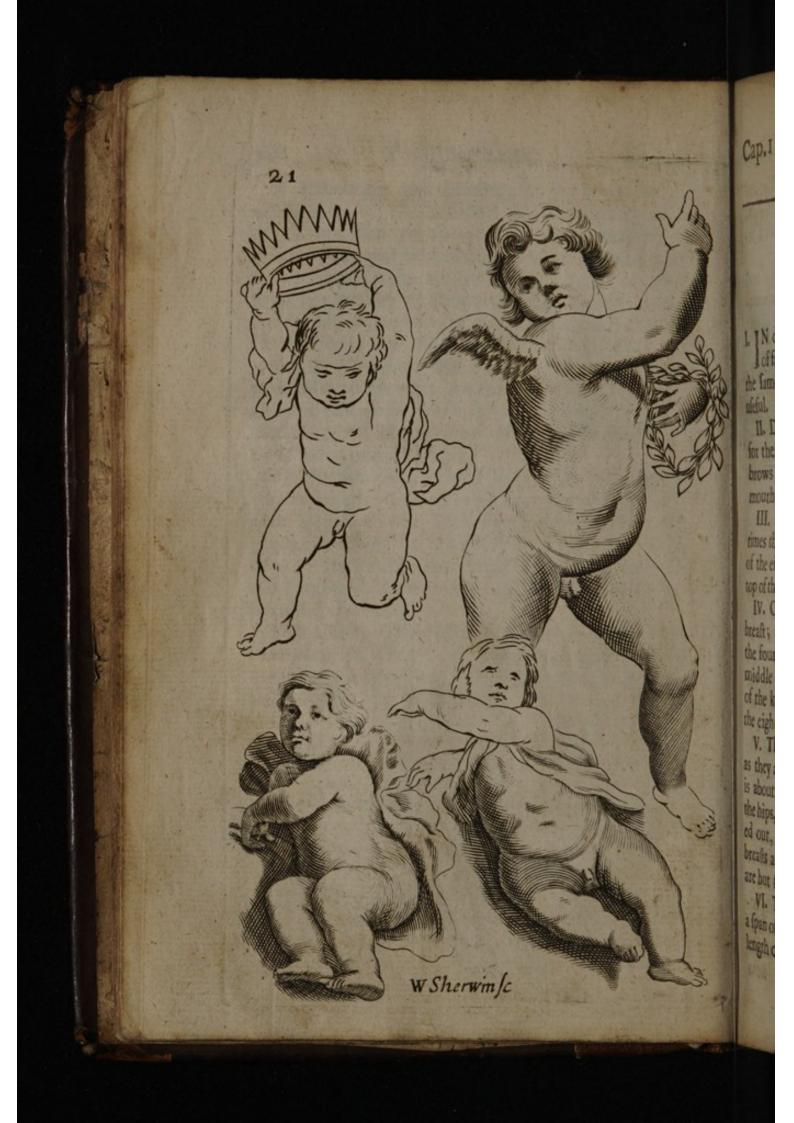
IV. Let all perpendicular joints, and parts allo

ing (it the body be firstent) train in the streat sile

HO that the body may not appear ercoked or

ody turns or bows, thele little univ aufwor





Cap. 10. Of Drawing a naked Body. 21

CHAP. X.

Of Drawing a Naked Body.

I. IN drawing after the life, as there are variety of faces, fo no certain Rules can be delivered for the fame; yet the following precautions may be uleful.

II. Draw out the head in an oval, one fourth part for the hair, one fourth part for the forehead and brows, one fourth for the nose, and the last for the mouth and chin.

III. Having drawn out the head, measure out eight times the length of the head (the head making one of the eight parts) and draw a straight line from the top of the head to the sole of the sole.

IV. One heads length from the chin is for the breaft; the next eighth part reacheth to the navel, the fourth part to the privities, the fifth part to the middle of the thigh, the fixth part to the lower part of the knee, the feventh to the fmall of the leg, and the eighth part to the heel.

V. The mulcles you must observe to draw exactly as they are in the life : the breadth of the shoulders, is about two measures of the head : the breadth of the hips, two measures of the face : the arms firetched out, are just the length of the whole figure, the breasts also accounted; but without the breasts they are but fix.

VI. The arms hanging firaight down reach within a fpan of the knee: the length of the hand is the juft length of the face. See the two figures following. VII. Ob-

Polygraphices. Lib.1.

VII. Observe first to draw the head exactly, and next, the shoulders in their just breadth : then draw the trunk of the Body, and the rest-as at the first Section of the fixth Chapter.

22

VIII. Be fure to place the joints, finews, and muscles in their natural places, and also proportionatly, in respect of Magnitude, Similitude, and Parts: left it feeth crooked and deformed.

IX. See that every parallel joint bend moderately, fo as to answer in nature its opposite.

CHAP. XI. Of an .

inc pair, one fourth pair for the forehead and

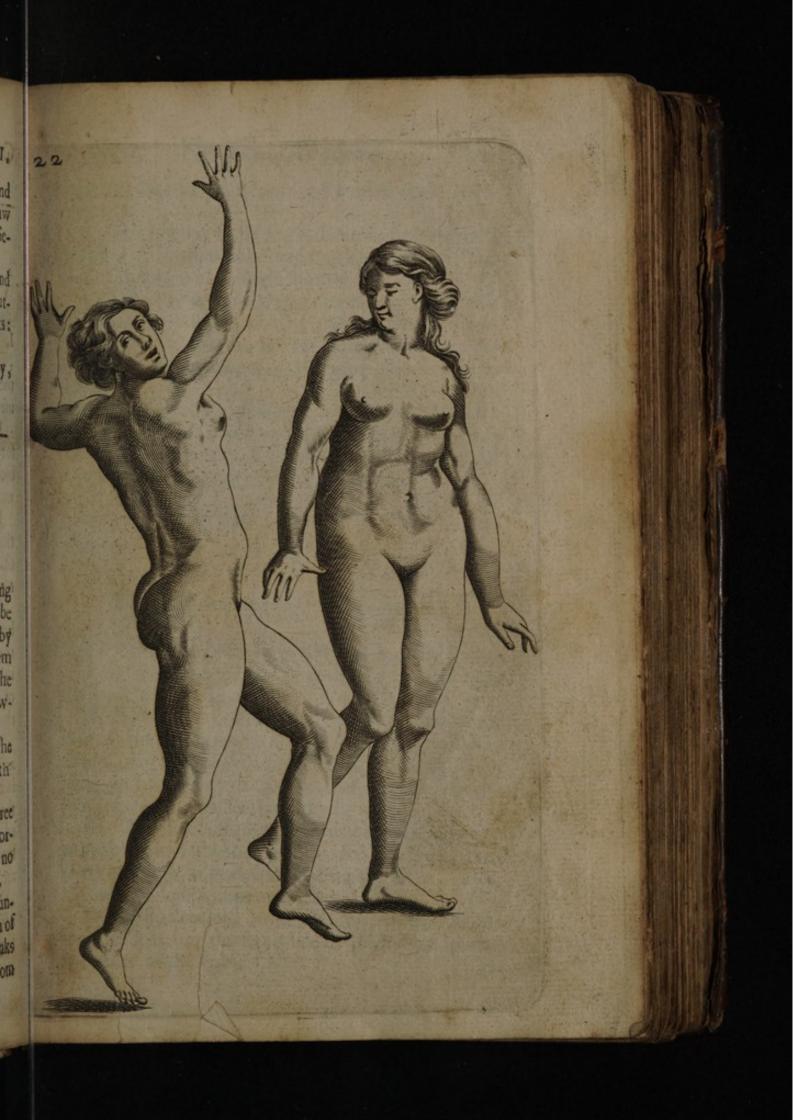
Of shadowing a Naked Body.

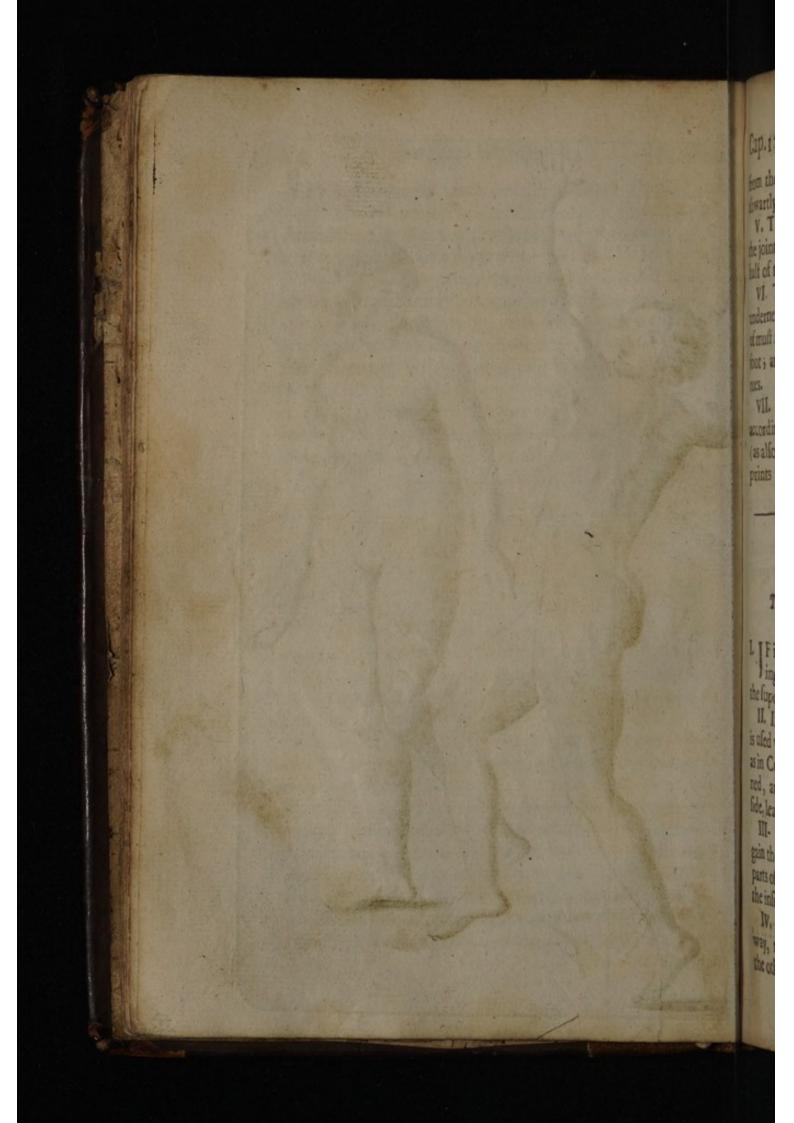
I. T He Shadows of the neck, in a child or young woman, are very fine, rare and hard to be feen: In a man, the finews and veins are expressed by fhadowing of the rest of the neck, and leaving them white: the shoulder is shadowed underneath: the brawn of the arm must appear full and white, shadowed on one fide.

II. The veins of the back of the hand and the knuckles are made with two or three hair stroaks with a fine touch of the pen.

III. The paps of a man are shewed by two or three firoaks given underneath : in a woman with an orbicular shade, somewhat deep; the ribs retain no shadow, except you represent one lean or starved.

IV. The belly is made eminent by fhadowing underneath the breaft bone and the flank: The brawn of the thigh is fhadowed by drawing fmall hair firoaks from





Cap.12. The way of Shadowing.

from the hip to the knee, and croffed again overthwartly.

23

V. The knee is to be finely shadowed underneath the joint; the shin-bone appears by shadowing one half of the leg with a single shadow.

VI. The ankle-bone appears by fhadowing a little underneath (as in the knees) and the finews thereof must feem to take beginning from the midst of the foot; and to wax bigger as they grow nearer to the toes.

VII. Laftly, the fhadows of the foot must take place according as reason and occasion requires, for which (as also in all the former precepts) the having of good prints will be no small advantage unto you.

CHAP. XII.

The way and manner of Shadowing.

I. J F it be a furface only it is beft fhadowed by drawing lines (either ftraight or oblique, according as the fuperficies is) through the better half thereof,

II. If it be in a body, it is a double fhadow, and is ufed when a fuperficies begins to forfake your fight, as in Columns and Pillars, where it is double darkned, and reprefenteth to the eye, as it were the backfide, leaving that unfhadowed to the light.

III- The treble shadow is made by crossing over again the double shadow, and is used for the inward parts of things, as in clefts of the earth, wells, caves, the infides of pots, cups and discuss.

IV. In fhadowing, let the fhadow always fall one way, that is, on the fame fide of the body; leaving the other to the light. So

Polygraphices. Lib. 1.

CI

1.1

WI

alit

DOL

IE OF

100

COL

1

low

EDO!

I

ofth

by g

the

fons

fre

- So in drawing a man, if I begin to shadow his right cheek, I must shadow the right part of his neck, arm, fide, thigh, leg, &c.

V. But if the light fide of the body be darkened by the opposition of fome other body ftanding between the light and it, it must receive a contrary fhadow according as the light is obfuscated.

So if three pillars stand together, that in the midst must receive a shadow on both fides.

VI. All circular bodies mult have a circular fhadow (by the first Section of this Chapter) according to their form or appearance, and the orbicular shadow of the object which casteth it.

VII. Let your shadow grow fainter and fainter, according to the greatness of the distance from the opacous Body shadowing.

And the reason is, because all shadows are pyramidal, in which case, space of place prevails with the light against the shadow.

VIII. Where contrary fhadows concur, let the meaneft and most folid body be first ferved; and in double and treble shadows, let the first lines be very dry for fear of blotting, before you cross them.

IX. All perfect lights receive no fhadow at all; but being manifeft, are only to be made apparent by that body which receives them; whole fhadow muft be according to the efflux of light: but the colour of the light ought to agree with the medium which receives it, whether it be Air, Cryftal, Water, Amber, Glafs, Transparent-wine, or the like.

parts of things, as in clefts of the carth, wells, caves,

AHA Madowing, ist the findow always fall one

. on the tame fide of the body & leaving

24

C.13. Of Passions in the Countenance. 25

ib. 1.

arm,

ned by

ctween ow ac-

ft mat

adow

ng to

OW of

inter ,

im the

midal

againt

10220-

double

dry for

; but

y that

be ac-

of the

ceives

Glafs

HAP

CHAP. XIII.

Of Expressing Passions in the Conntenance.

I. Love is expressed by a clear, fair and pleasant Countenance, without clouds, wrinkles, or unpleasant bendings: giving the forehead an ample height and breadth with majeflick grace; a full eye with a fine shadow at the bottom of the cye-lid, and a little at the corner: a proportionable nose; nostrils not too wide: a clear cheek made by shadowing of it on one side: and a smiling mouth made by a thin upper lip, and shadowing the mouth-line at the corners.

11. Fear is expressed by making the eyes look hollow, heavy and downward, thin faln cheeks, close mouth, and staring careless hair about the ears.

III. Envy is belt decyphered by the only hanging of the cheeks, and a pale countenance; and fometimes by grinning of the teeth.

IV. Let every Passion be represented according to the outward appearance thereof, as it is in those persons in whom it reigns; observing the rules at the fixth Section of the fourth Chapter.

of this ford othing is to cuprefs all

CHAP,

26 Rolygraphices. Lib. 1.

16

CHAP. XIV.

Of Humane Proportion.

I. THE length of an upright body is equal to eight times the length of the face or head: The arm hanging firaight down, reacheth within a fpan of the Knee: The length of the hand mult be the length of the face: The arms extended mult be the just length of the body.

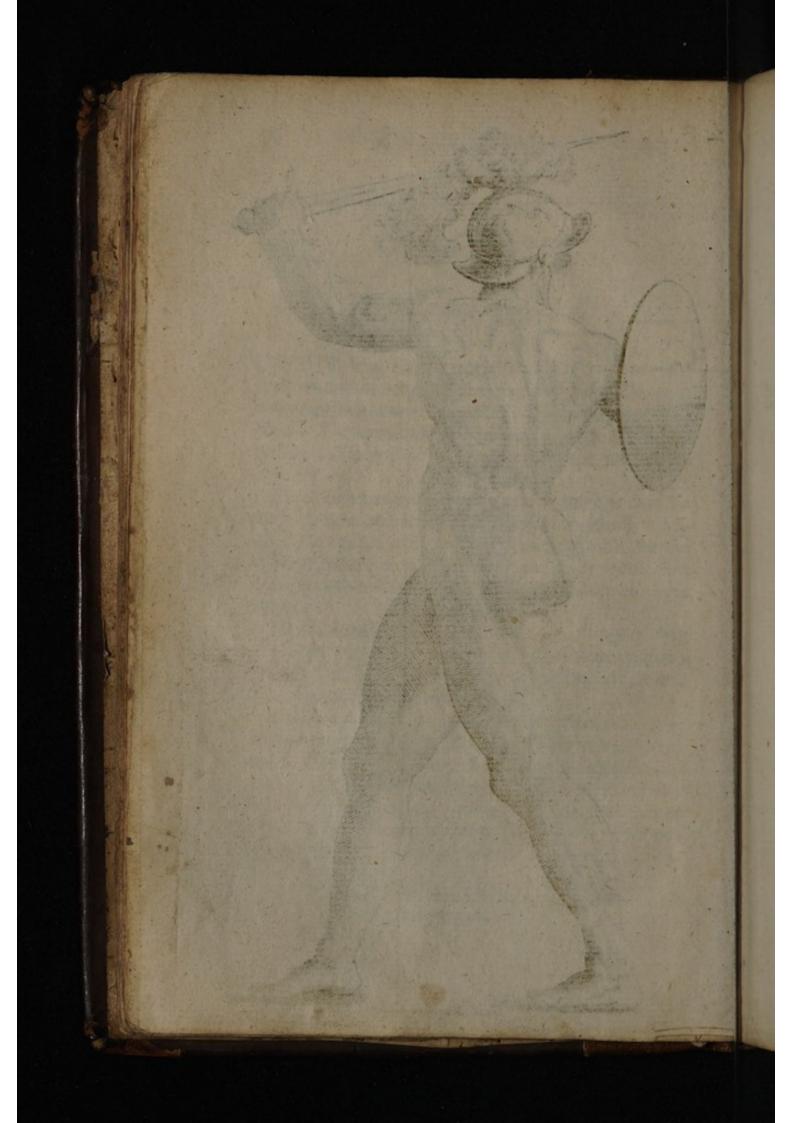
II. Those parts of the body near to the Eye must be made greater and longer than those farther off, (because the eye judgeth so of them) and according to the distance from the eye, so must you wary from that which is otherwise the real true proportion of those parts.

III. In forefhortening you mult take things as they appear to the e, e, and not to draw the full proportion of each part, but to fhorten all, according to the rate or reason which is obfuscated.

So if you would draw a ship foreright, there can appear but only her forepart (for the rest being bid cannot be exprest:) the like of an horse looking full in my face, or a man lying along; Imust here of necessity foreshorten, to exprest the Visual property: And in this case your eye and reason must be your chief guide to give the true reason and measure of these appearances, whether in Drawing, Limning or Painting.

IV. The use of this foreshortning is to express all manner of actions in man or beast; to represent many things









Chap. 15. Of Drapery.

things in a little room; to fhew at one view to the eye and mind, the whole body of a Temple, with all its arches and pillars whether the infide or outfide, as alfo the fundry fides of Cities, Caffles and Forts, and fuch like.

27

Lafily, That in every cafe you make Nature the pattern of all draughts, fo that nothing be express, but what doth agree and accord with nature; and that nothing be either forced beyond nature, nor yet any thing to come short of nature.

As if in drawing the picture of a man, be sure you draw not such a posture as is impossible for him to imitate with his natural body.

CHAP.XV.

fanded, to repretent the pare of the body which bas

Of Drapery.

I. DRaw the out-lines of the Garment lightly, and Dherein be careful, for the whole grace of the picture lies there; then draw the greatest folds first, and stroak those into lesser; and be sure they cross one another.

II. Sute your garments to the body and make them bend with the body, according as it flands in or out, fireight or crooked, or turns one way or another: the clofer the garment fits to the body, the narrower and fmaller muff the folds be.

III. All your folds must confist of two lines and no more, which you may turn with the garment ar pleafure; shadowing the innermost deeper, the outer-

Polygraphices. Lib.r.

28

most more light; and if the folds be never to curioully contrived, spare not to shadow them (if they fall inward from the light) with a double or treble shadow, as the occasion requires.

28

IV. The greater folds must be continued through the whole garment, the leffer you may break off and shorten as you pleafe.

V. The shades of filk and fine linnen are very thick and small, which require little folds and a light and rare shadow, commonly but double at most; and so also fine Drapery requires more and sharper folds than course.

VI. That part of a garment which fits close to the body, must not be folded at all, but only fweetly shaded, to represent the part of the body which lies under it.

VII. Observe the motion of the wind and air, for driving loose apparel all one way, drawing that part of the garment first which lies highest and closest upon the body, before you draw the looser part that flies off from the body, lest by drawing the loose part of the garment first you should be out, and so place the body crooked or awry.

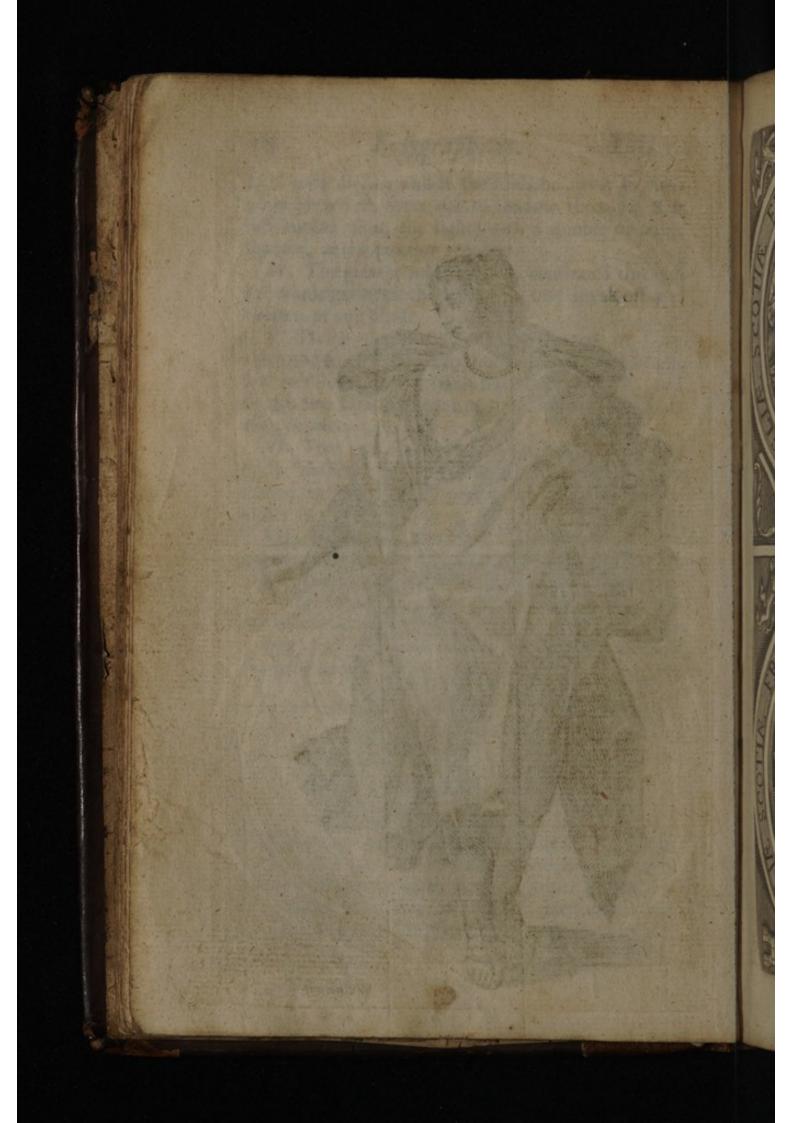
CHAP. XVI.

II. Sute four earnings

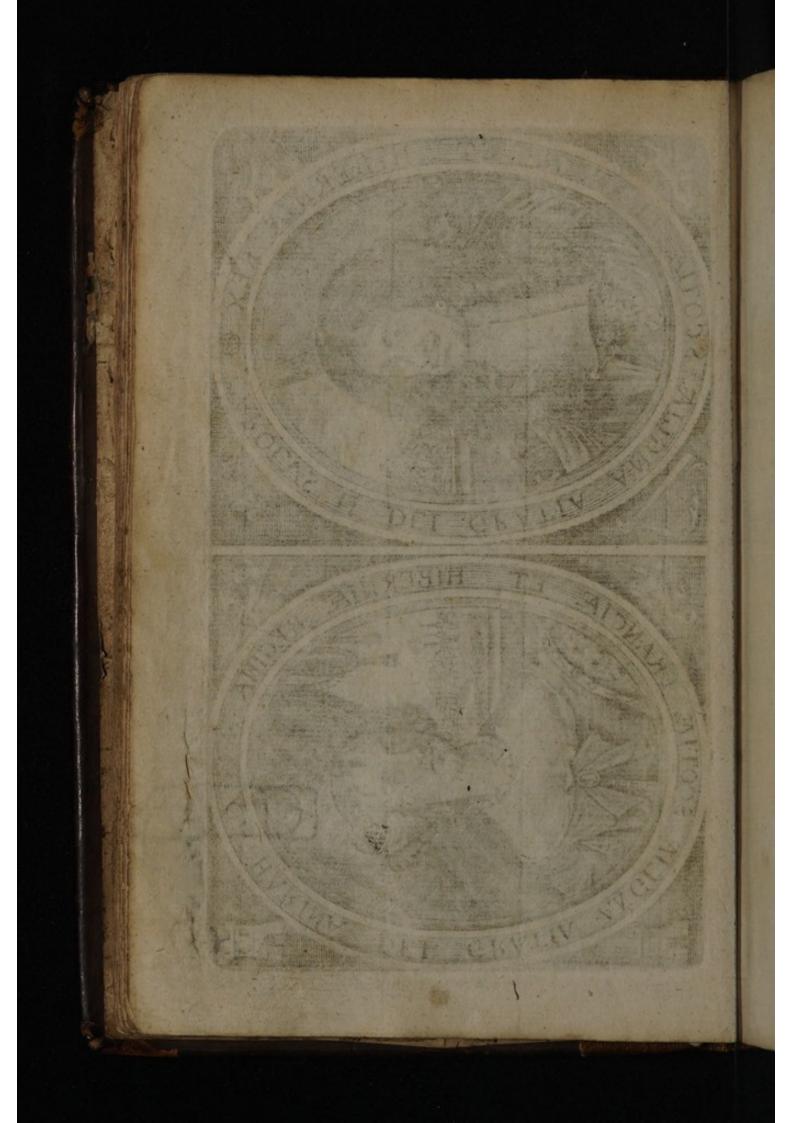
Of mixed and uncertain Forms.

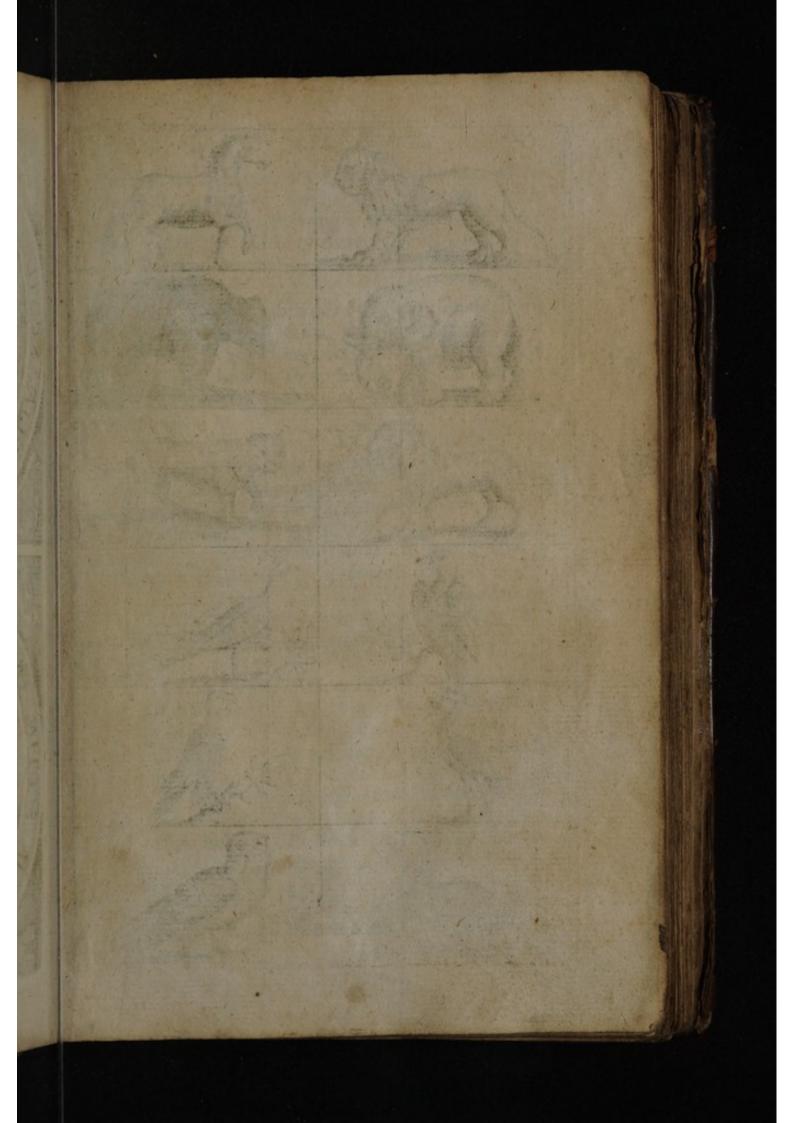
I. F Or the drawing the form of any beaft, begin with your lead or coal at the forehead, drawing downward the nofe, mouth, upper and nether chop, ending your line at the throat; then viewing it again where you begun, from the forehead, over the head,













Chap. 16. Of mixed Forms.

head, cars and neck, continuing till you have given the full compais of the buttock, then mark out the legs and feet: Viewing it again touch out the breaft with the eminency thereot; Laftly, finish the tail, paws, tongue, teeth, beard, and feveral fhadows.

29

II. In drawing beafts you must be well acquainted with their shape and action, without which you shall never perform any thing excellent in that kind : and here if you draw it in an Emblem or the like, you ought to shew the Landskip of the Country natural to that beaft.

III. In birds begin alfo the draught at the head, (and beware of making it too big) then bring from under the throat the breaft line down to the legs, there ftay, and begin at the pinion to make the wing, which being joined to the back line will be prefently finished : the eye, legs and train must be at last, letting always (in birds as in beafts) the fartheft leg be shorteft; their feathers (as the hair in beafts) must take their beginning at the head very small, and fall in one way backwards in five ranks, greater and greater to the conclution.

IV. Infects, as flies, bees, wasps, grashoppers, worms, and fuch like, are easie to be drawn and not hard to be laid in Colours; in doing thefe, it will at first be absolutely necessary to have the living pattern before . your cyes.

V. To draw a flower, begin from the bols, tufft or wart in the middle; as in a Rofe or Marigold, with the yellow tufft, which being made, draw lines equally divided, from thence to the greatest compais or extent of your flower : you may draw them either fully open or in the bud, and laden with dew, wet and worms, and then you may draw rudely with the

Polygraphices. Lib. I.

the coal or lead the leaves afterwards, giving them their veins or jaggedness.

VI. To take the natural and lively shape of the leaf of any herb or tree.

First, the the leaf that you would have, and gently bruise the ribs and veins on the back-fide of it: afterwards wet the fide with linseed oyl, and then press it bard upon a piece of clean white paper, and so you shall have the perfect figure of the said leaf, with every vein thereaf so exactly exprest, as being lively coloured it will seem to be truly natural.

CHAP. XVII.

Of Landskip.

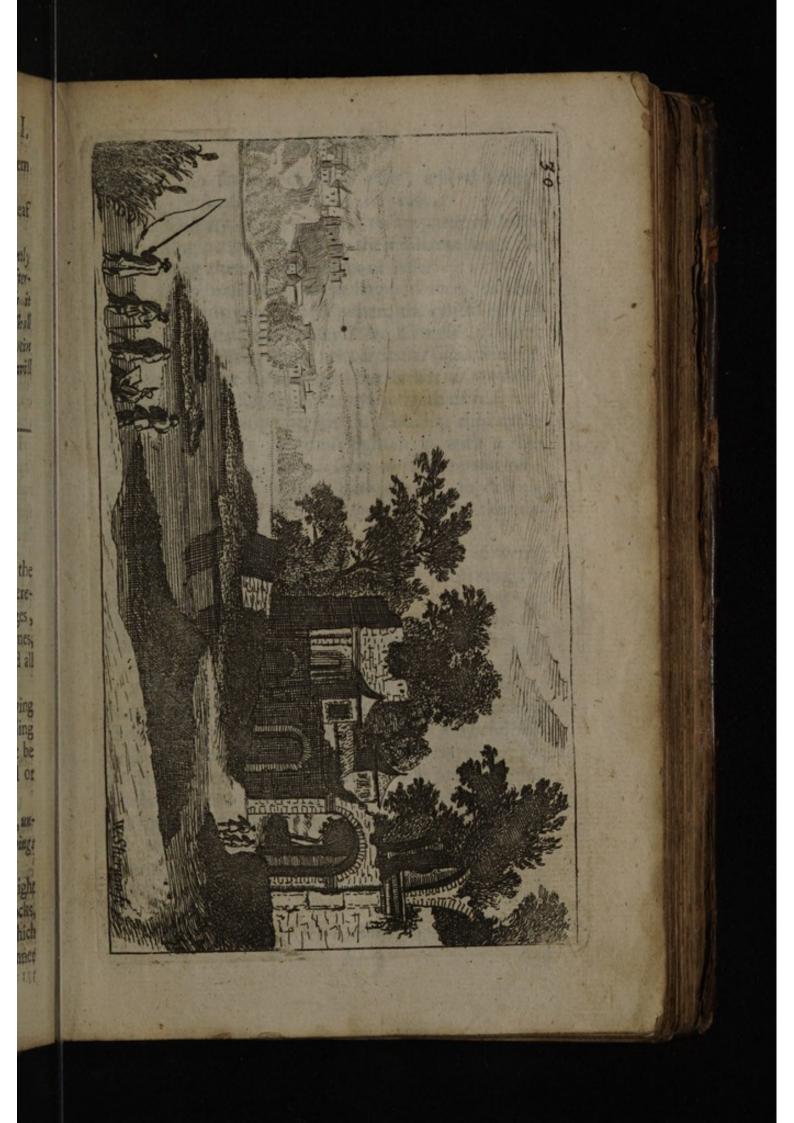
I. Andskip is that which expresses in lines the perfect vision of the earth, and all things thereupon, placed above the horizon, as towns, villages, castles, promontaries, mountains, rocks, valleys, ruines, rivers, woods, forrests, chases, trees, houses and all other buildings, both beautiful and ruinous.

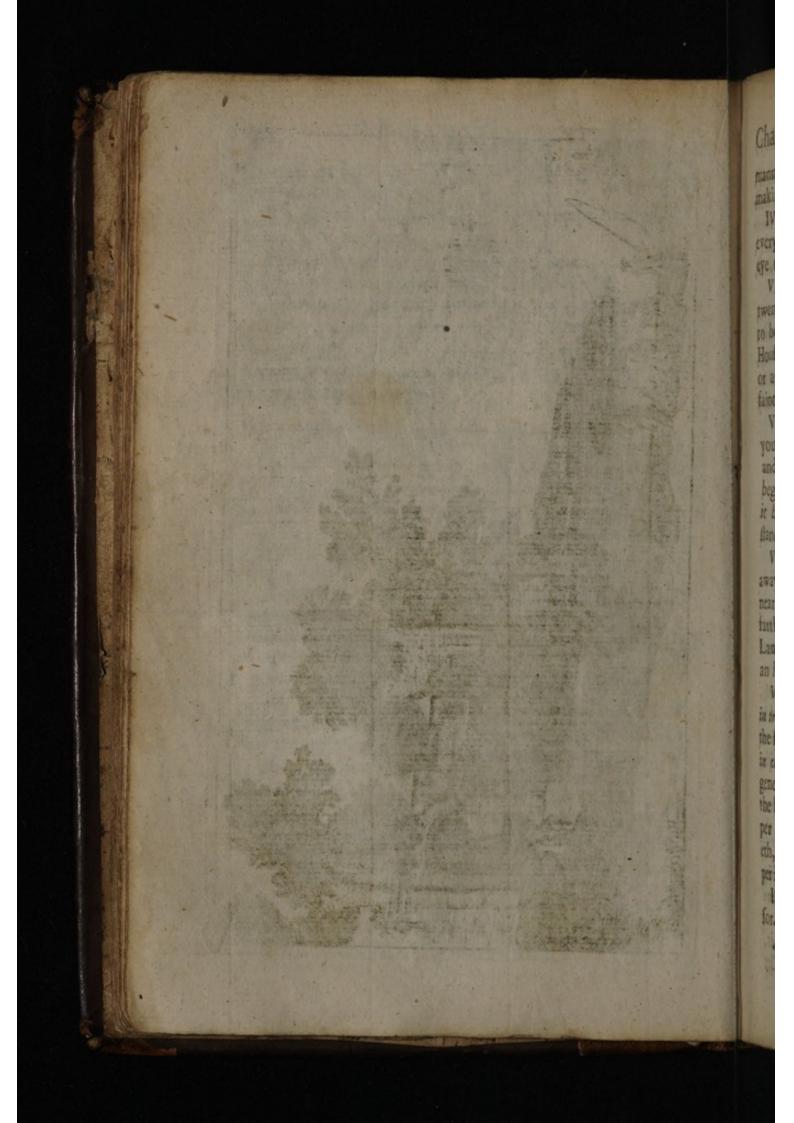
II. First, Always express a fair horizon, shewing the heavens cloudy or clear, more or less according to the occasion; and if you express the Sun, let it be either as rising or setting, and as it were behind or over some hill or mountain.

The Moon and Stars are seldom or never depicted, unless it be in representation of twilight; because all things are supposed to be seen by day.

III. Secondly If you express the Sun, make his light to reflect upon all the trees, hills, mountains, rocks, or buildings; shading the contrary fide; after which manner

1.11: 1.57





Chap.17 Of Landskip.

manner also shadow clouds, mists, and the like: making the shadows to fall all one way.

IV. Thirdly, be very careful to augment or leffen every thing proportionably to their diffance from the eye, making them either bigger or leffer.

V. In expressing things at large distances, as ten, twenty or thirty miles off; where the object is hard to be different, as whether it be Temple, Castle, House or the like; shew no particular figns thereof, or any eminent distinction; but rather as weakly, faintly, and confusedly as the eye judgeth of it.

VI. If Landskips be laid in Colours, the farther you go, the more you must lighten it with a thin and airy blew, to make it seem as it were afar off, beginning at first with a dark green, so driving it by degrees into a blew, according to the distance.

VII. Make your Landskip to fhoot (as it were) away, one part lower than another, making the neareft hill or place higheft, and those that are farther off, to fhoot away under that, that the Landskip may appear to be taken from the top of an hill.

VIII. Let every thing have its proper motion, as in trees when they are fhaken with the wind, making the fmaller boughs yielding; the fliffer lefs bending; in clouds that they follow the winds: in rivers, the general current, and flafhing of the water againft the boat fides: in the Sea, the waves and other proper agitations; and laftly, let every thing which moveth, whether effentially or accidentally, have its proper reprefentation.

IX. Let your work imitate the feason you intend it for.

As if you intend it for a winter piece, represent fel-C 4 ling

Polygraphices. Lib.1.

YOU RO. BECHOME YOU MANT PARTS

Ch

ett

ğarı Deni

War

you

the

kin wi

the ule par an

I.L

時間

(%

ling of wood; sliding upon the Ice; fowling by night; bunting of Bears or Foxes in the snow; making the trees every where naked or laden with the hoar frost; the earth bare without greenness, flowers or cattel; the air thick; water frozen, with Carrs passing over it and boys npon it, &c.

X. Laftly, let every fite have its proper parergra, adjuncts, or additional graces, as the Farm-houfe, Wind-mill, Water-mill, Woods; Flocks of fheep, Herds of cattel, Pilgrims, ruines of Temples, Caffles and Monuments; with a thousand such other only proper to particular subjects.

CHAP. XVIII.

Of Diapering and Antique.

I. Dapering, is a tracing or running over your work again when you have, as it were, quite done, with damask branches, and fuch like.

It is used to counterfeit cloth of gold, filver, damask, velvet, chamlet and the like, with what branch and in what fashion you please : it is derived from the Greek word diaweed, transco, to pass over, and only signifies a light passing over the same again.

II. If you Diaper upon folds, let your work be broken off accordingly, and taken as it were by the half.

For reason sheweth that the fold covereth something which cannot be seen by reason of it, which if it was drawn out at length would appear plain.

. III. Let the whole work be komogene; that is,

Chap.18. Of Diapering and Antique. 33

1.

bt;

tes

町物

缺;

明武

CT1,

fe ;

ep,

tles

nly

ur

itt

sk,

IN

reck

fies

to.

ang

1815

1.1

is,

let the fame work be continued throughout the whole garment, fetting the fairest branch in the most eminent and perspicuous place, causing it to run upwards, for elfe your work would be ridiculous.

IV. You may either shadow the ground and leave your work white; or shadow your work and leave the ground white; and as you shall please in this kind, your filling may be with small pricks, which will shew very tair.

Y. Antique (ab antes) are buttereffes whereon the building is ftayed, as also the outwardmost ranges, used in fore-fronts of houses, in all manner of Compartments, curious Architecture, Armours Jewels, and Columns.

VI. The form of it is (only for delights fake) a general or irregular composition of men, beasts birds, thes and flowers and fuch like, without either rule or reason.

VII. Laftly, observe the continuation of one and the same work, through the whole piece, without the least change or alteration.

As if it be naked boys, playing, lying, sitting, or riding upon Goats, Eagles, Dolphins and the like; strings of pearl, Satyrs, Tritons, Apes, Dogs, Oxen, bearing or drawing Fruits, Branches, or any wild fansie after your own invention, with a thousand such other idle toys; be sure you observe the continuation.

one fide with black laid, of elfe-with vermilion

coppy out upon the other fide of the coloured papers and with a fmall poidted fick or (wallows quill, por-

V. Or man, hay a pices of Landrate horn upon that

PARS of Bruner, britane, and it will be cauce

34 Polygraphices. Lib. 1.

les the faras work be continued throughout the whole

Char

bidu

hard i breath

upon V.

black the cr

Aure

172

11

CY .

Wet

upo tha

per the whi

hard

dre

写るの

CHAP, XIX,

To take the perfect draught of any Picture.

I. T Ake a fheet of fine Venice Paper, wet it all over with linfeed oyl on one fide thereof, which then wipe off as clean as you can; let the Paper dry, and lay it on any painted or printed Picture, then with a black-lead pen you may draw it over with eafe: put this oyled paper upon a fheet of clean white paper, and with a little pointed flick or feather out of a fwallow's wing, draw over the firoaks which you drew upon the oyled paper; to fhall you have the exact form upon the white paper, which may be fet out with colours at pleafure.

II. Or thus, The picture being drawn as before in the oyled paper, put it upon a fheet of white paper, and prick over the drawing with a pen: then take fome finall coal, powder it fine, and wrap it in a piece of fome fine linnen, and bind it up therein loofely, and clap it lightly, all over the pricked line by little and little, and afterwards draw it over again once or twice, with pen or pencil.

III. Or thus, Rub a fheet of white paper all over on one fide with black-lead, or elfe with vermilion mixed with fresh butter; lay the coloured fide upon a fheet of white paper, then lay the picture you would coppy out upon the other fide of the coloured paper, and with a small pointed stick or swallows quill, go over all the stroaks of your picture, and it will be exact on the white paper.

IV. Or thus, Lay a piece of Lanthorn horn upon the picture,

Chap. 19. To take a perfect draught. 35

I.

101

ry,

lên

ith

ite

tof

101

the

fet

iŋ

¢Τ,

ly,

22

n

Ĩ,

SHARO.

picture, then draw the stroaks of your picture with a hard nibbed pen upon the horn; and when it is dry, breath upon the horn twice or thrice, and press it hard upon white paper a little moistned.

V. Or thus, Take an oyled fheet (as at the first Section of this Chapter) rub one fide of it with lambblack or lake; lay it upon a fheet of fair paper with the coloured fide downwards, and upon it lay the picture you would coppy out, and trace it over with a fwallows feather.

VI. Or thus, Take fine lake mixed with linfeed oyl, and draw with it, inflead of Ink, all the outftroaks of any picture, and other material parts; then wet the contrary fide of the picture and prefs it hard upon a fheet of paper, and it will leave behind it all that which you drew over.

VII. Or thus, Grind Printers black fine, and temper it with water, and with a pen dipt in it, draw over the out-lines and mafter firoaks: wet then fome white paper with a fpunge or the like, and prefs it hard thereupon; and you fhall have the firoaks you drew upon the white paper.

VIII. Or thus Lay the print (the back-fide of it) upon a clear glass, or oyled paper, then lay a clean paper upon the print; hold it up against the light, so will you fee all the stroaks which you may draw out, and shadow also if you please.

CHAP.

LICOLD THEY

CHAP. XX.

36 Palygraphices.

To extend or contract a Picture keeping the proportion.

Fake BD OFICA INCERT as at the fit

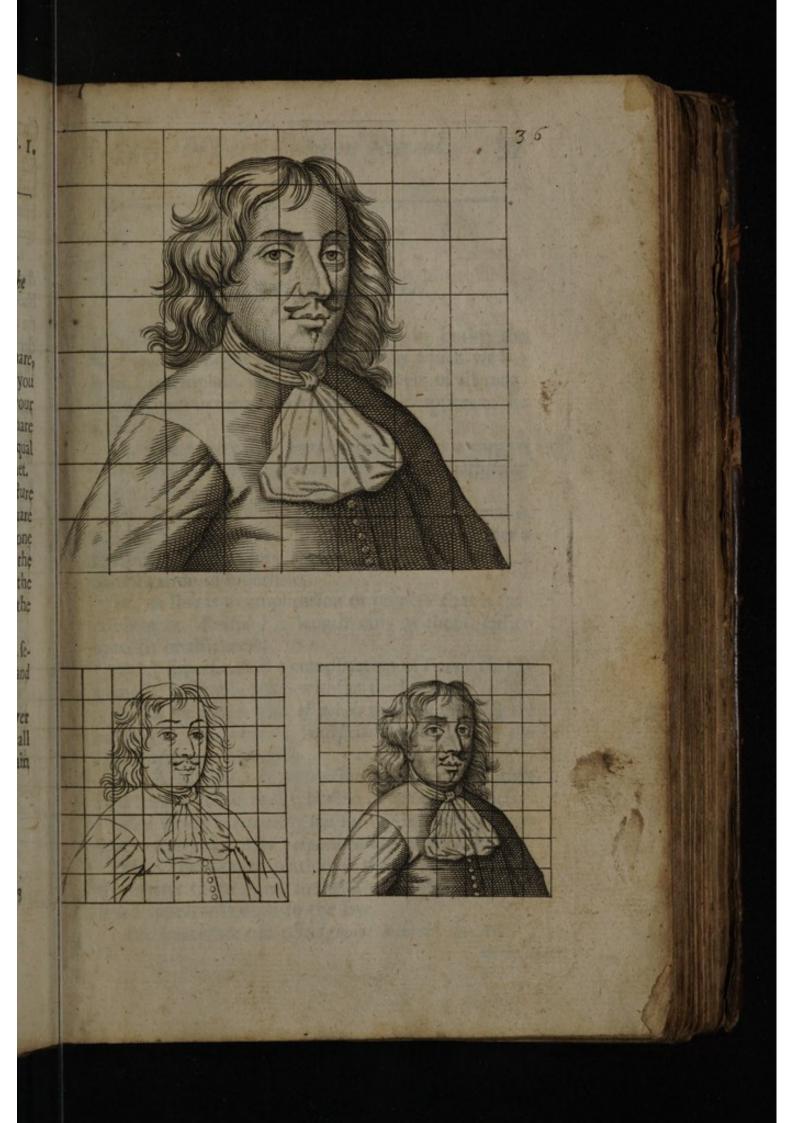
^L E Ncompaſs your picture with one great ſquare, which divide into as many little ones as you pleaſe: this done, according as you would have your picture either greater or leſs, make another ſquare greater or leſs, which divide into as many equal ſquares, which be drawn with a black-lead plummet.

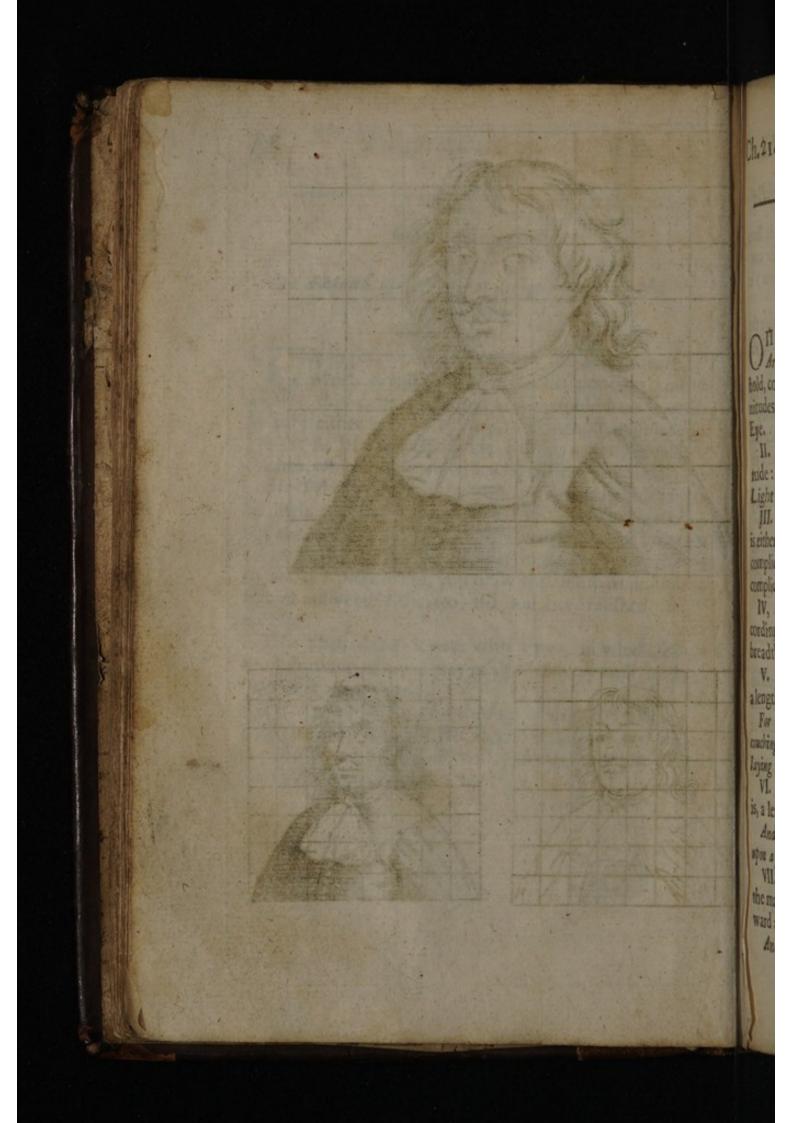
II. Take your black lead pen, and draw the picture by little and little, paffing from fquare unto fquare (by the example of the pattern) until you have gone all over with it: observing that in what part of the fquare the picture lies, you draw the like part in the fquare answerable thereto, till you have finished the whole.

III. Then draw it over with a pen, in which fecond drawing of it you may eafily mend any fault, and fhadow it at pleafure.

IV. Lastly, When it is throughly dry, rub it over with the crum of white-bread, and it will take off all the black lead ftroaks, fo will your draught remain fair upon the paper.

CHAP.





Ch.21. Of Perspective in general. . 37

a ship of the list first of the ship

CHAP. XXI.

Of Perspective in general.

OfITIKH' in Greek, Perspectiva in Latin, the Art of feeing in English; is that by which we behold, contemplate, and draw the likeness of all magnitudes, just in form and manner as they appear to the Eye.

II. The matter to be feen or fpeculated is a magnitude: the manner of fpeculation is by radiations of Light, either direct, reflected or broken.

III. A magnitude is that which hath form; and it is either lineal, superficial, or folid; that is, either a complication of points, a complication of lines, or a complication of superficies.

IV, A line is a complication of points; that is (according to Enclid) a length only without either breadth or thicknefs.

v. A fuperficies is a complication of lines; that is a length having breadth without thickness.

For as the continuation of points makes a line: so the couching of lines makes a superficies: which is only the laying of points cross-wife.

VI. A folid is a complication of superficies; that is, a length and breadth, having depth or thickness.

And indeed it is nothing but the continuation of points upon a superficies either perpendicularly or bending.

VII. The Contemplation of the Object reprefents the matter to the mind, in the fame manner as its outward appearance doth to the Eye.

And from hence comes Judgment whereby the Artift is enabled

38 Polygraphices. Lib.t.

Ch 22

T

1.1

tr botto

11

OT SCEN

IV.

the fiz

ing.

the bale

al Ichn

mekfsit

I ARIO

V. J

the fan

Gted up

flands.

And

trained ;

VI. (

of any p

lies equi

to a day

had

Restine Seen

Sia

enabled to describe the same in lines; and delineate it, according to its apparent or visual proportions.

VIII, To draw or defcribe the Appearance in lines is the active part of this Art, whereby the Idea conceived in the mind (by fight and contemplation) is brought to light.

IX. A radiation is a beam of light, conveighing the likenels of the thing, to the Eyes, or fight; and the Knowledg thereof to the mind or understanding.

And this radiation is twofold, either external from the external light; or intellectual from its being and power.

X. Direct radiations, are those which confider the direct or streight beams, which pass between the eye and the object.

And this is the first kind of perspective; and is many times (alone) called the Opticks.

XI. Reflected radiations, are those which confider the reflection of beams, and their shape upon any polish'd body, as on a Globe, Cone, Cylinder, Pyramid, or any regular folid.

And this is the second kind of Perspective; which is called the Art Catoptrica.

XII. Broken radiations are those which confider the breaking of beams, as they are to be feen through a glass or a Crystal cut into feveral plains or fuperficies.

And this is the third and last kind of Perspective which is called the Art Dioptrica.

VII. The Conterrelation of the Object represents

13. 2. 13

. AHOT to the mind, in the fame manner as its out-

Ch. 22. The active part of Perspective. 39

1.01

wit,

n lines 4 con-0n) is

ingthe

nd the

rom the

Wer:

er the

he eye

many

nlider

ny poramid,

is called

afider

feen

IDS OF

white

HAP.

CHAP. XXII.

Of the Active part of Perspective.

 T He active part of perspective is either Ichnographical, Orthographical, or Scenographical.
 I. Ichnographia, is the defeription of the plain base or bottom of any body or building.

III. And it is twofold, to wit, either Geometrical or Scenographical.

IV. Ichnographia Geometrical, is that which gives the fight of the bottom or bale of any body or building.

So a Circle is the base of a Column; and a square is the base of a Pedestal, and the like; but this Geometrical Ichnography is not seen in Section, or through a Glass, unless it lies parallel to the base; and so it makes no Section with it.

V. Ichnographia Scenographical is the Appearance of the fame base in Section, or through a Glass, erected upright on the same plain, on which the base stands.

And by this the faid base is extended in length but contracted in breadth, for so it appeareth to the eye.

VI. Orthographia, is the vision of the foreright fide of any plain; to wit, of that plain or superficies which lies equidistant to a right line, passing through the outward or convex centers of both eyes, continued to a due length.

And therefore Perspective Orthographia, is the delineation of the apparent right plain.

Scenographia is the description of a plain or other figure,

40 Polygraphices. Lib. 1.

Ch. 2

fraight

of mark

patter

1668

part.

IV.

the cer

the Bo

655

四月 1

١.

the G

1

plain ftraight both I

Wa

il meat infection

VI

far fro

Tery L

guics

the vit

VIII

at the

torm v

the v

pendi

ID W

figure, that declines from the apparent or foreright plain's that is of that plain which makes Angles with the faid foreright plain.

The Scenographick vision of any form, body, or building is, of that fide which declines from, or constitutes an Angle, with the right line, passing from the convex centers of both Eyes aforefaid: this Artists call the return of the foreright fide. Now the difference between the Orthographick and Scenographick vision is this; the Orthographick shews the fide of a body or building as it is bebeld when the plain of the Glass is placed equidistant to that fide: but the Scenographick shews the fide of a body or edifice as it appears through a glass raifed obliquely to the faid fide, or making an angle therewith.

C H A P. XXIII.

Of the Subject to be seen.

I. THE Bafe of any thing is the plain, flat, or floor upon which any folid body, or object is placed, or raifed.

II. The Altitude or beight is the perpendicular space of place, between the base and eye, or height of the visual point above the base.

III. The Visual point, is a point in the Horizontal line, wherein all the beams of the eyes unite.

Exempli gratiâ. If you look on a long straight river, the sides of which run parallel, yet by reason of the distance both sides of the river (although it be very broad) will seem to incline, touch, and unite with each other in one common point or center: and so if you look on a long, straight

Ch. 23. Of the Subjects to be seen. 41

b. 1.

eright with

build-

tits an

CENTERS.

In of

Intho

ortho.

is be-

ant to

a bidy

rely tr

r floor

is pla-

fipace :

of the

zontal

mit,

it suit

) #1

12 022

1382,

inagat

straight brick-wall, the several lays of brick, and courses of mortar, will (at a great distance) seem to incline each to other in one common point or center, this point reflected on a glass, raised upright on the base, is called the visual point.

IV. The Horizontal line is a line proceeding from the center of the eye to the vilual point, parallel to the Horizon of the Earth.

And this is, in men of ordinary height or stature, commonly about five foot from the ground or base.

V. The Distance is the space on the base. between the Glass and point in the base which lies directly under the eyes.

VI. The Section is a plain of transparent or perlucid matter (as of Glass) raifed upright upon the plain of the base standing before you, parallel to a straight line, passing through the convex centers of both Eyes.

Without the knowledg of this Section or Glass it is ntterly impossible to understand perspective, or know what it means : Or be able to give a reason for the difference between the Orthographick and Scenographick figure.

VII. If the Glass is placed near the visual point, and far from the object, the figure which is seen will be very small: and the reason is, because all says comprehending the Orthographical and Scenographical figures (though more remote from the object) fall into the visual point, as their common center.

VIII. If the vifual point be more elevated (though at the fame diftance) the Scenographick figure or form will appear of a much larger magnitude: becaufe the vifual radiations being higher, the various perpendiculars raifed on the Section or Glass, cut them in wider diftances, becaufe more remote from the Glafs.

IX.

Polygraphices. Lib. 1.

LT

to

I

ight

DOS

17

fulri

旗

I

on y

lett

lone

quid

Scen Hor V deft

inc fal

き

17:

IX. If the Glafs incline to the vifual point, the Scenographick vifion will be long-wife between the yifual point and the object.

And the reason is, because the plain of the Glass heaps in more of the visual Radiations.

X. If the Glafs recline from the vifual point, the Scenographick figure will appear rounder, and begin to refemble the Orthographick.

XI. But if the Glass is fixed equidistant to the base, or plain the object stands upon; the Scenographick and Orthographick refemblance will be one and the fame.

And the reason is, because the form of the figure is lost, or not visible in the Section.

XII. The Vifual Raies, are those lines which proceed from the vifual point, through the Glass, to any point higher or lower than the plain of the Horizon.

XIII. Diagonals, or lines of distance, are such as are drawn from the point of distance to any other point, higher or lower than the Horizon.

XIV. The Object is that form, figure, body or edifice intended to be expressed in Perspective proportions.

Lar and the source states the back the

ming hunry out i aller

CHAP.

Chap. 24 The Practice of Perspective. 43

0.1.

n the

iceasts

; the begin

bale.

phick

d the

is lot

h pro-

101-

Hon-

asare

point,

r edi-

ropor.

1

HAP.

CHAP. XXIV.

The General Practice of Perspective.

I. L Et every line which in the Object or Geometrical figure is ftraight, perpendicular, or parallel to its bafe, be fo alfo in its Scenographick declination.

II. Let the lines which in the object return at right Angles from the fore-right fide, be drawn Scenographically from the Vifual point.

III Let all straight lines, which in the object return from the fore-right-fide, run in a Scenographick figure into the Horizontal line.

IV. Let the object you intend to delineate ftanding on your right hand, be placed also on the right hand of the vifual point : and that on the left hand, on the left hand of the fame point : and that which is just before, in the middle of it.

V. Let those lines which are (in the object) Equidistant to the returning line, be drawn in the Scenographick figure, from that point found in the Horizon.

VI. In fetting off the altitude of Columns, Pedeftals and the like, measure the heighth from the bafeline upward in the front or fore-right-fide; and a vifual ray drawn, that point in the front (hall limit the altitude of the Column or piller, all the way behind the fore-right-fide or Orthographick appearance, even to the vifual point.

This rule you must observe in all figures, as well where shere is a front or fore-right fide, as where there is none. D 2 VII. In

Polygraphices. Lib.r.

Cha

of it.

XII

dure

what

and I

XI

(are

in dr.

eye.

XV

WELL I

but

ter.

Xi

guis

SIDA

ding

XV

tergl

福電 [

on the

(18)

aplain

Will!

協

VETY

XI

10 30

VII. In delineating Ovals, Circles, Arches, Croffes, Spirals and Crofs-arches, or any other figure, in the roof of any room; first draw Ichnographically, and fo with perpendiculars, from the most Eminent points thereof, carry it up unto the Ceiling, from which feveral points carry on the figure.

VIII. The center in any Scenographick regular figure is found by drawing crofs-lines from opposite angles: for the point where the Diagonals crofs is the Center.

IX. A ground plain of fquares is alike, both above and below the Herizontal line; only the more it is diftant above or beneath the Horizon, the fquares will be fo much the larger or wider.

X. In drawing a perspective figure, where many lines come together, you may for the directing of your eye, draw the Diagonals in red; the visual lines in black; the Perpendiculars in green, or other different colour from that which you intend the figure shall be of.

XI Having confidered the height, diftance and polition of the figure, and drawn it accordingly, with fide or angle against the bale; raise perpendiculars from the several angles or defigned points in the figure, to the base, and transfer the length of each perpendicular, from the place where it touches the base, to the base on the fide opposite to the point of distance; so will the Diametrals drawn to the perpendiculars in the base, by interfection with the Diagonals drawn to the several transferred distances, give the angles of the figure : and so lines drawn from point to point will circumscribe the Scenographick figure.

XII. If in Landskip there be any flanding waters, as Rivers, I onds, and the like; place the Horizontal

Chap. 24. The practice of Perspective. 45

.1

fes,

the

dío

ints

itre.

gular

ofite

sthe

DOVC

Itis

ares

hany

Your

s in

rent

thall

and

igly,

n the

cach

the

it of

per-Dia-

givê.

from

Wa-

Ho-

rizontal line level with the fartheft fight or appearance of it

XIII. If there be any houses or the like in the picture, confider their polition, that you may find from what point in the Horizontal line to draw the fronts and fides thereof.

XIV. In defcribing things at a great diffance, obferve the proportion (both in magnitude and diffance) in draught, which appears from the object to the eye.

XV In colouring and fhadowing of every thing, you must do the fame in your picture which you obferve with your eye, especially in objects lying near; but according as the distance grows greater and greater, fo the colours must be fainter and fainter, till at last they lose themselves in a darkish sky colour.

XVI. The *Catoptricks* are beft feen in a common looking-glafs or other polifh'd matter, where if the glafs be exactly flat, the object is exactly like its original : but if the glafs be not flat, the refemblance alters from the original, and that more or lefs, according as the glafs differs from an exact plain.

XVII. In drawing *Catoptrick* figures, the furface of the glafs is to be confidered, upon which you mean to have the reflection; for which you muft make a particular *Ichnographical* draught or projection; which on the glafs muft appear to be a plain full of fquares, on which projection transfer what fhall be drawn, on a plain divided into the fame number of like fquares : where though the draught may appear very confufed, yet the reflection thereof on the glafs, will be very regular, proportional and really compofed.

XVIII. The Dioptrick or broken beam may be feen in a tub, through a Crystal, or Glats, which hath its D 3 furface

Polygraphices.

Lib. T.

furface out into many others, whereby the raies of the object are broken.

46

For, to the flat of the Crystal or water, the raies run streight; but then they break and make an Angle; the which also by the refracted beams is made and continued on the other side of the same flat.

XIX. When these faces on a Crystal are turned towards a plain, placed directly before it, they separate themselves at a good distance on the plain; because they are all directed to various far distant places of the same.

XX. But for the affigning to each of them a place on the same plain, no Geometrick rule is yet invented.

CHAP. XXV.

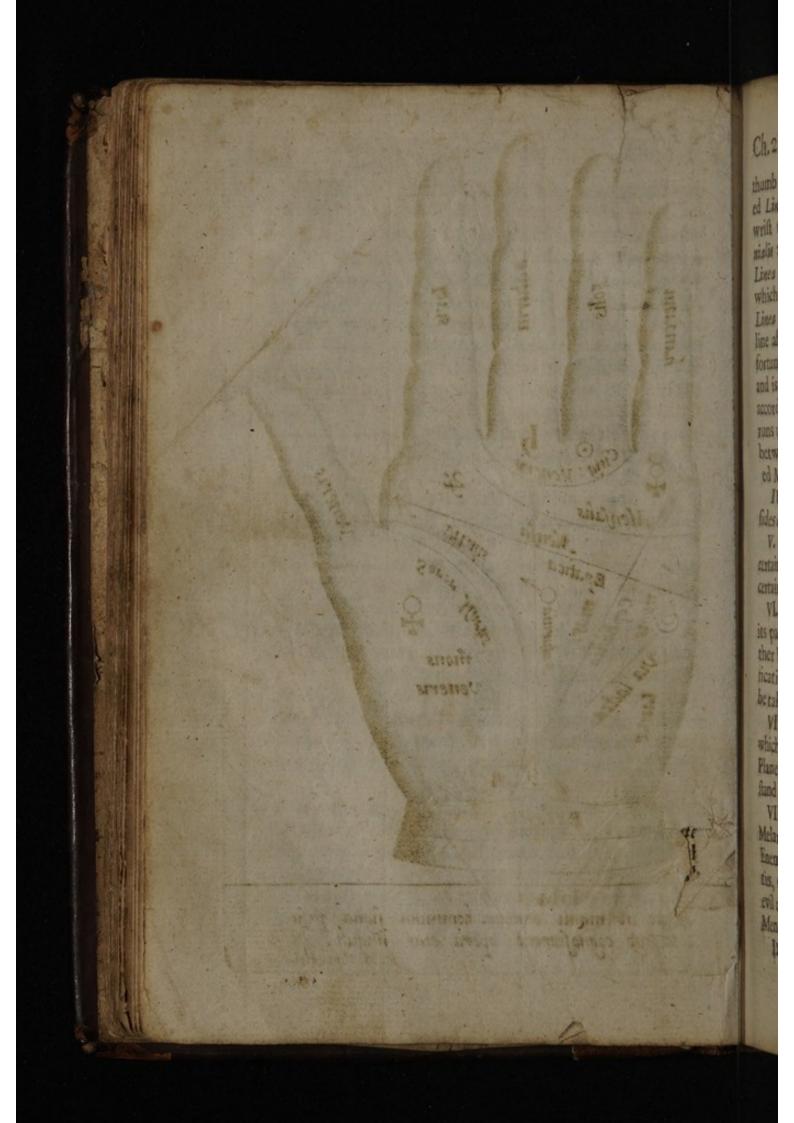
A Rational Demonstration of Chiromantical Signatures; Added by way of Appendix to Chap. V. of this Book.

I T He foundation of Chiromancy depends upon the true appropriation of the feveral mounts, fingers, or places in the hand, to their proper Stars or Planets.

II. The Ancients have affigned the root of the middle finger to Saturn; of the fore-finger to Jupiter: the hollow of the hand to Mars: the root of the ring-finger to Sol: of the thumb to Venus: of the little finger to Mercury: and laftly, the brawn of the hand near the wrift to Luna.

III. That line which comes round the ball of the





Ch. 25. Of Chiromantical Signatures. 47

thumb towards the root or mount of *Jupiter* is called Linea Jovialia or the life-line: that from the wrift to the root or mount of Saturn, Linea Saturnialia: but if it points to the root or mount of Sol, Linea Solaris, if to Mercury, Linea Mercurialis: that which goes from Linea Jovialis to the mount of Luna, Linea Lunaris, or the natural line: the other great line above it is called Linea Stellata, or the line of fortune, becaufe it limits the mounts of the Planets, and is imprefied with various vertues in those places according to the nature of the Planet whose mount it runs under or fets a boundary unto: Lastly, the stellate de Mensa, the Table

IV. All other lines shall either proceed out of the fides of the former, or elfe from some proper mount.

V. Every line great or finall, long or fhort, hath a certain beginning or root, from which it rifes; and a certain end or point to which it tends.

VI. The diffance between both ends, is the way of its paffage; in which way, it either croffes fome other line, or elfe is croffed : if it do neither, its fignification is continual, and ought fo much the more to be taken notice of.

VII. Every mount hath a proper fignification, which it receives from the fignifications of its proper Planet, being abstractly confidered : the same understand of all the principal lines aforefaid.

VIII. Saturn is the Author of Age, Inheritances, Melancholly, Malice, Sorrow, Milery, Calamities, Enemies, Imprifonments, Sicknefs, Difeafes, Perplexities, Cares, Poverty, Croffes, Death, and whatfoever evil can befall humane life : he fignifies Fathers, Old Men, Labourers, Dyers, Smiths, and Jefuits.

IX. Jupiter is the Author of Health, Strength, D 4 Mo.

Polygraphices. Lib.1.

Cap.

Neight Tapite

XV

am t

XY

夏日

mis,

XV

ST CVI

the g

XI

IRT. IS

and to

儒祥

XX

CL 20V

in hi

with

tiace to

XXI

油

cil pl

perios.

201 00

mots

XX

the be

midd

Moderation, Sobriety, Mercy, Riches, Substance, Goodnefs, Liberty, Religion, Honesty, Justice, Modesty, and all other things which may make a man happy: he fignifies Churches, Church-men, Lawyers, Scholars, Cloathiers, and the like.

48

X. Mars is the Author of Strife, Contention, Pride, Prefumption, Tyranny, Thefts, Murders, Victory, Conqueft, Infortunacy, Boldnefs, and Dangers: he fignifies Phyficians, Chirurgians, Apothecaries, the Camp, all Military men and Preferments, Edge-tools, Butchers, Carpenters, Gunners, Bailiffs, and the like.

XI. Sol is the Author of Honour, Glory, Renown, Preferment, Life, Generofity, Magnanimity, Soveraignty, Dominion, Power, Treafures, Gold, Silver, and whatfoever may make the life of man fplendid; he fignifies Kings, Princes, Rulers, and all men in power, Minters, Goldfmiths, long Life and Wifdom.

XII. Venus is the Author of Joy, Pleasure, Mirth, Solace, Luft, Uncleannels, and Idlenels : the fignities Woman-kind, Sifters, Ladies, Whores, Curiofities, Lapidaries, Silkmen, Taylors, Mercers, Upholsters, Pictures, Picture-drawers, the Pox, and Diseases proceeding from uncleannels.

XIII. Mercury is the Author of Craft, Subtilty, Policy, Deceit, Perjury, Study, Hearing, and Merchandizing: he fignifies Merchants, Clerks, Scholars, Secretaries, Ambaffadors, Pages, Meffengers, Poets, Orators, Stationers, Cheaters, Thieves, Petty-lawyers, Philofophers, Mathematicians, Aftrologers.

XIV. Luna is the Author of popular Fame both Good, and Evil, Joy, and Sorrow, Mutability and Inconftancy, Affection and Difaffection, Moisture and every effect which may be faid to be common: fhe fignifies Waters, Ships, Seamen of all forts, Queens, Ladies, a Governess, the Common people in general, Neigh-

Cap. 25. Of Chiromantical Signatures. 49

b.1.

ance,

Mo.

man

Ters,

Pride,

tory,

s: he

s, the

tools,

ike.

OWD,

bove-

DI VEF.

ndid;

in in

dom.

firth,

nines

Ities,

iters,

spro-

Po-

an-

Se-

oets,

yers

both

and

and

the

cens,

cral

igh,

Neighbors, Mothers, Kindred, Fifhmongers, Vintners, Tapíters, Midwives, Nurses, and Travellers.

This being known, understand,

XV. First, That the lines take their fignification form the mount of that Planet from whence they rife.

XVI. Secondly, That the place from whence any line rifes fhews the ground, caufe, or original of the things fignified by that line: the line or mount to which it points, fhews the iffue, to what the thing tends, and what may be the end of the matter fignified. XVII. Thirdly, That whether the line fignifies good or evil, if it be cut or croffed by any other line, that line fo cutting it, will at a certain time not only abate the good, but alfo take away the evil, if it fo fignified. XVIII. Fourthly, That the nature and quality of that line thus deftroying the fignification of the former, is known by confidering from what place it rifes, and to what place it tends.

XIX. Fifibly, That a double judgment arifes from every line, by accounting its rife, first from the one end; fecondly, from the other.

XX. Sixtbly, That little lines rifing out of the fides of any other line, both augment the things fignified by that line; and alfo fignifie new matter arifing by things fignified by the line from whence they rife; and the place to which they point, fhew to what they tend.

XXI. Seventbly, That the mounts or lines adorned with ftars, or fmall lines, not croffed, or pointing to evil places, fhew great good and happinels to the perfon, by things fignified by the fame mount or line: and on the contrary, vitiated with croffes, fpots, or knots fhew much evil and perplexity.

XXII. Lastly, The beginning of the lines, thew in the beginning or forepart of Life; the middle, in the middle part of Life; and the ends of them, the latter-

part,

Polygraphices. Lib.1.

PO

Of

She the the fam

200

An C II. An C III. point

part, or end of Life; fo that if any evil or good be fignified by any line, you must hint the time according to the aforefaid reason.

50

Sill 3

"Tis true, bere we ought to enquire into the denominated times when the things fignified should come to pass; but because that matter is something long and abstruse (being more fit to be bandled in a particular tract, wherein all its curiosities may be examined) this our present work being a subject of another nature, and these things not effential to our purpose, but only added by way of appendix, we shall at this time forbear. Notwithstanding, although we have not here delineated every thing in particular, yet we have laid (as it were) the ground and foundation of the Art; out of which, as out of a fountain, the industrious Student may at his own leisure and pleafure, rear a stately fabrick.

The End of the First Book.

she has a first of the for the factor of Lates the model in the

POLYGRAPHICES LIBER SECUNDUS.

51

ib.1.

good be

wining.

to pafs; abjtrafe , whereprofent shings cy of ap-

anding,

is parind and instain,

nd plea:

Of ENGRAVING, ETCHING, and LIMNING.

Shewing the Instruments belonging to the Work; the Matter of the Work, the way and manner of performing the fame; together with all other Requisites and Ornaments.

CHAP. 1.

of Graving and the Infirmments thereof.

I. GRaving is an Art which teacheth how to transfer any defign upon Copper, Brafs, or Wood, by help of fharp pointed and cutting Inftruments.

II. The chief Inftruments are four, 1. Gravers, 2. An Oyl ftone, 3. A Cushion, 4 A Burnisher.

III. Gravers are of three forts, round pointed, square pointed, and Lozenge pointed. The round is best to ferateb withal : the square Graver is to make the largest stroaks;

Polygraphices.

(bap:

VII.]

Prosts

e inte l

tra feat

US TED

a int

in II

the aW.

変に加

er Gra

a in

VIII.

tts jat

the po

may ta

WE CAU

IX. L

Gravert

LE FOUT

Fil

anoard.

ni con

LT!

king h

IL.B

ting

Lib.2.

stroaks: the Lozenge is to make stroaks more fine and delicate; but a Graver of a middle size betwixt the square and Lozenge pointed, will make the stroaks or batches shew with more life and vigour, according as you manage it in working.

52

IV. The Oyl-stone is to whet the Gravers upon, which must be very smooth, not too soft, nor too hard, and without pinholes.

The use is thus: Put a few drops of Oil Olive upon the stone, and laying that fide of it, which you intend shall cut the Copper, flat upon the stone, whet it very flat and eaven; and therefore be sure to carry your hand stedfast with an equal strength, placing the forefinger firmly, upon the opposite fide of the Graver. Then turn the next fide of your Graver, and whet that in like manner, that you may have a very sharp edge for an inch or more. Lastly, turning uppermost that edge which you have so whetted, and setting the end of the Graver obliquely upon the stone, whet it very flat and floping in form of a Lozenge (with an exact and eaven band) making to the edge thereof a sharp point. It is impossible that the work should be with the neatness and curiosity desired, if the Graver be not, not only very good, but also exactly and carefully whetted.

V. The Cushion is a leather bag filled with fine fand, to lay the plate upon, on which you may turn it every way at case.

You must turn your plate with your left hand, according as the stroaks which you grave do turn, which must be attained with diligent care and practice.

VI. The burnishing Iron is of use to rub out scratches and specks or other things which may fault your work in the plate; as also if any stroaks be graved too deep or gross to make them appear less and fainter by rubbing them therewith.

VIL To

Chap. 2. Polisbing Copper Plates. 53

VII. To make your Gravers.

ib.2.

ed deli-

: Square

es sheep

ge it in

upon,

001100

Die adom

ndibal

at and

stedfast

y, soper

it may

turn-

, and

fine,

(with

ereif a

oe with

2 233,

Woll-

h hne

umit

rding

br 28-

ratch-

YOUT

Taved

and

L To

Provide some cross-bow steel, and cause it to be beaten out into small rods, and softned, then with a good file you may shape them at pleasure: when you have done, heat them red hot, and straight dip it into Soap, and by so doing it will be very hard: where note, that in dipping them into the Soap, if you turn your hand never so little awry, the Graver will be crooked. If your Graver be too hard, take a red-bot Charcoal and lay the end of your Graver upon it till it begins to wax yellowish, and then dip it into tallow (fome fay water) and it will be tougher.

VIII. Have by you a piece of Box or hard wood, that after you have fharpned your Graver. by ftriking the point of it into the faid Box or hard wood, you may take off all the roughness about the points, which was caused by whetting it upon the oyl-ftone.

IX. Laftly, take a file and touch the edge of the Graver therewith; if the file cut it, it is too foft, and will do no good: but if it will not touch it, it is fit for your work.

If it should break on the point, it is a sign it is tempered too bard; which oftentimes after a little use by whetting will come into a good condition.

CHAP. II.

Of Polisbing the Copper Plates.

I. T Ake a plate of Brass or Copper of what bigness you please, and of a reasonable thickness, taking heed that it be free from fire-flaws.

II. Beat it as fmooth as you can with a hammer, and then rub it as fmooth as you can, with a pumice-flone void

Polygraphices. Lib.2.

chap.

町町

our lin

INTER L

0

mra.

16

to Art.

plate fr

Karing

titotit (

IL

your ha

REIP

the Gr

their o

at an

W.

that you

It; and

et blac

TOU DE

ind

For

prints

tingt

an or

the

void of Gravel (left it fcratch it and fo caufe as much labour to get them out) and a little water.

54

III. Then drop a few drops of oyl Olive upon the plate, and burnish it with your burnishing Iron; and then rub it with Charcoal made of Beech wood quenched in Urine.

IV. Lafily, with a roul made of a piece of a black Felt, Cafter, or Beaver, dip'd in oyl Olive, rub it well for an hour, fo fhall your plate be exactly polifhed.

CHAP. III.

Of Holding the Graver.

I. T will be neceffary to cut off that part of the knob of the handle of the Graver which is upon the fame line with the edge of the Graver; thereby making that lower fide next to the plate flat, that it may be no hinderance in graving.

For working upon a large plate, that part of the handle (if not cut away) will so rest upon the Copper, that it will hinder the smooth and even carriage of your hand in making your stroaks, and will cause your Graver to run into your Copper deeper than it should do. This done,

II. Place the knob at the end of the handle of the graver in the hollow of your hand, and having extended your fore-finger towards the point of the Graver, laying it a top, or opposite to the edge which should cut the plate; place your thumb on the one side of the Graver, and your other singers on the other side, so as that you may guide the Graver flat and parallel with the plate.

III. Be wary that your fingers interpole not between

Chap.4. Of Engraving: 55 the plate and the Graver, for they will hinder you in carrying your Graver level with the plate, and caufe your lines to be more deep, grofs and rugged, than otherwife they would be.

.ib.2

is much

DORLING

d quen.

ablack

bit well thed.

he Hnob

pon the

by ma-

t it may

re handle

a it mit

din ma-

THE LEAS

the gra-

xtended

Graver,

h thould

deofthe

ide, loss

iel with

between

the

ne,

CHAP. IV.

Of the way and manner of Engraving.

I. HAving a Cushion filled with fand about nine inches long and fix broad, and three or four thick, and a plate well polished; lay the plate upon the Cushion, which place upon a firm Table.

II. Holding the Graver (as aforefaid) according to Art, in making firaight firoaks be fure to hold your plate firm upon the Cushion, moving your hand, leaning lightly where the firoak should be fine; and harder where you would have the firoak broader.

III. But in making circular or crooked ftroaks, hold your hand and Graver ftedfaft, your arm and elbow refting upon the Table, and move the plate againft the Graver; for otherwife it is impoffible to make those crooked or winding ftroaks with that neatness and command that you ought to do.

IV. Learn to carry your hand with fuch a flight, that you may end your firoak as finely as you began it; and if you have occafion to make one part deeper or blacker than another, do it by degrees; and that you may do it the more exactly, observe that your firoaks be not too close, nor too wide.

For your more exact observation, practife by fuch prints which are more loosly shadowed, left by imitating the more dark, you should not know where to begin or end. V. After

Polygraphices. Lib.2.

Chap

to mos

the pril

Cart, 1

putting

Part.

apost to

III.

WEY, IS

of the

1001

iner

all w IV. (which

which

tore yo V.

letter

Ins.an

1.5

apon

of th

.bas is ito:

V. After you have graved part of your work, it will be needful to fcrape it with the fharp edge of a burnifher or other graver, carrying it along even with the plate, to take off the roughnels of the ftroaks; but in doing it beware of making fcratches.

VI. And that you may the better fee that which is Engraven, with the piece of Felt or Caffor (at the fourth Section of the fecond Chapter) dipt in oyl rub the places graven.

VII. Laftly, whatfoever appears to be amifs, you may rub out with the burnifher, and very exactly polifh it with your piece of Felt or Cafter and oyl; which done, to cleanfe the plate you may boil it a little in Wine-vinegar, and rub it gently with a brush of small brass-wire or Hogs briftles.

CHAP. V.

Of the Imitation of Copies or Prints.

I. HAving a piece of Bees wax tyed up in a fine holland rag, heat the plate over the fire, till it may be hot enough to melt the wax; then rub the plate with the wax tyed up in the rag, till you fee it covered all over with wax, (which let be very thin:) if it be not even, heat it again by the fire, and wipe it over gently with a feather.

II. If you would copy a printed picture, to have it print off the fame way; then clap the print which you would imitate with the printed fide next to the plate; and having placed it very exactly, rub the backfide of the print with a burnisher, or any thing that is hard, fmooth and round, which will caufe it

Chap.6. Of Engraving in Wood.

ib.2.

vork, it

geofa

a with

is; but

hich is

at the

of rub

13, you

tlypo-

d ogh

alittle

rali of

n a fine

tub the

thin:) wipe it

which

t tothe

ub the

v thing

canfeit

10.

to flick to the wax upon the plate : then take off the print (beginning at one corner) gently and with care, left you tear it (which may be caufed alfo by putting too much wax upon the plate) and it will leave upon the wax the perfect proportion in every part.

57

Where note, if it be an old picture, before you place it upon the wax, it will be good to track it over in every limb with a black-lead penfil.

III. But if you would have it print the contrary way, take the dust of black-lead, and rub the backfide of the print all over therewith, which backfide put upon the waxed plate; and with your needle or drawing point, draw all the out-lines of the defign or print, all which you will find upon the wax. This done,

IV. Take a long Graver either Lozenge or round (which is better)very tharp, and with the point thereof feratch over every particular limb in the out-ftroak; which done, it will not be difficult to mark out all the thadows as you Engrave, having the proportion before you.

V. Lastly, for Copies ot Letters, go over every letter with black-lead, or write them with ungum'd Ink, and clap the paper over the waxed plate as before.

CHAP. VI.

Of Engraving in Wood.

I. The figures that are to be carved or graven in Wood must first be drawn, traced, or passed upon the wood; and afterwards all the other standing of the wood (except the figure) must be cut away E with

Polygraphices. Lib. 2.

Chap

1

II.

art th

3. Pr

Opl-

Fra

A

16 m

TO:

dec

21 0

titen

mark

ti go

Rug

dian

福县

Will

has

柳品

加助

DOD CHAP.

with little narrow pointed knives made for that purpofe.

58

This graving in wood is far more tedious and difficult than that in Brafs or Copper; because you must cut twice or thrice to take out one stroak; and having cut it, to be careful in picking it out, lest you should break any part of the work, which would deface it.

II. For the kind of the wood let it be hard and tough: the beft for this purpole is Beech and Box: let it be plained inch thick; which you may have cut into pieces according to the bignels of the figure you grave.

III. To draw the figures upon the wood.

Grind White lead very fine, and temper it with fair water; dip a cloth therein, and rub over one fide of the wood, and let it dry throughly: This keepeth the Ink (if you draw therewith) that it run not about, nor fink: and if you draw with Pastils, it makes the stroaks appear more plain and bright.

IV. Having whited the wood as before (if it is a figure you would copy,) black or red the blankfide of the print or copy, and with a little flick or fwallow's quill, trace or draw over the flroaks of the figure.

V. But if you passe the figure upon the wood you must not then white it over (for then the figure will pill off) but only see the wood be well plained : then wipe over the printed fide of the figure with Gum-Tragacanth dissolved in fair water, and clap it smooth upon the wood, which let dry throughly : then wet it a little all over, and fret off the paper gently, till you can see perfectly every stroak of the figure : dry it again, and fall to cutting or carving it.

Wood (except the serve) and

Chap. 7. Of Etching.

), 2,

Par-

finit

trice to be

att

and X: let

UDIN .

TEPE.

of the

晚(前

and

mart

it is a

ideof

low's

IS.

TOU

WH

then

um-

ooth

n wet

F. till

dry it

APi

CHAP. VII.

Of Erching and the Materials thereof.

I. E Tching is an artificial Engraving of Brass or Copper-plates with Aqua-fortis.

II. The Instruments of Etching (besides the plate) are these nine. 1. Hard Varnish. 2. Soft Varnish. 3. Prepared Oyl. 4. Aqua-fortis. 5. Needles. 6. Oyl-stone. 7. Brush-Pensil. 8. Burnisher 9. The Frame and 7 rough.

III. To polifs the Plate.

Although in Chap. 2. of this Book, we have fufficiently taught how to polifh the plate, yet neverthelefs we think it convenient to fubjoyn thefe following, words. First, the plate being well planished or forged, choofe the smootheft fide to polish; then fix it upon a board a little declining, and rub it firmly and evenly all over with a piece of Grindstone, throwing water often on it, fo long till there be no dints, flaws, or marks of the hammer : wash it clean, and with a piece of good Pumice-ftone, rub it fo long till there be no rough ftroaks or marks of the Grindstone: walh it clean again, and rub it with a fine Hoan and water, till the marks of the Pumice-ftone are rubbed out : wash it again, and with a piece of Charcoal without knots (being heat red hot and quenched in water, the outfide being pared off) rub the plate with water till all the small stroaks of the Hoan be vanished ; laftly, if yet there remain any fmall froaks or fcratches, rub them out with the end of the burnishing Iron, fo shall the plate be fitted for work.

E 2

IV. To

59

Polygraphices.

Lib, 2,

Chap

TOT CU

not cho

ISI

ins V

011-10

21 15

Bath

WCH

MOD D

Ca

120

18

time

Wit:

The

in the

lipon.

122

IV. To make the bard Varnish for Etching.

60

Take Greek or Burgundy-pitch, Colophonium or Rozin, of each five ounces, Nut-Oyl four ounces; melt the Pitch or Rozin in an earthen pot upon a gentle fire; then put in the Oyl, and let them boil for the fpace of half an hour: cool it a little upon a fofter fire till it appear like a Glewy fyrrup: cool it a little more, ftrain it, and being almost cold, put it into a Glafs-bottle for ufe. Being thus made it will keep at leaft twenty years.

V. To make the foft Varnish for Etching.

Take Virgin-wax three ounces, Maftich in drops two ounces, Afphaltum one ounce: grind the Mafiich and Afphaltum feverally very fine: then in an earthen pot melt the wax and firew in the Maftich and Afphaltum, ftirring all upon the fire till they be well diffolved and mixed, which will be in about half a quarter of an hour; then cooling it a little, pouring it into a bafin of fair water (all except the dregs) and with your hands wet (before it is cold) form it into rouls.

VI. To make the prepared Oyl

Take Oyl Olive, make it hot in an earthen pot, and put into it a fufficient quantity of tried Sheeps fuct (fo much as being dropped upon a cold thing, the oyl maybe a little hardened and firm) boil them together for an hour, till they be of a reddifh colour, left they fhould feparate when you use them. This mixture is to make the fat more liquid, and not cool fo fast, for the fat alone would be no fooner on the pencil, but it would grow cold; and be fure to put in more oyl in Winter than in Summer.

VII. To make the Aqua-fortis.

Take diffilled White-wine Vinegar three pints; Sal-Armoniack, Bay-falt, of each fix ounces; Verdegriefe four

Chap. 7. 0f1

3,21

um or

ECCS ;

Pona

pon a

olita

it into

Katp

arops

Ma-

in an

leybe

t half

uting

) and

t, and

fuet

10 oyl

ether

athey

alt, for

but it oyl in

5 Sal-

griefe

tour

Of Etching.

61

X. The

four ounces. Put all together into a large well glazed earthen pot (that they may not boilover) cover the pot close, and put it on a quick fire, and let it speedily boil two or three great walms and no more ; when it is ready to boil uncover the pot, and fir it fometimes with a flick, taking heed that it boil not over : having boiled, take it from the fire, and let it cool being close covered, and when it is cold, put it into a Glass bottle with a Glass stopple : If it be too strong in Etching weaken it with a glass or two of the same Vinegar you made it of. There is another fort of Aqua-fortis, which is called Common which is exhibited in Synopfis Medicine, lib. 3. cap. 7. fect. 4. pag. 656. But because that Book may not be in every mans hand, we will here infert it; it is thus: Take dried Vitriol two pound, Salt-peter, one pound, mix them and distil by a Retort, in open fire by degrees.

VIII. To make the Etching Needles.

Choofe Needles of feveral fizes fuch as will break without bending, and of a fine grain; then take good round flicks of firm wood (not apt to fplit) about fix inches long and as thick as a large Goofe-quill, at the ends of which fix your Needles fo that they may ftand out of the flicks about a quarter of an inch or fomething more.

IX. To whet the points of the Neeedles with the Oylstone.

If you would have them whetted round, you muft whet their points fhort upon the Oyl-ftone (not as fowing Needles are) turning them round whilft you whet them, as Turners do. If you whet them floping, first make them blunt upon the Oyl-ftone, then holding them firm and steady, whet them floping upon one fide only, till they come to a short and roundish oval.

E 3

Polygraphices.

X, The brush pencil is to cleanse the work, wipe off dust, and to strike the colours even over the ground or varnish, when laid upon the plate.

Lib. 2.

Chal

1

1.T

111

THE

100

Pia

200

if G

MOUT

4

23

1

With

21

No (

THE I

「「「

言言

四一日 日 日

XI. The burnisher is a well hardened piece of fteel fomewhat roundish at the end. Its uses are what we have spoken at the fixth Section of the first Chapter, and the third Section of the second Chapter.

XII. To make the Frame and Trough.

The Frame is an entire board, about whofe top and fides is fafined a ledge two inches broad, to keep the Aqua-fortis from running off from the fides when you pour it on : the lower end of this board must be placed in the Trough, leaning floping against a wall or some other thing, wherein you must fix feveral pegs of wood to rest the plate upon. The Trough is made of a firm piece of Elm or Oke let upon four legs, whole hollow is four inches wide; and fo long as may beft fit your use: the hollow must be something deeper in the middle, that the water running thither may fall through a hole (there made for that purpole) into an earthen pan well Leaded. The infide of this board and trough must be covered over with a thick oyl colour, to binder the Aqua-fortis from eating or rotting the board.

Chap.8. Of using the bard Varnish. 63

the man in the set band and which an and

b.2.

wipe

round

les are

of the

Record

whole

broad,

trom

end of

leaning

where-

eft the

piece

vollor

beft fit

deeper

it may

urpole)

le of this

a thick

ning a

AP,

CHAP. VIII.

The way and manner of using the hard Varnish.

I. Having well heat the polifhed plate over a Chating difh of coals, take fome of the first varnish with a little stick. and put a drop of it on the top of your singer, with which lightly touch the plate at equal distances, laying on the varnish equally, and heating the plate again as it grows cold, keeping it carefully from dust or filth; then with the ball of your thumb tap it upon the plate; still wiping your hand over all, to make it more finooth and equal.

And here beware that neither the varnish be too thick upon the plate, nor your hand sweaty.

II. Then take a great lighted candle burning clear, with a fhort fnuff, (placing the corner of the plate against a wall) hold the varnished fide downward over the candle, as close as you can, so it touch not the varnish, guiding the flame all over, till it is all perfectly black, which you must keep from dust or filth till it is dry.

III. Over a fire of Charcoals hang the varnished plate to dry with the varnish upwards, which will finoak; when the smoak abates, take away the plate, and with a pointed stick scratch near the side thereof, and if the varnish easily comes off, hang it over the fire again a little, so long till the varnish will not too easily come off; then take it from the fire and let it cool.

Ŧ

64 Palygraphices. Lib. 2.

Chap

521

in line

THE

Coppe

IV.

5 100

1011年

Y.

TOURS

what

Ward

10 do 01

201

御,

an

数

IX

5 6 45

If the varnish should be too bard, cast cold water on the back fide of the plate to cool it, that the heat may not make it too bard and brittle. This done,

IV. Place it upon a low desk, or fome fuch like thing, and cover that part which you do not work on, with a fheet of fine white paper, and over that a fheet of brown paper, on which may reft your hand, to keep it from the varnifh.

V. If you use a ruler, lay some part of it upon the paper, that it may not rub off the varnish; and have an especial care, that no dust or filth get in between the paper and the varnish, for that will hurt it.

CHAP. IX.

Cargo 1022 In come states said

The way and manner of Etching.

I. IN making lines or hatches, some bigger, some leffer fraight or crooked, you must use several forts of Needles, bigger or leffer as the work requires:

II. The great lines are made by leaning hard on the Needle; its point being fhort and thick, (but a round point will not cut the varnish clear:) or, by making divers lines, or hatches, one very close to another, and then by passing over them again with a thicker Needle; or, by making them with an indifferent large needle, and letting the Aqua-fortis lie the longer thercon.

The best Needles for this work are such as are whet sloping with an oval, because their sides will cut that which the round ones will not.

III. If your lines or hatches ought to be of an equal thickness from end to end, lean on the needle with an equal

Chap. 9. Of Etching.

D. 2.

athe

時間山泉

h like work

that a

hand,

on the

have

Ween

fome

everal

CITES:

ound

king

, and redle; eedle;

et for

obich

equal th an equal

5 10

equal force; leaning lightly where you would have the lines or ftroaks fine or fmall; and more heavy where you would have the lines appear deep or large; thereby the needle may have fome Impression in the Copper.

IV. If your lines or hatches be too fmall, pafs over them again with a fhort round point, of fuch a bignefs as you would have the line of leaning ftrongly where you would have the line deep.

V. The manner of holding the needle with oval points (which are most proper to make large and deep stroaks) is much like that of a pen, only the flat fide whetted is usually held towards the thumb : but they may be used with the face of the oval turned toward the middle finger.

VI. If you would end with a fine ftroak, you ought to do that with a very fine needle.

VII. In using the oval points, hold them as upright and straight in your hand as you can, striking your stroaks firmly and freely, for that will add much to their beauty and clearnels.

VIII. In Landskips, in places fartheft from the fight, as also nearest the light, use a very slender point, leaning to lightly with your hand as to make a small faint ftroak.

IX. In working be careful to bruth offall the duft which you work off with the needles.

one motion to there and the water, and

and at free the second of I are street to the barre

CHAP.

66

Lib.2.

Chap

V. I

where lefs det

lighter be feet ver it 1

VL.

quité

fame

11

the

the

on ti

EK.

批审

With

220

the I

HC.

蘭誠

如故

朝后

CHAP. X.

Of msing the Aqua-fortis.

I. IF there be any ftroaks which you would not have the Aqua-fortis eat into; or any places where the varnish is rubbed off, melt some prepared Oyl, and with a pencil, cover those places pretty thick.

II. Then take a brush, pencil, or rag, and dip it in the prepared oyl, and rub the back-side of the plate all over, that the Aqua-fortis may not hurt it, if by chance any should fall thereon.

III. Before you put the Aqua-fortis to the plate, gently warm or dry the plate by a fire to dry up the humidity; which it might contract by reafon of the Air; and to prevent the breaking up the varnish upon the first pouring the Aqua-fortis thereon.

IV. Place the plate by the 12th. Section of the 7th. Chapter of this Book, and with the Aqua-foriis in an earthen pot pour upon the plate, beginning at the top fo moving your hand that it may run all over the plate, which do for eight or ten times : then turn it cornerwife, and pour the Aqua-fortis on it that way ten or twelve times; and then turn it again cornerwife the other way, pouring on the Aqua fortis eight or ten times as before; doing thus feveral times for the fpace of half a quarter of an hour or more, according to the ftrength of the water, and nature of the Copper-

For there must be less time allowed to hard and brittle Copper for pouring on the Aqua-fortis, but more to the Soft.

y. But

Chap. 10. Of using the Aqua-fortis. 67

10.2.

X have

Where

d Oyl,

pitia

e plate

yett

plate,

ap the

of the

upon

he tth.

s in an

the top

ver the

um it

t way

OTTET-

is eight mes for accorof the

d brittle re so the

y. But

V. But you must have special regard to cash on the Aqua-fortis as occasion shall require, and work is; cashing it on at several times, and on several places; where you would have it very deep, often; where lefs deep, fewer times : where light, lefs yet; where lighter, leffer yet : and where so light as it can servely be seen, once or twice : wash it with water, and cover it where you would have it lighter.

VI. Having thus covered your plates as occasion requires; for the fecond time, place the plate on the frame as aforefaid, and pour on it your Aqua-fortis for a full half hour.

VII. Then wash it with water and dry it, covering the places which require lightness or faintness (that they may be proportionable to the design) then pour on the Aqua-fortis for the last time more or less according to the nature of your work, and the deepness that it requires.

vIII. You may rub off the varnish or ground, as occasion in your work requires with a Charcoal, to see whether the water hath eaten deep enough; by which you may judge of the space of time, that you are after to employ in pouring on the Aqua-fortis, in the works you will have to do, which if the shadows require much depth, or ought to be very black, the water ought to be poured on (at the least time) for an hour or better; yet know no certain rule of time can be limited for this.

na todag abala ao ao CHAP.

Polygraphices.

68

CHAP. XI.

Of Finisbing the Work.

1. A LL the former operations being done, walk the plate with fair water; and put it wet upon the fire, till the mixture be well melted, and then wipe it very clean on both fides with a linnen cloth, till you have cleanfed it of all the mixture.

II. Take Charcoal of Willow, take off the rind of . it, and putting fair water on the plate, rub it with the Charcoal, as if you were to polish it, and it will take off the varnish.

Where note, that the Coal must be free from all knots and roughness, and that no fand or filth fall upon the plate.

III. Take ordinary Aqua-fortis, to which add two third parts of water, and with fome linnen rags dipped therein, rub the plate all over, fo will you take away its discolouring, and recover its former beauty.

IV. Then take dry linnen rags and wipe the plate fo as to take offall the aforefaid water, and then holding it a little to the fire, put upon it a little Oyl Olive, and with a piece of an old Beaver rolled up rub the plate well all over, and laftly, wipe it well with a dry cloth.

V. Then if any places need touching with the Graver, as fometimes it happens, especially where it is to be very deep or black, perfect them with care; which done, the plate is ready for the Rolling-Prefs.

CHAP.

- Lib.2.

hap

mit,t

喝口

ans.

II.

Inall

the gr

题

Bar Lo

100 12

100 020

P.

East

1. 201

開設打

II.

10,6

That.

the b

R. to

自治

in the

Actal In an

87.5

Chap. 12. Of using the soft Varnish. 69

6.2.

開調

Wet

then

loth,

id of

ththe

Il take

mall

1 fall

two

dip-

take

ETW.

plate

hold-

live,

bthe

dry

the

ere it

care; refs.

AP.

CHAP. XII.

The way of using the soft Varnish.

I. THE plate being prepared by cleanfing it with a Charcoal and clean water, wash it well and dry it, then with fine white Chalk scraped and a fine rag, rub it well over, not touching it with your fingers.

II. Lay down your plate over a Chafing-difh of fmall-coal, yet fo as the fire may have air; then take the ground or foft varnith (it being tied up in a fine rag) and rub it up and down the Copper, fo as it may fufficiently cover it, (not too thin nor too thick :) then take a feather and fmooth it as well as poffibly you can all one way, and then crofs it, till it lie very well.

But you must take heed that the plate be not too bot, far if it lie till the ground smoak, the moisture will be dried up, and that will spoil the work, and make the ground break or fly up.

III. Then grind fome White-lead with Gum-water, fo that it may be of a convenient thickness to fpread on the Copper; and with a large pencil, or fmall brush, firike the plate cross over, twice or thrice till it is smooth; and then with a larger brush (made of Squirrels tails) gently smooth the white, and then let it lie till it is dry.

IV. Or you may black the varnish with a Candle, as we taught at the Second Section of the Eighth Chapter, and then warm it over the fire, till the varnish begin to melt.

CHAP.

Polygraphices.

70

Lib.2.

Chap

Wall

ah, is

VI.

and about

in w

新記 VII

Water

mpa

1P

The state

此的

In

王

Rate

tre

1

CHAP. XIII.

The way of Etching upon the foft Varnish.

1. THE way of Etching is the fame with that in the hard varnish; only you must be careful not to hurt your varnish, which you may do by placing on the fides of your plate two little boards, and laying cross over them another thin one, so as that it may not touch the plate, on which you must rest your hand whilst you work.

II. Then place the plate on a Desk(if you to pleafe) for by that means the superfluous matter will fall away of it self.

III. But if you have any defign to transfer upon the plate from any Copy or Print, ferape on the backfide thereof fome red Chalk all over; then go over that, by feraping fome foft Charcoal, till it mingle with the Chalk; and with a large fliff pencil rub it all over till it be fine and even, and fo lay down the defign upon the plate: with a blunt Needle draw over the out ftroaks: and as you work, you need not ferate b bard into the Copper, only fo as you may fee the Needle go through the Varnifh to the Copper.

IV. Always be fure when you leave the work, to wrap the plate up in Paper, to keep it from hurt, and corrupting in the air, which may dry the varnish : and in Winter time wrap the plate up in a piece of wollen, as well as paper, for if the frost get to it, it will cause the varnish to rise from the Copper in the cating. An inconveniency also will accrew, by letting the Var-

wish lie too long upon the Flate before the work is finished ;

Chap.14. Of Finishing the Work.

10.2.

nil.

thatig

careful

by pla-

is, and as that

wilt reft

please)

fall 2-

oon the ackfide er that,

le with all over

lign up-

the out ard into through

work, to

ort, and

ifh : and

wollen,

ill caule

ing. He Var-

inifiedi

fr

for three or four months will confume the moisture and so spoil all.

V. The marking of the defign upon the foft varnifh, is beft done with Black-lead or Chalk, if the ground is white; but with red Chalk, if the ground is black.

VI. Having Graved what you intend upon the varnifh, take fome fair water, a little warm, and caft it upon the plate; and then with a foft clean Sponge, rub upon the White-lead to moiften it all over; and then wafh the plate to take away the whiting, and dry it.

VII. Or lastly, with Aquasfortis mixed with fair water, wash it all over, and by this means you may take away the whiting, which then wash with common water and dry it; and thus have you the plate prepared for the Aqua-fortis.

CHAP. XIV.

Of using the Aqua-fortis, and finishing the Work.

I. Put foft wax (red or green) round the brims of the plate, and let it be railed above the varnish about half a Barley Corns length; fo that placing the plate level, the water being poured upon the plate may by this means be retained. This done,

II. Take common Aqua-fortis fix ounces, common water two ounces, mix them, and pour it gently upon the plate, fo that it may cover it fully all over; fo will the ftronger hatchings be full of bubbles, while the

Polygraphices. Lib.2.

Char

VIL

THE,

pr.pal

nd a

the W

L

toth

IL

ditt

Table

III bick,

IV

an II

V.

atific Th

tals t

the fainter will appear clear for a while, not making any fudden operations to the view.

72

3 33

III. When you perceive the water to operate a fmall time, pour it off into a glazed earthen difh, and throw fair water upon the plate, to walk away the *Aqua-fortis*, then dry the plate : and where you would have the Cut to be faint, tender or fweet, cover it with the prepared Oyl, and then cover the plate again with *Aqua-fortis* as before, leaving it on for eight or ten minutes, or longer: then put off the *Aquafortis* as before. walking and drying the plate, and covering with the prepared Oyl other places which you would not have to deep as the reft : Lattly, put on the *Aqua-fortis* again, for the fpace of half an hour (more or lefs) and then pour it off, walking the plate with fair water as before.

As you would have your lines or stroaks to be deeper and deeper, so cover the sweeter or fainter parts by degrees with the prepared Oyl, that the Aqua-fortis may lie the longer on the deep stroaks. Then,

IV. Take off the border of wax, and heat the plate, fo that the Oyl and varnish may throughly melt; which wipe away well with a linnen cloth: then rub the plate over with Oyl Olive and a piece of an old Beaver roll'd up, which done, touch it with the Graver where need is.

V. But if any thing be(at last) forgotten; then rub the plate aforefaid with crums of bread, fo well that no filth or oyl remain upon the plate.

VI. Then heat the plate upon a Charcoal fire, and fpread the foft varnish with a feather upon it (as before) so that the hatchings may be filled with varnish; black it and then touch it over again, or add what you intend.

Ved ventetosterostore VII. Let

Chap: 15. Of Limning, &c.

10.2)

naking

erate 2

ih, and

ay the

Would

e again r eight Aque-

te, and which

an hour

replate

deeper

degrees

y lie size

je plate,

melt;

hen rub

an old

te Gra-

hen rub

well that

ire, and

asbe-

amih i

ld what

II. Lat

VII. Let your hatchings be made by means of the Needles, according as the manner of the work shall require, being careful before you put on the Aquafortis, to cover the first graving on the plate with the prepared Oyl (less the varnish should not have covered all over:) then cause the Aqua-fortis to eat into the work; and lastly cleanse the plate as before.

73

CHAP. XV.

Of Limning, and the Materials thereof.

I. Imning is an Art whereby in water Colours, we firive to refemble Nature in every thing to the life.

II. The Inftruments and Materials thereof are chiefly thefe. 1. Gum. 2. Colours. 3. Liquid Gold and Silver. 4. The Grindstone and Muller. 5. Pencils. 6. Tables to Limnin. 7. Little glass or China-dishes.

III. The Gums are chiefly these four, Gum-Arabick, Gum-Lake, Gum-Hedera, Gum-Armoniack.

IV. The principal Colours are these seven, White, Black, Red, Green, Tellow, Blew, Brown: out of which are made mixt or compound Colours.

V. The Liquid Gold and Silver is either natural or artificial.

The natural is that which is produced of the Metals themselves: the artificial is that which is formed of other colours.

VI. The Grinding-stone, Muller, Pencils, Tables, and Shells, or little China-dishes are only the necessary instruments and attendants, which belong to the practice of Limning. E CHAP.

Polygraphices. Lib.2.

Cha

of In

i wi

pure H

之后

2.1

3. L

I

202

WI

181

WI

ind

27

the state

ting

物的刻

Mal

CHAP. XVI.

74

Of the Gums and their Use.

I. THE chief of all is Gum-Arabick, that which is white, clear and brittle; the Gum-water of it is made thus:

Take Gum-Arabick, bruife it and tie it up in a fine clean linnen cloath, and put it into a convenient quantity of pure spring-water, in a glass or earthen vessel; letting the Gum remain there till it is disfolved; which done, if the water is not stiff enough, put more Gum into the cloath; but if too stiff, add more water : of which Gum-water have two forts by you, the one strong, the other weak; of which you may make a third at pleasure.

But if you be where Gum-Arabick is not to be got, you may inflead of that use the preparation of Sheepsleather or parchment following.

Take of the foreds of white Sheep-skins (which are to be had plentifully at Glovers) or elfe of parchments, one pound; Conduit or running water two quarts, boil it to a thingely, then strain it whilst bot through a fine strainer, and so use it.

II. Gum-Lake, it is made of whites of Eggs beaten and firained a pint, Honey, Gum-Hedera of each two Drachms, firong wort four fpoonfuls, mix them, and firain them with a piece of fpunge till they run like a clear oyl, which keep in a clean veffel till it grows hard.

This Gum will diffolve in water like Gum-Arabick, of which Gum-water is made in like manner; it is a good ordinary varnish for Picinres.

III. Gum-Hedera, or Gum of Ivy; it is gotten out

Chap. 17 Of Colours in General.

0.2.

hich

WIII I

a fine

atity

ting

ue, if

atti;

ater

eak,

got,

ceps-

かわ

5, 1988

1 10 1

aner;

aten

hem,

dit

ik, f

1th

out

of

of Ivy, by cutting with an Axe a great branch thereof, climbing upon an Oak-tree, and bruifing the ends of it with the head of the Axe; at a Months end, or thereabouts, you may take from it a very clear, and pure fine Gum, like oyl.

It is good to put into Gold-fize and other Colours, for these three reasons: I. It abates the ill sent of the fize: 2. It will prevent bubbles in Gold-fize and other Colours: 3. Laftly, it takes the fat and clammines of Colours: befides which it is of use in making Pomanders.

IV. Gum-Armoniacum, It is a Forrein Gum, and ought to be brought ftrained. Grind it very fine with juyce of Garlick and a little Gum-Arabick-water, fo that it may not be too thick, but that you may write with it what you will.

When you use it, draw what you will with it, and let it dry; and when you gild upon it, cut your Gold or Silver to the fashion which you drew with the fize or gum; then breath upon the fize, and lay the Gold upon it gently taken up, which press down hard with a piece of wool; and then let it well dry; being dryed, with a fine linnen cloath strike off the losse Gold; so will what was drawn be fairly gilded if it was as fine as a hair: it is called Gold-Armoniack.

CHAP. XVII.

Of the seven Colours in General.

1. THE chief Whites are these, Spodium, Cerule, White-lead, Spanish-white, Egg+shels burnt. This Colour is called in Greek Acunos of Acusow, video,

Polygraphices. Lib.2.

Cha

51

山山前師

I

gan I

mk

V

156

Y

a ri

K W

ŧ٣,

100

覧

to see, beuause Aeunoris eori dian Cerindo decos, whiteness (as Aristotle said) is the object of fight, in Latin Albus from whence the Alps had their name, by reafon of their continual whiteness with Snow. The Spanish-white is thus made. Take fine Chalk three ounces, Alom one ounce, grind them together with fair water till it be like pap; roul it up into balls, which dry leifurely: then put them into the fire till they are red-hot, take them out, and let them cool: it is the best white of all, to garnish with, being ground with weak Gum-water.

76

II. The chief Blacks are thefe, Harts-horn burnt, Ivory burnt, Cherry-ftones burnt, Lamp-black, Charcoal.

Black, in Latin Niger is so called from the Greek word vene cs, which signifies dead, because putrified and dead things are generally of that colour. Lamp-black is the smoak of a Link, Torch, or Lamp gathered together.

III. The chief Reds are thefe, Vermilion, Red-lead, Indian-lake, Red-oker. It is called in Latin Ruber παed των βοών à corticibus vel granis mali punici; from the Rinds or Seeds of Pomegranates, as Scaliger faith.

IV. The chief Greens are thefe, Green Bice, Verdegriefe, Verditure, Sapgreen. This colour is called in Latin Viridis from Vires: in Greek χλωε δνα χλόη, Grafs or Green Herb, which is of this Colour.

V. The chief Tellows are these, Orpiment, Massicot, Sassron, Pink-yellow, Oker-de-luce This colour is called in Latin Flavus, Lutens, in Greek ξαν. 305, which is Homer's Epithete for Menelaus, where he calls him ξαν. 305 Μενέλα.

VI. The chief Blews are Ultramarine, Indico, Smalt, Blew Bice. This colour is called in Latin Caraleus, in Greek KudveG à KudwG, the name of a stone, which yields Ultramarine.

VII. The

Chap. 18. Of Colours in Particular. 77

0.2;

Bitte-

treatine The three

with balls,

177.5

mt,

03F-

wad.

lead

ter

Kan,

laber

non

Idć-

N IN

ON,

300

e of a

The

VII. The chief Browns are Umber, Spanish-brown, Colens Earth. It is called in Latin Fuscas, quasi φῶς σκιᾶται, from darkning the Light, in Greek Φαιός.

CHAP. XVIII,

Of Colours in Particular.

I. CEruse, Grind it with glair of Eggs and it will make a most perfect white.

II. White-lead, Grind it with a weak water of Gumlake, and let it ftand three or four days, after which if you mix with it Rofet and Vermilion, it makes a fair Carnat jon.

III. Spanish-white, It is the best white of all, to garnish with, ground with weak Gum-water.

IV. Lamp-black, ground with Gum-water, it makes a good black.

V. Vermilion, Grind it with the glair of an Egg, and in the grinding put a little clarified honey, to make its colour bright and perfect.

VI. Sinaper-lake, it makes a deep and beautiful red, or rather purple, almost like unto a Red-rose. Grind it with Gum-lake and Turnsole-water: if you will have it light, add a little Ceruse, and it will make it a bright Crimson; if to Diaper, add only Turnsole water.

VII. Red-lead, Grind it with fome Saffron, and fiiff Gum-lake; for the Saffron makes it orient, and of a Marigold colour.

VIII Turnfole, Lay it in a Sawcer of Vinegar, and fet it over a Chafing-difh of coals; let it boil, then take it off, and wring it into a shell, adding a little

Polygraphices. Lib.2.

Cha

XV

6 to

1 Bi

nks.

XV

The last

XL

outo

mix I

XX

COW

Wi

700

X

grin

Cera

X

X

fmal

Refe

11

1 1

24

12

-

三二十二十二十二.

21

Gum-Arabick, let it stand till it is diffolved : It is good to shadow Carnation, and all Yellows.

78

IX. Roser, Grind it with Brazil-water, and it will make a deep purple: put Ceruse to it, and it will be lighter; grind it with Litmose, and it will make a fair Violet.

X. Spanish-brown, Grind it with Brazil-water: mingle it with Ceruse and it makes a horse-flesh Colour.

XI. Bole-Armoniack, It is a faint colour; its chief use is, in making fize for burnish'd gold.

XII. Green bice, Order it as you do Blew bice; when it is moift, and not through dry, you may Diaper upon it with the water of deep green.

XIII. Verdegriefe, Grind it with juyce of Rue, and a little weak Gum-water, and you will have a most pure green : if you will Diaper with it, grind it with Lye of Rue (or elfe the decoction thereof) and there will be a hoary green : Diaper upon Verdegriefe-green with Sap-green : also Verdegriefe ground with white Tarter, and then tempered with gum-water, gives a most perfect green.

XIV. Virditure, grind it with a weak Gum-Arabick water: it is the fainteft green that is, but is good to lay upon black, in any kind of Drapery.

XV. Sap-green; lay it in tharp Vinegar all night; put it into a little Alom to raife its colour, and you will have a good green to Diaper upon other greens.

XVI. Orpiment, Arsenicum or Anripigmentum, grind it with a stiff water of Gum-lake, because it is the best colour of it self, it will lie upon no green, for all greens, White and Red-lead, and Ceruse stain it : wherefore you must deepen your colours fo that the Orpiment may be highest, and soit may agree with all Colours. XVII. Mass-

Chap. 18. Of Colours in Perticulars. 79

1.2.

Itis

will

libe

the a

ter: Co-

hief

hên

up-

and

noft

with

nere

vhite

Ara-

000

int;

and

the

nind

bell

or all

nit:

n the with

山

XVII. Masticot grind it with a small quantity of Saffron in gum-water, and never make it lighter than it is: it will endure to lie upon all colours and metals.

XVIII. Saffron, Steep it in glair : it may be ground with Vermilion.

XIX. ink-yellow, if you would have it fad coloured, grind it with Saffron; if light, with Cerufe; mix it with weak gum-water, and to use it.

XX. Oker de Luce, grind it with pure Brazil water: it makes a paffing hair colour; and is a natural fhadow for gold.

XXI. Umber, It is a more fad colour. Grind it with gum-water, or gum-lake; and lighten it (if you please) with a little Ceruse and a blade of Saffron.

XXII. Ultramarine, If you would have it deep, grind it with Litmofe-water; but if light, with fine Cerufe, and a weak Gum-Arabick water.

XXIII. Indico, grind it with water of Gum-Arabick, as Ultramarine.

XXIV. Blew bice, grind it with clean water, as fmall as you can, then put it into a fhell, and wafh it thus: put as much water to it as will fill up the veffel or fhell, and ftir it well, let it ftand an hour, and the filth and dirty water caft away; then put in more clean water, do thus four or five times; and at laft put in Gum-Arabick water fomewhat weak, that the Bice may fall to the bottom; pour off the gum-water, and put more to it, wafh it again, dry it, and mix it with weak gum-water (if you would have it rife of the fame colour) but with a ftiff water of Gum-lake, if you would have a moft perfect blew; if a light blew, grind it with a little Cerufe; but if a moft deep blew, add water of Litmofe.

XXV. Smalt,

Polygraphices.

80

XXV. Smalt, grind it with a little fine Rofet, and it will make a deep Violet: and by putting in a quantity of Cerufe, it will make a light Violet. Chap

V. 4

STO III

Bu

Gen I

N.

with w

VIL

T

Orpic

Tak

ar IX

Dati

each e X. Jacon

É.

XI

Quick

201

富

H

聽

I

X

800

X

T

1

An

Lib.2.

XXVI. Litmofe-blew, grind it with Cerufe: with too much Litmofe it makes a deep blew; with too much Cerufe, a light blew: grind it with the weak water of Gum-Arabick.

Take fine Litmose. cut it in pieces, lay it in weak water of Gum-lake for twenty four hours, and you shall have a water of a most perfect Azure; with which water you may Diaper and Damask. npon all other blews, to make them shew more fair and beautiful.

XXVII. Orchal grind it with unflak'd Lime and Urine, it makes a pure Violet: by putting to more or lefs Lime, you may make the Violet light or deep as you pleafe.

CHAP. XIX.

Of mixt and compound Colours.

I. MUrry, It is a wonderful beautiful colour, composed of purple and white : it is made thus. Take Sinaper lake two ounces; White-lead one onnce, grind them together. See the 24 Section.

II. A glass grey, mingle Ceruse with a little Azure. III. A bay colour, mingle Vermilion with a little Spanish brown and black.

IV. A deep purple, It is made of Indico, Spanishbrown and White.

It is called in Latin Purpureus, in Greek wop & peos from wop & a kind of Shell-fish that yields a liquour of that colour.

Mr. S. F.K.

Chap. 19. Of mixing Colours.

10.2.

ict, and

quan.

With

thtop

C Wezk

lak wa. 11 bane

T YIN

man

ic and

more

I DEED

blour,

made

id one

Zurc.

little

nilh-

NU PEOS

18 M

at d

An

V. An Ash-colour, or Grey, It is made by mixing White and Lamp-black; or white with Sinaper, Indico and black make an Ash colour.

It is called in Latin Cæsius, and color Cinerius; in Greek Thaunds and TEOpudius.

VI. Light Green, It is made of Pink and Smalt; with white to make it lighter if need require.

VII. Saffron colour, It is made of Saffron alone by

VIII. Elame colour It is made of Vermilion and Orpiment, mixed deep or light at pleasure : or thus, Take Red-lead and mix it with Massicot, which heighten with white.

IX. A Violet colour, Indico, White and Sinaper-lake make a good Violet. So also Ceruse and Litmose, of each equal parts.

X. Lead colour, It is made of White mixed with Indico.

XI. Scarlet colour, It is made of Red-lead, Lake, Vermilion: yet Vermilion in this cafe is not very uleful.

XII. To make Vermilion.

Take Brinktone in powder one ounce, mix it with Quickfilver a pound, put it into a Crucible well luted, and upon a Charcoal-fire heat it till it is red-hot; then take it off and let it cool.

XIII. To make a bright Crimfon.

Mix tincture of Brazil with a little Ceruse ground with fair water.

XIV. To make a fad Crimfon.

Mix the aforefaid light Crimfon with a little Indico ground with fair water.

XV. To make a pure Lake.

Take Urine twenty pound, boil it in a Kettle and foum it with an Iron foummer till it comes to fixteen pound;

Polygraphices. Lib.2.

hap.

TIL

The

al da

its Flo

safed.

XXII

Tak

rd Ga

IXI

Ten

little g

but a

XX

Mix

ALL N

Beck

kin-

EX 2

TREAD

-

統加

の言語

pound; to which add Gum-lake one pound, Alom five ounces; boil all till it is well coloured, which you may try by dipping therein a piece of linnen cloth; then add fweet Alom in powder a fufficient quantity, ftrain it and let it ftand; ftrain it again through a dry cloth till the liquor be clear: that which remains in the cloth or bag is the pure Lake.

XVI. To make a Crimfon Lake.

It is ufually made of the flocks florn off from Crimfon cloth by a Lye made of Salt-peter, which extracts the colour; which precipitate, edulcorate, and dry in the Sun or a Stove.

XVII. A pure Green.

Take white Tartar and Verdegriefe, temper them with ftrong White-wine Vinegar, in which a little Gum-Arabick hath been diffolved.

XVIII. A pure Violet.

Take a little Indico and tincture of Brazil, grind them with a little Ceruse.

XIX. A pare Purple colour.

Take fine Brimftone an ounce and an half, Quickfilver, Sal-Armoniack, Jupiter, of each one ounce; beat the Brimftone and Salt into powder, and make an Amalgamy with the Quickfilver and Tin, mix all together, which put into a great glafs goard; make under it an ordinary fire, and keep it in a conftant heat for the space of fix hours.

XX. To make a Yellow colour.

Take the Yellow chives in white Lillies, fleep them in gum-water, and it will make a perfect Yellow; the fame from Saffron and Tartar tempered with gumwater.

Lo make a i

XXI. To make a Red colour.

Take the roots of the leffer Buglofs, and beat them, and firain out the juyce, and mix it with Alom-water. XXII. 79

82

Chap. 19. Of Mixing Colours.

XXII. To make excellent good Greens.

10.2.

Alon

which

n cloth;

untity,

hadry

auns in

Crim.

tracts

nd dry

t them

a hittle

grind

Quick.

wince;

the an

all to-

ie un-

t heat

them

; the

gum-

them, water, IL 79 The Liver of a Lamprey makes an excellent and durable grafs green: and yellow laid upon blew will change into green: fo likewife the juyce of a blew Flower-de-luce, mixed with gum-water, will be a perfect and durable green or blew, according as it is ufed.

83

XXIII. To make a Purple colour.

Take the juyce of Bilberries and mix it with Alom and Galls, and so paint with it.

For Scarlet.

Put no gum (horeto.)

XXIV. To make a good Murry.

Temper Roffet with a little Rofe-water, in which a little gum hath been diffolved, and it will be good, but not exceeding that at the first Section of this Chapter.

XXV. To make Azure or Blen. 15 , solo-wold she is

Mix the Azure with glew-water, and not with gum-water.

XXVI. To make a Yellow, Green, or Purple.

Buckthorn-berries gathered green and ficeped in Alom-water yield a good yellow: but being through ripe and black (by the eighteenth Section of the twenty first Chapter of the third Book) they yield a good green: and lastly, being gathered when they are ready to drop off, which is about the middle or end of November, their juyce mixt with Alom water yields a good Purple colour.

IX. Far 1 ours Green, Take Verdegriefe, bruile it

X. For a Cavassion. Grind Cerule, well walhed

and fleep it in Mulcadine for twalve bours, then d

XL Fer Clath of Gold. Take brown Okers

a AHO leads or Cerufe and Vermilion.

it into a thell, to which add a little Sap-green: (b.

CHAP. XX.

Polygraphices.

84

. Lib.2.

xII. I

sin with

XIII.

XIV.

tta,

la coal

XV.

ningk

XV

XVI

sihCa

XVII

FO F

IX

調白

職

協

XX

24

X

With L

XX Log

Of Colours for Drapery.

. FOR Tellow Garments. Take Massicot deepned with Brown-Oker and Red-Lead.

II. For Scarlet. Take Virmilion deepned with Sinaper-lake, and heightned with touches of Masticot.

III. For Crimfon. Lay on Lake very thin, and deepen with the fame.

IV. For Purple. Grind Lake and Smalt together : or take Blew-bice, and mix it with Red and White-Lead.

V. For an Orient Violet. Grind Litmofe, Blew-Smalt, and Cerufe; but in mixture let the blew have the upper hand.

VI. For Blew. Take Azure deepned with Indy-Blew or Lake heightned with white.

VII. For Black Velvet. Lay the garment first over with Ivory black, then heighten it with Cherrystone black, and a little white.

VIII For black Sattin. Take Cherrystone black; then white deepned with Cherrystone black; and then lastly, Ivory black.

IX. For a pure Green. Take Verdegriese, bruise it, and steep it in Muscadine for twelve hours, then strain it into a shell, to which add a little Sap-green: (but put no gum thereto.)

X. For a Carnation. Grind Ceruse, well washed, with Red-lead; or Ceruse and Vermilion.

XI. For Cloth of Gold. Take brown Oker, and liguid

Chap. 20. Of Colours for Drapery.

ib.2.

cepned

ith Si-

ticot.

1, and

etatt:

White-

Blew-

w have

Indy.

tit over

WHONE

black; d then

tile it,

(but

alhed,

nd li-

quid

quid Gold water, and heighten upon the fame with fmall stroaks of Gold.

XII. For white Sattin. Take first fine Ceruse, which deepen with Cherrystone-black, then heighten again with Ceruse, and fine touches where the light falleth.

XIII. For a russet Sattin. Take Indy-blew and Lake, first thin and then deepned with Indy again.

XIV. For a bair Colour. It is made out of Massicot, Umber, Yellow Oker, Ceruse, Oker-de-rous, and Sca-coal.

XV. For a Popinjay Green. Take a perfect green mingled with Masticot.

XVI. For changeable Silk. Take water of Masticot and Red-lead; which deepen with Sap-green.

XVII. For a light Blew. Take Blew-bice, heightened with Ceruse or Spodium.

XVIII. For to fhadow Ruffet. Take Cherrystoneblack, and white; lay a light Ruffet, then shadow it with white.

XIX. For a Skie Colour. Take Blew-bice and Venice Ceruse: but if you would have it dark, take some blew and white.

XX. For a Straw Colour. Take Mafficot; then white heightened with Mafficot, and deepned with Pink. Or thus. Take Red-lead deepned with Lake.

XXI. For Yellowift Thin Pink deepned with Pink and green: Orpiment burned makes a Marigold colour.

XXII. For a Peach colour. Take Brazil water, Log water and Cerufe.

XXIII. For a light Purple. Mingle Cerufe with Logwood water: or take Turnfole mingled with a little Lake, Smalt and Bice.

XXIV. For

85

Polygraphices. Lib. 2.

Ch.21

Or th

- 雪川

-###

ad Bi

ang fabili

制品

14 17

in an

12 23

T Sil

12: 12

Whe

men T

Take to Take to Martin

agend g

d Tar

UT V

EII 2

國家

動法

II.

Tak

then an

min ingin

this !

plak

ing in

Part

Or

XXIV. For a Walnut colour. Red-lead thinly laid, and fhadowed with Spanish brown.

XXV. For a Fire colour Take Matticot, and deepen it with Matticot for the flame.

XXVI. For a Tree. Take Umber and white, wrought with Umber, deepned with black.

XXVII. For the Leaves. Take Sap-green and green Bice, heighten it with Verditure and white.

XXVIII. For Water. Blew and white, deepned with blew, and heightned with white.

XXIX. For Banks. Thin Umber, deepned with Umber and black.

XXX. For Feathers. Take Lake frizled with Redlead.

CHAP. XXI.

Of Liquid Gold and Silver:

I. T Iguid Gold or Silver.

L Take five or fix leaves of Gold or Silver, which grind (with a ftiff Gum-lake water, and a good quantity of Salt) as fmall as you can; then put it into a vial or glazed veffel; add fo much fair water as may diffolve the ftiff gum-water; then let it ftand four hours, that the Gold may fettle: decant the water, and put in more, till the Gold is clean wafhed: to the Gold put more fair water, a little Sal-Armoniack and common Salt, digefting it clofe for four days: then put all into a piece of thin Glovers leather (whofe grain is peeled off) and hang it up, fo will the Sal-Armoniack fret away, and the Gold remain behind, which keep.

Ch.21. Of Liquid Gold and Silver. 87

Or thus. Grind fine leaf Gold with strong or thick gum-water very fine; and as you grind add more thick gum-water; being very fine, wash it in a great shell, as you do Bice: then temper it with a little quantity of Mercury sublimate, and a little dissolved gum to bind it in the shell; shake it, and spread the Gold about the sides thereof, that it may be all of one colour and fineness, which use with fair water, as you do other colours. The same obferve in liquid Silver; with this observation, That if your Silver, by length of time, or humidity of the air become rusty; then cover the place with juyce of Garlick before you lay on the Silver, which will preferve it

When you use it, temper it with glair of Eggs, and so use it with pen or pencil. Glair of Eggs is thus made. Take the whites and beat them with a spoon, till that rise all in a foam; then let them stand all night, and by morning they will be turned into clear water, which is good glair.

II. Argentum Musicum.

Take one ounce of Tin, melt it, and put thereto of Tarter and Quickfilver of each one ounce, fir them well together untill they be cold, then beat it in a mortar and grind it on a ftone; mix it with gum water, write therewith, and afterwards polifh it.

III. Burnifhed Gold or Silver.

Take Gum lake and diffolve it into a fliff water; then grind a blade or two of Saffron therewith, and you fhall have a fair Gold: when you have fet it, being throughly dry, burnish it with a dogs tooth. Or thus, having writ with your pen or pencil what you please, cut the least Gold or Silver into pieces, according to the draught, which take up with a feather and lay it upon the drawing, which prefs down with a piece of wool; and being dry, burnish it.

IV. Gold

Or

Lib.2

呐鼬

l deepe

white

id gree

deepno

ed with

th Red.

16

Silver

and a

en put st

with a

and four

e water,

:tothe

ack the

s: then

(whole

the Sal-

behind,

Polygraphices. Lib.2. 88

Or thus. Oring

Chap

1.1

ELEN

JI.

lead,

DET.

ryh

II

Matti

Ber

IV.

Saffro

V.

Ta

trom

with

inte !

tilt

110 0

適け agh VI.

Put

in a 21

hit

朝

IV. Gold Armoniack.

This is nothing but that which we have taught at the fourth Section of the fixteenth Chapter of this Book.

V. Size for burnished Gold.

Take Bole-Armoniack three drachms, fine Chalk one drachm; grind them as fmall as you can together with fair water, three or four times, lettingit dry after every time : then take glair and firain it as fhort as water, with which grind the Bole and Chalk, adding a little Gum-Hedera, and a few blades of Saffron : grind all as fmall as poffible, and put them into an Ox horn (I judge a glass veffel better) and fet it to rot in horfe dung for fix weeks; then take it up, and let it have air, and keep it for ule.

Its use is for guilding parchments, book-covers, and leather, thus; lay this fize first upon the parchment, then with a feather lay the Gold or Silver upon it, which when dry, burnish it.

VI. To Diaper on Gold or Silver.

You must Diaper on Gold with Lake and Yellow Oker: but upon Silver with Cerufe.

VII. Aurum Musicum.

IV. Cold

Take fine Crystal, Orpiment, of each one ounce, beat each severally into a fine powder, then grind them together well with glair.

You may write with it, with pen or pencil, and your letters or draught will be of a good Gold colour.

thus, having will with your per er findil what you

CHAP. draught, which take no with the teacher and

Lev it upon the deswine, which rates down with a

participation and being day, burnilly it.

the leat Gold on Silver icel pleased accor-

Chap. 22. Of Preparing the Colours. 89

TOTAL ALL DIALS STATE

CHAP. XXII.

Of Preparing the Colours.

I. Colours, according to their natures have each a particular way of preparation : to wit, by grinding, washing or steeping.

11. The chief Colours to be ground are these; Whitelead, Ceruse, Sinaper-lake, Oker Pink, Indico, Umber, Colens Earth, Spanish-brown, Ivory-black, Cherrystone-black.

III. The chief Colours to be wash'd are Red-lead, Masticot, Green Bice, Cedar Green, Ultramarine, Blew Bice, Smalt, Verditure.

IV. The chief Colours to be steep'd, are Sap-green, Saffron, Turnsole, Stone-blew, Venice Berries.

V. To grind Colours.

10.1.

ught at of this

Chalk

n toge. ttingit

amit as

Chalk,

of Saf.

m into

dletit

it up,

, and

it, then b when

Yellow

grind

ed your

HAP

Take the colour you would grind, and fcrape off from it all the filth, then lay it upon the ftone, and with the muller bruife it a little; then put thereto a little fpring water, and grind all together very well, till the colour is very fine; which done, pour it out into certain hollows or furrows cut in Chalk-ftone, and there let it lie till it is dry, which referve in papers or glaffes.

VI. To wash Colours.

Put the colour into a glazed veffel, and put thereto fair water plentifully, walk it well, and decant (after a while) the water; do this fix or feven times; at last put the water (being just troubled) into another glazed veffel, leaving the dregs at bottom : then into G this

Polygraphices. Lib.2.

Chal

Thi

are lo

tild,

W

Tello

kt. O

1-

Burk.

調

I

kep

Th

Long

1

言語

000

il

this fecond veffel put more fair water, walking it as before, till the water (being fettled) be clear, and the colour remain fine at bottom: we have taught another way at the twenty fourth Section of the eighteenth Chapter of this Book.

VII To steep Colours.

90

Take a quantity thereof, and put it into a fhell, and fill the fhell with fair water, to which add fome tine powder of Alom, to raife the colour; let it thus fteep a day and night, and you will have a good colour.

Where note, Saffron steeped in Vinegar gives a good colour; and the Venice Berries in fair water and a little Alom, or a drop or two of oyl of Vitriol makes a fair yellow.

VIII. To temper the Colours.

Take a little of any colour, and put it into a clean fhell, and add thereto a few drops of gum-water, and with your fingers work it about the fhell, then let it dry; when dry, touch it with your fingers, if any colour comes off, you muft add fironger gum-water: but being dry, if the colour glifter or fhine, it is a fign there is too much gum in it, which you may remedy by putting in fair water.

IX. To belp the defects.

Some colours as Lake, Umber, and others which are hard, will crack when they are dry; in this cafe, in tempering them add a little white Sugar-candy.in very fine powder, which mix with the colour and fair water in the fhell, till the Sugar-candy is diffolved.

X. These colours, Umber, Spanish-brown, Colen earth, Cherrystone, and Ivory-black, are to be burnt before they be ground or wash²d.

XI. To burn or calcine Colours.

This

Chap.23. The Manual Instruments. 91

This is done in a crucible, covering the mouth thereof with clay, and fetting it in a hot fire, till you are fure it is red-hot through: which done, being cold, wash or grind it as aforefaid

XII. To prepare Shadows for Colours.

0.2.

21125

d the

STO-

eigh.

fell.

lone

thus good

des-

little a fair

ilean.

and

litit

ᆀ

Her:

a fien

medy

hich cafe,

dyin

and

Hol-

Colen

Junic

This

White is shaded with Black, and contrariwise i Yellow with Umber and the Okers: Vermilion with Lake : Blew-bice with Indie : Black-coal with Rofet, &c.

CHAP. XXIII.

Of the Manual Instruments.

I. T HE manual Inftruments are four (by the fecond Section of the fifteenth Chapter of this Book) to wit, The Grinding stone and Muller, Pencils, Tables to Limn on, and shells or little glasses or Chinadiffes.

II. The Grinding stone may be of Porphury, Serpentine or Marble, but rather a Pebble, for that is the best of all others: the Muller only of Pebble, which keep very clean.

These may be eafily got of Marblers or Stone-cutters in London.

III. Choole your pencils thus: by their faffnels in the quills, and their tharp points after you have drawn or wetted them in your mouth two or three times; to that although larger yet their points will come to as fmall as a hair, which then are good; but if they fpread or have any extravagant hairs they are naught.

IV. To walk your pencils.

Allet

Polygraphices. Lib. 2.

Chal

FOT EL

11.

dian,

tind O

Mach-

cont

2002

IV.

the Ca

TAIK

FERA

1

W.

100

Res .

EX.

Uter

Ewa

Ling

祖臣

24

After using them, rub the ends of them well with Soap, then lay them a while in warm water to steep, then take them out and wash them well in other fair water.

V. To prepare the Table.

92

It must be made of pure fine passe-board, such as Cards are made of (of what thickness you please) very finely slick'd and glazed. Take a piece of this passe-board of the bigness you intend the Picture, and a piece of the finess and whitess parchment you can get (virgin parchment) which cut of equal bigness with the passe-board; with thin, white, new made starch, passe the parchment to the passe-board, with the outside of the skin outwardmost: lay on the flarch very thin and even; then the grinding stone being clean, lay the card thereon with the parchment fide downwards, and as hard as you can, rub the other fide of the passe-board with a Boars-tooth store field in a flick; then let it be thorow dry, and it will be fit to work or Limn any curious thing upon.

VI The shells holding or containing your colours, ought to be Horse-muscle shells, which may be got in July about Rivers sides; but the next to these are small Muscle-shells, or in stead thereof little China or glass vessels.

CHAP. XXIV.

Of Preparations for Limning.

I. I A ve two small glass or China-dishes, in either of which must be pure clean water, the one to wash the pencils in being foul; the other to tem-

per

Chap. 24. Preparations for Limning. 93

.2,

With

ttep,

T fair

ICh 25

ale)

attnis

, 2Dd

u can

gnels

made

with

tach

being

t fide.

r fide

IC AR

OUR,

ni tog

deare

China

either

te one

tem-

per

per the colours with, when there is occasion.

11. Befides the pencils you Limn with; a large, clean, and dry pencil, to cleanfe the work from any kind of duft, that may fall upon it, which one called Pitch-pencils.

111. A fharp Pen-knife to take off hairs that may come from your pencil, either among the colours or upon the work; or to take out fpots that may fall upon the Card or Table.

IV. A paper with a hole cut therein, to lay over the card, to keep it from duft and filth, to reft your hand upon, and to keep the foil and fweat of your hand from fullying the parchment, as alfo to try your pencils on before you use them.

Let the small glass, waters, pencils and pen-knife lie all on the right hand.

V. Have ready a quantity of light Carnation or flefh colour temper'd up in a fhell by it felf with a weak gum-water; if it be a fair complexion, mix White and Red-lead together; if a brown or fwarthy, add to the former, Mafticot, or Englifh Oker, or both: but be fure the flefh colour be always lighter than the complexion you would Limn; for by working on it you may bring it to its true colour.

VI. In a large Horfe-muscle shell place your several shadows (for the sless colour) in little places one distinct from another.

VII. In all shadowings have ready fome white, and lay a good quantity of it by it felf besides what the shadows are first mixed with : for Red for the cheeks and lips, temper Lake and Red-lead together : for blew shadows (as under the eyes and in veins) Indico or Ultramarine and white: for gray faint shadows, white, English Oker, sometimes Ma-

Chi

and in opabl

ITT I

graces

TRICK

ETAL I

IT DE

the

WAR

Bik

「「

in the 言語

but b

12 1

版目

动

015; these

Masticot : for deep shadows, white, English Oker, Umber: for dark fhadows, Lake and Pink, which make a good flefhy fhadow.

VIII. To make choice of the light.

94

Let it be fair and large and free from shadows of Trees or Houfes, but all clear Skie-light, and let it be direct from above, and not transverse; let it be Northerly and not Southerly; and let the room be close and clean, and free from the Sun-beams.

IX. Of the manner of litting.

Let your desk on which you work be Jo fituate, that fitsing before it, your left arm may be towards the light, that the light may strike fidling upon your work : Let the party that is to be Limned, be in what posture themselves will design, but not above two yards off you at most, and level with you; wherein observe their motion, if never so small; for the least motion, if not recalled, may in shore time bring on you many errors : Lastly, the face being finished, let the party stand (not fit) at a farther distance (four or five yards off) to draw the posture of his cloths.

CHAP. XXV.

J WESTING

Of the Practice of Limning in Miniture, or Drawing of a Face in Colours.

I. TO begin the Work. Have all things in a readinels (as before) then on the Card lay the prepared colour (answerable to the complexion prefented)even and thin, free from hairs and lpots, over the place where the Picture is to be: the ground thus laid, begin the work, the party While allow the provision to reside the main and go the to be being

4.118

Ch.25. The Practice of Limning, &c. 95

b.2.

Oker,

which

Trees

direct

1 884

2, 585

bat fitlight,

et tet

nfites

18, 2012

ever fo

fort

ing fr-

itance

all.

I

before)

werable

ee from

artisto

c party

being

being fet, which must be done at three fittings : at the first litting the face is only dead coloured, which takes up about two hours time: at the fecond fitting, go over the work more curioufly, adding its particular graces or deformities, fweetly couching the colours, which will take up about five hours time : at the third fitting, finish the face, in which you must perfect all that is imperfect and rough, putting the deep shadows in the face, as in the eyes, cye-brows, and ears, which are the last of the work, and not to be done till the hair curtain, or backfide of the Picture, and the drapery be wholly finished.

II. The operation or work at first fitting.

The ground for the complexion being laid, draw the out lines of the face, which do with Lake and white mingled; draw faintly, that if you mils in proportion or colour you may alter it : this done, add to the former colour Red-lead, for the cheeks and lips; let it be but faint (for you cannot lighten a deep colour) and make the shadows in their due places, as in the cheeks, lips, tip of the chin and cars the eyes and roots of the hair : fhadow not with a flat pencil, but by fmall touches (as in hatching) and fo go over the face. In this dead covering rather than to be curious, firive as near as may be to imitate nature. The red shadows being put in their due places; shadow with a faint blew, about the corners and balls of the eyes; and with a grayith blew under the eyes and about the temples, heightning the fhadows as the light falls, as also the harder shadows in the dark fide of the face, under the eye-brows, chin and neck. Bringall the work to an equality, but add perfection to no particular part at this time; but imitate the life in likenefs, roundnefs, boldnefs, posture, colour, and the like. Laftly, touch at the hair with a futable colour in fuch G curls. curls, folds and form, as may either agree with the life, or grace the Picture; fill the empty places with colour, and deepen it more ftrongly, than in the deepeft fhadowed before. chap

in, co

he gro Rehire

10.5

ables

101

IV. This

SUCC

12 200

into d

to the

thel

·A

m

his

2002

·L

Sin

h

富山

the sec

lunding

Lib. 2.

III. The operation or work at fecond fitting.

96 Palygraphices.

As before rudely, fo now you must fweeten those varieties which Nature affords, with the fame colours and in the fame places, driving them one into another, yet to as that no lump or fpot of colour, or rough edge may appear in the whole work; and this must be done with a pencil tharper than that which was used before. This done, go to the backfide of the Picture, which may be Landskip, or a curtain of blew or red Sattin: if of blew, temper as much Bice as will cover a card, and let it be well mixed with gum; with a pencil draw the out-lines of the curtain; as allo of the whole Picture ; then with a large pencil lay thinly or airily over the whole ground, on which you mean to lay the blew; and then with a large pencil, lay over the fame a fubstantial body of colour; in doing of which, be nimble, keeping the colour moiff, lefting no part thereof be dry till the whole be covered. If the curtain be Crimfon, trace it out with Lake; lay the ground with a thin colour; and lay the light with a thin and waterifh colour, where they fall; and while the ground is yet wet, with a ftrong dark colour tempered fomething thick, lay the firong and hard fhadows clole by the other lights. Then lay the linnen with faint white, and the drapery flat, of the colour you intend it. In the face, fee what shadows are too light or too deep, for the curtain behind, and drapery, and reduce each to their due perfection; draw the lines of the eye-lids, and fhadow the entrance into the car, deepnefs of the eye-brows, and eminent marks in the face, with a very tharp pencil: laftly, go over the Happone, inter a for the Dig to a 1 hair,

Chap. 26. Of Limning Drapery.

0.2.

th the

with

e dee.

thole

licors

other,

toge

ift be

uled

ture,

r red

CONCE

witha

of the nly or

an to V Over

ingot ng no

It the in the

vith a

while tem-

1 12.

innen colour

re too apery,

w the

tothe

nksin

T the

half,

246 田 41 4 1 1 1 1 1 3

hair, colouring it as it appears in the life, caffing over the ground some loose hairs, which will make the Picture stand as it were at a distance from the curtain : Thadow the linnen with white, black, and a little yellow and blew; and deepen your black with Ivery-black, mixed with a little Lake and Indico.

IV. The operation or work at third fitting.

This third work is wholly fpent in giving ftrong touches where you see cause ; in rounding, smoothing and colouring the face, which you may better fee to do, now the curtain and drapery is limned than before. And now observe whatsoever may conduce to the perfection of your work, as gesture, skars or moles, cafts of the eyes, windings of the mouth, and the like. TANKS THE YEAR MILT TO I

CHAP. XXVI.

Of Limning Drapery.

I. A Full and substantial ground being laid all over where you intend the drapery; as if blew, with Bice smoothly laid, deepen it with Lake and Indico; lightning it with a fine faint white, in the extreme light places, the which understand of other colours.

. II. If the body you draw be in Armour, lay liquid Silver all over for a ground, well dried and burnished ; Ihadow it with Silver, Indico and Umber, according as the life directs you.

III. For Gold Armour lay liquid Gold as you did the Silver, and fhadow upon it with Lake, English Oker, and a little Gold. And fan? To stin

IV. For

97

IV. For Pearls, your ground must be Indico and white; the shadows black and pink.

98

V. For Diamonds, lay a ground of liquid Silver, and deepen it with Cherrystone-black and Ivoryblack.

VI. For *Rubies*, lay a Silver ground, which burnish to the bignels of a Ruby: then with pure Turpentine temper'd with Indian Lake, from a small wire heated in a Candle, drop upon the burnished place, fashioning it as you please with your Instruments, which let lie a day or two to dry.

VII. For Emeraulds, or any green stone, temper Turpentine with Verdigriese, and a little Turmerick root, first scraped, with Vinegar, drying it, grind it to fine powder and mix it.

VIII. For Saphyres, mix or temper Ultramarine with pure Turpentine, which lay upon a ground of liquid Silver polifht.

To make liquid Gold or Silver, see the first Section of the twenty first Chapter of this Book.

CHAP. XXVII.

Of Limning Landskip.

A LL the variable expressions of Landskip are innumerable, they being as many as there are men and fancies; the general rules follow.

I. Alway, begin with the Sky, Sun-beams or lightest parts first; next the yellowish beams (which make of Massicot and white) next the blewness of the Sky, (which make of Smalt only.)

II. At

Chap

1.1

II.

rora ta

stite C

(about

IV.

COUT

100

Y.

紙

150

zels a

profp

調査

since

hint

giele

is not

Rist

额

Ł

Chap. 27. Of limning Landskip.

10.2

to and

Silver

Tion-

ch bur.

te Tur.

Imal

mithed

Infin-

emper

DETICK

and H

narine

ind of

Firm of

inter-

ghtek

make

Sky,

I. A:

II- At first colouring, leave no part of the ground uncovered, but lay the colours fmooth all over.

III. Work the Sky downwards, towards the Horizon fainter and fainter, as it draws nearer and nearer the earth : the tops of mountains far remote, work fo faint that they may appear as loft in the air.

IV. Let places low, and near the ground be of the colour of the earth, of a dark yellowifh, or brown green; the next lighter green; and fo fucceflively as they lofe in diffance, let them abate in colour.

v. Make nothing which you fee at a diftance perfect, by expressing any particular fign which it hath, but express it in colours, as weakly and faintly as the eye judgeth of it.

VI. Always place light against darkness and darkness against light, by which means you may extend the prospect as a very far off.

VII. Let all shadows lose their force as they remove from the eye; always letting the strongest shadow be nearest hand.

VIII. Laftly, Take Ifinglas in finall pieces half an ounce. fair Conduit-water two quarts, boil it till the glass is diffolved, which fave for use: with which mix spirit or oyl of Cloves, Roses, Cinnamon or Ambergriefe, and lay it on and about the Picture where it is not coloured (left it should change the colours: but upon the colours use it without the perfumes) fo it will varnish your Pictures, and give them a gloss, retaining the glory of their colours, and take from them any ill fent which they might otherwise retain.

accordingly in your draught give full gentle tone

W. Their parts are to be handler in your w

darkmels, and whether they fall forw

and after that heighten by degrees according as the

99

100 Polygraphices.

Lib. 2.

(hap.)

tid a Bertie

N Dia

hin pr

Fish

TINIT,

11 too

an W

WITS,

ime T

pet ti

104210

wirs.

B.UM

彼山

1012

11

ahi

ale.

this

the

mit

制政

mi

M

hate

mg:

appe IX

(1)

CHAP, XXVIII.

Of Light and Shadow.

I. Ights and fhades fet in their proper places in fuch a juft and equal proportion, as Nature doth give, or the life require, gives a true Idea of the thing we would reprefent; fo that t'is not any colour whatfoever, nor any fingle ftroak or ftroaks which is the caufe thereof, but that excellent Symmetry of Light and Shadow, which gives that true refemblance of the light.

II. In fhadowing, be careful you fpoil not your work by too großs a darknefs, whether it be hard or foft.

III. This Observation of light and dark is that which caufeth all things contained in your work to come forward, or fall backward, and makes every thing from the first to the last to stand in their just places, whereby the distance between thing and thing seems to go from you or come to you as if it was the work of Nature it felf.

IV. Suppofe it was a plaifter Figure, take good notice what appears forwards and what backward, or how things fucceed one another; then confider the caufe which makes them in appearance either to incline or recline, and confider the degrees of light and darknefs, and whether they fall forward or backward, accordingly in your draught give firft gentle touches, and after that heighten by degrees according as the exemple and your own ingenuity fhall direct.

v. Those parts are to be heighten'd in your work which

ib.2. Chap. 28. Of Light and Shadow. 101

which appear highest in your Pattern : The greatest life which we can give on white paper is the paper it felf, all leffer lights must be faintly shadowed in proportion to their respective degrees. But on coloured paper white Crions and Tobacco-pipe-clay are used for the first and second heightenings, putting each in their proper places, as more or lets light is required, which is a fingular observation in this manner of drawing. Then you must take heed you heighten not too many places, nor heighten any thing more then what is needful, nor too near the dark or thadows, or any out line, (except where you intend fome reflection,)left your work fhew hard and rough. In heightening, or fuch figures as require great light, put the greatest light in the middle, and the leffer towards the edges for the better perspicuity of your work. Laftly, leave fufficient panite places on the ground of your paper between your lights and shades that they may appear pleafantly with a fingular plainnefs and fmoothnefs.

actsin

Vature

Of the

olour

lich is

Light

of the

your

rd or

s that

ork to

every

tu ut

thing

asthe

nd no-

td, or

er the

10 10-

and and

ward,

iches,

25 the

WOIX

which

VI. In reflection, use it, in delineateing, glittering, or shining bodies, as Glass, Pearl, Silver, &c. let the cause of the reflection, be it more or less be seen in the thing it self.

VII. In plain drawing, lay all your fhades fmooth, whether it be in hatching or fmutching, keeping every thing within its own bounds, and this is done by not making your fhades at first too hard, or putting one fhadow upon another too dark

VIII. Observe that the greater parts of light and shadows, and the small parts intermixt in the same, may always so correspond as thereby to make more apparent the greater

IX. In Pictures, let the higheft light of the whole, (if any darkness stand in the middle of it) appear more

ch.30

ute of

T. Co

1150

and.

TI. C

in Satt

inte l

10. I

15WC

VII. not ea Sogar-

IX.

職記

au

如此

题(IT]

more dark then indeed it is: and in working always compare light with light and dark with dark, by which you will find the power of each, and the general use thereof in all operations.

X. We think it neceffary to fhew another way of making all forts of Crions or Pastills then what we taught in the beginning of this Book, Thus: Take Tobacco-pipe-clay and with a little water tempering the fame what colour you please making several according to the several heights you intend, which mix with the faid Tobacco-pipe-clay so much as the clay will bear, work all well together, make it into Pastills, and let them dry for use.

CHAP. XXIX.

Of Colours more Particularly.

paper between your lights and

I. O Ker is a good colour, and much in use for shadows, in Pictures of the life, both for hair and drapery: In Landskips it is used for Rocks and high ways.

II. Pink, the faireft, with blew, makes the fafteft greens for Landskip and Drapery.

Sap-green and green-bice are good in their kind; but the first is so transparent and thin, the other of so course and gross body, that in many things they will be useles, especially where a beautiful green (made of Pink and Bice mixed with Indico) is required.

III. Umber, is a greafic foul colour ; but being calcined and ground, it works tharp and neat.

IV. Spanifb-brown, is exceeding courfe and full of gravel; being prepared, it is used for a mixture made

Ch.30. Making Original Colours. 103

10.2.

always

IK, by

egene-

way of

SW ISC

Take

pering

tal ac-

bmx

ie clay

affilk,

T the

or har

as and

fafteft

kied; offo

w will

ade of

gal-

full of

sture

made

made of Red lead mixt with a little Umber, which makes the fame colour.

V. Collens earth or Terra Lemnia, it is used to close up the laft and deepeft touches in the fhadows of Pictures of the life, and in Landskips ; use it when new ground.

VI. Cherrystone-black, is very good for Drapery and black apparel : mixt with Indico, it is excellent for Sattin; it appears more beautiful or thining if mixed with a little white : if deepened with Ivoryblack, in hard reflections, and firong deep touches, it is wonderful fair.

VII. Ivory-black, it serves for a deep black, but is not easie to work without it be well tempered with Sugar-candy, to prevent peeling.

VIII. Red-lead well wash'd, is a glorious colour, for those pieces which require an exquisite rednefs.

IX. Indian-lake, is the dearest and most beautiful of all reds; it is to be ground as white-lead, and mixt with a little white Sugar-candy and fair water, till the colour and Sugar-candy be throughly diffolved, which being dry will lie very fast, without danger of cracking or peeling. Call and brie anorga burly aukning Will be well expressed.

CHAP. XXX. and you fhall have a fnow

Observations of making some Original aye all menner of Mo. Ernologies, Lones, Wood,

aller and bilver filings or roates, whit

I. TO make White-lead. Put into an earthen pot feveral plates of fine Lead, cover them with White-wine Vinegar, covering

Ch 3

IX.

Itis

let colo

X.

the be

water

of In

Walter

inala

XI.

lti

tripa

THE

Ceri

X

ti

there

Oser

COL W

XI

T

EW T

ble cl

Witt:

part 1

Water

toni

vering the top of the pot clofe with clay, bury it in a Cellar for feven or eight weeks, and you will have good white-lead upon the plates, which wipe off.

II. To make Verdigriefe.

T his is made by hanging plates of Copper over the fumes of Aqua-fortis or spirit of Nitre : or by dipping them in the same or in Vinegar.

III. To make an Emerald Colour.

Take Verdigriefe in fine powder, which temper with varnish, and lay it upon a ground of liquid Silver burnish d, and you have a fair Emerald.

IV. To make a Ruby Colour.

Mix the fame with Florence Lake, and you shall have a very fair Ruby colour.

V. To make a Saphyre Colour.

The fame, viz. Verdegriefe mixt with Ultramarine, makes a glorious Saphyre.

VI. To make a Crimfon Velvet.

Take Turnfoil and mix it with Indico-lake (well ground with gum and Sugar-candy) lay it full, and when it is wet, wipe away the colour with a dry pencil, where you would have the heightening of the Crimfon Velvet appear, and the ftronger reflections will be well expressed.

VII. To make a Silver Black.

Take fine Silver filings or plates, which diffolve in fpirit of Nitre or Aqua-fortis, and evaporate to drynefs,or precipitate with Oleo Sulphuris or Salt-water, and you fhall have a fnow white precipitate, which mixt with water makes the best black in the world, to dye all manner of Hair, Horns, Bones, Wood, Metals, &c.

VIII. To make a Murry or Amethyft.

It is made of Indian Lake ground with Gum-Arabick water only.

IX. To.

Ch.30. Making Original Colours. 109

IX. To make a Red or Ruby for Limning.

It is made of Indian-lake (which breaks off a Scarlet colour) ground with Gum-water and Sugar-candy.

X. To make Azure blem, or Saphyre.

ib,1

Vitin

Æ

Verth

ipping

temper Silver

1 frail

arine.

Well

l, and

y pen-

of the

ctions

www.in

odry-

water,

which

rld, to

- A12-

\$ Ta

It is made of Ultramarine of Venice (which is beft) the beft blew Smalt, or blew bice ground with gumwater only: you may make good fhadowing blews of Indico, Flory and Litmole, all which need no washing, nor Litmole no grinding, but only infused in a Lixivium of Soap-ashes.

XI. To make a green or Emerald.

It is made of Cedar green: in place whereof, take tripal to draw with: Pink is good alfo for Landskips, mixed with Bice-afhes; as alfo with Mafficot and Cerafe.

XII. To make a Tellow or Topaz.

It is made of Masticot which is the best, of which there is divers forts, viz deeper and paler: Yellow-Oker also for want of better may do. Shadow Masticot with Yellow-Oker; deepen it with Oker-de-rouse.

XIII. To make Ultramarine.

Take the deepeft coloured Lapis Lazuli (having few veins of Gold upon it) heat it red-hot in a Crucible clofe covered, then quench it in Urine, Vinegar of water, in a Leaded earthen pot dry it well, then with a pair of pinfers nip off the hard, gray, and whitift part from it, and grind the remainder with honied water as fine as may be, then dry it for ufe. The honied water is made of water a quart, boiled with honey two fpoonfuls.

H

CORE VOY LERES

CHAP!

Ch

tros

ista T

北日

64

the

100

1

in:

white be

ti

or fit

調査

Se

CHAP. XXXI.

The sum of the Ol wations of Limning to the life in general.

I. E T the Table be prepared very exact by the fifth rule of the twenty third Chapter of the fecond Book.

H. Let the ground be of fielh colour, tempering it according to the complexion to be painted.

III. If it be a fair complexion, mix a good quantity of Red and White Lead together somewhat thick.

IV. If fwarthy or brown, mix with the former a little fine Mafficot or English Oker, or both, always observing that your ground be fairer than the complexion painted.

For fairness may be shadowed or darkened at pleasure; but if it be sad or dark, you can never beighten it, for in Limning the piciure is always wrought down to its exact colour.

V. Lay the ground upon the Card or Tablet, with a larger pencil than ordinary free from fpots, fcratches of the pencil, or duft, and as even as possible may be; and let the colour be rather thin and waterish than too thick, doing it very quick and nimbly with two or three dashes of the pencil.

vI. This done, prepare your fhadows in order, by the feventh rule of the four and twentieth Chapter of the fecond Book.

VII. Then draw the out-lines of the face with Lake and white mingled together very fine; so that if you should

Ch.31. Limning to the Life, &c. 107

0.2.

y the

t the

ig it

yuan-

ser a

W3VS

-mo:

art i

a il

ensit

with

aches

ybe;

001 m

10 07

er, by ter of

Lake

f you

fhould miftake in your first draught, you may with a strong stroke draw it true, the other line by reason of its faintness being no hinderance.

These lines must be truly drawn, sharp and neat, with the greatest exactness imaginable.

VIII. Observe the most remarkable and deep shadows, to keep in memory when you go over them with more exactness; drawing out also (if you so please) the shape of that part of the body next adjoining to the face, viz. a little beneath the shoulders, with a strong and dark colour, which in case of mistake in proportion may easily be altered.

IX. The first fitting is to dead colour the face : the fecond fitting is the exact colouring and obfervation of the feveral shadows, graces, beauties or deformities, as they are in Nature : the third fitting is in making smooth what was before rough and rude; clothing what was naked, and giving ftrong and deepning touches to every respective shadow.

x. The dead colour is thus made.

Take of the aforesaid ground (at the third or fourth Section of this Chapter) and mix it with fine Red-lead, tempering it exactly to a dead colour of the cheeks and lips, having a great care, that you make it not too deep is mbich if light, you may do at pleasure.

XI. The face is first begun to be coloured in the reds of the cheeks and lips, and fomewhat strongly in the bottom of the chin (if beardless) also over, under, and about the eyes with a faint redness.

XII. The ear is most commonly reddift, as also fometimes the roots of the hair.

XIII. The ground being wash'd over with this H 2 reddiffi

Ch.

XL

DOUL (

ane

Corta

XX

pered

lame

and

with

NET TO

city II and C

X

plai

fall

Will

Tila

XY

0000

20 1

imoo

FERCI

sithe

ath

LERS

12

(TED

in

82

reddifh or dead colour, let the fhadows be as well bold and ftrong as exact and curious.

A good Picture, if but dead coloured only, and seeming near hand very rough, uneven and unpleasant, yet being boldly and strongly done and shadowed will appear very (mooth, delicate, and neat if but viewed at a diffance I berefore curiosity and neatness of Colour, from theeve. is not so much to be regarded, as bold, lofty, and strong expressing what is seen in the life.

XIV. The next thing to be done is the ule of the faint blews, about the corners and balls of the eyes and temples, which you must work out exceeding fweetly, and faint by degrees.

XV. Always be fure to make the hard fhadows fall in the dark fide of the face, under the nofe, chin, and eye-brows, as the light falls, with fomewhat ftrong touches.

XVI. The light fhadows being done and fmoothed, work the hair into fuch forms, curlings, and difpolitions as belt adorn the piece.

First draw it with colours, neatly and to the life; then wash it roughly as the rest; and the next time perfect it: filling up the empty places with colour, and the partings thereof with blem.

XVII. And ever remember, when you would have your colours or thadows deep, firong, and bold; that you do them by degrees beginning faintly, and then encreafing the fame.

XVIII. First, use the former colours in the fame places again, driving and fweetning them into one another, that no part may look uneven, or with an edge, or patch of colour, but altogether equally mixt and disperfed, lying loft and smooth, like smoak or vapourse

XIX. Se-

Ch.31. Limning to the Life, &c. 109

2.

all

ing

try

215

ær,

Rig .

the

ind ly,

11

200

ng

th-

lif-

ber.

in:

ngs

110

that

hen

mê

10-

ige,

12-

Se.

XIX. Secondly, this work being done for an hour or two, lay the ground for behind the Picture of Blew, or Crimfon, like to a Sattin or Velvet Curtain.

XX. If blew, let it be done with Bife well tempered in a fhell: First draw the out-lines with the fame colour, with a finall pencil: then with a thin and waterish blew wash over the whole ground with a larger pencil: lastly, with thicker colour cover the fame which you before wash'd, swiftly, that it dry not before all be covered, fo will it lie smooth and even.

XXI. If Crimfon, work with Indian-lake, in those places where the ftrong lights, and high reflexions fall: let the light be done with thin and waterish Lake; the deepning and ftrong shadows, close by the light with thicker colour: this done, the Picture will be much changed; the beauty of these grounds will much darken and dead it.

XXII. Let the apparel with fuitable colours be done only flat with heightning or deepning; and then go over the face again, reducing the fhadows to finoothnefs and neatnefs with a fharp and curious pencil: drawing the eyes, the lines of the eye-lids; rednefs of the noftrils; fhadow of the ears; deepnefs of the eye-brows, and those other remarkable marks of the face : fo freetning the out-lines of the face (by darkning the ground, above from the light fide, and below on the dark fide) that when the work is done, the ground may stand as it were at a distance from the face bebind; and the face may feem to stand off forward from the ground.

XXIII. Then go over the hair, making it light or deep by the life : and in apparel make the feveral folds and fhadows, and what elfe is to be imitated, as it is in the

Ch

17

1H

4.00

141

fill

WIN.

Tab

加曲。

Tab

日本

三日間

ing

the life it felf; lightning the lines with the pureft white, a little yellow, and fome blew; and deepning with Ivory black, and heightning with black mixed with a little Lake or Indico.

110

XXIV. This done, and the perfon gone, your work being yet rough, by your felf polifh it, and firive to make it fmooth and pleafant, filling up the empty places, and fweetning the fhadows, which yet lie uneven and hard.

XXV. The apparel, hair, and ground being finifhed, now give firong touches for the rounding of the face; and obferve whatfoever may conduce to likenefs and refemblance, as moles, finilings, or glancings of the eyes, motion of the mouth, &c. for which purpofe, you may find an occafion of difcourfe, or caufe the perfon to be in action, and to look merrily and cheartully.

XXVI. Laftly conclude, that the eye gives the life; the nofe the favour; the mouth the likenefs; and the chin the grace.

XXVII. In fair coloured drapery, if the lightning be done with fine fhell Gold, it will add a most wonderful lustre, and be a fingular ornament to your work; and if this Gold be mixt with the very ground it felf, the apparel will appear much the fairer.

CHAP.

Chap.32. Limning Landskip, &c. III

CHAP. XXXII.

Of Limning Landskip, more particularly.

I. TO make the Tablet for Landskip.

1.2,

neft ing Xed

VOIN

10151 TPIY -00

fini-

the

ine-

ings

per-

and

lifei

d the

tning

won-

ork;

felf,

AP.

Take a piece of Vellom, and share it thin upon a Frame, fastning it with past or glew, and pasting it upon a board ; and this manner of Tablets are altogether used in Italy for Landskip, and History.

II. If you draw a Landskip from the life take your station from the rife of ground, or top of an hill, where you shall have a large Horizon, marking your Tablet into three divisions downwards from the top to the bottom : then your face being directly opposed to the midft of the finitor, keeping your body fixed, depict what is directly before your eyes, upon your Tablet, on your middle division, then turning your head (not your body) to the right hand, depict what is there to be feen ; adjoining it to the former. In like manner doing by that which is to be seen on the lefe band, your Landskip will be compleated

III. Make every thing exact, not only in respect of diftance, proportion and colour; but also in respect of form, as if there be Hills, Dales, Rocks, Mountains, Cataracts, Ruines, Aqueducts, Towns, Cities, Caftles, Fortifications or what foever elfe may prefent it felf to view; making always a fair Sky, to be feen afar off ; letting your light always descend from the left hand to the right.

IV. In beginning your work, first begin with a large Sky ; and if there be any fhining of reflexion of the Sun, beware you mix no Red-lead in the Purple Ož

112 Polygraphices.

Chap

IST 2

記記!

ently,

ATTEL T

wite

stin 2

X

ter dil

ral lo

gneat t

toll 2

the o

KID3

TENCO

11 11

001

0

17

Gra

四日 (1)

Ridd

四

Lib.2

of the Sky, or Clouds, but only with Lake and white: the yellow and whitish beams of Sol work with Maflicot and white.

V. Then with a fresh or clean pencil finish the blewish Sky, and Clouds, with Smalt only: at the first working, dead all the work over, with colours fuitable to the Air, green Meadows, Trees, and ground, laying them somewhat smooth, not very curiously, but slightly and hastily; make a large Sky, which work down in the Horizon, faintly, but fair; and drawing nearer to the earth, let the remote Mountains appear fweet and misty, almost indistinguishable, joining with the Clouds, and as it were lost in the Air.

VI. The next ground colour downwards muftencreafe in magnitude of reafon, as nearer the eyes, fomewhat blewifh or Sea-green: but drawing towards the first ground, let them decline into a reddifh or popinjay-green: the last ground colour, must be mearest the colour of the earth, viz. a dark yellow, brown and green; with which, or fome colour near it, you must make your first Trees; making them, as they come near in distance, to encrease proportionably in colour and magnitude, with great judgment: the leaves flowing and falling one with another, fome apparent, others lost in states.

VII. Let your Landskip lie low, and as it were under the eye (which is most graceful and natural) with a large and full Sky not rifing high, and lifting it felf into the top of the piece, as some have done.

VIII. Be fure to make your fhadows fall all one way, viz. to make light against darkness, and darkness against light; thereby extending the prospect, and making it to shew as afar off; by losing its force and vigour, by the remoteness from the eye.

IX. In touching the Trees, Boughs, and Branches,

Chap. 33. Degrees of Colouring. 113

10.2

white:

Ma-

ih the

ne firft

utable

i, lay-

y, but

WORK

Wing

ppear

ining

ulien-

cycs,

-01 8

ddifh

ult be llow, near m, as

mably t: the

le ap-

reun-

with

it felf

ODC

dara-

lpett,

force

iches,

Put

put all the dark fhadows firft, raifing the lighter leaves above the darker, by adding Mafticot to the dark green, which may be made with Bice, Pink, and Indico : the uppermost of all, express last of all, by lightly touching the exteriour edges of some of the former leaves, with a little green, Massicot, and white : the darkest shadows you may set off with Sapgreen and Indico.

X. Trees and their leaves, Rivers, and Mountains far diftant, you must firive to express with a certain real foftness and delicateness: in making Cataracts, great falls of Waters, and Rocks, you must first lay a full ground near the colour, then with a fironger in the dark places, and flight heightning in the light; remarking all disproportions, cracks, ruptures and various representations of infinitely differing matters; the manner whereof is abundantly express, in almost every Landskip.

CHAP. XXXIII.

Of the various Forms or Degrees of Colouring.

I. T Here are four various Forms or degrees of colouring, viz. 1. Of Infants, or (bildren. 2. Of Virgins, or fair Women. 3. Naked bodies. 4. Old or aged bodies.

11. Infants or young children are to be painted of a foft and delicate complexion; the Skin and ears of a ruddy and pleafant colour, almost transparent; which may be done with White-lead, Lake, and a little Redlead; shadowing it thin, faint and soft; letting the Checks,

山外

tal P

SIL

of

IF

他四

WELK

latt b

ULDUIT

ant.

NI D

飲い

町

前面

氯(

L

此

nd :

I

-

「「「「「

W

cheeks, lips, chin, fingers, knees, and toes, be more ruddy than other parts; making all their linnen very fine, thin, and transparent, or perspicuous, with strong touches in the thickes folds.

III. Virgins and fair women are as curiously to be express'd as the former, but their Muscles are to be more apparent, their shape more perfect; and their shadows to be of a whitish yellow, blewish, and in some places almost purple; but the most perfect and exquisite direction is the life, which ought rather to be followed than any thing delivered by rule.

IV. Naked bodies are to be painted firong, lively, and accurate; exactly matching the refpective pairs of Mufcles and Nerves, fixing each Artery in its due and proper place, giving each limb its proper motion form and fituation, with its true and natural colour; all which to do well may be the ftudy and practice of almost ones whole life.

V. Old or aged bodies ought to be eminent for exact and curious thadows, which may be made of Pink, Lake, and Ivory-black, which make notable thadows, in appearance like the wrinkles and furrows of the face and hand in extreme old age: let the eyes be dark, the afpect melancholy, the hair white(or elfe the pate bald) and all the remarks of Antiquity or age be very apparent and formidable.

VI. But notwithstanding all the aforegoing rules, the posture or form of standing, and being either of the whole body, or any of its parts, ought diligently to be observed, that the life may be imitated, in which, it only lies in the breast and judgment of the Painter to set it off with such various colours, as may best best the respective complexion and accidental shadows of each accidental

Ch.34. Of Limning the Skie, &c. 115

ib.2.

ê more

ED VERY

With

to be

d their and in

perfect ought

red by

lively,

te pairs

its due

notion

blour;

ractice

exatt

Pink,

idows,

of the

eves be

ellethe

526 10

niles,

either

ht di-

imit?

judg-

Varie

com.

2007

dental polition or posture, which are sometimes more pale, sometimes more ruddy; sometimes more faint, sometimes more lively.

CHAP. XXXIV.

Of the Limning of the Skie, Clouds, &c.

• FOR a beautiful Sky, fitted for fair weather, take Bice tempered with white, laying it in the upper part of the Sky, (as you fee need) under which you may lay a thin or faint purple with a fmath foft brufh : working the undermost purple into the uppermost blew; but fo as that the blew, may ftand clear and perfect : then for the Horizon or near the fame lay a fine thin Massicot, which work from below upwards, till it mix with the purple : after which you may take a stronger purple, making here and there upon the former purple, as it were the form of Clouds, as nature requires : upon the Massicot you may alfo work with Minium mixed With Ceruse, to imitate the fiery beams which often appear in hot and clear Summer weather.

II. To imitate glory, with a great fhining light of a yellowifh colour or the Sun beams, you must take Masticot, or Saffron mixt with Red-lead, and heightned with shell gold, and the like.

III. A Cloudy Sky is imitated with pale Bice, afterwards fhading the Clouds with a mixture of feveral colours: a fair Sky, requires clouds of a greater fhade, with purple: the clouds in a rainy Sky, mult be fhaded with Indico and Lake: in a night Sky, with black and dark blew fmoaky, making a blaze with purple,

116 Polygraphices.

purple, Minium and Cerufe: the clouds in a Sun rifing or fetting must be done with Minium, Cerufe and purple, making underneath the clouds feattering stroaks, with Minium and Massicot, or Minium and Sasseries, for that the featterings upwards may appear faint: and below, afar off near the Landskip, somewhat fiery.

Lib.2.

A. I

「「「

15

1

R.

1

214

11

20

上田

Qié

IV. A fiery Sky, let be made with a pale blew, fmoothing it downwards, which after wards, you muft mingle with a ftrong Red-lead, mixt with Cerufe, making long diminitive ftroaks like the Sun beams upon the blew Sky, with which let fall fome purple ftroaks, much like the faid beams: laftly, fweeten one into another with a foft brufh pencil, wet in gum-water, not too ftrong.

V. Lastly, you may make a fair Sky, by using fair Bice alone, and tempering it by degrees with more, and more white, smoothing one into another, from above downwards, and shading it as you shall see reason and nature require.

CHAP. XXXV.

A STATISTICS FOR STATISTICS IN STATISTICS

Of the Limning of Towns, Castles, and Ruines.

I. Those Towns, or Citics, which seem at farthest distance, must have but little shadowing or heightning, and sometimes none at all : these if they appear against the Sky, must be laid with Bice, and a little purple, and shaded faintly with a good blew. II. Those which lie at a farther distance, must be laid

Chap. 36. Of Mountains, &c.

ib.2.

n a Sun

, Cerule

attering

um and

appear

, lome.

e blew,

ith Cehe Son

l fome laftly,

all, wet

ing fair

more,

, trom

fee rea-

na

fartheft

ving or

if they

C. 201

blew.

muftbe

13:6

laid with Bice and purple as aforefaid, and shaded with light blew, and heightned with white.

117

III. Those which appear at an ordinary distance, must be done with Vermilion and purple, and shaded with a strong purple shaded with white.

IV. Those which are near, must be done with Vermilion and white, and then shaded with a strong Vermilion and brown Oker, mixt with white.

CHAP. XXXVI.

Of Mountains, Hills, and the like.

I. T Hofe Mountains which are next in fight, muft be laid with a fair green, and fhaded with Sap-green; fometimes with brown Oker, and French Berries, to diffinguish them from such as are farther off.

II. Such as lie farther off, must be laid with green, blew, and Masticot, and be shaded with blew, green, and Verdegriese.

III. Such as lie yet farther, must be laid with fome ftrong blew, white, and Bergh-green, and shaded with strong blew.

IV. Such as lie yet farther, must be laid with firong blew and white, and shaded with blew only.

V. Such as lie yet farther, with Bice and white, and shaded with Bice.

VI. Such as lie farther off, are only laid with white, and fhaded with a faint Bice.

VII. Fields being near, must be done with a fingular good green, the which must always be faintest, according as they are farther diffiant; heightning them with

ch.38

tich

in a lu

VI.C

100 200

111

Trees

ĩШ.

tist with (key min)

IX, S dico any

and that

F

鼺

設法

加加

输行

man :

tin L

a link

1

brown

Oler:

Wha

II.

with Massicot, or a light green, and shading with Sapgreen, but not too much: those which lie far, are to be laid with a French berry yellow, made of a blew greenish, shaded with Oker.

VIII. And in Fields, Hills, and Dales (whether near, or far off) there are many roads, passages, and ways, which must be laid either fainter or stronger according to their distance and situation.

CHAP. XXXVII.

Of Trees, Boughs, Cottages, and the like.

I. Hofe Trees of divers colours which ftand up-

I on the fore ground, must be laid with divers colours as with Verdegriese, mixt with other greed, or with Massicot, and Bergh-green mixt, and then shaded with Sap-green; which you may heighten with Massicot, mixt with White-lead.

II. If they appear yellow, use Verdegriese and Mar flicot mixt, and shadow with Verdegriese.

III. If they be of a whitefh colour, let them be laid with Verdegriefe mixt with White-lead, and thade them with Verdegriefe mixt with Indico faint ; heighten them with Cerufe, that they may look of a faint yellow green; or elfe with a little Indico and yellow.

IV. Those which stand at a great distance, lay with Indico, and white; and shadow with Indico, and heighten with the same made a little lighter.

V. If Trees be very old with mofs upon them, give them the appearance of green and yellow, which commix of Pink, and Bergh-green: if they be of a whitefh

Ch. 38. Colouring Naked Figures. 119

ib.2.

ith Sep

, are ti

ta blew

whether

885, 2ml

nger ac.

like.

and up-

reed, or

en with

and Ma-

thembe

d, and

fant's

ok Gi a

ICO and

ice, lay

Indico,

nter.

them, which

be of a

whiteh

whitefh yellow, do them with Pink and white mixt with a little green.

VI. Country Cottages lay with light Oker, which order according to the newnefs or oldnefs of the building.

VII. Cottages of Timber, let be laid of the colour of Trees and Wood-work.

VIII. Thatcht Cottages if new, lay with Pink, fhadow with brown Oker, and heighten with Massicot mixt with white: but if old, lay them with brown Oker mixt with white, and heighten with the same.

IX. Straw colours at a diftance are done with Indico and white, mixt fometimes with brown Oker, and fhaded with Indico.

CHAP. XXXVIII.

Of the Colouring of Maked Figures.

I. F O R Women and Children, take the beft Flake, White-lead, and a little good Lake, with which if you pleafe you may mix a little Vermilion, but take heed that your mixture be neither too red or too pale, but exactly agreeable to the life it felf; the which in this cafe is the beft director: this being dry touch the lips, cheeks, chin, fingers, and toes with thin Lake, and then heighten with white mixt with a little Lake or Vermilion.

II. But if you would cover them fomewhat brownifh, mix with your Carnation, a little brown Oker; and fhade it with Red-Oker, and coal-black with a little Lake.

III. In old Women take White, Vermilion and brown-

Chap

17

with 1

making

II.

or La

H

oatr a

lottett

IV.

and det Maltico

V. (height

VL hight

IT

CHAP.

Brown-Oker, and give the luftre where it ought to be with Vermilion mixt with a little Lake: fhade it with Red-Oker and Lake, or with Wood foot, or Lamp-black, and heighten with white mixt with a fmall quantity of Vermilion.

IV. Dead Children and young Women, paint with Brown Oker, white and fome Vermilion, and fhadow the fame with the foot of wood.

V. Dead old Women colour with Brown-Oker mixt with a little white, which fhade with a thin foot of wood first, then with a stronger.

VI. Young men paint with Cerufe, Vermilion and Lake, making it a little browner than for young Women; giving them luftre with Vermilion and Lake, fhadowing with Lamp-black and Brown-Oker; and heightening with Cerufe and Vermilion.

VII. Old Men Limn with Vermilion, Brown-Oker, and white; fhade with foot and Lamp-black heighten with Vermilion, Brown-Oker, and white, and give it a luftre with Lake or Vermilion.

VIII. Dead men colour with Brown-Oker, white, and a little Vermilion, as your diferentian thall inform you, and thade with foot, or Lamp-black mixt with a little Cerufe.

IX. Devils, Satyrs, and the like Limn with Brown Oker, mixt with a little white and red, which mixture let be made fome part whiter, fome part browner; and ftrongly fhade it with foot, as your own ingenuity may inform you.

Chap. 40. Of Walls, Chambers, &c. 121

and white firedo is with pupple: or with Lake and

10.1

onght : fhat

loot, or

With

nd that

n-Oker

a thin

On and

Voung

ta and

2.Oler

Oker,

heigh-

16, 20d

white,

hall in-

txim to

Brown

rowact;

HAP

CHAP. XXXIX.

Of the Colouring of Hair.

I. THE Hair of Women and Children is coloured with fimple Brown-Oker, and heightned with Mafticot: The fame in the hair of men, only making it fadder or lighter as the life requires.

II. Hair which is black may be done with foot, or Lamp-black, but it will abide no heightning.

III. Childrens Hair is fometimes laid with brownoker and white, and heightned with the fame; and fometimes with Alom.

IV. Sometimes also they are done with light-oker, and deepned with brown-oker, and heightned with Massicot simple.

V. Old Womens Hair with brown-oker and black, heightned with brown-oker and white.

VI. In Grey Hair take more black than white, and heighten with pure white.

be carefully obferved.

CHAP. XL.

Of walls, Chambers, and the like.

FOR a brick Wall take Vermilion and white, and shadow with Red-oker.

II. If the ground of the wall is laid with black and white, shade it with a thin black, if with Red-oker and

and white, shade it with purple: or with Lake and black, or Red-oker simple.

Cha

ofWo

LI

ner

So

thin

fel

金い

min

hei

with

Wa

light

III. If it be laid with black, white, and purple, fhade it with purple and black.

VI. If the wall belongs to any Chamber or Hall, having Figures or Statues; fo order and temper your colours, with fuch diffinction, that the Figures and Wall be not drowned in eachother.

V. Sandy fore grounds do thinly with brownoker, fad or light as the life prefents; fhadow the fame with the fame brown-oker, and Rocks with Red-oker, according as they are near to, or far from the fight.

CHAP. XLI.

Of Marble Pillars, Rocks, and the like.

I. M Arble must be done with a good and light pencil, after a careless manner in imitation of Nature, wherein all such stains, colours, veins, and representations of the faces of living things must be carefully observed.

II. The like is to be obferved in Rocks, of Sandy colours, and ragged forms; which if feen at a great diffance, must be coloured with a thin Bice, and then heightned with purple and white, and shaded with Smalt, or a deep blew.

III. If they feem near, colour them with brownoker mixt with white, which go over again with Vermilion mixt with white, after which lay here and there fome Verdegriefe mixt with fome other green.

IV. Is these works you must make spots, stains and breakings,

Chap.42. Colouring of Metals. 123

1.2.

and

uple,

Hall,

your sand

own-

with

trom

light

tation

muft

Sandy

great d then with

OWD-

with re and

TEEL

kings,

breakings, with hatchings, which shade with the foot of Wood or Lamp-black mixt with a little white.

CHAP. XLII.

Of the Colouring of Metals.

1. F OR Gold colour, take Red-lead, Saffron, and very light Oker, with which colour all manner of Cups. Difhes and the like, which thade with foot, and heighten with thell Gold.

II. For Silver, lay a thin white, which fhade with a thin blew, mixt with a little black, and heighten with fhell Silver.

III. For Tin and Iron, take white and Indico, fhade it with Indico and Bice, and heighten with white or fhell Silver.

IV. For Brass, take thin Pink, fhade it with Indico mixt with green, or with almost all Indico, and heighten it with shell Gold.

V. For Copper, take Red-oker and white, fhade it with Red-oker, and heighten with Red-oker and white, heightning also here and there, where the light falls with shell Silver.

an ale mi sie mi starikaris in ale mi ale mi

A STATE OF AN AVER STATE

Service of a statute and a statute of the state

CHAP,

CHAP. XLIII.

breaking, with fanchings, which findle with the foot

124

Polygraphices. Lib.2

Ch.

Red-II

ala F

and L

vill with l

IX.

Minit

X

whit

and

F

言言

四一一一一

I

bec

Of the Colouring of Flowers.

I. THE Tulip, draw it first with black-lead upon a white ground, then shade it a little (as for a white Flower) with thin Indian Ink, or with green yellow Ink, or with black-lead ground with thick gum-water; then lay on your several colours retembling Nature, which being dry, shade with a higher colour, and then farther shadow it, according to the nature of the Flower: so that being finished it may be like shame, red, blew, lake, purple, spotted, or otherwise, in imitation of the life.

II. The Damask Rofe, lay with Lake mixt with white, fhadow with the fame mixt with thin Lake; and heighten with white.

III. The green leaves are done with Verdegriefe mixt with fome French berry green, fhade it with Verdegriefe mixt with Sap-green; the stalks lay fomewhat browner with brown-oker.

IV Red Rofes do with fine Lake mixt with white, fhade it with brown Lake, and heighten it with Lake mixt with white.

V. White Rofes colour with Flake Lead, fhade it with white and black but the chief fhadows with a ftronger black) and heighten with white.

VI. The little thrums (which fome erronioufly call feeds) in the middle of the Rofe, lay with Mafticot, and fhadow with Minium, and heighten with white.

VII. The Clove-gilliflower is done almost like the Red-

Ch.44. Of Radifbes, Turneps, &c. 125

0.2

i upon

asfor

green

thick

IS IC-

ight

tothe 11 may ed, or

with Lake;

griele

t with is lay

white,

Lake

adeit

with a

iouily

Ma-

with

kethe

Red-

Red-rofe : the specking or spotting of it is done with Lake; those which are lighter, with a lighter red upon a pure white; those like flames with Vermilion and Lake, which shade with a stronger Lake; and fpeck the white with Lake and Vermilion, to refemble the life.

VIII. The green stalks, or branches and leaves lay with Bergh-green, and shade with Sap-green,

IX. The Marigold do with yellow Orpiment and Minium, shadow with Vermilion and Lake mixt with Minium; and heighten with white and Mafficot.

X. Corn-flowers lay with blew mixt with fome white, fhadow with Indico, and fhadow with blew and white.

CHAP. XLIV.

Of Radifbes, Turneps, Melons, Cucumers and Cabage.

I. D Adifhes are done with white, fhaded with Lake, and as it were behind fweetned with purple, and fometimes with green from the top downwards : The green leaves at top with Verdegriefe mixed with Sap-green, fhaded with Sap-green, and heightned with Masticot.

II. Turneps are laid with white, fhaded with foot; the leaves as the Radifh leaves.

III. Yellow Melons with yellow, fhaded with brown-oker; the veins with a ftronger brown-oker, and then heightned with white.

IV. Green Melons with Indico mixt with Verdegriefe 13

Char

tion to

Fruit

V.

in d

bernit

are.

VI

diam'

I WI

with with

WD.

grit

and

Chier, IX

heig

had

X

10

tin

Wit

1114-24

griefe and Sap-green, shaded with Sap-green and Indico; and heightned with Massicot.

126

V. Cucumers, the ends with a thin yellow, the middle with green, fweetned the one into the other, and fhaded with Sap-green; but the whole fruit with brown-oker, the fpecks lay with red and black to the life

VI. Cabage white, with very thin yellow, and in fome places with very thin green (or yellowifh green) fweetning with very thin brown-oker mixt with Sapgreen; heighten with pure white.

VII. Cabage red, lay with purple, shade with Lakmus, and heighten with purple mixt with white.

CHAP. XLV.

How to Colour Fruits.

I. CHerries, with Vermilion and fome Brazil, fhade with Lake, heighten with Vermilion mixt with white.

II. Heart Cherries in the middle with Vermilion and Lake mixt with white, the Circumference remaining whitish, here and there sweetning them with Lake, and heightning with white, or mixt with a little Lake.

III. A Pear with Massicot, shaded sweetly with brown-oker; its blush with Lake not too high, heighten with white.

IV. Apples with a thin Mafficot mixt with Verdegriefe, fhade them with brown-oker, and give their blufh with a thin or deep Lake (refembling Nature) and heighten with white : if you will have

the start of the start of the start of the start of them

Chap. 46. Of Colouring Fruits.

).2.

d'In-

v, the other,

with

tothe

and in

(reen)

1 Sap-

with

white

Stazil,

milion

milion

ce 16-

n with

witha

r with

heigh-

h Ver-

d give

mbling

ill have

them very high, mix your white with fome Mafticot, but this muft be according to the condition of the Fruit whether ripe or unripe, red, yellow or green, or.

V. Mulberries with a very firong Brazil, and then lay'd over with black, fo that between the stalks and berries they may look a little rediss according to Nature.

VI. Strawberries with a white ground, which draw over with Vermilion and Lake very thin; fhade it with fine Lake, and heighten with Mafficot mixt with Minium; and then with white only fpeck them with Lake, by one fide of which put a smaller speck of white.

VII. Wall-nuts with their green on, with Verdegriefe mixt with Sap-green, thade with Sap-green and a little white.

VIII. Wall-nuts with out their green, with brownoker, shaded with soot.

IX. Blew Plums with purple, fhadowed with Bice, and about the ftalks with a little green, well fweetned; heighten with purple and white.

X. White Plums and Peaches with thin Masticot, shaded with brown-oker; give them a blush with Lake and heighten them with white.

XI. Red and Blew Grapes with purple, shaded with blew, and heightned with white.

XII. White Grapes with thin Verdegriefe (called alfo Spanish green) mixt with Massicot, shadow with thin Verdegries is and heighten with Massicot mixt with white.

assisted being workers the maked akin of his o

127

128

CHAP. XLVI.

Ciep.

副故 the La di min

NL 1010-0

FIL. at, t

kinade

it erd

an with

WIII

ant W

thers I

let his

Suffrom

箇.

IX 1

nd int

此日

mL

X.

Exed

Out at

Fin.

13.

will

Of the Limning of Fowles.

"HE Eagle with black and brown-oker, fhadow it with black, the feathers heighten with brown-oker mixt with white: the bill and claws lay with Saffron and shade it with foot or Lamp-black : the eyes with Vermilion heightned with Masticot, or with Saffron shaded or deepned with Vermilion ; let the talons be done with black.

II. The Swan with white mixt with a little black, heighten it with fine and pure white, fo that its plumes or feathers by that heightning may look well: the legs with a black colour : the bill with Vermilion, fhaded with Lake: the eyes yellow with a black round in the middle; from which falls a blackifh vein, defcending to the bill.

III. The Goofe with more white than black, viz. a light grey, heighten it with a grey white; the legs with black : the bill like the Swan.

IV. The Duck with a light grey, the head with a dark blew, and dark green neck fweetly enterwoven, the belly with white, the legs with black mixt with a little white, Ge. but be fure to imitate the life.

V. The Turkey with black mixt with a little white, from the back towards the belly whiter by degrees, but the belly speck with black, and in like manner the wings: let him be fhaded with black, the wings with Indico, fhaded with fironger Indico; the bill with black, the eyes blew, heightned with white. He being angery the naked skin of his neck Warner - The or the part has shared to the 1 1.2

Chap.47. Limning of Fowles. 129

6.2.

t, Cha-

1 with

WS AV

plack:

10, 10

a; let

black,

ames : the

, tha-

ound

1, de-

i, Diz.

; inc

tith a

oven,

with

little erby

n like

s, the

dicoi with neck Will will be blood red, which lay with Vermilion mixt with Lake, shaded with Lake : but otherwise lay it of a whitish blew colour.

VI. The Griffon with Saffron, fhadowed with brown-oker or foot.

VII. The Pheafant with grey made of white and black, the feathers of a white grey, the whole muft be shaded with black, and heightned with pure whites the eyes like the Folcon, the legs with Pink, and fhaded with black. but a second s

VIII. The Falcon with brown-oker, and black mixt with white, and fhadowed with black, the feathers must be pleafantly drawn with black, and sprinkled upon its breasts; heighten it with white. let his talons be black, above the eyes lay with Saffron, and shade with Vermilion, the bill with grey.

Ix. The Stork with grey, heightned with white. and the corners of his wings (near one half) with black his long bill and legs with Vermilion, shaded asta dirigo . with Lake.

X. The Owl with Ceruse, black and foot, fhadowed with foot, and heightned with yellow-Oker and white, fometimes white alone, the eyes yellow, circled with white, the legs of a brown yel. low, I has good dity white mile bar last foot in black and foor, and hele tund with the twee

with a little more white, the nist at the work inwardly mail he hid with Vamilian

V-94 E 07 201

Coloured as the Plantane Pres

minutes the impervation of the cars. CHAP.

CHAP. XLVII.

will be blood red, which lay with Vermilion mise

I The silver off off and intervile say it

130

Polygraphices. Lib.2.

Of Limning of Beasts.

I. S Heep with a thin white, fhaded with Indico and foot, and heightned with white.

II. Hogs with brown-oker, fhaded with foot, and heightned with Mafficot: you may as you fee occafion colour the hair here and there with ftronger brown-oker; his eyes with Vermilion, which heighten with Mafficot, his mouth with Indico, or white and black, fhaded with black.

III. A Bear with brown-oker, red-oker, and black mixt; fhadow with foot alone, or mixt with black, and heighten with brown-oker and white.

IV. A Wolf with brown-oker and foot, fhadow with more foot.

V. A grey Wolf with black, white, and brownoker, fhaded with black and foot, or black only; the mouth with black and red-oker, fhaded with black and foot, heightned with red-oker and white.

VI. The Elephant (which is of a Moule grey) with black and white mixt with foot, and fhaded with black and foot, and heightned with the fame, with a little more white; the nofe at the end of his trunk, inwardly muft be laid with Vermilion and Cerufe, fhadowed with black, or black mixt with Lake: in the fame manner the inner part of the ears, the eyes with white tending to a grey.

VII. Mice are coloured as the Elephant: Rats a little browner.

VIII. The Unicorn with a pure white, fhaded

with

Chap.

rit blac

tin blac

18. 7

sih, i di vit

X. 1

but thin

XI.

white,

frong

a litt

beight XII

Hada,

ley mi biax a

nd |

面打

XV

()

This

DX II

WA A

tin

W.

Wi

-

ti

Chap. 47. Of Limning of Beasts. 131

ib.2.

Indico

ot, and

occafi-

ronger

heigh-

y white

black

black,

hadow

-nwold

aly; the

h black

grey) (haded

ame,

ofhis

nd Ce-

Lake:

heeves

Rats 2

Thated

With

St. Levelse

with black; the chaps red, the eyes and hoofs with a thin black.

IX. The Hart with brown-oker, shaded on the back with foot, which sweetly drive towards the belly, and shade over again with a stronger foot; the neck and belly with white, the mouth and ears a little rediss, the hoof black, the horns with soot, and shaded with soot mixt with black.

X. The Hind with the fame colours as the Hart, but thinner, and higher, not fo brown.

XI. The Coney with black and white, his belly all white, fweetned with black; and heightned with a ftronger white.

xII. The Hare with brown-oker, his belly below a little whitish; shade it on the back with soot, and heighten on the belly with white.

XIII. Apes, Monkeys and the like. with Pink and black, heightned with Masticot and white; the face lay with a thin black mixt with soot, shaded with black and Pink mixt with a little red-oker.

XIV. Cats, if grey and brownifh, or tabby, with Indico, blew and white, heightned with pure white; and fhaded with Indian blew and black mixt: in other colours use your differentian.

XV. The Afs with black mixt with white like grey; if the Afs be of a mingled brown, black and white mixt with brown-oker, fhaded with black in the mouth; heighten with white.

XVI. The Leopard with brown-oker and redoker mixt with black, fhadow it with foot, the fpots with red-oker and black, the mouth with black and white; heighten him with light Oker.

XVII. Horfes, Dogs, Oxen and fuch like, if white, with white mixt with a little foot, or Oker, fhaded with a black and white, and heightned with perfect white.

132 Polygraphices. Lib.2.

XVIII. If of a Cheffnut-brown, with red-oker and black, fhaded with black and foot, and heightned with red-oker and white.

XIX. If an Ash grey, with black mixt with white, shaded with black, and heightned with white.

XX. If black, with a thin black, fhaded with a ftronger black, and heightned with black and white.

XXI. A bay Horfe with Vermilion and brownoker; or only with red chalk, fhaded with red-oker, and heightned with red-chalk mixt with white.

XXII. If spotted, by mixture of the aforesaid colours, and discreetly putting every one in its proper apartment or place.

CHAP. XLVIII.

Of the Limning of Serpents.

I. T HE Serpents on the back with Bice, and downwards towards the belly with a pale black, the back speckled with black; the belly shaded with red, sprinkled also with black specks.

II. The Adder with red-lead, Vermilion and faffron, with blew in the back, and on the belly below Mafficot and white, speckled all over with black spots.

III. The Crocodile with a dark thin green, from the back downwards to the belly; below the belly with Mafficot, fo that the yellow and green may melt, or vanish away into one another; shadow him with Indico and smalt, and heighten the belly with Maflicot and white : the mouth before and within redish,

the

Cb 49

1/2/3

N. T

12 3

Whiter,

th Saf

min

bighten Berter

I. W.

hishter

L

highton

R. W

臣;山

L.F.

Freebb

blew, an

1a

King

ane for

100

THE IS

Ch.49. Limning Waters and Fish. 133

ib.2,

Act and

ghtned

white,

witha

white.

l.oker,

uid co.

proper

it, and

a pale

ly tha-

nd fafbelow

black

from

e belly

melt,

with

h Ma-

tit

the scales black, the claws of blackish green, the nails wholly black.

IV. The Frog with a fair green, speckled with black, and towards the belly with green mixt with Masticot, sweetned with green speckled : the eyes with Saffron, and black round them, the back heightned with Saffron.

CHAP. XLIX.

Of Limning Waters and Fifth.

I W Ater at a diftance with white and Indico, fhaded with Indico mixt with Bice, and heightned with white: if near the Horizon, much like the Sky.

II- Waters near lay with ftronger Indico, heighten and fhadow with the fame mixt with Bice : laftly heighten with pure white.

III. Waters nearer with stronger Indico, shaded and heightned as before.

IV. Waters in fields overgrown, with Pink and the like; always imitating Nature.

V. Fish in green Waters, with Indico mixt with French-berry-yellow, shaded with a thin Indian blew, and heightned with pure white.

But Fishes ought also to be done according to their Nature and Colour, for some are yellow, some brown, some speckled, some grisled, some black, &c. in all which to conferve in Figure the true Idea, you ought to take directions only by the life.

Horas.

134 Polygraphices. Lib. 2.

Horat. Epod. 16.

Vos, quibus est virtus muliebrem tollite luctum, Etrusca præter & volate littora. Nos manet Oceanus circumvagus; arva, beata Petamus arva, divites & infulas : Reddit ubi Cererem tellus inarata quotannis, Et imputata floret ulque vinea. Germinet & nunquam fallentis termes oliva, Suámque pulla ficus ornat arborem. Illis injuffæ veniunt ad mulctra capellæ; Refértque tenta grex amicus ubera. Nec Vespertinus circumgemit urfus ovile, Nec intumescit alta viperis humus : Pluraque felices mirabimur: ut neque largis Aquofus Eurus arva radat imbribus, Pinguia nec ficcis urantur femina glebis : Utrumque rege temperante Cœlitum. Non huc Argoo contendit remige pinus, Neque impudica Colchis intulit pedem : Non huc Sidonii torferunt cornua nautæ, Laboriofa nec cohors Ulyffei. Nulla nocent pecori contagia, nullius aftri Gregem æstuola torret impotentia. Jupiter illa piæ fecrevit littora genti, Ut inquinavit zre tempus aureum.

You nobler spirits, bence with womens tears, Sail from Etruscan confines free from fears = The Earth encircling Oceanus invites, Rich Islands, Fields, Fields blest with all delights. Where Lands untill'd are yearly fruitful seen, And the unpraned Vine perpetual green.

Stilly

And mellow

Ilernilch

he de glass In night l

E Ballon

Mato this

lin not m lin he fat

The patters The Bark ca

Ter Lande

Cadmus Nor pair

Here and

Wees or a

lost far to

Of Landskip.

135

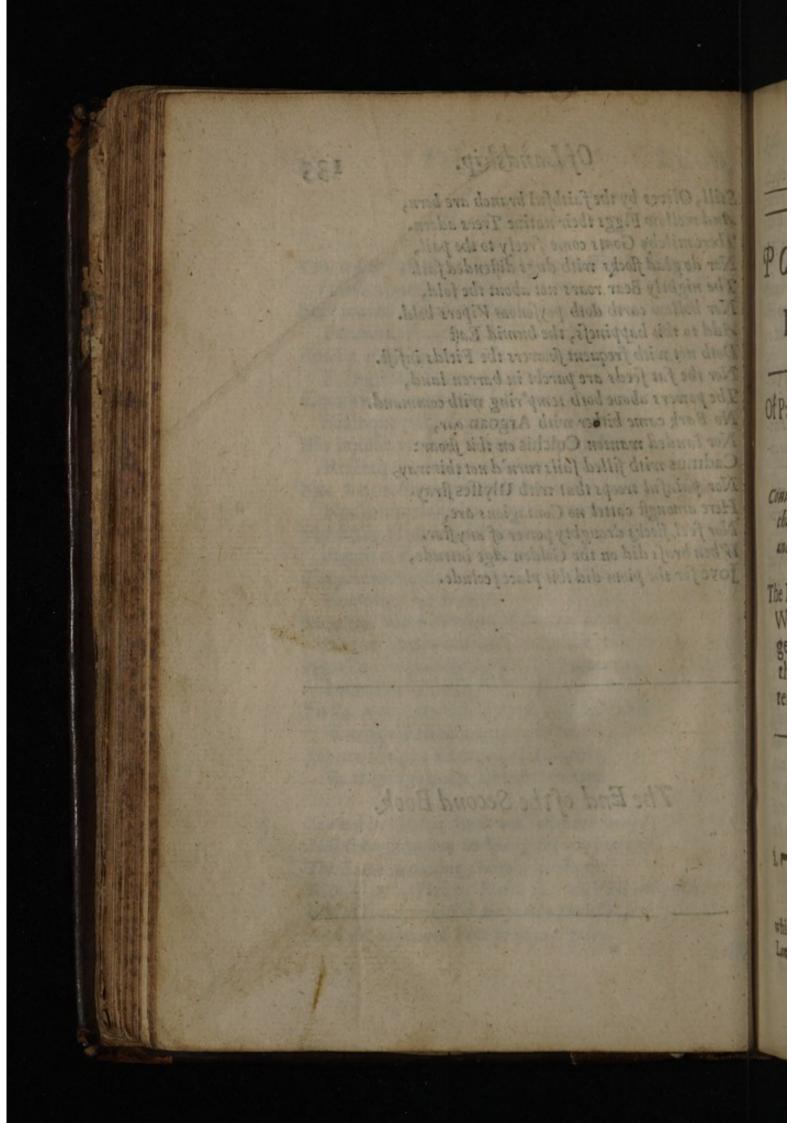
b.2

15

SAL

Still, Olives by the faithful branch are born, And mellow Figgs their native Trees adorn. There milchy Goats come freely to the pail, Nor do glad flocks with dugs distended fail. The nightly Bear roars not about the fold, Nor hollow earth doth poyfonous Vipers hold. Add to this happines, the bumid East Doth not with frequent flowers the Fields infeft. Nor the fat feeds are parcht in barren land, The powers above both temp'ring with command. No Bark came bither with Argoan oar, Nor landed wanton Colchis on this shoar: Cadmus with filled fails turn'd not this way, Nor painful troops that with Ulyffes stray. Here amongst cattel no Contagions are, Nor feel flocks droughty power of any star. When brass did on the Golden Age intrude, Jove for the pious did this place seclude.

The End of the Second Book.



POLYGRAPHICES LIBER TERTIUS.

DREADER TOURS

TO. Cancene.

Of Painting, Walking, Colouring, Dying, Varnishing, and Gilding.

Containing the Description and Use of all the chief instruments and Materials, and the way and manner of working.

The Dying of Cloath, Silks, Horns, Bones, Woods, Glafs, Stones, and Metals: Together with the Gilding and Varnishing thereof, according to any purpose or intent.

CHAP. I.

Of Painting in General.

HE Art of Painting (which is the imitation of Nature) confitts in three things, to wit, Defign, Proportion, and Colour: all which are express in three forts of Painting, vizs Landskip, History, and Life:

II. Lands

Polygraphices. Lib.3.

Chap

Sins

ing hald

Hings !

al E

ht

VII

ng: i

田町

alds

VIEW

the To

IX.

御

223

any C

Bitor

be a

11

II. Landskip or Perspective, wonderfully respects freedom and liberty, to draw even what you please. History respects proportion and figure: Life, respects colour: In each of which there is a necessary dependency of all the other.

138

III. The work of the Painter is to express the exact imitation of natural things; wherein you are to obferve the excellencies and beauties of the piece, but to refuse its vices.

For a piece of Painting may in some part want Diligence, Boldness, Subtilty, Grace, Magnificence, &c. while it is sufficiently in other parts excellent; and therefore you are not so much to imitate Ornaments, as to express the inward power and strength.

IV: In Imitation, always be fure to follow the examples and patterns of the best masters; lest evil prefidents beget in you an evil habit.

V. The force of *Imitation* refides in the fancy or imagination, where we conceive (what we have feen) the form or *Idea* of that, or those things which we would represent in lines and colours.

VI. This Fancy of Imagination is ftrengthned; by lodging therein all variety of visible rarities; as 1. Forms made by light and darknes; such as are to be feen in Summer in the clouds, near Sun-fetting(which vanish before they can be imitated :) 2. Forms made by proximity or distance of place, such as are Trees, Woods, Buildings, appearing perfect being near, or confused in their parts being far off: 3. Forms of dreams, of which (whether sleeping or waking) the fancy must be fully possed.

VII. Where Defign is required; you must fancy every circumstance of the matter in hand, that in an instant, with a nimble hand, you may depict the fame with liveliness and grace.

Slow

Chap.1. Of Painting in General. 139

10.3

fpects plcafe,

ipects

Lepen.

Cad

10 00.

but to

Dis.

åc.

there-

10 0%-

IN CX

pre-

CV OF

lien)

it we

ed, by

25 1.

to be

made

ar, or ms of () the

fanty

and

Sal

Slow performance causes a perturbation in the fancy, cooling of the mind, and destruction of that passion which should carry the work on : but quickness and diligence brings forth things even excellent indeed : Care, Industry and Exercise are the props, supporters and uphelders of Art

VIII. Be fure you dwell not too long upon defigning : alter not what is well, left for want of exquifite judgement you make it worfe: and if in defigning you want that ability to follow the quickness of fancy, fubmit to a willing negligence; a carelefs operation adds fometimes fuch a fingular grace, as by too much curiofity would have been totally loft; then by reviewing what is done, make a regular connexion of all the Idæa's conceived in your mind.

IX. With Apelles amend those things which others justly find fault with ; the reprehensions of an Artist are as demonstrative rules of experience ; and weigh every ones opinion for the advancement of Art.

X. Laftly, be fure your piece be of a good Defign, History or Life; that the parts be well disposed, the Characters of Persons, proper; the Form magnificens, the colour lively, and the spirit bold: that it may appear to be the work of a nimble fancy, ready memory, clear judgment, and large experience.

Kz

TE BERGELLES E BURE ST

CHAP.

ne waits have bled at 25 mile and small star or

Primed de ablie that avhich it to be Pain-

fould carry the .II A . H . O . and diligente

couling of aire minds and derived has a she a first another

Polygraphices.

140

Of Painting in Oyl, and the Materials thereof.

I. P Ainting in Oyl is nothing but the work or Art of Limning performed with colours made up or mixed with Oyl.

II. The Materials of Painting are chiefly Seven, I. The Eafel. 2. The Pallet. 3. The Straining Frame. 4. The Primed cloath. 5. Fencils. 6. The Stay. 7. Colours.

III. The Eafel is a Frame made of wood (much like a Ladder) with fides flat, and full of holes, to put in two pins to fet your work upon higher or lower at pleafure; fomething broader at bottom than at the top: on the backfide whereof is a ftay, by which you may fet the Eafel more upright or floping

IV. The Pallet is a thin piece of wood, (Peartree or Walnut) a foot long, and about ten inches broad, almost like an Egg, at the narrowest end of which is made an hole to put in the thumb of the left hand, near to which is cut a notch, that so you may hold the Pallet in your hand. Its use is to hold and temper the Colours upon.

V. The Streining Frame is made of wood, to which with nails is failtned the Primed cloath, which is to be Painted upon.

These ought to be of several fizes according to the bigness of the cloath.

VI. The Primed cloath is that which is to be Painted upon : and is thus prepared.

Take

Lib.3.

Char

Tak

Ez a c

sittle

irsw.

W.J.

We

menn

VIL

benel

call fit

Swan

bill.

lom

VI

ike)

WOLK 1

int en

a Fra

IX.

前有1.

hown

Ofa

國 應

mile

「日本」の

Chap.2. Of Painting in Oyl, &c.

0.3.

u Art

deup

Dy I.

J. J.

nuch

cs,10.

low-

which

tree or

id, al-

and,

hold

temper

which

510 be

he hig-

Pain-

The

Take good Canvas and smooth it over with a flick-stone, fize it over with fize, and a little honey, and let it dry; then white it over once with whiting and fize mixed with a little honey, so is the cloath prepared, on which you may draw the Picture with a coal; and lastly lay on the Colours.

141

Where note, honey keeps it from cracking, pceling or breaking out.

VII. Pencils are of all bigneffes, from a pin to the bignefs of a finger, called by feveral names, as Ducksquill fitched and pointed; Goofe-quill fitched and pointed; Swans-quill fitched and pointed; Jewelling pencils, and briftle pencils: fome in quills, fome in Tin cafes, and fome in flicks.

VIII. The Stay or Mol flick, is a Brazil flick (or the like) of a yard long; having at the one end thereof, a little ball of Cotten, fixed hard in a piece of Leather, of the bignefs of a Cheftnut; which when you are at work you must hold in your left hand; and laying the end which hath the Leather ball upon the cloath or Frame, you may reft your right arm upon it, whilft you are at work.

IX. The Colours are in number feven (ut (nprà) to wit, White, Black, Red, Green, Yellow, Blew, and Brown.

Of which some may be tempered on the Pallet at first; some must be ground, and then tempered; and other some must be burnt, ground: and lastly tempered

X. To make the Size for the Primed cloath at the fixth Section of this Chapter.

Take Glew, and boil it well in fair water, till it be diffolved, and it is done.

XI. To make the Whiting for the fixth Section of this Chapter.

Take of the aforefaid Size, mix is with whiting K 3 ground,

142

Polygraphices. Lib.3.

Chap

VII.

frate

MI

tite, a

with o

IX.

tran

X

is to b

mith

turn

Aniji i Aniji i fulime

XI.

XIL.

XL

XII

Rane.

Barrow

XV

un.

the

17

1700.

X

-

ground, and so white your boards or cleath (being made smooth) dry them, and white them a second or third time; lastly, scrape them smooth and draw it over with Whitelead tempered with Oyl.

XII. To keep the Colours from skinning.

Oyl Colours (if not presently nsed) will have a skin grow over them, to prevent which, put them into a glass, and put the glass three or four inches under water, so will they neither skin nor dry.

XIII. To cleanfe the Grinding frone and Pencils.

If the Grinding stone be foul, grind Curriers shavings upon it, and then crumbs of bread, so will the filth come off: if the pencils be foul, dip the ends of them in oyl of Turpentine, and squeeze them between your fingers, and they will be very clean.

CHAP. III.

Of the Colours in General, and their significations.

HE chief Whites for Painting in Oyl are, White-lead Ceruse and Spodium.

H. The chief Blacks are, Lamp-black, Seacoal-black, Ivory-black, Charcoal, and earth of Colen.

III. The chief Reds are, Vermilion, Sinaper Lake, Red-lead, Indian Red, Ornotto.

IV. The chief Greens are, Verdegriese, Terra-vert, Verditer.

V. The chief Tellows are, Pink, Mafficot, English Oker, Spruse Oker, Orpiment.

VI. The chief Blems are, Blew Bice, Indico, Ultra-

VII. The

Chap.3. Colours in General, &c. 143

16.3.

E made

time; White

4 shis

glafi,

A TTHE

ncils.

avings

b come

soyl of

1h 986

al all,

black,

Lake

2-17.II

English

11/12-

L The

VII. The chief Erowns are, Spanith-brown, burnt Spruce, Umber.

vIII. These Colours, Lamp-black, Verditer, Vermilion, Bice, Smalt, Massicot, Orpiment, Ultramarine, are not to be ground at all, but only tempered with oyl upon the Pallet.

IX. These Colours, Ivory, Ceruse, Oker and Umber are to be burnt, and then ground with oyl.

X. All the reft are to be ground upon the Grinding ftone with Linfeed oyl (except White-lead, when it is to be used for Linnen, which then is to be ground with oyl of Walnuts, for Linfeed oyl will make it turn yellow.)

And now fince we are engaged to treat of colours, it may neither be unneceffary, nor unufeful for the young Artist to know their natural significations; which take as followeth.

XI. Blew fignifieth truth, faith, and continued affections, Azure, Conffancy; Violet, a religious mind.
 XII. Orange-tawny fignifies Pride, alfo integrity;
 Tawny, forfaken, Limmon, jealoufie.

XIII. Green fignifies hope: Grass-green, youth, youthfulness, and rejoycing: Sea-green. Inconstancy. XIV. Red fignifies Justice, Vertue and Defence:

Flame-colour, Beauty and defire : Maidens-blufb, Envy.

XV. Tellow fignifies Jealoufie : perfect yellow. Joy, Honour, and greatness of Spirit : Gold-colour, Avarice.

XVI. Flesh-colour fignifieth Lasciviousnels: Carnation, Crast, Subtilty and Deceipt: Purple, Fortitude and Strength.

XVII. Willow-colour fignifieth forfaken : Popingjay green, Wantonnels : Peach-colour, Love.

XVIII. White fignifieth Death : Milk-white, Innocency, Purity, Truth, Integrity : Black, Wildem, Sobriety, and Mourning.

K 4

XIX. Straws

XIX. Straw-colour fignifieth Plenty: Rust of Iron, Witherednefs: Ermine, Religion and Holinefs.

Polygraphices.

144

04

IL IN

in so

Panj IV.

Tak

調査

職

V. Th

ten pe

Telles

fins

NL

The

in:

U

viis VII.

The first

1

az

加か

動

III. The

Lib.3.

XX. The White, Black, Red, and green, are colours beld facred in the Church of Rome: White is worn in the Festivals of Virgins, Saints, Contessfors and Angels, to show their Innocency: Red in the Solemnities of the Apostles and Martyrs of Jesus: Black in Lent and other Fasting days: Green is worn between the Epiphany and Septuagesima: and between Pentecost and Advent.

CHAP. IV.

Of the fitting of Colours for Painting.

I. UPON the Pallet dispose the feveral colours, at a convenient distance, that they may not intermix: first lay on the Vermilion, then the Lake, then the burnt Oker, then the Indian Red, Pink, Umber, Black and Smalt, each in their order, and lay the White next to your thumb, because it is offness used, for with it all shadows are to be lightned; and next the White a stiff fort of Lake; thus is the Pallet furnished with single colours for a face.

Now to temper them for shadowing various complexions do thus.

II. For a fair complexion.

Take White one drachm, Vermilion, Lake of each two drachms, temper them, and lay them aside for the deepest Carnation of the face: to part of the aforesaid mixture put a little more white, for a light Carnation; and to part of that put more white (which temper on the Pallet) for she lightest colour of the face.

Ch 4. Fitting Colours for Painting. 145

III. The faint shadows for the fair complexion.

Take Smalt, and a little white, for the eyes; to part of that add a little Pink, and temper by it felf for faint greenish shadows in the face.

IV. The deep thadows for the fame.

Lib,

f of Irm, S.

me colours

WOM IN

and An-

Solemni.

Black in

Detween

TI Pente-

colours.

nay not

e Lake,

k,Um-

lay the

eff aled,

id next

et fur-

lexist

e deepoft mixture

ta part let)fir

L. The

Take Sinaper Lake, Pink, and black of each, which temper together; if the shadows ought to be redder than what is tempered, add more Lake; if yellower, add more Pink, if blewer or grayer, add more black: thus shall the Pallet be fitted with colours.

V. For a brown or fwarthy complexion.

The fingle colour being laid on the Pallet as before, and tempered; to the white, Lake and Vermilion, put a little burnt Oker for a Tawny; and for beightning add fomo Tellow Oker, fo much as may just change the colours. The faint and deep shadows are the fame at the third and fourth Section of this Chapter.

VI. For a Tawny complexion.

The colours are the same with the former, but the shadows are different; which must be made of burnt Oker and Umber, (which will fit well:) if the shadow be not yellow enough, add a little Pink to it.

VII. For a black complexion.

The dark shadows are the Same with the former : but for heightening take White, Black, Lake, and burnt Oker; in tempering of which put in the white by degrees, till you come to the lightest of all. Where note, that the single colours at first laid upon the Pallet and tempered, serve for shadows for all complexions; and that all deepnings ought to be with black, Lake and Pink tempered together.

CHAP.

CHAP. V.

146 Polygraphices. Lib.3.

chip.

ad when

X.F.

Int Ra

in, to dite k

XIL

tinty

denbris

F

mere

it W

II.

mixed would

Time I

II.

be being

İV,

fred V.

in in

-

Of Colours for Velves.

FOR black Velvet. Take Lamp-black and Verdegriefe for the firft ground; that being dry, take Ivory-black, and Verdegriefe, fhadow it with white-lead mixt with Lamp-black.

II. For Green. Take Lamp-black and White-lead, and work it like a Ruffet Velvet, and let it dry; then draw it over with Verdegriefe tempered with a little Pink.

III. For Sea-green. Take only Verdegriefe and lay it over Ruffet: If a Grass-green, put a little Maflicot to it; shadow these greens with Ruffet, which lay according to the deepness of the green.

IV. For Red. Take Vermilion, and shadow it with Spanish-brown; and where you would have it darkest, shadow with Seacoal-black and Spanishbrown with the aforefaid colours, dry it, and then gloss it over with Lake.

V. For Crimfon or Carnation. Take Vermilion, to which add White-lead at pleafure.

VI. For Blew. Take Smalt tempered alone.

VII. For Tellow. Take Massicot and yellow Oker, and where you would have it darkest, shadow it with Umber.

VIII. For Tawny. Take Spanish-brown, Whitelead, and Lamp-black, with a little Verdegriese, to shadow where need is: when dry, gloss it over with Lake and a little Red-lead.

IX. For Hair colour. Take Umber ground alone ; and

Lib. Chap.6. Colours for Sattins.

and Ver

ting day

it wid

ite-lead it the thalittle

lefe and

the Mat, which

il wobi

1 have it

Spanilh-

nd then

lion, to

w Oker,

it with

Whitericle, to

er with

alone i 300

and where it fhould be brighteft, mix fome Whitelead about the folds, lighten or darken with Whitelead and Umber. For Blew. Temper Small

X. For Afh-colour. Take Charcoal black and whitelead ; lighten with white-lead : a colour like to a dark Ruffet will be an Afb colour.

XI. For Furple. Take Smalt and Lake, of each alike, temper them (light or deep as you please) with lead ; white lead it thould be briefte put . best with

XII. Laftly note, that in Painting Velvet you must at first work it somewhat fad, and then give it a fudden brightness.

CHAP. VI.

Of Colours for Sattins.

I. FOR Black. Take Lamp-black ground with Oyl and tempered with white-lead; and where you would have it thine most, mix Lake with the white-lead.

II. For Green. Take Verdegriefe ground alone and mixed whith white-lead; adding Pink where you would have it brighteft: to the deepeft fhadows add

III. For Tellow. Take Mafficot, yellow Oker and Umber (ground each by themfelves) where it thould be brighteft use Masticot alone; where a light shadow, ufe Oker, where darkeft ufe Umber.

IV. For Purple. Take Smalt alone, and where it fhould be brighteft use white-lead

V. For Red. Take Spanish-brown (ground alone) mix it with Vermilion, and where it should be brighteft mix white-lead with the Vermilion. LEPhone Here Reveal & States & States

VI. For

147

148

Polygraphices. Lib.3.

Ch. 8.

MI.

witw

F

hars-bi

ping o II. 1

he gri dows;

iows; i TL] ic wh

tepen

liram Sma

IV.

V. F.

The.

VI.

前し

VII.

加し

11

Vin I

1x

bui

Oist the bath

VI. For White. Take White-lead (ground alone) and Ivory-black, which temper light or dark.

VII. For Blew. Temper Smalt and White-lead; where it fhould be faddeft, use Smalt; where lightest, White-lead.

VIII. For Orange colour. Take Red-lead and Lake; where brighteft, Red-lead, where faddeft, Lake.

IX. For Hair colour. Temper Umber and Whitelead; where it should be brightest, put more Whitelead, and where the greatest shadow, use Seacoal-black mixed with Umber.

CHAP. VII.

Of Colours for Taffaty, Cloth and Leather.

I. T Affaties are Painted much as Sattins, thus: Take fuch colours as are fit for the purpofe, and lay them one by another upon the work, and shadow them with others.

II. Cloth is the fame work with Sattin, fave, you must not give to Cloth fo fudden a shining gloss.

III. Cloth of Gold is made of brown Oker and liquid Gold; water and heighten upon the fame with Imall gold ftroaks.

IV. For Buff, mix yellow Oker and White-lead; and where it fhould be dark by degrees, mix it with a little Umber; when you have done, fize it over with Umber and Seacoal-black.

V. For yellow Leather, take Massicot and yellow Oker, shadow it with Umber.

VI. For black Leather, take Lamp-black, and fhadow it with White-lead.

VII. For

Ch. 8. Colours for Garments, &c. 149

Lib,2

1 along

te-lead; lighten

Id Lake KC. White-White.

al-black

ber.

, thus:

urpole,

nd the-

WG, FOU

e with

-kadi

with a

er with

vellow

ad the

IL Fat

G. and H-

VII. For White Leather, take White-lead, and thadow it with Ivory-black. alone stitle deeper parts with Lake, and if need

CHAP. VIII. Of Colours for Garments in general.

O R. Black. Let the dead colour be Lamp-black 1. and Verdegriese: being dry, go over with Ivory-black and Verdegriefe; but before the fecond. going over, heighten it with white.

II. For Hair colour. Take Umber and White for the ground; Umber and black for the deeper fhadows; Umber and English Oker for the meaner shadows; white and English Oker for heightning.

UI. For Blem. Take Indico and White : first lay the White, then the Indico and White mixed ; then deepen it with Indico, and when dry, glaze it with Ultramarine which will never fade,

Smalt will turn black, and Bice will turn green.

IV. For Purple. Take Smalt tenpered with Lake and White-lead; then heighten with White-lead.

V. For a fad Red. Take Indian Red heightned with White.

VI. For a light Red. Take Vermilion, glaze it over with Lake, and heighten it with White.

VII. For a Scarlet. Take Vermilion, and deepen it with Lake, or Indian Red.

VIII. For Green. Take Bice and Pink, heighten it with Masticot, and deepen with Indico and Pink.

IX. For yellow. Take Mafficot, yellow Oker, Umber; lay Mafficot and White in the lighteft places; Oker and White in the mean places, and Umber in X. For the dankeft, glaze it with Pink

1501 ... Polygraphices. Molos Lib.3?

Chap.

T. For

mente

in Ve

in the

F

11.

W still

u Vern

III.

igine

N.

togethe

Salt,

fixit, 21

Well !

Y.F

Off, Sur The Ba

tina

W.

Sech

the)

VI

dind

- X. For Orange colour. Lay the lighteft parts with Red-lead and White, the mean parts with Red-lead alone; the deeper parts with Lake, and if need is, heighten it with white.

XI. For a fad Green. Mix Indico with Pink : for a light green mix Pink and Malticot : for a Grafs-green mix Verdegriese and Pink.

XII. Remember always to lay yellows, blews, reds and greens, upon a white ground, for that only giveth them life.

Ivory-black and Verdepriete; but bel

going over, heighten it with white.

. Colours for Metals and precious Stones.

For Hair colXa T.SeAthoDr and White for

and mix it with a little white. II. For Silver. Take Charcoal-black and Whitelead; where you would have it darkelt, use more Charcoal: work Silver fomewhat russifi, and give it

a fudden glofs with White-lead only.

III. For Gold. Take Lake, Umber, Red-lead, Maflicot; lay the ground with Red-lead, and a little dry Pink: where you would have it darkelt, fhadow it most with Umber, where lightest with Masticot.

Note, in grinding the Red-lead for the Gold fize, put in a little Verdegriefe to make it dry sooner.

IV. For Pearls. Temper Charcoal-black with White-lead, till it be a perfect ruffet; then make the Pearl with it, and give it a speck of White-lead only to make it shine.

Where note, that Ceruse tempered with Oyl of white Poppy is excellent to beighten up Pearls V. For

Chap. 10. Colours for Landskip. 151

10.1

ts with

ed-lead

need is

t: fars

s-green

\$5, 16ds

giveth

te-lead;

-black,

White-

e more

give it.

d, M2-

tle dry

idow it.

X

ize, tat

With

ake the

id only

of white

V.Fa

V. For precious Stones. For Rubies, &c. lay their counterfeit grounds with transparent colours, and Lake, Verdegriese and Verditer give them a shining colour.

IX. Laftly, for the practical performing of

CHAP. X. dil. 22 . quide bure

ave recourte to the rules delivered in chap, 13. Sib. 1.

Of Colours for Landskip.

I. F OR a light Green, use Pink and Masticot, heightned with white : for a fad Green, Indico and Pink heightned with Masticot.

II. For fome Trees, take Lake, Umber and White; for others Charcoal and White, for others Umber, black and white, with fome green; adding fometimes Lake or Vermilion, with other colours.

III. For Wood, take Lake, Umber and White, mixing fometimes a little green withal.

IV. For Fire, lay Red-lead and Vermilion tempered together where it is reddeft : where it is blew, lay oyl, Sinalt, and White-lead : where it is yellow, take Maflicot, and work it over in certain places ; where you would have it fhine moft, with Vermilion.

V. For an Azure Skie, which feems afar off, take Oyl, Smalt, or Bice, and temper them with Linfeedoyl. But grind them not : for Smalt or Bice utterly life their colour in grinding.

VI. For a Red Skie, take Lake and white; and for Sun-beams, or yellow clouds at Sun-rifing or fetting, take Mafficot and White.

VII. For a Night Skies or clouds in a ftorm, take Indico deepned with black, and heightned with white. VIII. For Wood colours, they are compounded either

OF

152 Polygraphices. Lib.3.

Chap

OTO: L

tant tal

uting t

inds d

VL

proport the eye

Here

ALATT'S

VII.

with

fore-

ntan din, i

till you

VII

hadow

tould

Ix.

dine (

1 00

101 13

intris,

the

言山

theo

les

of Umber and white, Charcoal and white, Seacoal and white, Umber black and white; or with fome green added : to which you may adjoin fometimes, as in barks of Trees, a little Lake or Vermilion.

IX. Lastly, for the practical performing of the work, have recourse to the rules delivered in chap. 13. lib. 1. and chap. 27. lib. 2.

CHAP. XI.

and I mic herentned with I

beight of the Brinting of the Face, Indicot,

I. H Ave your neceffary pencils in readinels, as two pencils ducks quill fitched; and two ducks quill pointed; two Goole quill fitched; and two pointed: two briftles both alike; one Swans quill titched, and one pointed; one larger pencil in a Tin cafe fitched; and a briftle of the fame bignels, every one having a flick of about nine inches long put into the quill thereof, the farther end of which flick mult be cut to a point.

II. The pencils in a readinels in your left hand, with the pallet upon your thumb, prepared with fit colours, and your molftick to reft upon; you must work according to the directions following.

III. The cloth being pinned, and strained upon the Frame, take a knife, and with the edge thereof scrape over the cloth, left knots or the like should trouble it.

Iv. Then fet the Frame and cloth upon the Eafel, at a convenient heighth, that fitting on a ftool (even with the party you draw) you may have the face of the Picture equal, or fomething higher than your own:

Chap. 11. Painting of the Face.

iba

h for

itims.

tor work

1. 10. 1

#S (WO

ducks

nd two

is quill

naTm

, every

out into

ck melt

hand,

fit co-

t work

pon the

f fcrape trouble

lafeh, at

(even

n your

OWD;

own : fet the Eafel to the light (as in Limning we have taught) letting it come in upon your left hand, caffing the light towards the right

153

V. Let the Person to be drawn, sit before you in the posture he intends to be painted in, about two yards distant from you.

VI. Then with a piece of painted chalk draw the proportion of the face upon the cloth, with the place of the eyes, nofe, mouth, ears, hair, and other poftures.

Here is no difficulty in this, if you miss much, the colours will bring all to rights again.

VII. Then take a pencil Swans quill pointed, and begin to paint fome of the lighteft parts of the face with the lighteft colour, (as the heightning of the fore-head, nofe, cheek-bone of the lighteft fide:) the mean parts next (as the cheek-bone of the dark-fide, chin, and over the upper lip:) proceeding gradually till you come to the reddeft parts of all.

VIII. Lay faint greenish shadows in convenient places; and where it is necessary to soften harsher shadows, but take heed of putting green where red should be.

Ix. The faint or light parts thus done, take one of the Goofe quill pointed, or Ducks quill fitched, and begin at the eyes to fhadow with Lake, going over the nofe, mouth, compass of the ear, &c. before you lay on any colour, wiping it lightly over with a linnen rag, to prevent the overcoming of the other colours.

X. The colours both light and dark being put in, take a great fitch pencil, and fweeten the colours therewith, by going over the fhadows with a clean foft pencil, which being well handled will drive and intermix the colours one into another, that they will look as if they were all laid on at once, and not at divers times. Where

154 Polygraphices. Lib.3.

Where note, that the bigger pencils you nfe, the freeter and better your work will lie.

XI. At the fecond fitting, begin again with clean pencils, of fuch bignefs as the work requires, and obferve well the perion, and fee what defects you find in your work at first fitting, and amend them; then heighten or deepen the shadows as occasion requires.

XII. Lastly, take a Goose quill briffle, and put in the hair about the face (if there must be any) and rub in the greater hair, with the greater briffle, heightning it up with the Goose quill pencil.

CHAP. XII.

Of the cleansing of any old Painting.

I. T Ake good wood afhes, and fearce them, or elfe fome Smalt or powder-blew, and with a Spunge and fair water gently wafh the Picture you would cleanfe(taking great care of the fhadows) which done, dry it very well with a clean cloth.

11. Then varnish it over again with some good varnish, but such as may be washed off again with water if need be.

We shall bereafter shew the way of making varnish of several forts, mean season this following may serve.

III. Take either common varnish (made with Gum fandrack diffolved in Linfeed-oyl by boiling) or glair of Eggs, and with your pencil go over the Picture once, twice, or more therewith as need requires.

CHAP.

Chap

I

to the

II, know Geon acco

ctf. III,

thing: Mate

of hab

Artie

IV

pleafe

nels.

W

myh

V.

Enes:

paint

Th

fette

利品

町加加

Chap.13. A Picture in general. 155

univery to mixin y

10.2.

Ritte

clean

nd ob. find in 15 then

pat in

and rub

htning

orelle

with a

are you

which

od var-

water

rnift

le with

ing) or

the Pi-

quints,

HAR

CHAP. XIII.

Of a Picture in general.

I. IN every Picture there are always four principal confiderations : to wit, i. Invention. 2. Proportion. 3. Colour. and 4. Life.

II. Invention must be free, and flow from a general knowledge of Antiquities, History, Poetical Fictions, Geometrical conclusions, and Optical confiderations, according to its Situation or Afpect, either near or far off.

III. And this Invention must express proper and fit things, agreeing to the Circumstances of Time, Place, Matter, and Perfon; and having respect to the modes of habits belonging to the Country or People whether Antient or Modern.

IV. Proportion, Analogy, or Symmetry (which you please) in that which limits each part to its proper bignels, in respect to the whole.

What soever differs from this recedes from beauty, and may be called Deformity.

V. This Proportion is called by Artifts the defigning lines; which are first drawn before the whole is painted.

These proportions or lineal designs, draughts, and scotches, may be colled Piciure, which being well done, shew not only the shape, but also the intent: In lines only, we may draw the proportion of a Black More, and such as shall be like him: Now this Skill proceeds from the very highest principles of Art.

VI. Colour is that which makes the Picture refem-L 2 ble

ble what we defire to imitate; by mixing of various colours together.

156 Polygraphices. Lib.3.

vII. In making any thing apparent, it is neceffary to express its opposite or contrary.

So light and shadows forward, set forth Paintings outwards, as if you might take hold of them with your hand : blackness makes things seem farther off, and is used in things hollow, as Caves, Wells, &c. the more deep the more black.

VIII. Brightness exceeds light, sparkling in splendor.

It is used in the Glory of Angels; twinkling of Gems, Armory, Gold and Silver vessels, fires and flames.

IX. In Painting of a man, grace each limb with its proper and lively colour; the black make fincerely black; the white pure, with rednefs intermixt. But to paint purely the exquifite beauty of a woman, is never to be well done (except it be by a very ingenious Artift indeed) her rare complexion being fcarcely poffible to be imitated with colours : There is none really knows the exact mixture for fuch a Countenance.

X. Life or Motion is that from whence action or paffion doth refult, which in coloured Pictures is feen with a lively force of Gesture and spirit.

To do this it is necessary that the Artist be well acquainted with the nature, manners, and behaviour of men and women, as in anger, sadness, joy, earnestness, idleness, love, envy, fear, hope, despair, & c. Every disturbance of the mind alters the Countenance into several postures.

XI. The head caft down fhews humility; caft back, arrogancy or fcorn; hanging on the neck, languifhing; ftiff and fturdy, morofity of mind: the various poftures of the head fhew the paffions; the Countenance the fame; the eyes the like: and in a word, all the other parts of the body contribute fomething to the

CX-

Chap.

apresit

to be ob

Is ex

to Arti

XII.

OUT T

TOTK 5

Heft.

inter y

H

bured.

1.1

tery I

Ш.

Selly,

Safety.

ieg-berj Alex

enght . land, .

Norio

Make

N.

Ted to

dine

Chap.14. Choice of Copies, &c.

0.3

tious

Elizy

El ant-

bard :

efed in

印版

fplen-

Sems,

ith its

But

15 ne-

v pol-

really

10 001

is leen

1XAIR

en and lenefs,

statig

back,

us po-

mance

allthe

tothe

63.

expression of the faid passions of the mind, as is easily to be observed in the life.

157

In excellent pieces you may at a view read the mind of the Artist in the formality of the Story.

XII. Lastly, Be always fure first to conceive that in your thoughts, which you would express in your work; that your endeavours being assisted by an intellectual energy, or power of operation, may at length render your productions perfect.

-ntes and the among of the A P. A N. J. I anong the state of the A P. A. Y. I.Y. anong the second t

Of the Choice of Copies, or Patterns.

cinform this minture is profetty the m

I. H E that chuseth a Pattern, ought to see 1. that it be well designed : 2. that it be well coloured.

"II. In the well defigning, be fure that it be true in every part; and that the proportion of the figure be just and correspond to the life.

III. If the Picture be a fiction, fee that it be done boldly, not only to exceed the work (but also the poffibility) of nature, as in Centaurs Satyrs, Syrens, Flying-borfes, Sea-borfes, Tritons, Nereides, &c.

Alexander ab Alexandria *faitb that* Theodore Gaza caught one of these Nereides in Greece, and that in Zealand, another was taught to spin: these Tritons and Nereides are those which are called Mare-maids, the Male and the Female.

IV. Natural figures (hew property, and are required to agree with the life: forced figures express novelty, and are to be beautified by exorbitancies according to the fancy of the Painter without limitation: L-3 novelty

Polygraphices:

158

1 2 4 2 2 2

Ch.

1. 1

itte

to the

ist bio

kt t

1

gleli

into

belo

ATE.

100

tint int

dan

TLOP

feat Ca

1

G

Lib.3.

novelty causes admiration, and admiration curiofity. a kind of delight and fatisfaction to the mind.

These things are not the products of stupid brains, nor are they contained within the perimetre of clouded and dull Conceptions.

V. In the well colouring, know that in obscurity or darkness there is a kind of deepness; the fight being sweetly deceived gradatim in breaking the Colours, by infensible change from the more high to the more dull.

In the Rain-bow this mixture is perfect; the variety of Colours are throughly dispers'd (like Atoms in the Sunbeams) among one another, to create its just appearance.

VI. See that the fwellings of the work agree with the exactnels of nature, and as the parts thereof require, without fharpnels in out-lines, or flatnels within the body of the piece; as also that each hollownels exactly correspond in due proportions.

VII. Laftly, View precifely the paffions, as Joy, Sorrow, Love, Hatred, Fear, Hope, &c. and fee that they correspond with their proper poffures; for a touch of the pencil may strangely alter a passion to its just opposite or contrary, as from Mirth to Mourning, &c.

Alexander ab Alexandril filing shat There dosed

with a fam wild ballas are dater alout a CHAP,

red to apere with the life to the barred the use of bar

ding to the taney of the Painter without line and

verse, southie to be beautined by emoralitances

IV. Matural hears have property

dam fall star

Ch. 15. Disposing of Pictures, &c. 159

1.3.

olity,

1, MAY

Trity.

the Co-

o the

的好

Sun-

ear-

with

fre-

with-

rnefs

Foy, that

tor a

o its

ITE-

AP;

CHAP. XV.

Of the Disposing of Pictures and Paintings.

I. A Ntique works, or Grotefco, may become a wall, the borders and freezes of other works; but if there be any draughts in figures of men and women to the life upon the wall, they will be beft of black and white; or of one colour heightned: if they be naked, let them be as large as the place will afford; if of Marbles, Columns, Aquæducts, Arches, Ruines, Cataracts, let them be bold, high, and of large proportion.

II. Let the beft pieces be placed to be feen with fingle lights, for fo the fhadows fall natural, being always fitted to anfwer one light; and the more under or below the light the better, especially in mens faces and large pieces.

III. Let the Porch or entrance into the houfe, be fee out with Russick figures, and things rural.

IV. Let the Hall be adorned with Shepherds Peafants, Milk-maids, Neat-heards, Flocks of Sheep and the like, in their respective places and proper attendants; as also Fowls, Fish, and the like.

V. Let the Stair-cafe be fet off with fome admirable monument or building, either new or ruinous, to be feen and observed at a view passing up: and let the *Ceiling* over the top-stair be put with figures foreschortened looking downwards out of Clouds, with Garlands and Cornucopia's.

VI. Let Landskips, Hunting, Fishing, Fowling, Histories and Antiquities be put in the Great Chamber. L 4 VII. In

Polygraphices. Lib.3.

Chip

1

Waltr

IL

mh

Actes

this

fim

der a

from

IV. tick

igain fine a

pitt lo W

pin

V.

bebo

ter

in

ni. R.

VII. In the Dining-room let be placed the Pictures of the King and Queen; or their Coat of Arms; forbearing to put any other Pictures of the life, as not being worthy to be their Companions; unless at the lower end, two or three of the chief Nobility, as atter dants of their Royal Perfons: for want hereof you may put in place, some few of the nearest blood.

160

VIII. In the inward or with-drawing Chambers, put other draughts of the life, of Persons of Honour, intimate or special friends, and acquaintance, or of Artifts only.

IX. In Banqueting-rooms, put cheerful and merry Paintings, as of Bacchus, Centaures, Satyrs, Syrens, and the like, but forbearing all obscene Pictures.

X. Hiftories, grave Stories, and the beft works become Galleries; where any one may walk, and exercife their fenfes, in viewing, examining, delighting, judging and cenfuring.

XI. In Summer-boufes and Stone-walks, put Cafiles, Churches, or some fair building : In Tarraces, put Boscage, and wild works, : Upon Chimney-pieces, put only Landskips, for they chiefly adorn.

XII. And in the Bed-chamber, put your own, your Wives and Childrens Pictures; as only becoming the most private Room, and your Modesty : left (if your Wife be a beauty) fome wanton and libidinous gueft fhould gaze too long on them, and commend the work for her lake.

XIII. In hanging of your Pictures ; if they hang high above reach, let them bend fomewhat forward at the top; because otherwise it is observed that the vifual beams of the Eye, extending to the top of the Picture, appear further off, than those at the foot.

ANHO Antiquities be put in the Grat Churt

Sec. Sec.

Floritiche" Villing it owned

DIA ALY

Chap. 16. Of Painting of Walls. 161

1.3.

Sof

for-

the sat-

TOU

Put

inti-

Ar-

erry

CHI,

be-

-132

ing,

lics,

put

put

the

OUT

lang

the

ibt

R

CHAP. XVI.

CUL STURES IN

Of Frefcoe, or Painting of Walls.

I. IN Painting upon Walls, to make it endure the weather, you must grind your colours with Lime water, Milk, or Whey, mixt in fize colouring pots.

II. The passe or plaister must be made of well wash'd Lime, mixt with fine powder of old rubbish flones: the Lime must be so often wash'd, till all its falt is abstracted; and all your work must be done, in clear and dry weather.

III. To make the work endure, firike into the wall ftumps of headed nails, about five or fix inches alunder, and by this means you may preferve the plaifter from peeling.

IV Then with this pafte, plaifter the wall, a pretty thicknefs, letting it dry: being dry, plaifter it over again, about the thicknefs of half a Barley corn, very fine and fmooth, then your colours being ready prepared, work this laft plaiftering over, whileft it is wet, fo will your Painting unite and joyn faft to the plaifter, and dry together as a perfect compost.

V. In Painting be nimble and free let your work be bold and firong, but be fure to be exact, for there can be no alteration after the first painting; and therefore heighten your paint enough at first, you may deepen at pleafure.

VI. All earthy colours are beft, as the Okers, Spanifh-white, Spanifh-brown, Terræ-vert, and the like ; mineral colours are naught.

vII. Laftly, let your pencils and brufhes be long and fost, otherwife your work will not be smooth; let your

Polygraphices. Lib. 3. your colours be full, and flow freely from the pencil or brush ; and let your design be perfect at first, for in this, there is no after alteration to be made.

162

CHAP. XVII.

Of Colours for Painting Glass.

I. V Ellow. Take a very thin piece of pure fine Silver, and dip it into melted Brimstone ; take it out with a pair of plyers, and light it in the fire, holding it till it leaves burning ; then beat it to powder in a brasen mortar ; then grind it with Gum-Arabick water, and a little yellow Oker.

II. Tellow. Take fine Silver one Drachm, Antimony in powder two Drachms, put them in a hot fire, in a Crucible for half an hour, and then caft it into a Brafs mortar, and beat it into powder, to which add yellow Oker fix Drachms, old earth of rufty Iron fcven Drachms, grind all well together.

This is fairer than the former

III. White. This is the colour of the glass it felf : you may diaper upon it with other glass or Crystal ground to powder.

IV. Black. Take Jet and Scales of Iron, and with a wet feather take up the Scales that fly from the Iron, after the Smith hath taken his heat, grind them with Gum-water.

V. Black. Take Iron scales, Copper scales of each one Drachm, heat them red hot in a clean fire fhovel; then take Jet half a Drachm, first grind them finall and temper them with Gum-water.

VI. Redo

Char

SI.

Rint.

adit at I milt VI

tree gind VI

a Li a he

grind

1

To

fre

X,

that

the

tran

lad

ad t

17

60

on II the mit

Chap.18. Painting upon Glafs. 163

0.3.

encil

t, for

-

c Sil-

take

eme,

Ara-

mo-

re, in

160 1

nadd m fc-

felf ; rylfal

with

Iron,

with

each

oreli

mall

Res

VI. Red. Take Sanguis Draconis in powder, put to it rectified spirit of Wine; cover it close a little while, and it will grow tender; wring it out into a pot, that the dross may remain in the cloth; the clear preserve for use. This is a fair red.

VII. Carnation. Take Tin-Glass one ounce, Jet three ounces, Red-oker five ounces, gum two drachms, grind them together. It is afair Carnation.

VIII. Carnation. Take Jet four drachms, Tin-glass or Litharge of Silver two drachms; gum and scales of Iron of each one drachm, red chalk one ounce, grind them.

IX. Green. Take Verdegriese and grind it well with Turpentine, and put it into a pot; warming it at the fire when you use it.

X. Blew. Provide the cleareft leads you can get of that colour, beat them to powder in a brazen mortar; take Goldsmiths Amel of the fame colour, clear and transparent, grind each by it felf, take two parts of Lead, and one of Amel, grind them together as you did the Silver. The fame understand of Red and Green.

CHAP. XVIII.

Of the way of Painting upon Glass.

I. T Here are two manner of ways of painting upon glafs; the one is for oyl colour, the other for fuch colours as are afterwards to be annealed or burnt on.

II. To lay oyl colours upon glafs, you must first grind them with gum-water once, and afterwards temper it with Spanish Turpentine, lay it on and let it dry by the fire, and it is finished. III. To

164 Polygraphices. Lib.3.

Ch.2

S.R.

tit.

100

1012

W.

tion

VI

point

mC

聞う

VI

We I

OfI

Ven

Flor

pine

I.T

200

nd

20-00

10

111

III. To anneal or burn your glafs, to make the colours abide, you muft make a four fquare brick Furnace, eighteen inches broad and deep; lay five or fix crofs Iron bars on the top of it, and raife the Furnace eighteen inches above the bars: then laying a plate of Iron over the bars, fift (through a feive) a lay of flack'd Lime over the plate, upon which lay a row of glafs; upon that a bed of Lime, and upon that Lime, another row of glafs; thus continue fratum fuper fratum, till the Furnace is full.

IV. Lay also with every bed of glass a piece of glass, which you may wipe over with any colour (these are called watches) and when you think your glass is burnt enough, with a pair of plyers take out the first and lowest watch, and lay it on a board, and being cold, try if you can scrape off the colour, if it hold fast on, take out that row; always letting it abide the fire, till the colour will not scrape off.

transporent, grind each by it fair, take, two part

.137116-3

CHAP. XIX.

- 5135 (JTECTI.

Of Washing, and the Materials thereof.

I. B Y washing here we intend nothing else, but either to set out Maps or Printed Pictures in proper Colours, or else to varnish them.

II. The Instruments and Materials of washing are chiefly fix: to wit, 1. Alom-water. 2. Size. 3. Liquid Gold 4. Pencils. 5. Colours. 6. Varnish.

III. Tomake Alom-water. Take Alom eight ounces, fair water a quart, boil them till the Alom is diffolved.

IV. To make Size. Take glew, which fleep all night

Ch.20. Colours simple for Washing. 165

0.3.

10 00-

Fur-

orfix

Fur-

inga

alay

TOW

Lime,

tra-

glafs,

e are

1mm

and

old,

fire,

bat

105 10

a art

LS:

DCCS,

fid.

ight

11

in water, then melt it over the fire, to fee that it be neither too firong nor too weak: then let a little of it cool; if it be too fliff when it is cold, put more water to it, if too weak more glew, using it luke-warm. V. Liauid Gold. It is exactly made be the first Se-

ction of the 21 Chapter of the fecond Book.

VI. Pencils are to be of all forts both fitch'd and pointed; as allo a large pencil bruth to pafte Maps upon Cloth; another to wet the paper with Alom water; a third to ftarch the face of the picture withal before it be coloured; and a fourth to varnish withal.

VII. The colours are the fame with those which we mentioned in *Chap.* 17. *lib.* 2 to which add, 1. Of Black, Printers black, Franckford black. 2. Of Red, Vermilion, Roffet. 3. Of Blew, Verditure, Litmos Flory. 4. Of Tellow, Cambogia, Yellow-berries, Orpiment. 5. Brazil, Logwood (ground) and Turnfole, Cochenele, Madder.

CHAP. XX.

Of Colours fimple for Washing,

I. P Rinters black, Vermilion, Roffet, Verditure and Orpiment are to be ground, as we have taught at the fifth Section of the 22 Chapter of the fecond Book.

II. Brazil. To fome ground Brazil put fmall Beer and Vinegar, of each a fufficient quantity, let it boil gently a good while, then put therein Alom in powder to heighten the colour, and fome Gum-Arabick to bind it; boil it till it tafte firong on the tongue, and make a good red.

III. Logwood. Ground Logwood boiled as Brazil, makes

makes a very fair transparent Purple Colour.

IV. Cochenele. Steeped as Brazil was boiled, makes a fair transparent purple: as thus, take Cochenele and put it into the ftrongest Sope-lees to steep, and it will be a fair purple, which you may lighten or deepen at pleasure.

V. Madder. Take Madder four drachms, ground Brazil one ounce, Rain-water a quart; boil away a third part; then add Alom half an ounce, boil it to a pint; then Gum-Arabick one ounce, which boil till it is diffolved, cool it ftirring it often, and ftrain it for ufe. It is a good Scarlet die for Leather.

VI. Verdegriefe. Take Verdegriefe ground finely one ounce, put to it a good quantity of common varnifh, and fo much oyl of Turpentine, as will make it thin enough to work withal; it is a good green. And Verdegriefe, Alom, of each one drachm, Logwood three drachms, boiled in Vinegar, make a good Murry.

VII. Gambogia. Diffolve it in fair spring water, and it will make a beautiful and transparent yellow : if you would have it stronger, diffolve some Alom therein: it is good for Silk, Linnen, white Leather, Parchment, Vellom, Paper, Quills, &rc.

VIII. To make Verdegriese and Ceruse, according to Glauber.

Thefe colours are made with Vinegar in carthen pots fet into hot horfe dung : but if you diffolve your Venus or Saturn with fpirit of Nitre, and precipitate your Venus with a lye made of Salt of Tartar, and your Saturn with Salt water, edulcorating and drying them; the Venus will yield an excellent Verdegriefe, which will not corrode other colours as the common Verdegriefe doth; and the Saturn yields a Cerufe whiter and purer than the ordinary : much better for Painting or Chirurgery.

IX. Tel-

Cha

IX.

in A Lin

att

the sel

XI

朝

XI

men

biev

Cra

5-0

11

Amo

in:

bit.

la

四山

R

Chap. 21. Colours for Washing.

b.3

11

nakes

cacle

andig

Cepen

found

带游 王

H to a

oiltill

it for

inely

5 Yat-

akent

And

wood arry, ater, low:

Alom ather,

ing to

rthes

VOUI

pitate

200

rying

rick,

10000

erife

er tot

101-

IX. Tellow Fustick-berry. Boil it in water or steep them in Alom water, it makes a good yellow for the fame purpose.

167

X. Turnfile. Put it into fharp Vinegar over a gentle fire till the Vinegar boil, and is coloured; then take out the Turnfole and fqueeze it into the Vinegar, in which diffolve a little Gum-Arabick; it fhadows very well on a Carnation or yellow.

XI. Litmos. Cut it into finall pieces, and fteep it a day or two in weak Gum-Lake water, and you will have a pure blew water to wash with.

XII. Flory Blew. Grind it with glair of Eggs, if then you add a little Roffet it makes a light Violet blew; mixed with White and Red-lead, it makes a Crane feather colour.

XIII. Saffron. Steeped in Vinegar and mixed with gum-water 1s a good yellow.

CHAP. XXI.

Of Compounded Colours for Washing.

I. O Range Colour. Red-lead and Yellow berries make a good Orange colour : or thus, take Arnotto half an ounce, Pot-afhes one Drachm, water one pound, boil it half away, then thrain it, and use it hot.

It is good for White Leather, Paper, Vellom, Quills, Parchment, &c.

II. Green. Take distilled vinegar, filings of Copper, digest till the vinegar is blew, which let stand in the Sun or a flow fire till it is thick enough, and it will be a good green. Or

Cha

with .

X.

titt,

make XI

Fink

X

the li

120

upon

berne

ports

Rec

deep

II (D)

XI

make

Ultra

X

T

to Gi

11

R

ter

tog

Or thus, Take Cedar-green (which is best of all) or instead thereof green Bice, steep it in Vinegar, and strain it; then grind it well with fair water, and put to it a little honey, and dry it well; when you use it, mix it with gum-water.

III. To make fine Indico. apt bits plotter i and have

Take the bloffoms of Wode three ounces, Amylum one ounce, grind them with Urine and ftrong Vinegar, of which make a Cake, then dry it in the Sun and fo keep it for ufe.

IV. A Blew to wash upon paper.

Take of the belt Azure an ounce, Kermes two ounces, mix them, which temper with clear gum-water, and it will be a glorious colour.

Take quick Lime, make it into past with strong Vinegar, half an hour after put thereto more Vinegar to soften it; then add Indico in fine powder one ounce, mix them and digest it in horse dung for thirty or forty days.

VI. Another excellent Blew.

Mix fine white Chalk with juyce of Elder-berries full ripe, to which put a little Alom-water.

VII. Tomake blem Smalt.

Take fluxible fand, Sal-Nitre and Cobalt, mix them together.

VIII. A lively Yellow.

Diffolve Orpiment in gum-water, to which put a little ground Vermilion; grind them together and you shall have a very lively colour.

IX. A light Green. Take juyce of Rew, Verdegriefe, and Saffron, grind them well together and use them with gum-water.

Or thus, Take Sap-green, Flower-de-bice, or Tawny green, which steep in mater : Verditure and Ceruse mixt with

Chap. 22. Colours for Shadowing. 169

D.3

1) 01

to it a

察論

iylami

Vine-

e Sun

two-wa-

g Vi-

2110

incê,

ty or

enties

THE

put a

T 2Rd

ende-

(18)

MIN

THE

with a little Copper green, make a good light colour. X. Blew. Ultramarine, blew Bice, Smalt, and Verdi-

ture, ground fingly with gum-water, or together, make a good blew.

XI. Brown. Ceruse, Red-lead, English Oker, and Fink, make a good brown.

XII. Spanish-brown. To colour any horfe, dog, or the like, you must not calcine it; (yet not calcined it is a dirty colour :) but to shadow Vermilion, or lay upon any dark ground, behind a picture, to shade berries in the darkest places, or to colour wooden posts, wainfcot, bodies of Trees and the like, it is very good (being burnt.)

XIII. Fleft colour. Mix white, Indian Lake, and Red-lead (according as you would have it light or deep,) and to diffinguish a mans flesh from a womans, mingle with it a little Oker.

XIV. Colours of Stones. Verdegriefe with Varnish makes an Emerald : with Florance Lake a Ruby : with Ultramarine a Saphyr.

XV. A never faiding Green.

Take juyce of flowers of Flower-de-luce, put it into Gum-water and dry it in the Sun.

CHAP. XXII.

Of mixing Colours and Shadowing.

I. I N mixing be careful not to make the colour too fad, nor take the pencils out of one colour and put them into another.

II. In mixing colours, flir them well about the water feverally till they are well mixed; then put them together, making the colour fadder or lighter at pleafure. M III. Green

Ch

1.1

(III)

green II.

light side

int

ber

don

明

Will

fad

I

burn

I

kon wi

TOT

112

150

G

p

III. Green is shadowed with Indico and yellowberries.

IV. Elem is shadowed with Indico, Litmose and Flory; or any of them being steeped in Lees of Sopeasses, and used with gum-water.

V. Garments are fhadowed with their own proper colouis: or you may mingle the colour with white (for the light) and fhadow it with the fame colour unmingled: or you may take the thinneft of the colour for the light, and fhadow with the thickeft or bottom of the fame.

VI. Sap-green is only ufed to fhadow other greens with, and not to be laid for a ground in any Garment. VII. Lake ought not to be fhaded with any colour, for it is a dark red; but for variety you may fhadow it with Bice, or blew Verditure, which will make it like changeable Taffata.

VIII. The shadow for Tellow-berries is Umber; but for beauties sake with Red-lead, and the darkest touches with Spanish-brown; and for variety with Copper green, blew Bice or Verditure.

1X. White fees off blews and blacks very well: Red fees off well with yellow: Tellows with reds, fad blews, browns, greens, and purples.

X. 1 leve fets off well with yellows, reds, whites, browns, and blacks : and Green fets off well with purples, and reds.

of missing Colours and Shadowing

ter teresty all they are us to wanted a then pair men

rocether, mining the colour, 13duer. or had so have

AP.

and moleu surrent in ot ton hitserie uplour som

Chap.23. Colours for Landskips. 171

il conduirs in arises

1.3.

OW.

and ope-

toper

Visite

nuoio

10 CO-

ett or

reens

lent,

aur.

1 W It

like

; but

rkeft

with

Red

itwin,

bitts,

par-

AP.

CHAP. XXIII. Of Colours for Landskips.

I. GReen mixed with white, Pink, Bice, Massicot, Smalt, Indico, or Ceruse; or blew Verditure mixt with a few yellow-berries makes a good green for Landskips.

II. For the faddeft bills use Umber burnt; for the lightest places, put yellow to the burnt Umber : for other bills lay Copper green thickened on the fire, or in the Sun : for the next bills further off mix yellowberries with Copper green : let the fourth part be done with green Verditure; and the farthest and faintest places with blew Bice, or blew Verditure mingled with white, and shadowed with blew Verditure, in the shadows indifferent thick.

III. Let the bigb-ways be done with red and white Lead, and for variety Yellow-oker; fhadow it with burnt Umber, which you may use for fandy Rocks and Hills.

IV. Rocks may be done with feveral colours, in fome places black and white, in other places red and white, and in others blew and white, and the like, as yon fee convenient.

V. The water must be black Verditure and white, shadowed with green and blew Verditure : when the banks cast a green shadow upon the water, and the water is dark shadowed, then shade it with Indico, green thickned, and blew Verditure.

VI. Colour buildings with as much variety of pleafant colours as may be imaginable, yet let reafon be your rule in mixing your colours: you may fometimes

ule

Ch

1

W W

23

is

21

V

It W

11

14

2

Man II

Ga

tad hot

i is

ufe white and black for the wall, conduits or other things: for Brick-boufes and the like, Red-lead and white: if many boufes ftand together, fet them off with variety of colours, as Umber and white; Lake and white; Red-lead and white, and the like.

VII. Laftly, for the Skie, use Massicot or yellowberries, and white for the lowest and lightest places; red Rosset and white for the next degree; blew Bice and white for the other; blew Bice, or blew Verditure for the highest.

These degrees and colours must be so wrought together, that the edge of each colour may not receive any sharpness that is, so as that you cannot perceive where you began to lay them, being so drownded one in another.

CHAP. XXIV. Of the Practice of Washing.

I. W Ith the Alom-water wet over the pictures to be coloured, for that keeps the colours from finking into the paper, and will add a lastre unto them, make them shew fairer, and keep them from fading.

II. Then let the paper dry of it felf (being washed with *Alom-mater*) before you lay on the colours; or before you wet it again, for some paper will need wetting four or five times.

III. The washing of the paper with the Alom-water must be done with a large pencil brush, such as we have advised to at the fixth Section of the nineteenth Chapter of this Book.

IV. But if you intend to varnish your pictures after you have coloured them; instead of washing them with *Alom-mater*, first fize them with new fize, made of good white fiarch, with a very fine brush; and this you

Chap. 25. Making of Varnishes. 173

b.3.

other

and

with

and :

low.

1 i Ited

t and

ite for

gether,

pmels;

an b

T6b

res to

them, ding.

rathed

IS; OF

wet-

常臣を

125 82

teenth

esafter

mwith

ade of

d this

you

you must be fure to do all over, for elfe the varnish will fink through.

V. Having thus prepared your work go to laying on your colours according to the former directions fuiting them, as near as may be, to the life of every thing.

VI. The Picture being painted, you may with fize (as at the fourth Section of the nineteenth Chapter of this Book) pafte your Maps or Pictures upon cloth, thus: wet the fheet of cloth therein, wring it out, and ftrain it upon a Frame, or nail it upon a wall or board, and fo pafte your Maps or Pictures thereon.

VII. Laftly, if the Picture be to be varnished having thus fixed it into its proper Frame, then varnish it with a proper varnish (by the following rules) and the work will be fully finished.

CHAP. XXV.

Of the making of Varnishes.

I. TArnish for painting in Oyl.

V Take Massich two ounces, oyl of Turpentine one ounce; put the Massich in powder into the oyl, and melt it over the fire, letting it boil little or nothing (left it be clammy;) when it is enough, you may know by putting in a hens feather, for then it will burn it.

II. Varnish for painted Pictures.

Take white Rozin one pound, Plum-tree gum (or Gum-Arabick) Venice Turpentine, Linfeed-oyl, of. each two ounces; first melt the Rozin and strain it very hot; steep the Gum in oyl Olive(oyl ben is better) till it is diffolved, and strain it, to which put the Turpentine and Rozin, and over a flow fire mingle them till

they

ch

V

Win

diffe

1

att of

Gan

the

cla

Sitt

then

X

or t

two

dofe

X

tar) (an doni wal

feet any

they are well diffolved. When you use it, use it hot. III Another for the fame.

Take Olibanum and gum-Sandrack in powder, which mingle with Venice Turpentine, melting and incorporating them still over a gentle fire, then strain it hot.

When you use it let it be hot, and your Varnish will shine well; it dries immediately.

IV. Another for the fame.

Take oyl of Linseed, which distill in a glass Retort, one ounce, fair Amber dissolved three ounces, mix them over a flow fire, and it is done.

V. A very good Varnish for Gold, Silver, Brass, Iron, Stone, Wood, Vellom, or Paper.

Take Benjamin (made into fine powder between two papers) put it into a vial, and cover it with Spirit of Wine four fingers above it, and let it ftand three or four days; then ftrain it, and it will be bright and fhining, drying immediately, and retaining its brightnefs many years.

If you Varnish Gold, or any thing gilded, before the straining you should put in a few blades of Saffron for colour sake: but if Silver or any thing white, you ought to use the white part of the Benjamin only.

VI. A Varnish particularly for Gold, Silver, Tin, or Copper.

Take Linfeed oyl fix ounces, Mastick, Aloes Epatick of each one ounce; put the gums in powder into the oyl, into a glazed earthen pot, which cover with another, luting them together, in the bottom of which, let be a hole, whereinto put a small stick with a broad end to stir withal; cover themall over with clay, (except the hole) set it over the fire, and stir it as often as it settheth for a little while, then strain it for use. First let the metal be polished, then strike it over with this varnish.

Chap. 25. Making of Varnifbes.

VII. A Varnish for Wood and Leather.

2.3.

hot.

vder,

and

train

s Re-

inces,

, iron,

ween

pirit

three

t and

ight.

at the

for co-

got to

11,07

s Epa-Tinto

r with

atith,

broad

1. CA-

often

or ule. with

IL A

Take Tincture of Saffron or Turmerick in Spirit of Wine a pint, prepared Gum lake a lufficient quantity, diffolve the gum in the Tincture and it is done.

This is a Varnish of great use to lay over Gold, and Silver or any thing which is exposed to the Air.

VIII. To make the Common Varnish.

Take spirit of Wine a quart, Rozin one ounce, Gum-lake a sufficient quantity, diffolve the gums in a gentle heat (being close covered) and let them fettle : then gently decant off the clear, which keep in a clote Glais-bottle for use.

The thick which remains, you may frain through a cloth, and keep for other purposes.

IX. To make a red Varnish.

Take spirit of Wine a quart, Gum-lake four ounces, Sanguis Draconis in fine powder eight ounces, Cochenele one ounce, digest a week over a gentle heat, then firain it for ule.

X. To make a vellow Varnish.

Take spirit of Wine a pint, in which infuse (three or tour days) Saffron half an ounce, then firain it, and add Aloes Succotrina one ounce, Sanguis Draconis two ounces, which digeft a week over a gentle heat close covered, then strain it for use.

XI. An Universal Varnish the best of all others.

Take good Gum-Sandrick (but Gum-Anime is better) diffolve, it in the higheft rectified spirit of Wine (an ounce and a half more or lefs to a pint) and it is done. I of the training is a third to the

Where note, 1. That unlefs the Spirits be highly rectified, the Varnish cannot be good. 2. That fome put into it Linfeed oyl (which is nought ; oyl of ben is better) and mix them together. 3. Some mix boiled Turpentine with it; others Chymical oyls of deep colours (as of Cloves, Muce, Nut-M 4

278225,

022

IL

Testo

國斯

m

Idry

iz va

in a

IV.

Sectio

which

Whi

tas

mid

I.

First

山町湯

and the

RIS

端

N'E

POR!

(int

harri

face of

megs, Caraways, Cinnamon) according to the intent 4. That it ought to be kept in a glafs bottle close ftopped, left it curdle, and the Gums separate.

XII. The Indian Vernish for Cabinets, Coaches, and Such like.

Take the higheft rectified spirit of Wine a quart, feed Lake or shell Lake five ounces, put them into a glass body; and dissolve the Lake in Balneo (but beware left the water in the Balneum boil, for that will turn the Vernish white) this done strain the matter through a Flannel bag, and keep it in a glass bottle close story of the states.

Where note, 1. That if the spirit is good it will (if you put Gun-powder into it) burn all away and fire the Gun-powder. 2. That this Varnish done over leaf Silver, turns the Silver of a Gold colour. 3. That this is that Varnish which Coach-makers and others use for that purpose. 4. That it preserves the Silver which it is laid apon from the injuries of the Air. 5. That being laid upon any colour it makes it look infinitly the more beautiful. 6. That if it lies rough you may polish it with the impalpable powder of Emery and water.

CHAP. XXVI.

Of the manner of Varnishing.

I. T HE intent of Varnishing is either to preferve the gloss of paintings or pictures, or elfe to represent and imitate the forms of shining and perlucid bodies.

II. To varnish paintings and pictures, 'tis no more but with a pencil dipt in the varnish to go over the fame

Ch.26. The manner of Varnishing. 177

fame, then letting it dry; and so going over it so often as in reason you shall see convenient.

III. If you are to imitate any thing, as Marble, Tortoife-fhell, Amber, Lapis Lazuli or the like ; you mult first make the imitation of them, upon that whith you would varnish, with their proper colours, as in Limning or Painting with oyl; which must be throughly dry : then by the second Section go over all with the varnish, so often till you fee it thick enough; letting it dry every time leffurely. For example fake,

IV. To imitate Marble.

.3.

t4.

and

uart,

s oto

atbe-

twill

atter

ottle

ifyou

n the

itiet,

toat

103

laid

d np-

auti-

to the

Citt

ferve

elleto

d per-

motê

T the

ame

Take of the Universal varnish at the eleventh Section of the five and twentieth Chapter, (with which mingle Lamp-black (or other black) and White-lead finely beaten, and with a brush pencil, Marble the thing you would varnish according to your fancy; lastly, being dry strike it again two or three times over with clear varnish alone, and it will be perfect.

V. To imitate Tortoife- (hell. 11.01 an of things V lines

First lay a white ground, then with convenient colours (as Vermilion with Auripigment) duly mixt with common varnish, fireak and shadow the white ground with any wild fancy (as nearly imitating Tortoile-shell as you can) which being dry, strike it here and there with the red varnish (mixed with a little Sinaper or Indian Lake) then up and down the work as nature requires touch it with varnish mixed with any good black; then ftroke it over with Univerfal varnif four or five times, letting it dry every time; laftly, let it dry well a week, and with Pumice frone in fine powder) and a wet cloth polifh it by rubbing; then go. over it again three or four times with the Universal varnish, and (if need require) polish it again with fine putty as before ; after which you may once again ftrike

strike it over with the faid Varnish, and it will be done.

VI. To imitate Tortoife-fhell upon Silver or Gold.

A white ground being laid, and fineared over with Vermilion or the like; lay over the fame leaves of Silver or Gold (as we have taught in other places) either with Gum-Ammoniacum, Lake, common Varnish or glair; this done, and being dryed, shadow it according to reason; striking it over here and there with yellow Varnish, and with the yellow Varnish mixed with a little red Varnish; (all things being done in imitation of the shell) strike it several times over with the Universal Varnish, and polish it (in all respects) as before.

VII. To imitate Lapis Lazuli.

Upon a ground of White-lead, Spodium or the like in common Varnifh (being first dry) lay Ultramarine or fome other pure blew well mixed with the Universal Varnish, so as that the ground may not appear : then with wild, irregular streaks (in refemblance of Nature) with liquid or shell Gold, run straglingly all over the blew, adding very small specks upon the blew part, of such various colours, as are usually to be seen upon the store.

ir or Indian Lake) then up and diven the

any good alacks then firsted it over with Similareta here.

powelet land a wet close points why we bast a bast go

over it again timed or loor times with the University

tine sice as before a store which were nerver and an shirt

as mature requires too . It wish verying miss

het te dit Weil a Werk, tend wife aunited home its

CHAP.

(ha)

Es

A

a XIII

Oil c

which

fion o

Tata

The

初中

nintd

made :

foris,

thio

haigh

II.

fre in chalin

IV.

dla

min

V.

dye

VI

Ch.27. Of Vegetable Colours, &c. 179

0.3

ill be

dd.

ne leanother

Lake

gdryit over

with

Var-

of the

Uni-

25 02-

he like

name

e Uni-

Dear :

ince of

agiy all

oon the

v tobe

AP.

CHAP. XXVII. weid: : e

Esperimental Observations of Vegetable Colours in General.

I. A Strong infusion of Galls filtred, mixed with a strong and clear solution of Vitriol, makes a mixture as black as Ink: which with a little strong Oyl of Vitriol is made transparent again: after which the black colour is regained again, by the affustion of a little quantity of a strong solution of Salt of Tartar

The first black (although pale in writing, yet) being dry, appears to be good Ink.

II. Decoction of dried red Rofes, in fair water, mixed with a little filtrated folution of blew Vitriol made a black colour : this mixed with a little Aquafortis, turn'd it from a black, to a deep red; which by affufion of a little fpirit of Urine, may be reduced ftraight to a thick and black colour.

III. Tellow wax is whitned by diffolving it over the fire in fpirit of Wine, letting it boil a little, and then exhaling the fpirit of Wine; or elfe whilft it is hot, feperating it by filtration.

IV. Fair water mixed with a blood red Tincture of Benjamin drawn with spirit of Wine, immediately makes it of a milk white colour.

V. Blackness may be taken away with oyl of Vitriol; fo black pieces of Silk or Hair I have turn'd to a kind of yellow.

VI. A handful of Lignum Nephitricum rasped, infufed in four pound of spring water, yields between the light

Chap

in a column and a

t Li

mais

ingin XV.

stan

XV.

Clotes

and

fider

falts

basi

XV

alestiz

XV.

Airm

linder.

4:

alid

E10 2

Made

mit

脑

X

动

fing

ted i Care

light and the eye and almost golden colour (unless the infusion be too strong) but with the eye between the light and it (in a clear vial) a lovely blew as indeed it is : this with spirit of Vinegar may be made to vanish (still keeping its golden colour) and after with oyl of Tartar per deliquium may be reftored again.

VII. Cloth died with blew and Woad, is by the yellow decoction of Luteola died into a green.

VIII. Syrup of Violets mixed with a high folution of Gold in Aqua regia, produces a reddifh mixtute; and with a high folution of filings of Copper in fpirit of Urine, a lovely fair green.

IX. Syrup of Violets mixed with a little juyce of Lemons, spirit of Salt, Vinegar, or the like acid Salt, will be immediately red; but mixt with oyl of Tartar, or a folution of pot-asses, it will in a moment be perfect green: the like in juyce of blew-bottles.

X. A good quantity of oyl of Tartar, put into a ftrong folution of Verdegriefe, gives a delightful blew; which may be varioufly changed by adding fpirit of Urine, or Hartfhorn.

XI. Although red Rofes hung over the fume of Sulphur, lofe all their rednefs, and become white : yet oyl of Sulphur (which is nothing but the fumes condenfed) doth wonderfully heighten the tincture of the fame.

XII. Cochenele will have its colour far more heightned by fpirit of Urine, than by rectified fpirit of Wine : and one grain of Cochenele in a good quantity of fpirit of Urine, being put into one hundred twenty fix ounces of water, tinged it (although but faintly :) which amounts to above one hundred twenty five thoufand times its own weight.

XIII. Twenty grains of Cochenele being mixed with an ounce of Saceharum Saturni, makes a most glori-

Chap. 27. Of Vigetable Colours. 181

0.3.

fsthe

to the

leed it

vanish

cylof

by the

lution

tiute;

1 fpirit

vce of

d Salt,

Tar-

ent be

into a

ghtful

ng fpi-

ume of

e: yet

5 COD+

ure of

wipe:

of lpi-

uly:)

ry tive

mixed

a most

glori-

glorious purple colour: and fo accordingly as the quantity is either diminished or encreased, so the purple colour shall be either lighter or deeper.

XIV. A few Grains of Cochenele being mixed with the Lixivium of Quick-lime in a due proportion, makes a faiding purple colour, of the greatest glory imaginable in the world.

XV. The juyce of privet berries with spirit of Salt, is turned into a lovely red : but with a strong solution of pot-ashes into a delightful green.

XVI. Upon things red by nature, as Syrup of Clovegilliflowers, juyce of Buckthorn berries, infufion of red Rofes, Brazil, &c. Spirit of Salt makes no confiderable change, but rather a lighter red : but other falts turn them into a greenifh; especially juyce of buckthorn berries.

XVII. Juyce of Jasmin and snow drops, by a strong alcalizate solution, was (although of no colour) turned into a deep greenish yellow.

XVIII. Buckthorn berries being gathered green and dried, are called Sap-berries, which being infused in Alom-water gives a fair yellow (which is nsed by Bookbinders for the edges of their Books, and to colour Leather also:) being gathered when they are black, they are called Sap-green, and make a green colour being put into a Brass or Copper vessel for three or four days; or a little heated upon the fire, and mixed with Alom in powder, and pressed forth; so put into bladders hanging it up till it is dry: and being gathered about the end of November, (when they are ready to drop) they yield a purplish colour.

XIX. Tincture of Cochenele, diluted never fo much, with fair water, will never yield a yellow colour : a fingle drop of a deep folution in fpirit of Urine, diluted in an ounce of fair water, makes a fair Pink, or Carnation. XX. Oyl

Ca27

the second

5

BULL A

F 1001

LOW

mdes

載和

XXI

(I.a.

.....

Nes 8

iamós

XX

XX

12 2

Take 1

the.

here

folig we have

Tech

in the

XX. Oyl or spirit of Turpentine, digested with pure white Sugar of lead, yields in a short time a high red tincture, which Chymists call Balfamum Saturni.

XXI. Spirit of Salt dropt into a ftrong infufion of Cachenele or juice of black cherries, makes immediately a fair red: but dropt into the infufion of Brazil, a kind of yellow: fo the filtrated tincture of Balaustins mixed with good fpirit of Urine, or the like, turns of a darkifh green; but with fpirit of Salt, a high rednefs, like rich Claret wine; which glorious colour may in a moment be deftroyed, and turned into a dirty green, by fpirit of Urine.

XXII. A high infusion of Lignum Nephriticum, mixed with spirit of Urine, gives so deep a blew, as to make the liquor opacous : which after a day or two vanishes, and leaves the liquor of a bright amber colour.

Where note that instead of Spirit of Urine you may use oyl of Tartar, or a strong solution of pot ashes.

XXIII. Infusion of Logwood in fair water (mixt with fpirit of Sal Armoniack) straight turns into a deep, rich, lovely purple; two or three drops to a spoonful is enough, left the colour be so deep, as to be opacous.

XXIV. Spirit of Sal Armoniack will turn fyrup of Violets to a lovely green.

XXV. Infusion of Litmoss in fair water, gives in a clear glass a purple colour: but by addition of spirit of Salt, it will be wholly changed into a glorious yellow.

XXVI. The infusions and juices of feveral plants, will be much altered by a folution of Lead in spirit of Vinegar : it will turn infusion of red rose leaves into a fad green.

XXVII.So Tincture of red roles in fair water, would be turned into a thick green, with the folution of *Mi*nium in fpirit of Vinegar; and then with the addition of

Ch.27. Of Vegetable Colours, &c. 183

b.3.

pute

hind

ion of

liately

a kind

Lixed

s of a

daels;

aying

gitto,

,mix.

make

nilhes,

124 22

This

1010 2

ps to a

TOP OF

16 11 1

pint of

elim.

plants

lpirit of es into a

of Mi-

of

of oyl of Vitriol the refolved Lead would precipitate white, leaving the liquor of a clear, high red colour again.

XXVIII. We have not yet found, that to exhibit firong variety of colours, there need be imployed any more than these five, White, Black, Red, Blew, Yellow : for these being variously compounded and decompounded exhibit a variety and number of colours; such as those who are strangers to painting can bardly imagine.

XXIX. So Black and White varioufly mixed, make a vaft company of light and deep Grays: Blew and Tellow, many Greens: Red and Tellow, Orange-tawneis: Red and White, Carnations: Red and Blew, Purples &c. producing many colours for which we want names.

xxx. Acid falts destroy a blew colour: Sulphureous, Urinous or fixed restore it.

XXXI. Acid and Alcalizate falts, with many bodies that abound with Sulphureous or oyly parts will produce a red, as is manifest in the Tincture of Sulphur, made with Lixiviums of Calcined Tartar or potasfies.

XXXII. Lastly, it may be worth tryal (fince it bath fucceeded in some experiments) fo to take away the colour of a Liquor, as that it may be colourles: which in what we have tryed, was thus: first by putting into the Tincture, Liquor, or Juyce, a quantity of the folution of pot-asses or oyl of Tartar per deliquium; and then affusing a good or strong solution of Alom, which in our observations precipitated the tinging matter, or gathered it into one body (like as it were curds) and so left the Liquor transparent and clear as Crystal.

CHAP.

idida of the CHAP. XXVIII.

184 Polygraphices. 10 Lib.3.

ofent of visition the refolved Leadswould precipitate

THE REPORT OF STREET, STRE

Lin

then orfs,

V

(02

WIL

and

V.

men

relk

wit

Co

rta

the

CO W

Y

bur

the

glori X. fpirit ftore

X

X

rah

da

gro

÷

General Experimental observations of Mineral Colours.

1. S Ublimate diffolved in fair water, and mixed mixture in a moment : which by addition of Aquafortis, immediately again becomes transparent.

II. If Sublimate two ounces, and Tin-glass one ounce be fublimed together, you will have a lublimate not inferiour to the best Orient Pearls in the world.

III. Silver diffolved in Aqua-fortis, and evaporated to drynels, and fair water poured two or three times thereon, and evaporated, till the calx is dry, leaves it of a Snow whitenels: which rubbed upon the skin, (wetted with spittle, water or the like) produces a deep blackness, not to be obliterated in some days.

With this, Ivory, Hair, and Horns may be dyed in fair water of a lasting black.

IV. Coral diffolved by oyl of Vitriol Sulphur, or fpirit of vinegar, and precipitated by oyl of Tartar, yields a Snow whitenefs. The fame of Crude Lead and Quickfilver diffolved in Aqua-fortis: So butter of Antimony reclified by bare affusion in much fair waters will (though Unctuous) be precipitated into that Snow white powder which (being washed from its corrolive falts) is called Mercurius Vita: the like of which may be made without the addition of any Mercury at all. V. Mercury Sublimate and precipitate yields (with the fpirit of Urine, Hartshorn, or the like) a white precipitate: but with the folution of Pot-ashes, or other Lixiviate

Chap. 28. Of Mineral Colours.

0.3

Diza

Agas

5 000

ild.

rata

time

110

skin

tices 1

S.

in fa

ur, C

arta

e Lea

Wild

Scot

mohn

由間

y 21 2 5 (mi

in it

in

Lixiviate Salts an Orange Tawny. And if on a filtrated folution of Vitriol, you put the folution of a fixed falt, there will fubfide a copious fubftance far from whitenefs, which Chymitts call the Sulphur of Vitriol.

VI. If Copper two ounces be mixed with Tin one ounce, the reddiffnefs will vanish: and if Arfenick (calcined with Nitre) in a just proportion be mixed with melted Copper, it will be blanched both within and without.

VII. Fine powders of blew Bice, and yellow Orpiment, flightly mixed, give a good green : and a high yellow folution of good Gold in Aqua regia, mixed with a due quantity of a deep blew folution of crude Copper in firong spirit of Urine, produces a transparent green : And so blew and yellow Amel sufed together in the flame of a Lamp, being strongly blowed on without ceasing, produces at length a green colour.

VIII. An urinous falt, largely put into the diffolution of blew Vitriol in fair water, turn'd the liquor and corpufcles (which refided) into a yellowish colour like yellow Oker.

IX. Verdegriese ground with falt Armoniackand the like (digested for a while in a dunghil) makes a gloriour blew.

X. The true glass of Antimony extracted with acid spirits (with or without Wine) yields a red tincture.

XI. Balfom of Sulphur (of a deep red in the glafs) fhaked about, or dropt on paper gives a yellow Itain.

XII. If Brimftone and Sal-Armoniack in powder, of each five ounces, be mixed with quick-lime in powder fix ounces, and diffilled in a Retort in fand by degrees; you will have a volatil spirit of Sulphur of excellent rednefs, though none of the ingredients be so. So also oyl of Annifeeds mixed with oyl of Vitriol, gives

N

186 Polygraphices.

n a trice a blood red Colour, which foon decays.

Lib. 3.

C

24

Co

los

po

the

di

of

E¢.

off

per

fu

co los

Ver

ho

W

hu

ble

ofi

해

wh

of

fern for

10

Ye

XIII. Fine Silver diffolved in Aqua-fortis, and preci-Pitated with spirit of Salt; upon the first decanting the liquor, the remaining matter will be purely white; but lying uncovered, what is subject to the ambient Air will lose its whitenes.

XIV. Sublimate diffolved in a quantity of water and filtred, till it is as clear as Cryftal, mixed (in a Venice glafs) with good oyl of Tartar per deliquium filtred, (three or four drops to a fpoonful) yields an opacous liquor of a deep Orange colour; after which if four or five drops of oyl of Vitriol be dropt in, and the glafs ftraightway be throngly fhaked, the whole liquor will (to admiration) be colourlefs without fediment. And if the filtred folution of fublimed Sal-Armoniack and Sublimate of each alike be mixt with the folution of an Alcali, it will be white.

XV. Spirit of Sal-Armoniack makes the folution of Verdegriefe an excellent Azure; but it makes the folution of Sublimate yield a white precipitate.

XVI. So the folution of filings of Copper in fpirit of Urine (made by fermentation) gives a lovely Azure colour: which with oyl of Vitriol (a few drops to a fpoonful) is deprived in a trice of the fame, and makes it like fair water. And fo a folution of Verdegriefe in fair water, mixed with firong fpirit of Salt, or dephlegmed Aqua-fortis, makes the greennefs almost totally to difappear.

XVII. Quick-filver mixed with three or four times its weight of good oyl of Vitriol, and the oyl drawn off in fand, through a glafs Retort, leaves a Snow white precipitate; which by affulion of fair water, becomes one of the lovelieft light yellows in the world, and a durable colour.

XVIII. Tin calcined per fe by fire, affords a very white calx

Chap. 28. Of Mineral Colours. 187

30

1.

ng

ti,

10

ilit"

Ve.

til.

0.0

lich

i.

1/2-

107-

the

n of

c10-

oirit

Sint

\$101

ikes

le in

r de-

tto-

ES

n ott

white

iomics

300 3

white

Call

calx called Putty: Lead, a red powder called Minium: Copper, a dark or blackish powder: Iron, a dirty yellowish colour, called Crocus Mariis: and Mercury a red powder.

XIX. Gold diffolved in Aqua Regia Ennobles the Menstruum with its own colour: Silver Coyn diffolved in Aqua-fortis yields a tincture like that of Copper; but fine Silver a kind of faint blewishness: Copper diffolved in spirit of Sugar (drawn off in a glass Retort) or in oyl or spirit of Turpentine, affords a green tincture; but in Aqua-fortis, a blew.

XX. Vermilion is made of Mercury and Brimstone fublimed together in a due proportion.

XXI. Glafs may have given to it a lovely golden colour with Quick-filver; but it is now coloured yellow generally with calx of Silver: yet fhell-Silver, (fuch as is used with pen or pencil) mixed with a convenient proportion of powdered glafs, in three or four hours fusion, gave a lovely Sapphyrine blew.

XXII. Glais is tinged green (by the Glafs-men) with the Calx of Venus: which Calx mixed with an hundred times its weight of fair glafs, gave in fusion a blew coloured mass,

XXIII. Putty (which is Tin calcined) as it is white of it felf, fo it turns the purer fort of glass metal into a white mass, which when opacous enough, ferves for white Amel.

XXIV. This white Amel is as it were the Bafis of all those fine Concretes, that Gold-smiths, and several Artificers use, in the curious Art of Enameling is for this white and suffible substance, will receive into it felf, without spoiling them, the colours of divers other Mineral substances, which like it will endure the fire.

N

2 XXV. Glafs

XXV. Glafs is alfo tinged blew with the dark mineral called Zaffora; and with Manganess or Magnessia in a certain proportion which will tinge glass of a red colour; and also of a Purplish or Murry; and with a greater quantity, into that deep colour which passes for black.

188

XXVI. Yellow Orpiment fublimed with Sea-Salt, yields a white and Cryftalline Arfenick; Arfenick coloured with pure Nitre being duly added to Copper when 'tis infufion, gives it a whitenefs both within and without.

pol

mo

PP for Te

afi

the

coli

Will Will

Ma in dia

XXVII. So Lapis Calaminaris turns Copper into Brafs.

XXVIII. And Zink duly mixed with Copper when 'tis in fufion, gives it the nobleft golden colour that was ever feen in the belt gold.

XXIX. Copper diffolved in Aqua fortis will imbue feveral bodies of the colour of the folution.

XXX. Laftly, Gold diffolved in Aqua regia will (though not commonly known) dye Horns, Ivories and other Bones of a durable purple colour: And the Cryftals of Silver made with Aqua-fertis, (though they appear white) will prefently dye the Skin, Nails, Hair, Horn, and Bones, with a Black not to be washed off.

CHAP.

Chap.29. Of Metals.

CHAP. XXIX,

189

5

Of Metals.

I. TO barden Quick-filver.

11

11

15

it,

-00

130

nia

nto

Dên.

hat

DUC

will

the

ngh

fees

APi

Caft your Lead feparated from its drofs in to a veffel, and when it begins to cool, thruft in the point of a flick, which take out again and caft in the Argent Vive, and it will congeal: then beat it in a mortar, and do fo often; when it is hard melt it often, and put it into fair water, doing it fo long till it is hard enough; and may be hammered.

II. To tinge Quick-filver of the colour of Gold.

Break it into imall pieces (being hardned) which put into a Crucible, with the powder of Cadmia, ftratum fuper stratum, mixed with Pomegranate peels, Turmerick (beaten fine) and Raisons, cover the Crucible and lute it well dry it well; and then set it on a fire for fix or seven hours, that it may be red-hot; then blow it with bellows till it run, which then let cool whiles covered with coals, and it will have the colour of gold.

III. To fix Quick-filver being bardned.

This is done with fine powder of Cryftal glafs, laid with the Metal fratum fuper stratum in a Crucible covered and luted; heating it all over red-hot, and then melting of it.

IV. To make Quick-filver malleable.

First harden it by the first Section, then break the Metal into small pieces, and boil it a quarter of an hour in sharp vinegar : then add a little Sal-Armoniack, and digest all together for ten or twelve days; then boil all together in a luted Crucible, till it is red-hot, and by N 3 degrees

Polygraphices.

Lib.3.

ten

1

in)

Ver

Ar

The

8

Wa

ito

Sal

Ber

cal

the

山山

ing

82

河前

(H

加

degrees crack : laftly, hang the Mercury in a pot with Brimftone at bottom to cover it ; lute it and fet it into the fire, that it may grow hot by degrees, and receive the fume of the Sulphur; do thus for a month once a day, and the Mercury will run and be hammered.

V. Another way of tinging Mercury.

Take purified Mercury one ounce, Sulphur two ounces, Aqua fortis three ounces, let them all ftand till the water grow clear; diftil this with its fediment, and at bottom of the Limbeck: you fhall find the Mercury hard, and of an exact colour.

VI. To colour and Soften Gold.

Diffolve Verdegriefe in vinegar, and firain it through a felt, then congeal, and when it begins to wax thick, put to it fome Sal-Armoniack, and let it harden a good while, then melt gold with it, and it will heighten the colour and make it foft.

VII. To make Gold and Silver fofter.

Take Mercury Sublimate, Sal-Armoniack, of each alike, powder them, melt the gold, and put to it a little of this powder, and it will be foft.

VIII. Another way to do the fame.

Take Vitriol, Verdet, Sal-Armoniack, burnt Brafs, of each half an ounce, mix them with Aqua-fortis, let it fo repofe in the heat two days, then let it harden, do thus three times with Aqua fortis, and let it dry, make it into powder, to one dram put one ounce of gold three times and it will be fofter.

IX. Another way to do the fame in Silver.

Take Salt-peter, Tartar, Salt, Verdet, boil all together, till the water is confumed, then put to it **U**rine, and let it fo confume, and you fhall have an oyl, which put into melted Silver will do the fame.

Or thus, Take as many wedges as you have melted, par them

Chap. 29. Of Metals.

1.

th

D¢,

10 till

nt,

the

a it

10 tit

it

2ch

ita

15,

TIN,

dên,

dry,

e of

10-

tu-

1054

,加

北西

them one night into a crucible in a furnace, but so as they ~ melt not, and they will be foft and fair.

Or thus, Take boney, oyl, of each alike, in which quench the Gold or Silver three or four times, and it will be fofter.

Or thus, Take Mastich, Frankincense, Myrrb, Boraz, Vernix, of each alike all in powder.

Or thus, Quench the Gold or Silver in wat r of Sal-Armoniack, and it will be foft.

X. To tinge Silver of a Gold colour.

Take fine Gold, fine Silver, good Brafs, and Brafs or Copper calcin'd with Sulphur-vive, of each alike, melt them down together, and it shall appear to be gold of eighteen carets fine.

XI. Inother way to tinge Silver.

Take Quick-filver purged three ounces, leaf-gold one ounce, mix them and put them into a glafs Retort well luted, put it on the fire till it grow hot ; then take it off, and add to it Quick-filver purged two ounces, Sal-Armoniack one ounce, Sal Ellebrot half an ounce, Borax two drachms; then feal up the glafs hermetically, and put it into a continual fire for three days; then take it out, let it cool, open the Retort, take out the matter, and powder it very fine : of which powder mix one ounce with filver five ounces, and it will tinge it into a good gold colour.

Note, Sal Ellebrot is thas made. Take pure common Salt, Sal Gem, Sal Alcali in porrder, of each one ownce, juyce of mints four ounces, Spring water four pound, mingle them, and evaporate. And Quick-filver is purged by washing it in sharp Vinegar three or four times and straining it ; or by fubliming it which is better.

XII. To bring Silver into a Cala.

This is done by amalgamating of it with Ouick-filver, and then fubliming of it; or by diffolving it in N 4

Agna-

Cha

Difo

ing li

mil

sna

X

Ta

nd-h

bythe

per ha

be p

Tut

itis

XI Ta

entqu bright colori

> XY M

ndt

XX Tal bol t bol t bring XX Her tiTal

1

I

COD

Pur Cro

Aqua-fortis, and precipitating it with the folution of Salt in fair water, and then washing it with warm water often to free it from the falts : or elfe by mingling the filings with fublimed Mercury, and in a Retort causing the Mercury to ascend which will leave at bottom the Calx of Silver, fit for Jewels, &c.

XIII. Toblanch Silver.

192

Take Sal-Armoniack Roch-Alom, Alom Plumofum, Sal gem, Argal, Roman-Vitriol, of each alike; powder and mix them, and diffolve them in fair water, in which boil the Silver for long, till you fee it wonderful white.

XIV. To colour Silver of a Gold colour.

Take Saft peter two pound, Roch-Alom five pound, mingle, and diftil them, keeping the water for ule. When you use it, melt the Silver, and quench it in the faid water.

XV. Totinge Brass of a Gold colour.

Diffolve burnt Brass in Aqua-fortis (made of Vitriol Salt-peter, Alom, Verdegriefe, and Vermilion) and then reduce it again, and it will be much of a good colour. XVI. To make Irass through white.

Heat Brais red-hot, and quench it in water diffilled from Sal-Armoniack, and Egg-fhells ground together, and it will be very white.

XVII. To make Brass white otherwise.

Take Egg-fhells and calcine them in a Crucible and temper them with the whites of Eggs, let it ftand fo three weeks; heat the Brafs red-hot, and put this upon it.

XVIII. To make Bras.

Take Copper three pounds, Lapis Calaminaris one pound in powder, melt them together the space of an hour, then put it out.

XIX. The way to colour Brass white.

Diffolve

Chap. 29. Of Metals.

3-

ng

Ort

tat

vier a

i, 10

130

tive ater

nch

triol

hen

aur.

iled

ther,

nd fo

this

3000 %

01 30

Tola

Diffolve a peny weight of Silver in Aqua-fortis, putting it to the fire in a veffel, till the Silver turn to water; to which add as much powder of white Tartar as may drink up all the water, make it into balls, with which rub any Bras, and it will be white as Silver.

XX. To tinge Copper of a Gold colour.

Take Copper, Lapis Calaminaris, of each four drachms, Tutty two drachms; heat the Copper red-hot twice, quenching it in pifs; doing the like by the Lapis and Tutty: take of the diffolved Copper half an ounce, adding to it Honey one ounce, boil them till the Honey look black and is dry that it may be powdered, which then beat with the Lapis and Tutty: boil them again, till the Copper is melted and it is done.

XXI. Another way to make Copper of a Gold colour.

Take the Gall of a Goat, Arfnick, of each a fufficient quantity, and diftil them ; then the Copper being bright being washed in this water, will turn into the colour of Gold.

XXII. Another way to do the fame.

Melt Copper, to which put a little Zink in filings, and the Copper will have a glorious golden colour.

XXIII. To make Copper of a white colour.

Take Sublimate, Sal-Armoniack, of each alike; boil them in Vinegar, in which quench the Copper being made red-hot; and it will be like Silver.

XXIV. Another way to whiten Copper.

Heat it red-hot divers times, and quench it in oy! of Tartar per deliquium, and it will be white.

XXV. Another way to whiten Copper.

Take Arfnick three ounces, Mercury Sublimate two ounces, Azure one ounce, mix them with good and pure greafe like an ointment, with which anoint any Copper veffel, then put that veffel into another, and

fee

Chap

in it

ad evi

a from

Braks.

XX

Firf

辦加

whiten

ter till

if in

DOG 1

Aver

the p

Super

Very (

and on

包板

t) 111

動的

her-fte

which

fil wi

har

XX

Rub

te ma

AND IN TH

電話

动

his

X

fet it into a digestive heat for two months, after which cleanse it with a brush and water, and it is done.

XXVI. Another way to whiten Copper.

Take Arfnick calcined with Salt peter, and Mereury Sublimate, which caft upon melted Copper, and it will be white like Silver.

XXVII. To foften Copper.

194

Melt burnt Brass with Borax in a Crucible, quench it in Linseed-oyl, and then beat it gently on an Anvil; boil it again and quench it in oyl as before, doing thus five or fix times, till it is fost enough; and this will neatly unite with Gold, of which you may put in more by half than you can of other Brass.

XXVIII. To tinge with Iron a Gold colour.

Lay in a Crucible plates of Iron and Brimftone, ftratum fuper ftratum, cover and lute it well, and calcine in a fornace, then take them out and they will be brittle: put them into a pot with a large mouth, and put in fharp diffilled vinegar, digefting till they wax red over a gentle heat: then decant the vinegar, and add new, thus doing till all the Iron be diffolved; evaporate the moifture in a glafs Retort or Vefica, and caft the remaining powder on Silver, or other white Metal, and it will look like Gold.

XXIX. To make Iron or Silver of a Brass colour.

Take Flowers of Brass, Vitriol, Sal-Armoniacks of each alike in fine powder; boil it half an hour in firong vinegar, take it from the fire, and put in Iron or Silver, covering the veffel till it be cold, and the Metal will be like to Brass, and fit to be gilded : or rub polished Iron with Aqua-fortis in which filings of Brass is diffolved.

XXX. To tinge Iron into a Brafs colour.

Melt the Iron in a Crucible catting upon it Sulphur vive, then caft it into fmall rods, and beat it into pieces

(for

Chap.29. Of Metals.

(for it is very brittle) then in Aqua-fortis diffolve it, and evaporate the menstruum, reducing the powder by a strong fire into a body again, and it will be good Brass.

XXXI. To whiten Iron.

1.3.

hich

Mer-

and

ench

nvil;

thus

will

ut m

fione,

cal-

rillbe

, and

Wax

, and

; EV2-

nd cali

te Ma-

iacky of

iour in In Iron

ind the

ed: or

ings cl

alphur

Pitto

(for

First purge it, by heating it red hot and quenching it in a water made of Ley and Vinegar, boiled with Salt and Alum, doing this fo often till it is fomewhat The fragments of the Iron beat in a morwhitened. tar till the Salt is quite changed, and no blacknefs is left in the Liquor of it, and till the Iron is cleanfed. from its drofs: then Amalgamate Lead and Ouickfilver together, and reduce them into a powder; lay the prepared plates of Iron and this powder fratum Super stratum in a Crucible, cover it, and lute it all over very strongly, that the leaf fume may not come forth, and put it into the fire for a day; at length encreafe the fire, to as it may melt the Iron (which will quickly be) and repeat this work till it is white enough : It is whitened alfo by melting with Lead, the Marchafit or fire-ftone and Arfnick. If you mix a little Silver (with which it willingly unites) with it, it gives a wonderful. whitenefs, fcarcely ever to be changed any more, by any art whatloever.

XXXII. To keep Iron from Rusting.

Rub it over with vinegar mixt with Cerufe; or with the marrow of a Hart : if it be rufty oyl of Tartar per deliquium will prefently take it away and cleanfe it.

XXXIII. To cleanfe Brass.

Take Aqua-fortis and water of each alike, fhake them together, and with a woollen rag dipt therein rub it over: then prefently rub it with an oyly cloth; laftly, with a dry woollen cloth dipt in powder of Lapis Calaminaris, it will be clear and bright as when new. XXXIV. To fosten Iron.

Take

Chap

Shin

ine po

of Con

with ine, (

金Fm

mt, 2

althe

pound

meth

fid po

RI, II is defi

in T.

XL

Tz

額如

ERO j

tom.

XL

kis

「四日」

male mai

der:

第 1

Take Alom, Sal-Armoniack, Tartar, of each alike, put them into good Vinegar, and fet them on the fire, heat the Iron, and quench it therein : or quench it four or five times in oyl, in which melted Lead hath been put fix or feven times.

XXXV. To make Iron of a Gold colour.

196

Take Alom of Melancy in powder, Sea-water; mix them: then heat the Iron red-hot, and quench it in the fame.

XXXVI. To make Iron of a Silver colour.

Take powder of Sal-Armoniack, unflac'd-lime, mix and put them into cold water, then heat the Iron red-hot, quench it therein, and it will be as white as Silver.

XXXVII. To foften Steel to grave upon.

This is done with a Lixivium of Oak-afhes and unflak'd Lime, by cafting the Steel into it, and letting it remain there fourteen days. Or thus take the Gall of an Ox, man's Urine, Verjuice, and juyce of Nettles of each alike, mix them; then quench Steel red-hot therein four ar five times together, and it will become very foft.

XXXVIII: To barden Iron or Steel.

Quench it fix or feven times in Hogs blood mixed with Goofe-greafe, at each time drying it at the fire before you dip it again, and it will become very hard and not brittle.

XXXIX. To folder on Iron.

Set the joynts of Iron as close as you can, lay them in a glowing fire, and take of Venice-glass in powder, and the Iron being red-hot, cast the powder thereon, and it will folder of it felf.

XL. To counterfeit Silver.

Take Crystal Arsnick eight ounces, Tartar fix ounces, Salt-peter two ounces, Glass one ounce and an half, Sub-

Chap.29. Of Metals.

).z.

like,

fire,

ich it

hath

mix

itin

Xilli,

Iron

ite as

d un-

ingit

fall of

ettles

d-hot

COTTE

mixed

he hit

y hard

wthem

owder,

there-

X OUD.

an hali,

Sabe

Sublimate half an ounce: make them feverally into fine powder and mix them: then take three pound of Copper in thin plates which put into a Crucible (with the former powder *ftratum faper ftratum*) to calcine, covering it and luting it ftrongly, let it ftand in the Furnace for about eight or ten hours: then take it out, and (being cold) break the pot, and take out all the matter, and melt it with a violent fire, caffing it into fome mold. Then take purged Brafs two pound, of the former metal one pound; melt them together, caffing in, now and then, fome of the aforefaid powder, after which add half as much of fine Silver, melting them together, and you have that which is defired: laftly, to make it as white as Silver, boil it in Tartar.

XLI. Another way to counterfeit Silver.

Take purified Tin eight ounces, Quick-filver half an ounce, and when it begins to rife in the first heat, take powder of Cantharides, and cast into it, with a lock of hair, that it may burn in it; being melted put into it the powder aforefaid, then take it suddenly from the fire, and let it cool.

XLII. To purge the Brass:

It is cleanfed or purged, by caffing into it when it is melted, broken Glafs, Tartar, Sal-Armoniack, and • Salt peter each of them by turns, by little and little.

XLIII. To tinge Lead of a Gold colour.

Take purged Lead one pound, Sal-Armoniack in powder one ounce, Salt-peter half an ounce, Sal-Elebrot two drachms; put all into a Crucible for two days and it will be throughly tinged.

XLIV. To purge Lead.

Melt it at the fire, then quench it in the fharpefi Vinegar; melt it again and quench it in the juyce of Celandine: melt it again and quench it in Salt-water:

then

Chap

Tak

nelt J

it, then

crickin

ine it

dGol

L,

Firf

Then

un in

Rofin

Eupho

te no

make

made

when

bello

like n

L Dat

quenc

acti binte

Edan

LL

Ta

Vade

the M

theat

Tin.

Ti

his

then in vinegar mixed with Sal-Armoniack: and laftly melt it, and put it into afhes, and it will be well cleanfed.

XLV. To make Lead of a Golden colour.

198

Put Quick-filver one ounce into a Crucible, fet it over the fire till it is hot, then add to it of the beft leaf-gold one ounce, and take it from the fire, and mingle it with purified Lead melted one pound; mingle all well together with an Iron rod, to which put of the filterated folution of Vitriol in fair water one ounce; then let it cool, and it will be of a good colour. Diffolve the Vitriol in its equal weight of water.

XLVI. To take away the ringing and softness of Tin.

Melt the Tin, and caft in fome Quick-filver, remove it from the fire, and put it into a glafs Retort, with a large round belly, and a very long neck, heat it red-hot in the fire, till the Mercury fublimes and the Tin remains at bottom; do thus three or four times. The fame may be done by calcining of it three or four times, by which means it will fooner be red-hot than melt.

XLVII. To make away the softness and creaking noise of Tin.

This is done by granulating of it often, and then reducing it again, and quenching it often in vinegar and a Lixivium of Salt of Tartar. The creaking noife is taken away by melting it feven or eight feveral times and quenching it in Boys Urine, or elfe oyl of Walnuts

XLVIII. To take away the deaf found of Tin.

This is done by diffolving it in Aqua-fortis over a gentle fire, till the water fly away : doing thus fo long till it is all turned to a calx; which mixed with calx of Silver, and reduced, performs the work. XLIX. To make that Tin crack not.

Take

Chap. 29. Of Metals.

0.3.

laft.

Well

fet it

e, and

wind;

which

Water

od co.

water.

Tim

1, 10-

ctort,

heet

es and

r four

t three

ed-hot

ng mile

d then

vinegat

ig noile

ltimes

E.Wal-

i overa

io long

vith cala

Tas

Take Salt, Honey, of each alike, and mix them : melt your Tin and put it twelve or more times into it, then ftrain out the Tin, and it will purge and leave cracking; put it into a Crucible, which lute, and calcine it four and twenty hours, and it will be like calx of Gold.

L. To take away the brittlenefs of any Metal.

First calcine it and put it under dung, then do thus; when it is red-hot at the fire, or melted, quench it often in Aqua vitæ often distilled; or use about them Rofin or Turpentine, or the oyl of it, or wax, fuet, Euphorbium, Myrrh, artificial Borax : for if a metal be not malleable, unctuous bodies will oftentimes make them fofter, if all thefe, or fome of thefe be made up with fome moisture into little cakes : and when the metal yields to the fire, by blowing with the bellows, we caft in fome of them and make them thick like mud, or clear, then fet the Metal to the fire, that it may be red-hot in burning coals, take it forth and quench it in them, and fo let it remain half an hour to drink in. Or anoint the Metal with Dogs greafe, and melt it with it, for that will take away much of the brittleness of it and make it fo that it may be hammered and wrought.

LI. To colour Metal like Gold.

Take Sal-Armoniack, White Vitriol, Stone-falt, Verdegriefe, of each alike, in fine powder; lay it upon the Metal, then put it into the fire for an hour, take it out and quench it in Urine, and the Metal will have the colour of Gold.

LII. To make a kind of Counterfeited Silver of Tin.

This is done by mingling Silver with Tin melted with Quick-filver, continuing it long in the fire, then being brittle, it is made tough, by keeping it in a gentle

Char

iny)

breadt

the li

and th

ferft [

divers

but W

W

Teal.

LY

Di

thall

like

WIL

25 1

Dels

which

and in

blood.

ftem

If

olbei

LV

Tal

twent

this j

mich

feit

ly in

OUT

it, I

beat

200

tle fire or under hot embers (in a Crucible) for about twenty four hours.

LIII. To folder upon Silver, Brass or Iron.

Take Silver five peny weight, Brass four peny weight, melt them together for soft Solder, which runs soonest.

Take Silver five peny weight Copper three peny weight, melt them together for hard Solder.

Beat the Solder thin and lay it over the place to be Soldred, which must be first fitted, and bound together with Wire as occasion requires : then take Borax in powder, and temper it like pap, and lay it upon the Solder, letting it dry, then cover it with quick coals and blow, and it will run immediately; then take it presently out of the fire, and it is done.

Note, 1. If a thing is to be Soldred in two places, (which cannot be well done at one time) you must first Solder with the bard Solder, and then with the soft; for if it be first done with the soft, it will unsolder again before the other be Soldred. 2. That if you would not have your Solder run about the piece to be Soldred, rub those places over with Chalk:

LIV. To make the Silver Tree of the Philosophers.

Take Aqua-fortis four ounces, fine Silver one ounce, which diffolve in it: then take Aqua-fortis two ounces, in which diffolve Quick-filver: mix these two Liquors together in a clear glass, with a pint of pure water; stop the glass close, and after a day, you shall see a Tree to grow by little and little, which is wonderful and pleasant to behold.

LV. To make the Golden Tree of the Philosophers

Take oyl of Sand or Flints, oyl of Tartar per deliquium, of each alike, mix them well together, then diffolve Sol in Aqua Regis, and evaporate the menftruum, dry the Calx by the fire, but make it not too hot (for then it will lofe its growing quality)

Chap. 29. Of Metals.

0.3

100

ight,

ight,

to be

togi-

ZEIO

n the

ken

lally

t fort

betar

e yar

places

.

punce,

010

ferm

of punt

STACE

ers on des

1, th

2 四月

11 00

g qui

lity) break it into little bits (not into powder) which bits put into the aforefaid liquor, a fingers breadth one from another in a very clear glafs, keep the liquor from the Air, and let the Calx fland flill, and the bits of Calx will prefently begin to grow 3 first swell; then put forth one or two stems; then divers branches and twigs, so exactly, as you cannot but wonder to see.

Where note, that this growing is not imaginary but real.

LVI. To make the Steel Tree of the Philosophers.

Diffolve Steel in rectified spirit or oyl of Salt, fo fhall you have a green and sweet folution, swelling like Brimstone; filter it, and abstract all the moisture with a gentle heat, and there will distil over a liquor, as sweet as rain water (for Steel by reason of its dryness detains the Corrosiveness of the spirit of Salt, which remaineth in the bottom, like a blood-red mass, and it is as hot on the tongue as fire :) dissolve this blood-red mass in oyl of Flints or Sand, and you shall fee it grow up in two or three hours like a Tree with stem and branches.

If you prove this Tree at the teft, it will yield good Gold, which it draweth from the oyl of Sand or Flints; the faid oyl being full of a pure golden Sulphur.

LVII. To make oyl of Flints or Sand.

Take of most pure Salt of Tartar in fine powder twenty ounces, finall Sand, Flints, Pebbles, or Crystals in fine powder five ounces, mix them; put as much of this as will fill an Egg-schell into a Crucible, fet it in a Furnace, and make it red-hot, and presently there will come over a thick and white spirit, take out the Crucible whiles it is hot, and that which is in it, like transparent glass, keep from the Air; after beat it to powder, and lay t in a moss place, and it will O diffolve

Cha

1

III

High for th

If

pili,

Seio

御山 如;

108

teri

fE

on

han

talt

Flash Sand

caft. V

EEO

DOU

toget cufi r

aut 1

VI

peffe

tate

一一

贴

1

diffolve into a thick, fat oyl, which is the oyl of Flints, Sand, Pebbles or Cryftals. This oyl precipitate: b Metals, and makes the Calx there more beavy than oyl of Tartar doth; it is of a golden nature, and extracts colours from all Minerals; it is fixed in all fires, maketh fine Cryftals, and Borax, and maturateth imperfect Metals into Gold.

LVIII. To melt Metals quickly.

2021

CILCULT 3

Take a Crucible, and make in it a lay or courfe of the powder of any Metal, then lay upon it a lay of Sulphur, Salt-peter and Saw-duft, of each alike mixed together, put a coal of fire to it, and the Metal will immediately be in a mass.

LIX. Lattly, He that fhall observe the work and reason of the Silver, Golden and Steel Trees, may in like manner produce the like out of the Calx of other Metals.

CHAP. XXX.

Of the Instruments and Materials of Casting.

I. I E that would learn to caft must be provided of all the chief Tools thereto belonging; which are 1. A Trough. 2. Sand. 3. A Flask: 4. Skrew. 5. Tripoli. 6. The Medal or Form. 7. A Furnace 8. Crucibles 9. A Pipe. 10. Tongs. 11. Two Oak Plates. 12. Plegets of wool. 13. Oyl and Turpentime. 14. A Hares Foot. 15. Brushes.

JI. The Trough is a four-fquare thing about half a foot deep, or fomething more; and its use is to hold the Sand.

III. Of

Chap. 30. Materials for Casting.

.3.

nts, Mes

fine .

in.

feof

Sul-

ixed

will

and

avin

ther

vided

gingi

晚中 4 627-

Im

THE

halfa

ohold

II. Of

III. Of Sand there is various forts, the chief are High-gate Sand, and Tripoli; the which to make fit for the work you must order thus :

If it is High-gate Sand, you must finely fift it; if Tripoli, you must first beat it fine, then fift it through a fine Seive: to either of these fine Sands you must put of pure fine Bole (an ounce to nine ounces) well beaten, diffolved in water, and lastly reduced into fine powder; which powders you must moderately moisten with this Magisterial water, viz. filterated Brine made of decripitated common Salt : or the Same, mixed with glair of Eggs.

IV. The Flask is a pair of Oval Irons, containing only fides to hold the Sand, which must be preffed hard thereinto ; and a paffage or mouth for the Metal to run in at.

V. The Skrew is an Iron Prefs, between which the Flask is put and preft, after that it is filled with Sand, and hath received the form or impreflion to be caft. il yonis di

VI. Tripoli is that of which the fecond fort of Sand is made, which here ought to be calcined and beaten into impalpable powder, to firew over the fandy moulds; first that the fides of the Flask may not eleave together when they are full; fecondly that the thing caft may have the perfect form and impreflion, without the leaft fcratch or blemish imaginable.

VII. The Medal or Form, is that which is to be impreffed upon the Sand, whofe likenefs we would imi-, tate.

VIII. The Furnace is that which contains the fire, where the Crucible is put, for the Metal to melt in, which is generally melted with Charcoal.

IX. The Crucibles are calcining or melting pots, (commonly three-fquare) made to as they may en-

durc

203

Chi

LT

前

21.3

the

1

00 0

Fish

there

Maria

IV

Wate

ŝ٣,

ted

截1

ank:

boat V. dot

plan

bein

ten

Han

204

pure the fire all over, in which the Metal is to be melted.

X. The Pipe is a hollow Reed, or piece of Tin, to blow coals and filth out of the Crucible.

XI. The Tongs are a crooked Inftrument to take coals out of the Crucible with, as also to fir and repair the fire; and to take the pot out of the Furnace when you go to Caft.

XII. The two Oak plates are to be fmooth, and to be put between the Flask and the fides of the Skrew, on each fide.

XHI. Pledgets of wool are to be put between the Oak plates and the Sand, to fill up empty spaces if there be any.

XIV. The Oyl and Turpentine is to wet fome paper or cotton threads, which must be fet on fire, to fmoak the Impression or Mould (being dry) that the Metal may run the better.

XV. The Hares-foot is to wipe the hollow places in the Mould, if they fhould be too much filled with fmoak.

XVI. The Brushes ought to be two, to wit one with thick bar Wire strings, another with Hogs-bristles, wherewith the work (both before and after cassing) ought to be rubbed and cleansed.

VIE. The Mudator Found is that which is to be Mis-

CHAP.

where with Crusible is pur, for the Meral vo male

inter a southing and caldbing our chines

Commenter three loused make to a cher rays

which is generally melted with Charcesia

Chap. 31. The manner of Casting. 205

1.3

nel-

1, to

tase dire-

Bacc

tobe V, CE

Oak

tebe

aper

noak

Metal

places

with

with

rifiles,

(ting)

HAP.

CHAP. XXXI.

The way and manner of Casting.

I. WAsh the Medal in Vinegar, in which put fome Salt and Straw-ashes; and rub it well with the aforefaid hair brush, then wash it with water. and dry it well.

II. Place the female part of the Flask upon Bne of the Oak plates; fo that the middle part, viz. that which is joyned to the other, may lie downwards.

III. Then put the cleanfed Medal in the Flask upon the Oak plate, in a right line to the mouth of the Flask : and if there be two, let them be placed fo, that there may be a place left in the middle for the melted Metal to run in at.

IV. Then take of the aforefaid earth or fand prepired, (that is, fo much moistened with the Magisterial water, that being crushed between the hands or fingers, it will not flick but like dry flour, and will thand with the print of the hand closed together) and prefs it on well in the Flask upon the Medal with the flefhy part of your fingers or hand; then with a rule strike off all the superfluous fand that sticks about the Flask. The second reading angeld some in

V. This done, the pledgets of wool, or a woollen cloth, must be laid upon it, and then the other Oak plate, and then turned up with both hands, the plates being both held clofe. I GE TON & PORTONNEL TO TILLL

VI. Then taking off the upper plate ; put upon it the male part of the Flask, which fill with fand in like manner (the Medal being now between) preffing it 03

down

Ch.

W

1 183

white.

6 44

mbite

Chapt

Take

期的

Six 10

50%

best a

Alan

quan the]

120

城田

dale ;

17

lion

inti

山

270

ing.

brol

down as before, and then with a ruler firking away the fuperfluous fand.

206

VII. Upon which lay a woollen cloth, and gently lift off the top, or upper part of the Flask, so that the medal may be taken forth.

VIII. All things being thus done with a knife (or fome fuch like) cut the paffage for the Metal, which let be a little dry'd : then,

IX. Either firew over the fide of the imprefion (now taken off) with a calcined Tripoli ground impalpable; applying it upon the female Flask again; turnethe female Flask uppermost, which take off, and firew it in like manner, with the calcined Tripoli, and putting them together again, prefs them fo hard, as that the fine Tripoli may receive the most perfect imprefion of the Medal, which then take out, by separating the fides of the Flask, and gently shaking that part which holds it, till it falls out.

X. Or with Cotton wet in Oyl and Turpentine and fet on fire let the impression be smoaked; and if any superfluous sume be taken, wipe it off with a Hares-foot.

XI. Then joyn the fides of the Flask together, putting them with the woollen cloaths between the Oaken plates, which put into the Prefs, and skrew them a little.

XII. Then the Metal being melted, put it into the mould being hot, which if it be Silver, or blanched Brafs, or Copper, it will run well enough.

XIII. But if it runs not well, you may caft in about the hundred part of Mercury fublimate, and an eighth part of Antimony; for fo it will not only run well, but alfo be a harder Metal.

XIV. Laftly, the Medal being cooled, take it nearly out and keep it.

Where

Ch.32. Glass and Precious Stones. 207

Where note, 1. That fo long as the Impreffion or Mould. is not spoiled, you may still cast more Medals therein; but when it decays, you must perfectly renew the whole work as at first. 2. That you may blanch them with a pure whiteness by the ninth Section of the nine and twentieth Chapter of this Book : or thus, if they be of whitened Brass, Take Sal-Armoniack one ounce and an half, Salt-peter two ounces and an balf, Leaf-filver twenty four grains ; mix them and evaporate them in a luted Crucible, baving a bole in the cover, till all the moisture is gone; being cold beat all into fine powder; of which take one ounce, Salt, Alom, Tartar, of each one handful, fair water a sufficient quantity; mix and boil all in a glazed veffel, in which put the Medals boiling them till they are purely white: then rub them with the Tartar in the bottom very well, wish them in fair water and dry them. 3. That if the Medals be of Gold, or of a golden colour, you may belybien it with Verdegriefe and Urine.

CHAP. XXXII.

alto calcined - filme two por

Of Glass and Precious Stones.

V Locies

• TO melt Crystal.

1.3.

Way

ently

it the

e(or which

chion.

d im-

gaini

t, and

Land

und, as

tim-

Dara-

it part

entine and if with a

r, put-

Oaken hem a

to the

anched

about

eighth 8 well,

nearly

Beat Crystal to bits, and put them into an Iron spoon, cover it and lute it well, and heat it in the fire till it is red-hot, which quench in oyl of Tartar: this do so often, till they will easily beat to powder in a mortar, which will then easily melt.

This is of use to counterfeit Jewels with.

II. To make a Cement for broken Glasses.

Glair of Eggs mixed with Quick-lime will joyn broken pieces of glafs together, and all earthen-pots, fo 0 4 as

Ch.3

mch

inged of Cop

IV.

Tal

deof

ite fur

lotor

fill it

will it

mond

all var

illit

V

die

CEL

V

T

and

tory

out

and

an co

Ind

M

inda and

前

新語

as that they shall never be broken in the same place a-

gain. Or thue, Take old liquid Varnish, and joyn the pieces therewith; bind them together, and dry them well in the Sun or in an Oven, and they will never unglew again: but put no hot liquor into them then.

Or thus, Take White-lead, Red-lead, Quick-lime, Gum-fandrack, of each one ounce, mix all with glair of eight Eggs.

Or thus. Take White-lead, bole, liquid varnish as much as sufficeth.

Or thus, Take White-lead, Lime, glair of Eggs as much as fufficeth.

Or thus, Take fine powder of glass, Quick-lime, liquid varnish, of each a sufficient quantity.

Or thus, Take Quick-lime powdered, liquid varnish, glair of Eggs, of each alike : grind them upon a stone : this is a strong glew even for stones.

Or thus, Take calcined flints and Egg-fhells of each alike, and with whites of Eggs and Gum-tragacanth, or diffolution of Gum-fandrack make glew, this in few days will be as hard as flone.

Or thus, Take calcined flints two pound, Quicklime four pound, Linfeed-oyl fo much as may temper the mixture, this is wonderful ftrong; but with liguid varnish it would be ftronger.

Or thus, Take Fifh glew, and heat it thin, then foak it in water till it is like pafte, make rouls thereof which draw out thin : when you use it, diffolve it in fair water over the fire, letting it feeth a while and fourming of it, and whiles it is hot use it. This not only cements glass, but Tortoise-shell and all other things.

III. To make Glass green.

Green glass is made of Fern alhes, because it hath much

Ch.32. Glass and Precious Stones. 209

much of an Alkaly Salt. Cryftai or Venice-Glassis tinged green with Ore of Copper; or with the Calx of Copper five or fix grains to an ounce.

IV. To counterfeit a Diamond.

.3.

\$2.

eces

well

CW

me,

glair

ih as

g5 35

lime,

Var-

DON 2

feach

anth,

thisin

)nick-

emper

ith li-

, then

there-

alveit

ile and

ISTOC

other

it hath

mech

Take a faphyre of a faint colour, put into the middle of a Crucible in Quick-lime, and put it into a gentle fire, and heat it by degrees till it is red-hot, keep it fo for fix or feven hours; let it ftand in the Crucible till it is cold, (left taking it out hot it fhould break) fo will it lofe all its colour, and be perfectly like a Diamond, fo that no file will touch it : if the colour is not all vanished at the first heating, you must heat it again till it is perfect.

V. To prepare the Salts for counterfeit Gems.

The Salts used in making counterfeit Gems, are chiefly two, the first is made of the Herb Kali; the second of Tartar; their preparations are according to the usual way (but in Glass vessels.)

VI. To prepare the matter of which Gems are made.

The matter is either Cryftal or Flint that is clear and white: put them into a Crucible in a reverberatory heat (the Crucible being covered) then take them out and caft them into cold water, fo will they crack and eafily reduce to powder: of which powder take an equal quantity with Salt of Tartar(or Sal Alkali) to whith mixture add what colour you pleafe, which must be either Metalline or Mineral: put them into a very firong Crucible (filling it about half full) cover it close, and melt all in a firong fire till it becomes like glafs.

Where note, in melting you must put an Iron rod into it, and take up some of it, and if it is free from bubbles, grains, or specks, it is fused enough ; if not, you must fuse it till it is free.

VII. 7 o make a counterfeit Diamond of Crystal.

Put Cryftal in a Crucible and fet it in a Glafs Furnace all night, and then bring it to fine powder, mix it with equal parts of *Sal Tartari*, digeft all night in a vehement heat, but yet not to melt, then take them out, and put them into another veffel which will ftoutly endure the fire; let them ftand melted two days and take out the mafs.

VIII. To make a Chalcedon.

210

Mingle with the powder of Crystal, a little calcined Silver, and let it stand in fusion twenty four hours.

IX. To make counterfeit Pearls.

Mix Calx of Luna and Egg-fhells with Leaf filver ground with our beft varnish, of which make passe, and having bored them with a Hogs briftle, dry them in the Sun, or an Oven.

X. To counterfeit a Ruby.

Take Sal Alkaly four ounces, Crystal three ounces, Scales of Brass half an ounce, Leaf-gold fix grains, mix all, and melt them in a Reverberatory.

XI. To counterfeit a Carbuncle.

Mix Crystal with a little Red-lead, putting it into a Furnace for twenty four hours, then take it out, powder and searce it, to which add a little calcined Brafs; melt all again, and add a small quantity of Leaf-gold, stirring it well three or four hours, and in a day and night it will be done.

XII. An Artificial Amethyft.

Take Cryftal one pound, Manganels one drachm, mix and melt them.

Or thus, Take Sal Alkaly three ounces, powder of Cryftal four ounces, filings of Brafs half an ounce, melt all in a firong fire.

XIII. An Artificial Jacynth.

Put Lead into a firong Crucible, and fet it into a Furnace, let it fland there about fix weeks till it is like

glais,

Ch.3

dalis, a

abt cal

Mi

hon,

Orton

AD.

XI

To

drach

XV

Beth

Sal

RW.

Int l

NO.

002

Quic

OHD

to n

what

XI

put a

in;

臣 臣 臣

gar hall

102

Ch.32. Glass and Precious Stones. 211

glass, and it will have the natural colour of a Jacynth not eafily to be difcerned.

XIV. An Artificial Chryfolite.

0.3.

Far.

nix it.

tina

them

Will

two

kined

ITS.

filver

pafte,

tixm

inces,

rains,

t into

it out,

ity of

ndin

achm,

der of

ounce,

nto a

Blice

glals,

Mix with melted Crystal a fixth part of scales of Iron, letting it stand in a vehement fire for three days. Or thus, to the mixture of the Topaze add a little Copper.

XV. An Artificial Topaze.

To Crystal one pound, add Croeus Martis two drachms, Red-lead three ounces, first putting in the Lead, then the Crocus.

XVI. Artificial Corals.

Take the scrapings of Goats horns, beat them together, and infuse them in a strong Lixivium made of Sal fraxini for five days: then take it out and mingle it with Cinnaber diffolved in water; set it to a gentle fire that it may grow thick; make it into what form you please, dry, and polish it. Or thus, Take Minii one ounce, Vermilion ground fine half an ounce, Quick-lime, and powder of calcined Flints, of each fix ounces, a Lixivium of Quick-lime and Wine, enough to make it thick: add a little Salt, then make it into what form you please, and boil it in Linsed-oyl.

XVII. An Artificial Emerald.

Take Brais (three days) calcined in powder, which put again into the Furnace with oyl and a weaker fire; let it flay there four days, adding a double quantity of fine fand or powder of Crystal: after it is fomething hard, keep it at a more gentle fire for twelve hours, and it will be a lovely, pleafant and glorious green. Or thus, Take fine Crystal two ounces and an half, Sal Alkaly two ounces, flos eris infused in Vinegar and strain'd one ounce, Sal Tartari one ounce and a half; mix and lute them into a crucible, and put all into a Glass-makers furnace for twenty four hours, and it will

Ch 3

XXI

Brea

fath,

toppe

pak

edito

noties

melle

19.

XX

Tak

CES, IN

tor a

melta

XX

Mar

Pla

quest

TIT(

iem:

ter i

dia

tre o

动

wit

Sept

him

COE

hte

the

will be glorious indeed. Or thus, Take Crystal ten ounces, Crocus Martis, and Brafs twice calcined, of each one pound, mix and melt them, fiirring them well with an Iron rod.

XVIII. An Artificial Saphire.

To melt Crystal put a little Zaphora (two drachms to a pound of Crystal) then stir it continually from top to bottom with an Iron hook, till it is well mixed, keep it in the Furnace three days and it is done : yet when it is well coloured, unless it be prefently removed from the fire, it will lose its tincture again.

XIX. Artificial Amber.

Boil Turpentine in an earthen pot, with a little cotton (fome add a little oyl) ftirring it till it is as thick as passe, then put it into what you will, and set it in the Sun eight days, and it will be clear and hard, of which you may make beads, hasts for knives, and the like.

XX. Another way to counterfeit Amber.

Take fixteen yolks of Eggs, beat them well with a fpoon; Gum-Arabick two ounces, Cherry-tree Gum an ounce, make the Gums into powder, and mix them well with the yolks of Eggs; let the Gums melt well, and put them into a pot well leaded, then fet them fix days in the Sun, and they will be hard, and fhine like glafs; and when you rub them, they will take up a Wheat-firaw, as other Amber doth.

XXI. To make yellow Amber foft.

Put yellow Amber into hot melted wax well fcum'd and it will be foft, fo that you may make things thereof in what form and fashion you please.

XXII. Another Artificial Amber.

Take whites of Eggs well beaten, put them into a veffel with firong White wine Vinegar, ftop it clofe, let it ftand fourteen days, then dry it in the fhade, and it will be like to Amber. XXIII. Ano-

Ch. 32. Glass and Precious Stones 213

XXIII. Another Artificial Amber.

b.3.

alter

itd, ci

then

achims

from t

nixed, c: yet

tly re-

am.

little

11 15 25

ind fet

hard,

is, and

witha

Gum

x them

r well,

em fix

nelike

ic up a

well

make

ale.

into2

t doles

le, and

LAN

Break whites of Eggs with a fpunge, take off the froth, to the reft put Saffron, put all into a glafs clofe ftopped, or into a Copper or brazen veffel, let it boil in a kettle of water, till it be hard; then take it out and fhape it to your liking, lay it in the Sun and anoint it often with Linfeed-oyl mixed with a little Saffron; or elfe being taken out of the Kettle, boil it in Linfeedoyl.

XXIV. To make white Enamels

Take Calx of Lead two ounces, Calx of Tin four ounces, make it into a body with Cryftal twelve ounces, role it into round balls, and fet it on a gentle fire for a night, ftirring it about with an Iron rod, till it is melted, and it is done.

XXV. The general preparations and proportions of Mineral colours.

Plates of Copper must be made red-hot, and then quenched in cold water; of which five or fix grains mixed with Crystal and Sal Tartari of each half an ounce, and melted, will colour a Sea-green. Iron muft be made into a Crocus in a reverberatory fire; of which eight or ten grains will tinge the faid ounce of mixture into a Yellow or Hyacinth colour. Silver is to be diffolved in Aqua-fortis, and precipitated with oyl of Flints, then dulcifyed with water and dry'd; of this five or fix grains to an ounce, gives a mixed colour. Gold must be diffolved in Aqua Regis, and precipitated with liquor of Flints, then fweetned and dry'd; of which five or fix grains to one ounce gives a glorious Sapherine colour. Gold melted with Regulus Martis nitrofus five or fix grains to one ounce, gives an incomparable Rubine colour. Magnefia in powder only ten or twelve grains to one ounce, makes an Amethyst colour. Granata in powder only ten or fifteen grains

grains to one ounce, will tinge the mass into a glorious Smaragdine colour, not unlike to the natural

XXVI. Laftly, Common Copper makes a Seagreen: Copper of Iron a Grass-green: Granats, a Smaragdine: Iron, Tellow or Hyacinth: Silver, White, Tellow, Green and Granat: Gold, a fair Skie colour: Wilnut, a common Blew: Magnelia, an Amethyst colour: Copper and Silver, an Amethyst colour: Copper and Iron, a pale green: Wilmut and Magnelia, a purple colour: Silver and Magnelia, an Opal, and the like.

XXVII. To make Azure.

Take Sal-Armoniack three ounces, Verdegriefe fix ounces, make them into powder, and put them into a glafs with water of Tartar, fo that it may be fomewhat thick, ftop the glafs and digeft in fand in Horfe-dung for eight or ten days, and it will be good Azure.

XXVIII. Another way to make good beyond Sea Azure.

Beat common Azure with Vinegar, and anoint therewith thin plates of Silver, and put the fame over a veffel full of Urine, which fet over hot afhes and coals, moving and stirring it till it looks like good Azure.

exites the addressed with water and day'd, of this

Could mult be different in strat direct, and precipitated

sum for ave or any prains to one our ce, pives and the

comparable fubine colour. Bi grafia in powder one ly ten or i welve grains to ore comee, makes an Ame-

their colour. Granata in powder only 1 a on bitter.

A AHO COLOUR. Gald melicie with Lemin Maria

Chap

T

Linfee

IL Ta

toget

00.

ktin

III. Tal

gricle

and H

ine a

the In burni

IV

Tap

ter:

ont

Y

2Cr

a de las

Chap.33. The manner of Gilding. 215

too thin, fluin a part of the Onick filves from it

CHAP. XXXIII.

The Ways and manner of Gilding.

I. TO lay Gold on any thing.

b.3.

glori.

al Sea.

ats, a White,

celloinr: ibyft coi i Cop-

zneha.

mitte

ele fix

em in-

andin

good

nd Sea

anoint

1340 20

is and

c 2001

HAP.

Take Red-lead ground fine, temper it with Linfeed oyl: write with it and lay Leaf-gold on it, let it dry, then polifh it.

II. To lay Gold on Glass.

Take Chalk and Red-lead, of each alike, grind them together, and temper them with Linfeed-oyl: lay it on, and when it is almost dry, lay Leaf-gold on it; let it dry, then polish it.

III. To gild Iron with a water.

Take fpring water three pound, Roch-Alom three ounces, Roman Vitriol, Orpiment, one ounce, Verdegriefe twenty four grains, Sal-gem three ounces, boil all together, and when it begins to boil, put in Tartar and Bay-falt, of each half an ounce; continue the boiling a good while, then take it from the fire, ftrike the Iron over therewith, dry it against the fire, and burnish it.

IV. To lay Gold on Iron, or other Metals.

Take liquid Varnish one pound, oyl of Linseed and Turpentine, of each one ounce; mix them well together: strike this over any Metal, and afterwards lay on the Gold or Silver, and when it is dry polish it.

V. To Gild Silver, or Brass with Gold water.

Take Quick-filver two ounces, put it on the fire in a Crucible, and when it begins to imoak, put into it an Angel of fine Gold; then take it off immediately, for the Gold will be prefently diffolved : then if it be

100 .

Chaj

then n

wet th

cold,

itite

X. Ta

gemti

one ou Tartar

XL

Tak

volks

lost

grain

ogla

20 25

Bores

Ta

take o filver

part

fick:

ah

and it

XI

Ta

The state

tak ()

Thix

fire

X

T

too thin, firain a part of the Quick-filver from it, through a piece of Fuffian: this done, rub the Gold and Quick-filver upon Brafs or Silver, and it will cleave unto it, then put the faid Brafs or Silver upon quick coals till it begin to fmoak then take it from the fire, and fcratch it with a hair brufh; this do fo long till all the Mercury is rubbed as clean off as may be, and the Gold appear of a faint yellow: which colour heighten with Sal-Armoniack, Bole and Verdegriefe ground together and tempered with water.

Where note, that before you gild your Metal, you must boil it with Tartar in Beer or water, then scratch it with a wire brush.

VI. Another water to gild Iron, Steel, Knives, Swords and Armour with.

Take Fire-ftone in powder, put it into ftrong red Wine-Vinegar for twenty four hours, boil it in a glazed pot, adding more Vinegar as it evaporates, or boils away : into this water dip your Iron, Steel, & and it will be black ; dry it; then polifh it, and you will have a gold colour underneath.

VII. Another water to gild Iron with.

Take Salt-peter, Roch-alom burnt, of each half an ounce, Sal-Armoniack an ounce, all being in fine powder, boil with ftrong Vinegar in a Copper veffel; with which wet the Iron, & e. then lay on Leaf-gold.

VIII. Another water to gild Iron with.

Take Roch-alom, and grind it with boys Urine, till it is well diffolved, with which anoint the Iron, heat it red-hot in a fire of wood coals, and it will be like Gold.

IX. To gild Books.

216

Take Bole-Armoniack four peny weight, Sugarcandy one peny weight, mix and grind them with glair of Eggs; then on a bound Book, (while in the prefs, after it hath been fmeared with glair of Eggs, and

Chap.33. Of Gilding

b.z.

田北

Gold

Wil

upon m the

long

aybe

colour

egnicle

N MIRT

with a

Source

ig red

agla

r boils

r and

NI WIL

half an

pow-

;with

int, till

heatil

Gold

Sugarm with

ciate

ESE

and is dried) fmear the faid composition, let it dry, then rub it well and polish it : then with fair water wet the edges of the Book, and fuddenly lay on the gold, preffing it down with Cotton gently, this done let it dry, and then polish it exactly with a tooth.

217

X. Another way of gilding Iron.

Take water three pound, Alom two ounces, Salgem three ounces, Roman Vitriol, Orpiment of each one ounce, flos Æris twenty four grains; boil all with Tartar and Salt as at the third Section.

XI. To make Iron of the colour of Gold.

Take Linfeed-oyl three ounces, Tartar two ounces, yolks of Eggs boiled hard and beaten two ounces, Ar loes half an ounce, Saffron five grains, Turmerick two grains: boil all in an Earthen veffel, and with the oyl anoint Iron, and it will look like Gold. If there be not Linfeed oyl enough, you may put in more.

XII. A Golden liquer to colour Iren, Wood, Glass, or Bones with.

Take a new laid Egg, through a hole at one end take out the white, and fill up the Egg with Quickfilver two parts, Sal-armoniack finely powdered one part; mix them all together with a Wire or little flick: flop the hole with melted wax, over which put an half Egg-fhell: digeft in horfe-dung for a month, and it will be a fine golden coloured Liquor.

XIII. To gild Silk and Linnen.

Take Glew made of Parchment, lay it on the Linnen, or Silk, &c. gently, that it may not fink: then take Cerufe, Bole and Verdegriefe, of each alike, mix and grind them upon a ftone: then in a glazed veffel mix it with varnifh, which let fimper over a fmall fire, then keep it for ufe.

XIV. Another of a pure Gold colour.

Take juyce of fresh Saffron, or (for want of it) Saffron

Saffron ground, the best clear Orpiment of each alike : grind them with Goats gall or gall of a Pike (which is better) digest twenty eight days in horse-dung, and it is done.

XV. To gild on wood or stone.

Take Bole-Armoniack, Oyl Ben, of each a fufficient quantity; beat and grind them together: with this funcar the wood or frone, and when it is almost dry, lay on the Leaf-gold, let it dry, then polish it.

XVI. To gild with Leaf-gold.

Take leaves of gold, and grind them with a few drops of honey, to which add a little gum-water, and it will be excellent to write or paint with.

XVII. To gild Iron or Steel.

Take Tartar one ounce, Vermilion three ounces, Bole-Armoniack, Aqua-vita of each two ounces, grind them together with Linfeed-oyl, and put thereto Lapis Calaminaris the quantity of a hafle-nut; and grind therewith in the end a few drops of varnish; take it off the stone, strain it thr ough a linnen cloth (for it mussible as thick as honey) then strike it over Iron or Steel, and let it dry; then lay on your Silver or Gold, and burnish it.

XVIII. To colour Tin or Copper of a gold colour.

Take Linfeed oyl, fet it on the fire, fcum it, then put in Amber, Aloes Hepatick, of each alike, flir them well together till it wax thick; then take it off, cover it close, and fet it in the earth three days : when you use it, flrike the Metal all over with it, with a pencil, let it dry, and it will be of a golden colour.

XIX. Togild any Metal.

Take strong Aqua-fortis, in which diffolve fine Silver, to which put so much Tartar in fine powder, as will make it into passe, with which rub any Metal, and it will look like fine Silver.

XX. To

Ch.

XX

Ta

Tarta

or liz

17

Fall

then

adj

II,

T

Section

Am

likes

I

in Pas

Th

Agas IV.

Ta

zd n

¥.

T

2 18

Urin

uid

Ch.34. Of Paper, Parchment, &c. 219.

1.3.

ike : hich

and

cient i this I dry,

a few

and

inces,

nces,

nere-

and

nihi

cloth

OVET

Silver

then

chem

COVER

nyou

cencil,

ne Sil-

der 25

Metal,

X II

XX. To gild fo as it shall not out with any mater. Take Oker calcined, Pumice-stone of each alike, Tartar a little, beat them with Linsfeed-oyl, and five or fix drops of varnish, strain all through a linnen cloth, with which you may gild.

CHAP. XXXIV.

lied Of Paper, Parchment, and Leathers

I. O make Paper waved like Marble.

Take divers oyled colours, put them feverally in drops upon water, and ftir the water lightly : then wet the Paper(being of fome thicknefs) with it, and it will be waved like Marble; dry it in the Sun.

II. To write golden Letters on Paper or Parchment. This may be done by the ninth, tenth, and twelfth Sections of the three and thirtieth Chapter of this Book : or write with Vermilion ground with Gum-Armoniack, ground with glair of Eggs, and it will be like gold.

III. To take out blots, or make black Letters vanish in Paper or Parchment.

This may be done with Alom-water; or with Aqua fortis mixed with common water.

IV. To make Silver Letters in Paper or Parchment.

Take Tin one ounce, Quick-filver two ounces, mix and melt them, and grind them with Gum-water.

V. To write with green Ink.

Take Verdegriefe, Litharge, Quick-filver, of each a fufficient quantity, grind and mingle them with Urine, and it will be a glorious green like an Enrerald to write or paint with :

Or

Or thus, Grind juyce of Rue and Verdegriefe with a little Saffron together; and when you would write with it mix it with Gum-water: Or thus, Diffolve Verdegriefe in Vinegar, strain it, then grind it with common water, and a little honey, dry it; then grind it again with gum-water, and it is done. Ch

the

ralp

dot

WI

fices

íme

ihad

10

調

912

hav

nes

0

VI. To write on Paper or Parchment with blew Ink.

Grind blew with honey, then temper it with glair of Eggs or gum-water made of Ifinglas.

VII. To dye Skins Blew.

220

Take berries of Elder or Dwarf-elder, first boil them, then smear and wash the Skins therewith, and wring them forth: then boil the berries as before, in the dissolution of Alom-water, and wet the Skins in the fame water once or twice, dry them and they will be very Blew.

VIII. To dye Skins into a reddifb Colour.

First wash the Skin in water and wring it well: then wet it with the solution of Tartar and Bay-falt in fair water, and wring it again: to the former diffolution, add ashes of Crab-shells, and rub the Skin very well therewith, then wash with common water and wring them out : then wash them with tincture of Madder, in the solution of Tartar, Alom, and the aforefaid ashes; and after (if not red enough) with the tincture of Brazil.

IX. Another way to dye them Red.

Wash the Skins, and lay them in galls for two hours; wring them out, and dip them into a colour made with Ligustrum, Alom and Verdegriese in water : Lastly, twice dye them with Brazil boiled with Lye.

X. Another way to dye them Blew.

Take the beft Indico and steep it in Urine aday, then boil it with Alom, and it will be good. Or, temper the Indico with red Wine, and wash the Skins therewith. XI. To

Ch.34. Of Paper, Parchment, &c. 221

XI. To dye Skins Purple.

.3.

tha.

nite

offe

rith

glair

nia

ns in

mil

rell:

-falt

fo-

We-

rand

e of

the

vith

MIS-

01C

11-

day,

-113

To

Take Roch-alom, diffolve it in warm water, wet the Skins therewith drying them again; then take rafped Brazil, boil it in water well, then let it cool; do thus thrice: this done, rub the dye over the Skins with your hand, which being dry polifh.

XII. To dye Skins of a lad Green.

Take the filings of Iron and Sal-armoniack of each, fteep them in Urine till they be foft, with which befmear the Skin, being ftretched out, drying it in the fhade : the colour will penetrate and be green on both fides

XIII. To dye Skins of a pure Skie Colour.

For each Skin take Indico an ounce put it into boiling water, let it stand one night, then warm it a little, and with a brush-pencil besmear the Skin twice over.

XIV. To dye Skins of a pure Yellow.

Take fine Aloes one ounce, Linfeed-oyl two pound, diffolve or melt them, then firain it; befmearing the Skins therewith, being dry, varnish them over.

XV. To dye Skins Green.

Take Sap-green, Alom-water, of each a fufficient quantity, mix and boil them a little : if you would have the colour darker, add a little Indico.

XVI. To dye Skins Tellow.

Infuse Woold in Vinegar, in which boil a little Alom: Or thus, having dyed them green by the fifteenth Section, dip them in decoction of Privit berries and Saffron and Alom-water.

XVII. To dye them of an Orange Colour.

Boil Fustick-berries in Alom-water : but for a deep Orange, use Turmerick root.

XVIII. A Liquor to gild Skins, Metals, or Glafs.

Take Linsed-oyl three pound, boil it in a glazed veffel till it burns a feather being put into it, then put P 2 to

Ch.

T

107 20

VI. Ta

per,

900

forfi

F

Weise V

the

pa.

Hom

X

B

Wir W

hav

or li

pin!

days

903

age .

alc

X

to it Pitch, Rozin, dry varnish, or Gum-Sandrach, of each eight ounces, Aloes Hepatica four ounces; put all in powder into the oyl, and fiir them with a stick, the fire being a little encreased: if the liquor is too clear or bright, you may add an ounce or two more of Aloes Socratine, and diminish the varnish. so the liquor will be darker and more like Gold. Being boiled, take it, and strain it, and keep it in a Glass for use; which use with a pencil.

CHAP. XXXV.

Of Wood, Horns, and Bones.

I. T O dye Elder, Box, Mulberry-tree Pear-tree, Nuttree of the colour of Ebony.

Steep the wood in Alom-water three or four days, then boil it in common oyl, with a little Roman-Vitriol and Sulphur.

Where note, the longer you boil the mood, the blacker it will be, but too long makes them brittle.

II. To dye Bones green.

222

Boil the Bones in Alom-water, then take them out, dry them and fcrape them, then boil them in Lime-water with a little Verdegriefe,

III. To dye Wood like Ebony, according to Glauber. Diffil an Aqua fortis of Salt-peter and Vitriol.

IV. To make Horns black-

Vitriol diffolved in Vinegar and spirit of Wine will make Horns black : so the Snow white Calx of Silver in fair water.

V. To make Bones white.

They

Ch.35. Wood, Horns, and Bones. 223

They are firangely made white by boiling with water and Lime; continually fourming of it.

VI. 1 o dye Bones green.

1.3.

h, of

Put

flick,

stoo

hoot

tel.

boil-

cule:

Nat.

days,

Wil-

and th

them

10 18

tr.

Wine

They

Take white Wine-vinegar a quart, filings of Copper, Verdegriefe, of each three ounces, Rue bruited one handful, mix them, and put the Bones therein for fifteen days.

VII. To dye Wood, Horns, or Bones red.

First boil them in Alom-water, then put them into tincture of Brazil in Alom-water for two or three weeks : or into tincture of Brazil in Milk.

VIII. To dye them Blew.

Having first boiled them in Alom-water, then put them into the diffolution of Indico in Urine.

IX. To dye them green like Emcralds.

Take Aqua-fortis, and put as much filings of Copper into it, as it will diffolve; then put the Wood, Horns, or Bones therein for a night.

X. To dye Briftles and Feathers.

Boil them in Alom-water, and after, while they are warm, put them into tincture of Saffron, if you would have them yellow : or juyce of Elder berries, if blew : or in tincture of Verdegriefe, if green.

XI. To dye an Azure colour.

Take Roch-alom, filings of Brass, of each two ounces, Fish glew half an ounce, Vinegar, or fair water a pint, boil it to the confumption of the half.

XII. To fuften Ivory and Bones.

Lay them twelve hours in Aquafortis, then three days in the juyce of Beets, and they will be tender, and you may make of them what you will: To barden them again, lay them in firong white Wine-vinegar.

XIII. To make Horns Soft.

Take Urine a month old, Quick-lime one pound, calcined Tartar half a pound 1 artar crude, Salt, of P 4 cach

Chap

Qf

17

jeđ.

:45,

10

water

times

YOU

and h like a

II.

Ta

in

nàth

ting N

2

Ta

(25,

and v

T

CITE:

OF

QILC

100

CHAP.

each four ounces, mix and boil all together, then firain it twice or thrice, in which put the Horns for eight days, and they will be foft.

XIV. Another way to make them foft.

224

Take alhes of which glass is made, Quick-lime of each a pound, water a fufficient quantity, boil them till one third part is confumed, then put a feather into it, if the feather peel it is fodden enough, if not, boil it longer, then clarify it, and put it out, into which put filings of Horn for two days; anoint your hand with oyl, and work the Horns as it were pafte, then make it into what fashion you please.

XV. Another way to foften Horns.

Take juyce of Marubium, Alexanders, Yarrow, Celandine and Radifh roots, with ftrong Vinegar, mix them, into which put Horns, and diget leven days in horfe-dung, then work them as before.

XVI. To cast Horns in a mould like as Lead.

Make a Lixivium of calcined Tartar and Quicklime, into which put filings or fcrapings of Horn, boil them well together, and they will be as it were pap, tinge it of the colour you would have it, and then you may caft it in a mould, and make thereof what fashioned things you please.

XVII. To make Ivory white.

If Ivory be yellow, spotted or coloured, lay it in Quick-lime, pour a little water over it, letting it lye twenty four hours, and it will be fair and white.

Crouss spinst

MALL YOURSEN HOWKET DE

Take White a month old Old

Chap.36. Of Dying, &c.

CHAP. XXXVI.

225

Of Dying Yarn, Linnen Cloth, and the like.

I. TO dye a fad Brown.

1.3.

ight

nt of

them trint, boil

which

hand

then

now,

mix

VSIA

nick-

boil

pap,

n you

fahi-

itin

it lye

AP.

First infuse the matter to be dyed in a strong tincture of Hermodacts: then in a bag put Sassron and ashes, stratum Super stratum, upon which put water two parts mixed with Vinegar one part; strain the water and Vinegar through hot, streen or streen times, in this Lixiviate tincture of Sassron put what you would dye, letting it lie a night, then take it out, and hang it up to dry without wringing, which do in like manner the fecond and third times.

II. To dye a blew Colour.

Take Ebulus berries ripe and well dried, fteep them in Vinegar twelve hours, then with your hands rub them, and ftrain them through a linnen cloth, putting thereto fome bruifed Verditer and Alom.

Note, if the blew is to be clear, put mote Verditer to it.

III. Another excellent blew Dye.

Take Copper scales one ounce, Vinegar three ounces, Salt one drachm; put all into a Copper vessel; and when you would dye, put the faid matter into the tincture of Brazil.

IV. Another excellent bleve Dye.

Take calcined Tartar three pugils, unflak'd Lime one pugil, make a Lixivium, and filtrate it; to twelve or fifteen quarts of the fame water put Flanders blew one pound, and mix them well: fet it to the fire, till you can fcarcely endure your hand in it: then first boil what

what you would dye in Alom-water, then dry it; afterwards dip it in hot Lye twice or thrice; then put it into the Dye.

V. A good red Dye.

226

Take Brazil in powder, fine Vermilion, of each half an ounce, boil them in Rain-water, with Alom one drachm, boil it till it is half confumed.

VI. Another excellent good red Dye.

Take of the Lixivium of unflak'd Lime one pint, Brazil in powder one ounce, boil to the half; then put to it Alom half an ounce, keep it warm, but not to boil : then dip what you would dye, first in a Lixivium of Red-wine Tartar, let it dry; then put it into the Dye.

VII. Another very good Red.

Take Roffet with Gum-Arabick, boil them a quarter of an hour, firain it: then first boil what you would dye, in Alom-water two hours; after put it into the Dye.

VIII. Tomake a fair Ruffet Dye.

Take two quarts of water, Brazil one ounce, boil it to a quart; put to it a sufficient quantity of Grany and two drachms of Gum-Arabick.

IX. A good Purple Colour.

Take Myrtle-berries two pound, Alom, calcined Brals, of each one ounce, water two quarts, mix them in a Brals Kettle, and boil half an hour, then ftrain it.

X. A Yellow Colour.

Take berries of purging Thorn, gathered about Lammas-day, brufe them, adding a little Alom in powder; then keep all in a Brafs veffel.

XI. Another good Yellow.

Put Alom in powder to the Tincture of Saffron in Vinegar,

XII. A

Chap

XII.

Tak

Ste

XIII

W2

TO OF

rith v

this

a Spir

hing

0

EUT I

LOUITS

H.

Fat

Galls

No.

a Cl

cooler Staffa

ingit DECET

I

T

潮

Chap.37. Dying of Stuffs, &c. 227

XII. A very good green Colour.

10.3

try its

en put

the half

om on:

le pint,

; then

Duit not

a Lizi-

ut it in-

a quarhat you

rpatie

e,boilit

Grany

alcined

ts, mix

ar, then

d about

Alomia

fron in

XIL &

Take Sap-green, bruife it, put water to it, then add a little Alom, mix and infuse for two or three days. XIII. To take out Spots.

Wash the spots with oyl of Tartar per Deliquium, two or three times and they will vanish, then wash with water. Spirit of Wine to wash with is excellent in this case. If they be Ink spots, juyce of Limmons or Spirit of Salt is incomparable, washing often and drying it: so also Castle-special Vinegar.

CHAP. XXXVII.

iquor, hary poindsy to which put h

the stree contained

Of the Dying of Stuffs, Cloaths and Silks.

then boil it in the former red at the fifth rule hear

. TO make a fubstantial blev Dye.

Take Woad one pound, and mix it with four pound of boiling water : infuse it twenty four hours; then dye with it all white colours.

II. To make a firm black Dye.

First Wad it with the former Blew : then take of Galls one pound, water fixty pound ; Vitriol three pounds : first boil the Galls and water with the Stuff or Cloath, two hours; then put in the Coperas at a cooler heat for one hour : then take out the Cloath or Stuff and cool it, and put it in for another hour, boiling it : Lastly take it out again, cool it, and put it in once more.

III. To make an excellent Yellow Dye.

Take liquor or decoction of wheat-bran (being very clear) fixty pound ; in which diffolve three pound of Alom; then boil the Stuff or Cloath in it for

for two hours: after which take Wold two pounds, and boil it till you fee the colour good.

IV. To make a very good green Dye.

228

First dye the Cloth or Stuff yellow by the third Section, then put it into the blew Dye, in the first Section of this Chapter.

V. To make a pure clear red Dye.

Take liquor or infusion of Wheat bran (being firained and made very clear) fixty pounds, Alom two pounds, Tartar one pound; mix and diffolve them, with which boil the Stuff or Cloth for two hours: take it then out, and boil it in fresh Wheatbran liquor, fixty pounds; to which put Madder three pounds; perfect the colour at a moderate heat, without boiling.

VI. To make a very pleasant purple Dye.

First dye it blew, by the first rule of this Chapter; then boil it in the former red at the fifth rule hereof: lastly, finish it with a decoction of Brazil.

VII. To dye Crimfon in Grain.

First boil it in the red at the fifth rule of this Chapter; then finish it in a strong tincture of Cochenele made in the Wheat-bran liquor aforefaid: Where note, that the vessels in which the Stuff and Liquors are boiled must be lined with Tin, else the colour will be defective. The same observe in Dying of Silks (in each colour) with this Caution, that you give them a much milder heat, and a longer time.

VIII. The Bow-dyers know that diffolved Tin (that is the folution of *Jupiter*) being put into a Kettle to the Alom and Tartar makes the Cloth attract the colour into it, so that none of the Cochenele is left; but is all drawn out of the water into the Cloth.

The Spirit of Nitre being used with Alom and Tartar, in the first boiling makes a firm ground, so that they shall

8019

Chap.

ulpan u.Nu

Toes

DUTS ; OI

uthod,

apolfib a which

: 301

zed in

all fio

nat vi

nds th

water, in Hy

Horeg

1 1221

accordi befine

ALL YO

to what

ad.

範に

NW IC

y then

(TILITA)

Thirty

CUIS .

ticate of

I VAL

WI. 2

COLDS I

0 000

Chap. 37. Of Dying, &c.

Lib.

COUntr

18 thin

firft Sa

(bein

s, Alor

diffoh

Or two

Wheat

er thre

it, with

hapter

hereot:

s Cha

ochene

When

Lique

OUIT W.

ofSil

ou gin

red Ta

a Keth

trattie

istai

Tota

n fai

229

not spot nor lose their colour by the Sun, Fire, Air, Vinegar, Wine, Urine or Salt-water.

To enumerate all the great variety of Dyes, or Colours; or offer at an effay to reduce them to a certain method, as it is a labour needlefs, fo it is as altogether impoffible, there being infinite colours to be produced, for which (as yet) we have no certain, known or real name : And out of what we have already enumerated in this Chapter, the ingenious (if they please) shall find (by little Practice and Experience) fuch great variety to be apparent, that should we exprefs the number though but in a very low or mean degree, we could not but be exposed in censure to an Hyperbole even of the higheft: Every of the aforegoing colours, will alone or fingly, produce a great number of others, the first more deep or high; the latter, all of them paler than each other: And according to the variety of colours the matter is of, before it is put into the Dye, fuch new variety alfo shall you have again when it comes out ; not according to what the colour naturally gives, but another clean contrary to what you (although an Artift) may expect. For if strange colours be dipt into Dyes not natural to them, they produce a forced colour of a new texture, fuch as cannot poffible be preconceived by the mind of man, although long and continued experience might much help in that cafe. And if fuch variety may be produced by any one of those fingle colours; what number in reason might be the ultimate of any two or three or more of them being complicate or compounded ? Now if fuch great numbers or varieties may be produced. 1. By any one fingle colour. 2. By being complicate; how fhould we (without a certain and determinate limitation by denomination or name) ever order fuch confused, unknown, Various

various, and undeterminate species of things, in any pleafant, intelligible method? Since therefore that the matter (as yet) appears not only hard, but also impossible, we shall commend what we have done to the Ingenuity of the Industrious; and defire that Candor or Favour from the Experienced, with love to correct our Errors; which act or kindness will not only be a future obligation to the Author, but also enforce Poflerity to acknowledge the fame.

U

MALO

and

To

ch

of

Ide

of

hal

The End of the Third Book.

to what you (although an Arrich) may r

could not out be exposed in centurero

all of many paier that cach orber: "And

the variety of colours the matter is of,

fuch as cannot polible be preconcrived

ght much help in that cafe And it fore

prounded ? Now if fach with thambers

or virience may be produced to by any one imple co-

r name ever cider tuch conjuted unknown,

ANY DOUGHTERS BURGERS BURGERS

CLOSE SV

periode even of the higheff : Every of the

number, of others, the fast more deep, or liten;

POLYGRAPHICES LIBER QUARTUS.

231

10.2

in any hat the

e to the Candor correct

aly bes

LI

Containing the Original, Advancement, and Perfection of the Art of Painting: Particularly Exemplified in the various Paintings of the Ancients.

To which is added the Art of Beautifying of the Face and Skin, according to the choifeft ways yet known: the whole Art of Perfuming never Published till now: A brief contemplation of Chyromantical Idea's: together with many other things of excellent Use.

of the Original of the fe Arts.

I. H E Original of the Art of Painting was taken from the Forms of things which do appear; expressing the same (as Hidorus Pelusiota saith) with proper colours, imitating the Life, either

Lib.4.

Chap

Images

III.

but con

For

one ti thould

to ou

that b

was p thing

tende

but i

21

to acc of a l

broos

which

did C

a hap

that (

IV.

Ling,

T

hrli

10.

this

232

either hollow or fwelling, dark or light, hard or foft, rough or fmooth, new or old.

Polygraphices.

Of fuch things (amongst Vegitables) Flowers yield the greatest variety: of Animals, Man: of things Inanimate, Landskips, &c. For this matter of imitation was prefented in the chief things only; for who should learn to imitate all things in Nature? the greater being attained, the lesser will follow of themselvess if any shall attempt for great a burthen, two inconveniencies faith Quintilian, will necessarily follow, to wit, Always to fay too much, and yet never to fay all.

II. And this imitation of things seen with the Eye, was much helped by the Idea's of things conceived in the mind, from the continual motion of the imagination.

Wherefore as Quintilian faith (lib. 10. cap. 3. of his Inflitutions of Oratory) "We shall do well to " accustom our minds to such a stedfast constancy of "conceiving as to overcome all other impediments "by the earnefinefs of our intention : for if we do " altogether bend this intention upon things concei-" ved, our mind need never take notice of any thing " which the Eye fees, or the Ear hears. And therefore those which would profit much, must take care and pains to furnish their minds with all forts of ufe-" This treasury of the mind tul Images and Idea's. " (saith Caffiodorus cap. 12. de Anima) is not over-" loaden in hast : if it be once furnished, the Artist " fhall find upon any fudden occasion, all things ne-"ceffary, ready at hand; whereas those which are " unprovided shall be to seek. It is like to the Analitical Furniture in Algebra, without the knowledge of which, no notable thing can be performed. Now although the imagination may be eafily moved, yet this fame excellency is not attained in an inftant : And without the ability of expressing of the conceived Images,

Chap.1. The Original of these Arts. 233

Images, all the exercise of the fancy is worth nothing.

III. These Forms and Idea's were not fingly confidred, but complicatly.

11th

sh

itati

whi

grea-

615

1720

W. 0

alle

E

認該

3.0 cella

ncy d

ment

we di

0100

thing

there

ie can

ofule

mint

OVER-

Arti

25 10

ch 21

e Ana-

wledge Now

id, ya

: And

Iceived III.ageol

For whereas nature fcarcely ever reprefents any one thing perfect in beauty (in all its parts) left it fhould be faid, that fhe had nothing more to diffribute to others : So Artifts of old chofe out many Patterns, which were abfolutly perfect in fome of their parts, that by defigning each part after that Pattern, which was perfect therein, they might at last prefent fomething perfect in the whole. And fo when Zeuxis intended an exquifit Pattern of a beautiful woman, he fought not for this perfection in one particular body; but chose five of the most well favoured Virgins, that he might find in them that perfect beauty, which (as Lucian faith) must of necessity be but one. And Maximus Tyrius laith you shall not find in hast a body fo accuratly exact, as to compare it with the beauty of a Statue. And Proclus faith, if you take a man brought forth by nature, and another made by Art of Carving, that by nature shall not feem the statelier, becaufe Art doth many things more exactly: To which Ovid affents, when that he faith that Pygmalion did Carve the Snow white Image of Ivory, with fuch a happy dexterity, that it was altogether impossible that fuch a woman fhould be born.

IV. From this manner of imitation did arife the skill of defigning; from whence sprang the Arts of Painting, Limning, Washing, Casting, and all others of that kind.

These Arts in their infancy, were so mean, that the first Artist was forced (as *Elianus* saith *lib.* 10. cap. 10. of bis History) in Painting to write this is an Ox; this a Horse, this a Dog: But as Tully faith (in libro

Q

C

fro

Pai

int

000

Pa

fed

111

wo

100

that BY

DI

P

Sa

DOI dis

A

the

热

Fo.

kin

tarc

副行

alte

Pat

Whit

111

C

1

Po

ter

de claris oratoribus) there is nothing both invented and finished at a time. And Arnobius in libro secundo adversus Gentes faith, "The Arts are not together "with our minds, brought forth out of the heavenly "places; but are all found out here on earth, and "in process of time, softned, forged, and beautified, "by a continual meditation: Our poor and needy "life, perceiving tome cafual things to fall out prof-"perously, whilest it doth imitate, attempt, try, flip, "retorm, and change, hath out of the fame alliduous "reprehension made up some simal pieces of Arts, "the which it hath afterwards by study brought to "fome perfection.

234

V. The perfons who were the first inventers of these Arts are scarcely known (because dayly new inventions were added) but those famous Persons who either strove to bring them to perfection, or add to what was already invented, or otherwise were famous in any one particular thing, History has in part informed us of.

The famous Paufias was the first that attempted to bring the Art of Painting to perfection. Apelles was the first that undertook the expressing of invisible things, as Thunder, Lightning, and the like; the which confideration of these almost impossibilities made Theophylacius Simocatus (in Epift 37.) fay, that Painters undertake to express fuch things, as nature is not able to do : And the fame Apelles had a certain invention and grace, proper to himfelf alone, to which never any other Artificer ever attained. And although Zeuxis, Apelles, Aglaophon, did none of them feem to lack any thing of, yet they differed very much, and had each of them fome peculiar excellency, of which neither of the other two could boaft. Here is but one Art of Caffing, in which Myron, Polycletus, Lyfippus, have been excellent, yet did One very much differ trom

Chap.1. The Original of these Arts. 235

4.

eda.

ler

aly

id,

ily

101-

ilip,

ious.

rts,

to

arts 2 34-

THE R

Wi,

Willy,

dto

Was

inale

; the

itics

that

ture

rtain

e. 10

And

them.

nati,

Y, ot

isbat L)仲

tat

trom

from another: Zeuxis did furpafs all other Artizans in Painting womens bodys: Lysippus is most excellent in fine and fubtle workmanship : Polycletus made excellent Statues upon one Leg: Samins did excel in conceiving of Visions and Phantafies: Dionyfius in Painting of men only: Polygnatus most rarely expreffed the affections and paffions of man : Antimochus made noble women: Nicias excellent in Painting of women, but most excellent in four footed creatures, chiefly Dogs : Calamis made Chariots, with two or four horfes; the borfes were fo excellent and exact, that there was no place left for Emulation : Eupbranor, the first and most excellent in expressing the dignity, and marks of Heroical Persons; Arestodemus Painted Wraftlers: Serapion was most excellent in Scenes: Pyreicus (inferiour in the Art of Painting to none) Painted nothing but Coblers and Barbers : Ludie the first and most excellent in Painting Landskips : Apollodorus, Asclepiodorus, Androbulus, Alevas, were the only Painters of Philosophers, &c.

VI. Another reason of the Invention hereof, mas from the moving of the passions.

For as Simonides faith, (comparing Painting with Pofey) Picture is a filent Pofey, and Pofey is a fpeaking Picture : Upon the occafion of thele words, Plutarch faith, The things reprefented by Painters, as if they were as yet doing, are propounded by Orstors, as done already: Painters express in colours and lines, what Poets do in words; the one doth that with the Pencil, which the other doth with the Pen. When Latinus Pacatus had made a full defeription of the miferable end of wicked Maximus he calls upon all the Painters to affift him : Bring hether, bring hether you pious Poets (faith he) the whole care and fudy of your tedious nights : Ye Artificers alfo, defpife the vulgar

Q 2

236 Pol

Polygraphices. Lib.4.

Ch

Hea

cno

inw

20)

127

cert.

this

Ap

201

and

No

far

101

WC

000

in:

101

(in)

184)

2.4

Dig .

101

御

kil

in .

tru

Arguments of Ancient Fables; these, these things deferve better to be drawn by your cunning hands: let the Market-places and Temples be filled with such Spectacles; work them out in Ivory; let them live in colours; let them stand in Brass; let them exceed the price of precious Stones. It doth concern the fecurity of all Ages, that such things might be seen to have been done, if by chance, any one filled with wicked defires, might drink in innocency by his Eyes, when he shall see the (horrid and deplorable) Monuments of these Our times. And Gregroy Nyssen, upon the Sacrifising of Isac saith, I often faw in a Picture the Image of this Fact, upon which I could not look without tears; so lively did Art put the History before my Eyes.

VII. The Egyptians were the first inventers of Painting: The Greeks brought it (out of its rudeness) to proportion: The Romans adorned it with colours: The Germans (following them) made their works more durable by painting in Oyl: of whom the English, Dutch, Italian, and French, are become imitators.

It is reported that the Grecians were the first painters, and that their colours were (in the infancy thereof) only white and black : but it appears more with reafon and truth, that the invention thereof should be ascribed to the Ægyptians, who (before the invention of Letters) signified their conceptions by Hieroglyphicks of Figures, Cyphers, Characters, and Pictures of divers things, as Birds, Beasts. Insects, Fishes, Trees, Plants, and the like, which by Tradition they transfer'd to their Children; so they made the Falcon to signific Diligence, Strength, and Swistnes: the Bee a King, its Honey, Mildness, its Sting, Justice: a Serpent (tail in mouth) the revolution of the Year: the Eagle, Envy, the Earth, a labouring Beast, a Hare, Hearing,

Chap.1. The Original of thefe Arts. 237

--

ic-

let

ach

10

10

药

-100

pon

Tarre

nieb-

Emy

till-

\$76-

The

274-

lich,

-0160

100-

with

dbe

enti-

igh-

1884

rani-

01 455

ne Bee

a Ser-

110

Harly,

aring,

Hearing, &c. Now our bare learning to imitate is not enough; it is requifite that fince we are not first in invention, we fhould study rather to out go than to follow. Ifit were unlawful (faith Quintilian) to add any thing to things invented, or to find out better things, our continual labour would be good for nothing; for it is certain that Phydias and Apelles, have brought many things to light, which their Predeceffors knew nothing of. Apelles did all things with compleatnets, Zeuxis, with an ineftimable grace: Protogenes with an indefatigable deligence: Timanthes with a great deal of fubrilty and curiofity : Nicophanes with stately magnificence. Now to attain to thele kind of Excellencies, it is necelfary to have recourse to variety of great Masters, that fomething out of the one, and fomething out of the other, may be as fo many ornaments to adorn our works; and as fo many fleps to lead us on to the door of perfection.

VIII. About the time of Philip King of Macedon, this Art began to flourish; growing into great estimation in the days of Alexander and his Successors: from thence through all the series of time even to this day, it hath received by degrees, such monderful advancements that it may be now said, it is arived at perfection.

For without doubt there is a perfection of Art to be attained, and it is as polfible that I, or thou, or hee, may as well attain it, as any body elfe, if we refolve to ftrive, and take pains, without fainting, or fear of difpair. And fince the Art of Painting is (as Socrates faith) the refemblance of vifible things, the Artift ought to beware that he abufes not the liberty of his imagination, in the fhapes of monftrous and prodigious Images of things not known in nature; but as a true lover of Art, prefer a plain and honeft work (agreeing with nature) before any phantaftical and conceited devife whatfoever. Q3 IX. Laft-

Polygraphices.

238

IX. Lastly, that from Time, Form, Magnitude, Number, Proportion, Colour, Motion, Rett, Situation, Similitude, Distance, Imagination, and Light, in a single and complicate confideration, this Art bath its essence or being, and at last bad by the belp of industrious and unwearied minds, its Original production, and manifestation. CI

SF

81

15

6.

Fr

5

15 1

54

16

4 p

15 W

16 .

\$4

L

1.

m

50

R- 10

SE M

0

Lib.4.

Light is that only thing, without which all those other things from which this Art springs, would be useless; without which the Art it felf cannot be. "It "is (as Sanderson faith) the heavens off-fpring, the "eldest daughter of God, fiat lux, the first days Crea-"tion: it twinkles in a Star, blazes in a Comet; " dawns in a Jewel, diffembles in a Glow-worm; " contracts it self in a Spark, rages in a Flame, is " pale in a Candle, and dyes in a Coal. By it the " fight hath being, and the imagination life, which " comprehends the univerfality of all things without " fpace of place : the whole Heavens in their vaft and " full extent, enter at once through the apple of the " Eye, without any straitness of passage : the fight " is a fenfe, which comprehends that, which no other " fenfe is capable of; it judgeth and diffinguifheth "between two contraries in an inftant, it confiders "the excellency and beauty of every object: the " fpangled Canopy of Heaven by night, the wander-"ing Clouds by day, the wonderful Form of the " Rain-bow, the glorious matutine appearance of " Phabus; his meridional exaltation, the golden rays " which furround him, the mutability of his shadows, · his vespertine setting: the lofty tops of Mountains " unacceffable and ridgy Rocks, profound Valleys, " large Plains, which feem to meet heaven, green " Trees, and pleafant Groves, delightful Hills, fweet " and flowery Meadows, pleafant Streams, fpringing roun-

Ch.2. Farther Progress of these Arts. 239

4.

de,

12-

ht,

its

篇1-

hole

d be

"It

the

rea-

m;

De. 15

t the hich hout

it and f the

fight other illeth

iders

: the

nder-

of the

ace of

dows,

alleys,

greet

ang

cun-

⁴⁴ Fountains, flowing Rivers, flately Cities, famous ⁴⁵ Towers, large Bridges, magnificent Buildings, fruit-⁴⁴ ful Orchards and Gardens, fhapes of living Crea-⁴⁴ tures, from the Elephant to the Ant, from the Eagle ⁴⁵ to the Wren, and from the Whale to the Shrimp, ⁴⁴ the wonderful forms of Infects, the marching of ⁴⁴ Armies, the befieging and florming of Garifons, ⁴⁵ the infolencies of rude People, the flight of the ⁴⁶ Diffreffed, the defolation and depopulation of ⁴⁷ Kingdoms and Countries, the failing of Ships, ter-⁴⁶ rible Sea-fights, great beauty of Colours, together ⁴⁶ with thoufands of other things, all which it digefts, ⁴⁷ and Marfhals in ample Order, that when occasion ⁴⁶ may be, it may exert its flore, for the benefit, ad-⁴⁷ vantage, advancement, and perfection of Art.

CHAP. II.

Of the farther Progress of these Arts.

I. A S God Almighty (who is the Author of all wifdom) was the first institutor hereof, so also was be the promulgator, by whom these Arts have made progreffion in the world.

Certainly, faith Philostratus, Picture is an invention of the Gods, as well for the painted faces of the Meadows adorned with Flowers, according to the feveral Seafons of the year; as for those things, which appear in the Sky. What wonderful Eloquence is this! that in fo few words, this Philosopher should clear fo great a point. But what faith Gregorius Nyssenus? Man, faith he, is an earthen Statue : and Suidas in Oratione primâ de Beatitudinibus, speaking of Adam,

Q4

laich,

240

Polygraphices.

Lib.4.

Ch.

We

God

in nit,

St.

itac

Mat

Peso

2Gt

11.17

tar

23.2

the

172

西山

GTER

20

1

量

02.7

trur

Gts

ofI

AD

山

then

faith, This was the first Statue, the Image named by God, after which all the Art of Carving uled by men receiveth directions: Lot's Wife was another, turned into a durable Pillar of Salt, of whom Prudentius (in Harmartigenia) faith, the waxed ftiff, being changed into a more brittle substance, she standeth Metamorphofed into Stone, apt to be melted, keeping her old posture in that Salt-stone Image; her comliness, her ornaments, her forehead, her eyes, her hair, her face alfo (looking backward) with her chin gently turned, do retain the unchangeable Monuments of her Antient offence : and though the melteth away continually in Salt sweat; yet doth the compleatness of her shape fuffer no loss by that fluidity; whole droves of beatts cannot impare that favoury fione fo much, but fiill there is liquor enough to lick, by which perpetual lofs, the wasted skin is ever renewed. To these let us add the pattern of the Tabernacle shewed unto Mofes upon Mount Sinai: The Brazen Serpent made by the express command of God: The Pattern of the Temple (which David gave unto Selomon) after the form which God made with his own hand : Ezekiel's portraict of Jerusalem with its formal Seige upon a Tile by expreis command from God alfo : The Brazen Statue of our Lord Fesus Christ erected by the woman healed of the bloody Iffue, as is mentioned by Photius, and Afterius Bilhop of Amafa, and other Ecclefiastick Writers: The Piciure alfo of our Lord made without hands, as it is related by Damascenus Cearenus and others : The Picture of Christ in a Napkin or Towel, fent by our Lord himfelf, unto Augarus King of Edeffa; together with many more too tedious here to relate.

II. By vertue of this divine band it was that many Artifts of old attained to a certain kind of perfection in these Arts. We

Ch.2. Farther Progress of these Arts. 241

în

ed.

Î.ţ

10-

lid

144

200

ied,

Iti.

lly

ape

SIS,

add

100

¢X-

sple

ma

-100

Tile

2.0%

nan

121,

lick

tuon

0.0

Wil,

E.

0151

Ar the

We

We will only refer the proof of this to the examples in the 31 of Exodus of Bezaleel and Aboliab; of whom God himfelf witneffeth, that he called them by name to make the Tabernacle; and filled them with his fpirit, not only to devife curious works in Gold, in Silver, in Brass, and in Silk; but also gave them skill to teach others the fame.

III. Nature also bath not been idle, but hath acted a Master-piece herein.

To pais by the glory of Flowers, the excellent comlinefs of beafts (as in the fpots of Leopards, tails of Peacocks, and the like) I will only remark the fame of a Gem, which Pyrrbus (who made War with the Romans) had, of which Pliny in lib. 37. cap. 1. of his natural Hiftory, reports, that it being an Agath had the nine Muses and Apollo holding of a Lute depicted therein; the fpots not by Art, but by nature, being fo fpread over the ftone, that each Muse had her peculiar mark. See Gafferel cap. 5.

IV. The care of Parents in the Education of their Children, was another reason of the progress hereof.

The Greeians, faith Ariftotle in cap. 3. lib. 8. of his Politicks, did teach their children the Art of Painting: and Plutarch faith, that Paulus Æmilius had Sculptors and Painters amongft the Mafters of his children as well as Philofophers and Rhetoricians: and Pliny faith, that by the Authority of Pamphilus, this Art hath been ranked among the liberal Sciences, and that only Free-born children fhould learn it. And Galen enumerating feveral Arts as Physick, Rhetorick, Musick, Geometry, Arithmetick, Logick, Grammer, and knowledge of Law; add unto theie, faith he, Carving and Painting. And as the Greeians were the first, that taught their children thefe Arts, fo alfo they provided betimes for them choice Mafters.

V. Thefe

Ch.

36

dras.

ET.

助

phili The

Whe

Las

RE

pin .

WQ.

=

011

147

Art

Ct 2

140

1220

sla

E4

the

II di

210

10

Reg

\$st

V. These Masters by their carefulness and vigilancy, not deceiving those that put their trust in them, became main Pillars of these Arts, and propagated them to Posterity; which by the addition of confiderable gifts and rewards had an bonourable esteem in the world.

Their care was manifest in laying down folid Principles of Art; of which Quintilian in cap. 2. lib. 12. of his Institutions of Oratory faith, though vertue may borrow fome forward fits of nature, yet the must attain to perfection by doctrine. Their vigilancy was feen in watching, to apprehend their Scholars capacities, that they might fuit themfelves accordingly; as in Tully's instance of Ifocrates, a fingular good teacher, who was wont to apply the fpur to Epborus, but the bridle to Theopompus; And their reward was eminent, as Pliny noteth in Pampbilus his School, out of which Apelles and many other excellent Painters came, who taught no body under a Talent (which is about 175 pound sterling) thereby the better to maintain the Authority of Art.

VI. Their practice exactly agreed with their precepts.

As with Seneca, that labour is not loft, whofe experiments agree with precepts; fo with Quintilian, those examples may ftand for testimonies : And it was the practice of Painters of old, as Galen witnesseth concerning Polycletns, who hath not only fet down in Writing the accurate precepts of Art; but also that he made a Statue according to the rules of Art contained in those precepts.

VII. These precepts which they taught their Scholars, they delivered in writing, that they might ever accompany them where sever they went.

Apelles gave the precepts of this Art to his difciple Perfeus in writing, as Polycletus did to his; befides innumerable others now in being too tedious here to recite,

Ch.2. Farther Progress of these Arts. 243

0.4.

ancy,

1101

Poste-

\$ 78-

hin-

0, 12.

e may

utt at-

WW

capa-

1 35

acher,

ot the

ment,

which

who

115

in the

cepts.

ofe ex-

tilizz,

it was

effeth

DWOID

lothat

rt con-

balars,

畔町

Histople belides

here to

TECITE.

recite. The like did these following, Adaus, Mitylenaus, Alcetas, Alexis the Poet, Anasimenes, Antigonus, Aristodemus, Carius, Artimon, Callisenus, Christodorus, Democritus, Epbesius, Duris, Eupherion, Euphranor, Istomius, Hegesauder Delphicus, Hippias Eleus, Hypsicrates, Iamblicus, Juba Rex Mauritaniæ, Malchus Bizantius, Melanthius, Menæchmus, Menetor, Pamphilus, Polemon, Porphyrius, Praxiteles, Protogenes, Theophanes, Xenocrates, and many others, the chief of whole works are now lost.

VIII. As Arts came now into estimation, so at length Laws mere established for their preservation; and punishments for their prevarication.

The beginning of these Laws was first at Argos, Ephesus, Thebes and Athens, as also in Egypt, where a workman (faith Diodorus Sicalus) is feartully punished, if he undertake any charge in the Commonwealth, or meddle with any Trade but his own : the which Law faith Herodotus, the Laced amonians did also approve of. By means of which Laws it was, that the Artists of those Nations attained to such a perfection of Art, as we shall hereafter relate.

IX. The fervent define and love of emulation to excel others; the commendable simplicity of Art; together with the content and satisfaction of doing something well, gave a large progress towards the advance of Art.

It was nobly faid of Scipio Africanus, that every magnanimous spirit compares himself, not only with them that are now alive; but also with the famous men of all ages; whereby it appears that great wits are always by the fling of emulation, driven forwards to great matters; but he that by too much love of his own works, compares himself with no body, must needs attribute much to his own conceits. Doft thou defire the glory of swiftnes? faith Martial (in Epigr. 36.lib.

i

uf

125

山 記 記 記 記

Wo

Desi This

四二十二十二日 四

36. lib. 12. ftrive to out-go the Tyger, and the light Offrich ; it is no glory at all to out-run Affes. This emulation is the force of great wits, whereby our imitation is provoked fometimes by envy, and fometimes by admiration, whereby it falls out, that the thing we . carnefily seek after, is soon brought to some height of perfection; which perfection confifts in exact imitation, according to the fimplicity of Art, and not in gaudy appearances, which adorns the fhadows much more than ever nature adorned the fubftance. This imitation of the life gave the Artizan fame; which fame quickened his afpiring thoughts, adding more fuel to the flames, till fuch time, as he brought torth a moft abfolute work, whereby he conceived a joy, content and fatisfaction, as durable as the work it felf, upon which he now conceived himfelf a happy man, and through a just affiance of his vertues knows himfelf to be lifted up above the reach of envy, where he stands secure of his fame, enjoying in this life (as if he were now confecrated unto Eternity) the veneration that is like to follow him after his death; thus an honest emulation and confidence, bringing forth works of general applaule, procureth unto its author an everlassing Glory. Now what a comfortable thing is this, to have a fore-feeling of what we hope to attain to?

X. Another reason of the augmentation of these Arts, was the manifold uses thereof among men, either for good or evil purposes.

As in natural Sciences, where words come fhort, a little Picture giveth us the knowledge of Beafts Birds, Fifhes, and other forms, as well inanimate as animate : In the *Tatticks*, how fhould a General know how to fet his men in array, unlefs he try the cafe by defign or delineation? fo in *Architecture* to pourtray Platforms after

Ch.2. Farther Progress of these Arts. 245

64.

light This

aimi-

etimes

ing we

gin of

Inntz-

not in

much

This

which

more

torth a

T, con-

it left,

man,

shim-

erehe

(asit

enera-

; thus

forth

author

: thing

to at-

Arts,

for good

(bort, a

Birds,

imate:

now to

tign or

atter

after any fashion, and to work out the Patterns of high and mighty buildings in a little wax, keeping in fo small an example the exact proportion of the greater Structure : In Geometry the exactnels of Lines, Angles, Surfaces and Solids : In Botonalogia, the exact fhapes of Herbs, Plants and Trees : In Zoologia, the shapes of all living creatures : In Anthropologia, the exact description of all the parts of mansbody inward and outward : In Chymia, the forms of all Chymical veffels and operations: In the lives of illustrious men and Princes, to express their forms and shapes to the life, that age might not prevail against them, deferving thereby (as Varro faith) the envy of the Gods themfelves: In Geography, to defcribe in Imall Maps Kingdoms, Countreys and Cities, yea the whole World : In Policy, as Michal in faving her husband David, Ptolomeus in the Image of Alexander, which he willingly let Perdiceas catch from him, fuppoling it to have been the boby it felf, thereby avoiding much blood-fhed : Cyrus his wooden Perfians in the Seige of Sardis, by which the Towns-men being frighted, yielded the City : Epaminondas at Thebes by the Image of Pallas did wonders : Amafis King of Egypt, his golden Image made of the Bafin, in which his feet uled to be washed, which the Egyptians religiously worthiped, whereby he brought them to affect him being now a King, who was of an ignoble and bafe Parentage ; the wooden Elephants of Perfeus King of Macedonia, with which he wonted his horfes, that they might not be frighted in time of Battel. The Ornaments of Temples, Market-places and Galleries, places both publick and private, Julius Cafar's Image in wax, hideous to look to, for twenty three gaping wounds he received, did mightily fir up the Romans to revenge his death. Worthy men which had deferved well of the world, had their

01.2

210

aitsv

1

i Kir

which

and H

ing t

(ein

libou

R. II

an pr

native King

Wer

XII

Th

in a

D IN

11 (3

載紙

anti-

ist.

1

mit

in a

ROT

1 20

theis memories conferved with their Images; by which all those that aspire to goodness, and to follow their steps, are likewise filled with hope. The Atbemians have crected unto Efop a molt goodly Statue, faith Phedrus, and have fet a contemptibl flave upon an everlafting bale, that all might understand, how the way of bonour lieth open to every one, and that glory likewife doth not so much follow the condition of our birth, as the vertues of our life. Berofus excelled in Aftrology, wherefore the Athenians for his divine Prognottications, crected him a Statue with a golden Tongue, fet up in their publick Schools, as Pliny faith, lib. 7. cap. 37. Publick Libraries were furnished alfo with Golden, Silver, and Brais Images of fuch, whole immortal fouls did speak in those places. The provocations of vices have also augmented the Art; it hath been pleafing to engrave manton lusts upon there cups; and to drink in Ribauldry and Abominations, as Pliny faith in the Proem of his 33 Book.

XI. The use therefore of these Arts extending it self so universally to all intents both in war and peace, it came to pass that Artificers were bonoured by all sorts of men which themselves perceiving, did still endeavour to encrease this enjoyed favour by a daily advance of theis skill.

By Kings they were honoured; for Demetrius, whileft at the Seige of Rhodes, came to Protogenes, leaving the hope of his Victory tobehold an Artificer. Alexander the Great came alfo to Apelles his Shop, often accompanied with many Princes. It was his will that none but Polyeletus alone, fhould caft his Statue in Brafs, that none but Apelles alone fhould paint him in Colours, that none but Pyrgoteles alone fhould Engrave him. The effimation of the Artifts were alfo underftood from the effectm and high rates their works were prized

Ch.2. Farther Progress of these Arts. 247

0.4

s; by

ollow

Athy.

Matur.

e upos

新新 調

时间;

Prog

golden

(faith,

ed allo

fuch,

places.

nented

市以開

railer

of his

efeff

t cante b

of men

र महार. रंग्र ग्रेस

ntetrias,

es, les.

artificer.

hiswill

itatit II

him in

Engrate

ks wert

prized at; a picture of Bularchus a Painter, was valued at its weight in gold by Candaules King of Lydia: Ariftides was so fingular in his Art, that it is reported of King Attalus that he gave an hundred Talents (which is about feventeen thousand and five hundred pounds fterling) for one of his Pictures. As much had Polycletus for one of his. Apelles had for painting the Picture of Alexander the Great, three thoufand and five hundred pounds given him in golden Coin. Cafar payed to Timomachus eighty Talents, (about fourteen thousand pounds sterling) for the Pictures of Ajax and Medea. Many more examples we might produce, but these may suffice; at length no price was thought equal to their worth : to Nicias rather than he would fell his Picture called Necyia to King Attalus, who proffered him fixty Talents, (worth near eleven thousand pound sterling) bestowed it as a Prefent upon his Country.

XII. Art meeting with such Successes, created a boldness in Artificers, to attempt even the greatest matters.

The great Coloffes of the Antients may ferve here for an example; Zeuxis above all the reft, hath been admired for his boldnels: Eupbranor alfo excelled Parrhafius in this kind, in that the Thefeus of the one to infinitely excelled the Thefeus of the other. So great an excellency of Spirit arole in the old Artificers, as not to be daunted by the authority of those, who were like to centure their works: it was a great mark they aimed at, to avoid a preposterous shame or fear. And this they accomplished by taking care, not only to give them content, who must of necessity be contented with the work; but also that they might feem admirable unto them which may judge treely without controul. So they heeded to do well in the opinion of accurate and judicious spectators, rather than to do

Ch.

abut f

feits.

k

have

trad behi

wha

with of hi

when

ott

DI

lon

heo

yet A

m(n

their

their

Pol

it;

dan

prefe

men

apor

forh

the

find

his

the

him

Pia

not

do that which liked themfelves. And therefore whatfoever is dedicated unto posterity, and to remain as an example for others, had need be well done, neat, polifhed, and made according to the true rule and law of Art, foralmuch as it is likely to come into the hands of skilful Artificers, judicious centurers, and fuch as make a narrow scrutiny into every defect. But as it is impoffible to attain to an excellency, or height of any thing without a beginning, to do the first things in going on of the work feem to be the leaft; the height of Arts, as of Trees, delighteth us very much, to do not the roots; yet can there be no height without the roots. And therefore we shall find that a frequent and continual exercise, as it is most laborious, foit is most profitable; seeing nature doth begin, hope of profit doth advance, and "exercise doth accomplish the thing fought after. In fum, by doing quickly, we thall never learn to do well; but by doing well, it is very likely we may learn to do quickly. To this fpeedy and well doing there belongeth three things, viz. to add, to detract, and to change. To add or detract, requireth lefs labour and judgment ; but to depress those things that swell, to raile those things that fink, to tye close those things which are scattered, to digeft things that are without order, to compose things that are different, to refirain things that are infolent, requireth double pains: for those things may be condemned, which once did pleafe, to make way for inventions not yet thought of. Now without doubt, the best way for emendation is to lay by the delign for a time, till it feem unto us as new, or anothers invention; left our own, like new births, pleafe us too much.

XIII. Lastly, That which gave the greatest and as it were 'the last step towards the augmentation of Art, was that

Ch.2. Farther Progress of these Arts. 249

that free liberty which Artizans gave every onesto cenfure? to find fault with their works, and to mark their de fects.

San po-

14

i ai l

如何

anda Will

afit

100

hay

ht

, W.

iii.

) this

ing

adda

thing

reret

mpot

at at

thing

THE .

T

ava

icw,0 bitta

dati

は開

It was the opinion of Seneca, that many would have attained unto wildom, if they had not conceived themfelves to be wife already. When Phidias made Jupiter for the Eleans, and shewed it, he floed behind the door liftning what was commended, and what discommended in his work: one found fault with the groffnels of his nole, another with the length of his face, a third had fomething elfe to fay : now when all the spectators were gone, he retired himself again to mend the work, according to what was liked of the greater part; for he did not think the advice of fuch a multitude to be a fmall matter, judging that to many faw many things better than he alone, though he could not but remember himfelf to be Phidius. But yet Artificers did not from hence admit their judgments generally in every thing, but they followed their directions only in fuch things as did belong to their Profession. As when Apelle's made a work, he expofed it in a place where all that paifed by might fce it; hiding himfelf in the mean time behind the Pi-Aure, to hear what faults were marked in his works, preferring the common people before his own judg-And he is reported to have mended his work, ment. upon the cenfure of a Shooe-maker, who blaming him for having made fewer latchets in the infide of one of the Pantoffles, than of the other : the Shooe-maker finding the work the next day mended according to his advice, grew proud, and began to find fault with the Leg allo; whereupon Apelles could not contain himfelf any longer, but looking forth from behind the Picture, Ne sator ultra crepidam, bid the Shooe-maker not go beyond his Laft; from whence at laft came that R

CI

001

280

fant

An

nica.

200

mi

W

the ma

Ap

Ge

10

De

Up

121

刻

ŋ

de.

10

-

â

ing

12

Sta

In:

12

W

田山

that Proverb. He is the best man that can advise himself what is fit to be done; and he is next in goodness, that is content to receive good advice: but he that can neither advise himself, nor will be directed by the advice of others, is of a very ill nature.

behind de doornie li III A A His one found faule

breat inewed it ne ne the

Of the Confummation or Perfection of the Art of Painting.

I. A S Invention gave way to the advancement of Art, fo the advancement of the fame made way for its Perfection.

The Invention arole from the appearance of things natural, conceived in Idea's, as we have abundantly fignified (in the first Chapter of this Book) the Advance from the bringing of those Idea's to light through practice (by Chap. 2.) From whence arole things very excellent for greatness: very good for their usefulness, choice for their novely, and singular for their kind.

II Eafe of Invention, Plenty of Matter, and Neatnefs of Works were steps by which Art was confummated. For cafe of Invention gave Encouragement, Plenty of Matter gave Formation, and Neatnefe gave Delight, all which fo confpired together, to put so much of emulation into the Artificer, to undertake, or endeavour to do those things, which in their kind might never after be exceeded : this indeed was their aim of old, which although the antients of this Art could never attain unto, yet did they make fuch way, that some of their followers have done those things, which never any after them could over mend, nor themselves fearcely

Chap.3. The Perfection of Painting. 251

k

ł.

he

tet

Arth

17 11

ings ntly

ance

ogh

tery refs ;

thefs

Fa

attor

chfo

inco

thole

C 23-

chal-

a un.

their

江湖

antig

COLL

come near. Easie invention springs out of a great and well rooted fulness of learning; by being converfant in all forts of studies, having familiarity with Antiquities; the knowledge of innumerable Historical and Poetical narrations, together with a through acquaintance with all such motions and Idea's of the mind, as are naturally incident unto men: for the whole force of this Art doth principally confist in these things, nothing bearing a greater star star in the manifold varieties of *Painting*.

III. It was the opinion of Pamphilus (the master of Apelles) that without the knowledge of Arithmetick, Geometry, and the Opticks, this Art could not be brought to Perfection.

The examples of Phidias and Alcamenes is pertinently brought here; The Athenians intending to fet up the Image of Minerva upon a high Pillar, employed those two workmen, purpofing to chuse the better of the two; Alcamenes (having no skill in Geometry nor the Opticks) made her wonderful fair to the eve of them that faw her near. Phidias contrariwife (being skilful in all Arts, chiefly the Opticks) confidering that the whole fhape would change according to the height of the place, made her lips wide open, her nofe fomewhat out of order, and all the reft accordingly, by a kind of refupination: the two Images being brought to view, Phidias was in great danger to have been stoned by the multitude, until at length the Statues were fet up; where the fweet and excellent firoaks of Alcamenes were drowned, and the disfigured diftorted hard-favourednels of Phidias his work vanished (and all this by the height of the place;) by which means Alcamenes was laughed at, and Phidias much more efteemed. Of like perfection is Amulius his Minerva; the Image of Juno in the Temple of the R 2 Syrian

Chi

EX.

sts

trat

men

Tha

frot

Au

am

the

Les

tral

100

(6

da

Wit

dog

the

of a

the

ma

to

pour

10

doce

045

100

ton

be

in .

Syrian goddefs; the head of Diana exalted at Chios, made by Bupalus and Anthermus, Hercules in the Temple of Antonia, &c. An Artificer, faith Philostratus in Proæmio Iconum, must understand the nature of a man throughly, to express all his manners, guife, behaviour, &c. he must difcern the force in the constitution of his cheeks, in the turning of his eyes, in the casting of his eye-brows; in short, he must observe all things which may help the judgment; and whosoever is thus furnished will doubtles excel, and bring things to perfection; he then may easily paint a mad-man, an angry man, a pensive man, a joyful man, an earness man, a lover, &c in a word, the perfection of whatfoever may possibly be conceived in the mind.

IV. (ontinual ol servation of exquisite pieces (whether Artificial or Natural) nimble conceptions, and tranquillity of mind, are great means to bring Art to Perfection.

The works of the Antients could never have been fo exquifite in the expression of Passions, but by these means. How perfectly did Zeuxis paint the modest and chast behaviour of Penelope; Timomachus the raging mad fit of Ajax; Silanion the frowardness of Apollodorus; Protogenes the deep pensiveness of Philifeus; Praxiteles the rejoycings of Phryne; Parrbasius a boy running in Armour; and Aristides his Anapauomenos dying for love of his Brother. Bodius his Image of Hercules is of the fame nature; Themistius a most lively Image of feign'd frindship; Agellius a most lively Image of Justice; Apelles an admirable Picture of Slander; thousands of examples more might be drawn out of antient Authors to approve these things, if these may be thought not sufficient.

V. This Perfection also lyeth in the truth of the matter, the occasion thereof, and discretion to use it.

The most ancient and famous Painters did make much

Chap.3. The Perfection of Painting. 253

4.

il,

D-

In

100

tion

fting

ings

LOUS

esto

man,

meh

-150

state

wil-

R.

been

thefe

delt

1613-

dist

Phi-

after

Ans-

whis

itins

lint

rable

more

DIOTC

nţ.

ustill's

make

noch

much account of Truth, and had rather lofe the neatnefs and glory of their pieces, than to endanger the truth of their flory; which indeed is the great commendation of a Picture, for as much as Lucian faith, That nothing can be profitable but what proceeds from truth. Occasion also is a great matter; the Pi-Aure of Bacchus may here ferve for an excellent example, whofe paffion of love was to clearly expressed therein; cafting alide his brave apparel, Flowers, Leaves, Grapes, de. Now in reprefenting things truly according to the occasion, diferention ought to be your guide; for as in Tragedies, fo alfoin Pictures all things ought not to be represented; let not Medea (faith Horace in libro de Arte) Murther her own children in the prefence of all the people; let not the wicked Atreus boil humane flesh openly; there are doubtless many things, which had better be left out, though with fome lofs of the ftory, than with the lofs of modefty; wanton, unlawful and filthy lufts (though they may gain the vain title of wit yet) they diminish not only the estimation of the workman, but alfo the excellency of the work, debarring it of perfection. Precepts help Art much, in propounding unto us the right way; but where they fail, our wits must supply, by warily confidering what is decent and convenient; for this Art requireth Itudious endeavours, affiduous exercitations, great experience, deep wildom, ready counfel. veracity of mind. diligent observations, and great discretion.

VI. To the former add Magnificence, which gives Authority to things excellent.

Great minded men are most of all given to entertain stately conceits; therefore an Artizan ought to be of a magnanimous nature; if not, yet that at least he ought with a determined resolution to aim at mag-

R 3

nificent

254

Polygraphices.

nificent things. So it seems that nature did dispose Nicophanes to a high firain of invention; Nicophanes (faith Pliny, lib. 35. cap. 10.) was gallant and neat, so that he did paint Antiquities for Eternity, whereby he was commended for the magnificence of his work, and gravity of his Art. Such Artificers therefore as do bring any thing to perfection, must be of an exceeding great spirit, and entertain upon every occasion great thoughts, and lofty imaginations; by this means they shall gain an everlasting fame; but this is impossible (faith Longinus) for any who bulie the thoughts and studies of their life about vile and flavish matters, to bring forth any thing which might deferve the admiration of fucceeding ages. If any Artizan be not naturally of fo great a spirit, let him help himfelf by the reading of History and Poefie; History cannot but inspire a magnanimous Spirit, when the reprefents to us fo many rare exploits, and the examples of fo many great noble and valiant fouls, who through gut all ages, in the midft of most eminent dangers, have demonstrated their vertues and spirits not only to those present, but all succeeding times. Poefie also being of a haughty and lofty file, doth much enlarge the mind, and from thence many excellent things are brought : The much admired Elean Jupiter which Phidias made, himfelf confeffed to be formed after the Image of 7upiter described in Homer. From the fame poet did Apelles paint the Image of Diana among the lacrificing Virgins. It is not the prefent age, but the facred memory of all posterity, which gives unto us a weighty and durable crown of Glory.

VII. Exact Analogy or proportion, not only advanced Art, but also brought it a degree nearer Perfection.

Philostratus calls it Symmetrie, some Analogy, others Harmony ; this is the appellation of the Greeks; what

the

Ch

1

34.6

ton Of

THE

故釈

whi

is o fab

P

firit

den

Bor

Atter

fit

fait

the

Pen

ful

m

is

afte

the

Whi

col

塘

TR:

W

3

I

al

fou

L16.4.

Chap.3. The Perfection of Painting. 255

4.

ofe

Data,

reby

1028,

に言

11.14

alica

this

this

buls

and

light

Ar.

help

itory

10 16-

nples

mgh-

have

thole

12 of a

mind.

nght: made,

of Fa-

lid A.

ticing

ed me-

cighty

24804

cheps

Wilat

til

the Latins called it fcarcely appears (as Pliny faith lib. 34.cap.8.) yet words equivalent in power thereto are found , as Congruence, equality, and July (libro primo de Officiis) calls it Agreement and apt composition ; Vitruvius, Commodulation ; Agellius calls it a natural competence; Quintilian approves the word Proportion; by which faith Plutarch beautiful things are perfected : it is one of those things which the most High used in the fabrication of the world (Wifd. 11.20) He bath di-Sposed all things in measure and number and weight. The tirft giver of Symmetrie or Analogy was Parrhafius Polycletus, who was a diligent observer thereof ; Asclepiodorus, an exact practiler thereof, whole admirer was Apelles, who effeemed it to proceed out of fome perfections in an Artificer furpalling in Art, and which is most apparent in naked and undifguised bodies. Strabo faith, that Phidias exactly observed this proportion in the Image of Jupiter Olimphicus fitting. The fame Phidias, as Lucian reports, could exactly tell upon the first fight of a Lions claw, how big a Lion he was to make in proportion to the fame claw. Lineal Picture is the foundation of all imitation, which if it be done after the true rules of proportion, will lively reprefent the thing delineated : this is a perfection in kind, which yet cannot be compared to the perfection of a coloured Picture.

VIII. This point of Perfection was further advanced by the exquisiteness of Colouring.

The perfection of Colouring arifeth from a certain right understanding of each colour severally, without which it is impossible to mix any thing rightly, as Hermogenes faith. The Greeks (as Porphyrius) call this mixtion of colours, corruption, which word Plutarch also used when he faid that Apollodorus (who first found out the corruption or way of shadowing in co-

R 4.

Cha

湖明

inter i fee

lepth intro inter inter inter inter

ior o

ba

mid

Fair

dife

ing int

1

jozes

an ad

雪. 四一世

故

220

氣

融

1

10

lours) was an Athenian. Lucian calls it confusion, where he faith that by the Art of Painting, Images were made by a moderate confusion of Colours, as White, Black, Yellow, Red, &c. by which as Phyloftratus faith in Proamio Iconum, we know how to imitate the diversities of looks in a mad-man, in a fad or chearful countenance; the colour of the eye, as brown, gray or black; of the hair, as golden, ruddy, bright, or flaxen; of the cloaths, as cloth, leather, or armour; of places, as chambers, houles, forrefts, mountains, rivers, fountains,&c. this is done by the accurate mixtion, due application, and convenient fhadowing, as Lucian faith in Zeuxide, through the observation of light, shadow, obfcurity and brightness, as Plutarch will have it For this caule, faith Johannes Grammaticus, is a white or golden Picture made upon a black ground. Light is altogether neceffary, feeing there can be no fhade without it : light and fhadow cannot fubfift alunder, becaufe by the one, the other is apparent, for those things which are enlightned feem to flick out more, and to meet the eyes of the beholder; those which are shaded to be depressed. This same of light and shadow, Nicias the Athenian did most accurately observe; as allo Zeuxis, Polygnotus, and Euphranor, as Philostratus faith in libro secundo de vita Apollonii, cap.9. Apelles painted Alexander as if he held lightning in his hand, Philostratus observed the same in the picture of an Ivory Venus, fo that one would think it an eafie matter to take hold of her; Paufias arrived to fuch an excellency in this, as fcarcely any after could attain unto, as in the painted Oxe, faith Pliny, which he made inimitable. Obscurity or Darkness is only the duskinels of a deeper fhadow, as brightnefs is the exaltation of light ; if white and black be put upon the fame fuperficies, the white will feem neareft, the black farther off: this being

Chap. The Perfection of Painting. 257

.4.

STA

Wete

n faith De di-

carful

tay or

axin;

14005

toun-

le ap-

ith in

F.00-

a this

rgol-

15 2 -

with-

r, be-

lings

nd to

tha-

adow,

10; 25

trating.

pain-

Phi-

VOTY

otake

ncy in

25 ID

mita-

sof a

light;

bas,

mis

Deing

being known to make a thing feem hollow, as a ditch, cave, ciftern, well, &c. it is coloured with black or brown; and fo much the blacker, fo much the deeper it feems; extream black reprefenting a bottomlefs depth; but to make it rife, as the breafts of a maid, a firetched out hand, &c. there is laid round or on each fide fo much black or brown, as may make the parts feem to flick out by reason of the adjacent hollownes; brightnefs is fometimes used for neceffity, but generally for ornament, (as in the pictures of Angels, Gems, Armour, Flame, Flowers, Gold, and the like) the which is . made always with a mixture of light; which mixtion Painters call Harmoge, but is nothing elfe fave an undifcernible piece of Art, by which the Artizan flealingly paffeth from one colour into another, with an infensible diffinction; this Harmoge is most perfect in the Rainbow, which containing evident variety of Colours, yet leaves them fo indiffinguishable, as that we can neither fee where they begin, nor yet where they end, as Boëthius observes in libri quinti de arte musica capite quarto. The last and chief perfection of colouring lieth in the out-lines, or extremities of the work, being cut off with fuch a wonderful fubtility and fweetnefs, as to prefent unto us things we do not fee, but that we thould believe that behind the pictures, there is fomething more to be feen, than can eafily be difcerned; thereby fetting forth, as it were, those things which are really concealed, this was Barrhafius his chief glory; but herein Apelles exceeded all others whatfoever, as Petronius in Satyrico feems to affirm.

IX. Action and Paffion is next to be confidered, in which confifts life and motion,

There is not any thing that can add a more lively grace to the work, than the extream likeness of motion, proceeding from the inward Action or Passion of

chap

athin arthur atho atho at: T

diar.

igent

der, 1

with

topot

W¢ III

quick

hand

then

per c

Proper

hose (

mann ed b

tie n Ajan

nels .

thir

御小 前日

burg

Cha

boy

Pid

desi

Plin

報

of the mind. It is therefore a great point of Art, which leads unto Perfection, the which we are to learn by cafting our eyes upon nature, and tracing her fteps. Confider all the gestures of the body, as the head, by which is expressed the affections of the mind. The casting down of the head, the weth dejection of mind, being caft back, arrogance; hanging on either fide, languithing, being fiff or flurdy, churlifhnefs: by it we grant; refuse, affirm, threaten; or paffively are bashful, doubtful, fullen, envious, &c. by the motions of the Countenance appears forrow, joy, love, hatred, courtefic, courage, dejection, &c. by the motions of the countenance, are express the qualities of the mind, as modefty and fhamefacedness, or boldness and impudence; but of all the parts of the countenance, the eyes are most powerful, for they, whether we move or move not, fhew forth our joy or forrow; this is excellently exprest by the Prophet, in Lam. 3. 48. palge majim terrad gneni, הרך עיני על שבר בת עמי gnal sheber bat gnammi, which Tremellius renders, Rivis aquarum perfluit oculus meus, propter contritionem filiæ populi mei : and again תרמה תרמה gneni nigger ab velo tidma, i. c. oculus meus defluit nec desistit. For the fame purpole it is that nature hath furnished. them with tears; but their motion doth more cipecially express the intention, as meeknels, pride, lpitefulnefs, and the like; all which are to be imitated, according as the nature of the action shall require, as staring, closed, dull, wanton, glancing, asking or promiting fomething. The eyebrows also have fome actions, for they chiefly command the fore-head by contracting, dilating, raifing and depreffing it; wrinkled brows thew ladnets and anger; difplayed, chearfulnels; hanging, fhame, elation, confent; depreflion, diffent, &c. The Lips fhew mocking, fcorning, loath-

Chap.3. The Perfection of Painting. 259

4

語言の言語書語言言

Cours

rtefr

unte

s mol

itoce;

古銀

mow

lepth

stit C

gnai.

Rist

n filia

ENER

in the

nithed

elpe-

fpite-

:d, 20-

in, a

ing of

eforme

ead by

ng its played, t; de-

rning

loath

loathing, &c. The Armgently caft forth, is graceful in familiar speech; but the arm spread forth towards one fide, fhews one speaking of some notable matter; without the motion of the hands all motion is maimed: The hands as it were call, difmifs, threaten, requelt, abbor, fear, ask, demand, promise, deny, doubt, confes, repent, number, measure, rejoice, encourage, beseech, binder, reprove, admire, relate, commend, & c. In admiration we hold the hand up, bent fomewhat backward, with all the fingers closed : In relating we join the top of the forefinger to the thumb-nail : In promifing we move it foftly: In exhorting or commending, more quick : In penitence and anger, we lay our closed hand to the breaft : We close the fingers ends, and lay, them to our mouth when we confider, &c. It is not yet enough that the Picture or Image refembles the proportion and colour of the life, unlefs it likewife refembles it in the demeanour of the whole body ; therefore Callifratus calls this Art, the art of counterfeiting manners. Ulyffes is evidently, faith Philoftratus, difcerned by his aufterity and vigilancy ; Menelaus by his gentle mildness; Agamemnon by a kind of Divine Majefty; Ajax Telamonius, by his grim look; Locrus by his readynels and forwardnefs. The beft Artifts ever change their hands, in exprelling of Gods, Kings, Priefts, Senators, Orators, Musicians, Lawyers, Oc. Zeuxis painted the modefty of Penelope : Echion made a new married but shamefaced woman : Aristides painted a running Chariot drawn with four horfes : Antiphilus made a boy blowing the fire: Philoxenus Eretrius depicted the Picture of Wantonnels : Parrhafius made the Hoplitides or Pictures of two armed men, as may be feen in Pliny lib. 35. cap. 9, 10, and 11. Boeshins made a babe ftrangling a goole : Praxiteles made a weeping woman, and a rejoicing whore: Eupbranor drew the picture of Paris Flins 1 1

(四)

副御

加,

with day

がは

id t

inte dig

Ren al P.

ml

目:11:目

N II.

「学」の

山

Paris as a Judge, a wooer and a foldier: See Pliny lib. 34. cap. 8. where you may have many other examples. It is worth our pains to fee in Calliferatus these descriptions at large, whereby we may see it is a fingular Perfection of Art.

X. The last step of Perfection is the right ordering and disposing of things.

This order or disposition must be observed as well in a picture confifting of one figure, as in a picture of many figures. The nature of man, faith Xenopb on in Occonomico, cannot name any thing fo uleful and fair, as order ; a confused piece of work cannot deferve admiration; those things only affect us, wherein every part is not only perfect in it felf, but allo well disposed by a natural connexion. It is not enough in a building to bring hair, lime, fand, wood, ftones, and other materials, unlefs we take care that all this confused stuff be orderly disposed to the intent. Nature it felf feems to be upholden by Order, and fo are all things elfe which are fubjugated to the fame Law. Now the way to attain to this true order of disposition, is first to conceive the Idea of the history in the imagination, that the prefence of the things in the mind may fuggeft the order of disposing each thing in its proper place, yet with that fubtilty that the whole may represent one intire body. Secondly, that the frame of the whole structure of this disposition, may be analogous to the things themselves; so that we may at once reprefent things which are already done, thing's which are doing, and things which are yet to be done; perfecting, as Philostratus faith, in every one of these things, what is most proper, as if we were busied about one only thing. Thirdly, an historical Picture must represent the feries of the history, which although the Picture be filent, yet that the connexion might (as it were)

Chap. 4 The Perfection of Painting. 261

0.4.

Pliny

T CX*

thefe

a fin-

in and

is well

icture

no dea

and

de-

-3130

0 well

rough

ones

this

aimie

re all

Law.

fin,

magimind

pro-

may

me of

nalo-

nay at

things

donei

thefe

2008LT

e malt

eh the

25 1

Note)

were) speak, putting the principal figures in the principal places. Fourthly, the parts mult be connected eafily rolling on, gently flowing or following one another, hand in hand, feemingboth to hold and be upheld, free from all abruption, well grounded, finely framed, and ftrongly tyed up together; that the whole may be delightfome for its equality grave for its fimplicity, and graceful for its universal analogical compolure. Fifthly, That most excellent pieces (if the history will suffer it) be shadowed about with rude thickets, and craggy rocks, that by the horridnefs of fuch things, there may accrew a more excellent grace to the principal; (just as difcords in Musick make fometimes concords) from whence refults a fingular delight. Sixthly, That to these things be added perspicuity; which, as Lucian faith, through the mutual connexion of things, will make the whole complete and perfect. Seventhly and laftly, that the difposition of the proportion be observed, in the due distance of each figure, and the polition of their parts, of which we have faid fomething, Section feventh; but in general Pliny (lib. 35 cap. 10.) faith that in this general disposition of proportional distances, we have no rules; our eye must teach us what to do; to which Quintilian affents, where he faith, that these things admit no other Judgment, but the judgment of our eyes.

XI. Lastly, For the absolute Consummation or Perfection of the Art, excellency of Invention, Proportion, Colour, 1 ife and Disposition, must universally concur, and conspire, to bring forth that comly gracefulness, which is the very life and soul of the work, the intire and joint Sum of all perfections.

It is not enough, that a Picture is excellent in one or more of the aforefaid perfections, but the confummation

tion is, that they all concur; for if but one be wanting, the whole work is defective. A good invention affects the mind; true proportion draws the eyes; lively motion moves the foul ; exquifite colours beguile the phantafie; and an orderly disposition, wonderfully charms all the fenfes; if all these unite, and center in one piece, how great an excellence and perfection will appear ? What a comely Grace ? this Grace it is, which in beautiful bodies is the life of beauty, and without which, its greateft accomplishments cannot please the beholder. For it is not fo much the perfection of Invention, Proportion, Colours, Motion and Disposition apart, which affect the fenses, but all those perfections absolutely united, which brings forth that comely Grace, and bigbest Perfection, which Art aims at, and the Artizan ftrives after. This Grace proceeds not from any rules of Art, but from the excellent spirit of the Artificer; it is eatier attained by obfervation and a good judgment, than learn'd by Precepts, as Quintilian in his Institutions lib. 11. cap. 1. learnedly observes. And this Grace is most graceful, when it flows with facility, out of a free Spirit, and is not forced or strained out with labour and toil, which quite spoils and kills the life of the work : Now this facility springs from Learning, Study and exercitation. Art and Nature must concur to the Constitution of this Grace; Art must be applied discreetly to those things which we naturally affect, and not to things which we loath ; left we mils of that Glory which we feek after.

CHAP.

Chap

Ł

dent

inter I.

man

fying 1

Agen

piece By pulle starp

RCR (

mi

list

T

Chap.4. Of depicting Saturn.

0.4

Will-

5. (FG)

0, W.

and partis Gas

branz

TID CE

the pa Motic

but

ugs for

hich A

ace par

e exa

tbyd

by Pr

. cap. 1

grazeja 1., andi

l, whit

YOW th

ercita) fritatio

tothe

to mile

hine

CHAR

CHAP. IV.

IV. Alterrative deteribes him will a Lions

How the Ancients depicted their Gods: and first of Saturn.

W E here intend to comprehend the various ways of the Antients in depicting their Idols, according to the customs of those several Nations, where they were adored and worshipped, and that from the most Ancient, chiefest and best approved Authors now extant.

I. The Ancient Romans figured Saturn like an old man, with a Syth or Hook in his hand, by fome fignifying Time, as his name Chronos alfo intimates.

II They also figured him in the shape of a very Aged man, as one who began with the beginning of the World, holding in his hand a Child, which by piece meals he seems greedily to devour.

By this is signified the revenge he took for being expulsed heaven by his own Children, of which those which escaped his fury, were only four, Jupiter, Juno, Pluto, and Neptune, by which is shadowed forth the four Elements, Fire, Aire, Earth, and Water, which are not perishable by the all cutting Sicle of devouring Time.

III. Martianus Cappella depicts him an old man, holding in his right hand a Serpent, with the end of its tail in its mouth, turning round with a very flow pace, his temples girt with a green wreath, and the hair of his head and beard milk white.

The wreath on his bead shews the Spring time, bis snowy bair and beard, the approach of churlish winter; the slowness of the Serpents motion, the sluggish revolution of that Planet.

IV. Macra-

262

Chia

1.1

den

B

glorin Eaft

brei

the

tie

perp

60 31

righ

Via

min

Here .

poli

anun that i divin Sce)

and

200

Over

IV. Macrobius defcribes him with a Lions head, a Dogs head, and a Wolfs head.

By the Lions bead is fignified the time prefent, (which is always strongest, for that which is must needs be more powerful than that which is not :) by the Dogs head, the time to come, (which always fawns on us, and by whose alluring delights we are drawn on to vain and uncertain hopes :) and by the Wolfs head, time past, (which greedily devoureth what so ever it finds, leaving no memory thereof behind.

V. Macrobius also faith that among the reft of his descriptions, his feet are tyed together with threds of Wool.

By which is shewed, that God does nothing in bast, nor speedily castigates the iniquities of man, but proceeds slowly and unwillingly, to give them time and leisure to amend.

VI. Eusebius faith, that Astarte (the daughter of Calum, wife and fifter of Saturn) did place also upon his head two wings, demonstrating by the one, the excellency and perfection of the mind; by the other, the force of fense and understanding.

The Platonicks understand by Saturn the mind, and its inward contemplation of things calestial, and therefore called the time in which he lived, the golden Age, it being replete with quietness, concord, and true content.

enon hand the had hearing

CHAP.

264

Chap: 5. Of depicting Jupiter. 265

CHAP. V.

How the Antients depicted Jupiter.

上上の

湔

anj.

ofli

edst

第.月

1420

1 51%

ter o

upa

DC CL

10,8

min

perefit

t bin.

TAR

I. O Rpheus describes him with golden locks, having on his temples peeping forth two golden horns, his eyes shining, his breast large and fair, having on his shoulders, wings.

By the golden locks is signified the Firmament, and its glorious army of tralucent Stars: by his two horns, the East and West: by his eyes, the Sun and Moon: by his breast, the spacious ambulation of the air; and by his roings the fury of the winds.

II. Porphyrius and Suida depicture the Image of Jupiter fitting upon a firm and immoveable feat; the upper parts naked and uncloathed, the lower parts covered and invested; in his left hand a Scepter; in his right hand a great Fagle, joined with the figure of Victoria.

This Image was crected in Piræus, aftately and magnificent gate of Athens: by the feat is shewed the permanency of Gods power: the naked parts shew that the compassion of the Divine power is always manifest to those of an understanding Spirit: the lower parts covered, shew that while we wallow in the world, and as it were rock d assisted with the illecebrous blandishments thereof, that the divine knowledge is hid and obscured from us: by the Scepter is signified his rule over all things: by the Eagle and Victoria how all things stand in vassing and subjetion to the all commanding power.

III. Martianus depictures him with a regal crown, adorned with most precious and glittering stones; over his shoulders, a thin vail (made by Pallas own S hands)

Ch

Stati

2 PO

es,

the

dia

the

mil

2.50

sol

1.

11 3

Alp

quic lock

COal

hap

I

and

led

dra

Via

brig

hinds) all white, in which is inferted divers fmall pieces of glafs reprefenting the moft refplendent Stars; in his right hand he holdeth two balls, the one all of gold, the other half gold, half Silver; in the other hand an Ivory Harp with nine ftrings, fitting on a footcloth, wrought with ftrange works, and Peacocks feathers; and near his fide lyeth a tridental gold emboffed mafs.

IV. Plutarch faith that in Crete, he had wholly humane fhape and proportion, but without ears.

By that was signified that Superiours and Judges ought not to be carried away by prejudice nor perswassion, but stand firm, stedfast and upright to all without partiality.

V. Contrariwise the Laced amonians framed his picture with four ears.

By that they fignified that God beareth and understandeth all things; and that Frinces and Judges ought to hear all informations, before they deliver definitive featence or judgment.

VI. Paufanias faith that in the temple of Minerva (among the Argives) the fiatue of Jupiter was made with three eyes; two of them in their right places; the other in the middle of his fore-head.

By which is fignified his three Kingdoms, the one Heaven; the other earth; the last Sea.

VII. With the Eleans (a people of Greece) the Statue of Jove was compacted of Gold and Ivory, empaled with a Coronet of Olive leaves; in his right hand the Image of Victoria; in his left a Scepter, on the top of which was mounted the portraicture of an Eagle, upon a eat of Gold, enchafed with the forms of many unknown birds and fifthes, upheld and fupported by four Images of Victoria.

VIII. In Caria (a place of the leffer Afia) the Statue

Chap. 6. Of depicting Mars.

12.

d.

17

ges

12,

i.

pi-

17-13

301

7.J

ade

TS j

23-

the

tm-

int

.01

1 20

ims fup-

de.

112

Statue of Jupiter was made holding in one of his hands a pole-axe.

267

The reason of this was, as Plutarch saith, from Hercules, who overthrowing Hippolyta the Amazonian Queen, took it from her, and gave it to Omphale his wife a Lydian. The Platonitts understand by Jupiter, the soul of the world; and that divine spirit, through whose Almighty Power, every thing receives its being and preservation.

IX. He is also painted with long curled black hair in a purple robe, trimmed with Gold, and fitting on a golden throne, with bright yellow clouds dispersed about him.

CHAP. VI.

How the Antients depicted Mars.

1. M Acrobius faith that the Pictures of Mars were adorned and beautified with the Sun beams, in as lively a manner as could be devifed; with an Afpect fierce, terrible, and wrathful, hollow red eyes, quick in their motion, face all hairy with long curled locks on his head, depending even to his thoulders, of a coal black colour, ftanding with a fpear in the one hand, and a whip in the other.

II. He is also fometimes depicted on horfe-back and fometimes in a Chariot, drawn with horfes called Fear and Horror: fome fay the Chariot was drawn with two men, which were called Fury and Violence.

III. Statius faith he wore on his head a helmet most, bright and thining, to fiery as it feemed, there isfued S 2 flathes

Ch.

L

of

bez

his.

and

Con

g

201

故

fet?

and

the

Wa

罪的

Cars

Gua

fra

Sta

0.3

¥2

flashes of lightning; a breast plate of Gold, insculp'd, with fierce and ugly Monsters; his shield depainted all over with bloud, enchased with deformed beasts, with a spear and whip in his hands, drawn in a Chariot with two horses, Fury and Violence, driven with two churlish coach-men, Wrath and Destruction.

258

IV. Ifidoras faith that the Picture of Mars was depainted with a naked breaft.

By which is fignified that men ought not to be timorons in war, but valiantly and boldly expose themselves to bazards and dangers.

V. Statius faith that the house of Mars was built in an obscure corner of Thracia, made of rusty, black Iron; the Porters which kept the gates were Horror and Madness; within the house inhabited Fury, Wrath, Impiety, Fear, Treason and Violence, whose governess was Discord, seated in a regal throne, holding in one hand a bright sword, in the other a basin full of humane bloud.

VI. Ariofto, defcribing the Court of Mars, faith, that in every part and corner of the farse were heard moft firange Ecchos, fearful fhrieks, threatnings, and difmal cryes; in the midft of this Palace was the Image of Vertue, looking fad and penfive, full of forrow, difcontent and melancholy, leaning her head on her arm : hard by her was feated in a chair Fury in triumph : not far from her fate Death, with a bloudy flern countenance, offering upon an Altar in mens skulls, humane bloud, confectated with coals of fire, fetch'd from many Cities and Towns, burnt and ruinated by the tyranny of War.

CHAP.

Ch.7. Depicting Phæbus or Sol. 269

CHAP. VII.

11

with

lint 140

sde-

118

0 650

tin

ion;

Med-

iety, Dif-

id a

nane

that

nof

dif.

mage dif-

IIII:

1:000:1

unte-

mane

1 112-

1817-

AP.

How the Antients depicted Phoebus or Sol.

I. Acrobius faith that in Affyria was found the Statue of Apollo, Phabus or Sol, the father of Asculapius, in the form of a young man, and beardlefs, polifhed with Gold, who firetching out his Arms, held in his right hand a Coachmans whip; and in his left a thunderbolt with some cars of Corn.

The Tyrant of Syracule, Dionyfius, with fury pulled off the beard from the figure of Elculapius, Saying it was very incongruous that the father should be beardless, and the fon have one fo exceeding long.

II. Eusebius faith that in Egypt the Image of Sol was fet in a fhip, carried up, and supported by a Crocodile : and that they (before letters were invented) framed the shape of the Sun, by a Scepter, in the top of which was dexteroufly engraven an eye.

The Scepter fignified Government : the eye, the power which over-fees and beholds all things.

III. The Lacedemonians depicted Apollo with four cars, and as many hands.

By which nas fignified the judgment and prudence of God being Swift and ready to bear, but flow to Speak, and from thence grew that proverb among the Grecians.

IV. Herodotus reporteth that the Phanicians had the Statue of the Sun made in black frone, large and spacious at bottom. but tharp and narrow at top, which they boafted to have had from Heaven.

V. Lactantius faith that in Perfia, Phabus or Apollo was their chiefest God, and was thus described ; he had the

53

Polygraphices.

270

the head of a Lyon habited according to the Persian cuttom, wearing on his head fuch ornaments as the women of *Perfia* uled, holding by main force a white Cow by the horns.

Lib.4.

Ch.

isten

inhis

left a

wing

X

inE

liken

heh

and

Eket

To

the fig

the B

fbe !

400

inh

1

1

b

Te

is

The head of the Lion sheweth the Suns dominion in the fign Leo; the Com shews the Moon, whose exaltation is Taurus: and his forceable holding, the Moons Eclipse which she cannot avoid.

VI. Pausanias telleth that in Patra a City of Achaia, a metalline Statue of Apollo was found in the proportion of an Ox or Cow.

VII. Lucianus faith that the Affyrians shaped him with a long beard (shewing his perfection;) upon his breast a shield; in his right hand a spear, in the top of which was Victoria; in his left hand Anthos, or the Sun flower: this body was covered with a vestment. upon which was painted the head of Medusa, from which dangided downwards many swarms of snakes; on the one fide of him Eagles flying, on the other fide a lively Nympb.

VIII. The Egyptians composed the flatue of the Sun in the fhape of a many with his head half fhaven.

By the head half shaven, is signified that though his beauty or shining may be clouded for a time, yet that he will return and beautify the same with his pristin brightness; as the the growing of the hairs (which signify his beams) to their full extent and perfection again may denate.

1X. Martianus thus defcribes him; upon his head (faith he) he wears a royal and gorgeous Crown, inchafed with multitudes of precious Gems; three of which beautifie his fore-head; fix his temples; and three other the hindermost part of the Crown: his hair hanging down in treffes, looks like refined Gold, and his Countenance wholly like flame; his vestment

Ch.7. Of depicting Phæbus or Sol. 271

1¢

ta

加

8 8

in,

NT.

him

his

pof

Sun

noq

lich

the

Sun

bis

t be

ibt-

bis

de-

in to and his old, nent

it

is thin, fubtil, and wrought with fine purple and gold; in his right hand he holds a bright fhield; and in his left a flaming fire-brand: on his feet he hath two wings, befet with firy Carbuncles.

X. Eufebius writeth that in Elephantinopolis (a City in Egypt) the Image of Apollo was framed to the due likeness of a man throughout the body, save only, that he had the head of a Ram, with young and small horns, and his aspect of a Cerulean and blewish green, not unlike to that of the Sea.

The head of the Ram fignifies the Sun's exaltation in the figu Arics; and the young borns the change or New of the Moon, made by her conjunction with the Sun, in which the looks blewith.

XI. He is also drawn with long curled golden hair, crowned with a lawrel in a purple robe a filver bow in his hand, fitting on a throne of Emeralds.

There might you see with greatest skill intexed, The portraicture of Phoebus lively drawn; And his fair Sisters shape thereto annexed, Whose shining parts seem'd shadowed o're with lawn. And though with equal art both were explain'd, And workmens care gave each of them their due, Yet to the view great difference remain'd, In habit, shape, aspect, and in their bue. For one of them must give the day his light: And th' other reign Commandres of the night.

CHAP.

Car

曲

L

win alm

ded

his

and

date

geth end

âs

frea

hand

kar

湖

1

2 ft

100 his

1

前

CHAP. VIII.

272

How the Antients depicted Venus.

I. TER Statue is framed in the fhape of a moft beautiful and young woman, ftanding upright in a huge fhell of fifh, drawn by two other moft ugly and ftrange Fifhes, as Ovid at large noteth.

II Pausanias faith the is drawn in a Coach, through the airy paffages, with two white Doves (as Apuleius also affirmeth) which are called the birds of Venus.

III. Horace and Virgil affirm that the Chariot of Venus is drawn by two white Swans, of which Statius alfo maketh mention, who faith that those birds are most mild, innocent, and harmless, and therefore given unto Venus.

IV. Praxitiles an excellent engraver in the Island of Guidos, made her Image naked, and without clothes, as also did the Grecians.

By which was signified that all luxurious and licentious people, were by their inordinate lusts, like beasts deprived of sense, and left as it were naked and despoyled of reason, and understanding; and oftentimes also stripped thereby of their riches, goods and estates.

V. Laciantius faith that the Lacedamonians framed and composed the Image of Venus all armed like a Warrior, holding in one hand a spear, in the other a shield or target.

And this was by reason of a certain Victory which the women of that place got over their enemies, the people of Meffenia, which success they supposed to have proceeded from the power and assistance of Venus, as inspiring these womens hearts with courage, stoutness and resolution.

y.I Shq

Chap.9. Of depicting Mercury. 273

.4.

moft

ugly

rough

eleint

EVe-

1212-

15 2TC

uven

ndof

thes,

tizz

prized

esfin,

hereby

amed

ike a

ther a

ibbe

ople of ceeded

ing

fals-

Shq

VI. She is also depicted with yellow hair attired with black; a scarlet, or else dun-coloured robe.

CHAP. IX.

How the Antients depicted Mercury.

I. THE Antients defcribed him in the fhape of a young man without a beard, with two small wings fixed behind his shoulders and ears, his body almost all naked, fave that from his shoulders depended a thin vail, which winded and compassed about all his body; in his right hand he held a golden purse, and in his left a *Caduceus*, or fnaky staff. to wit, a stender white wand, about which two Serpents do annodate and entwine themselves, whose heads meet together just at the top, as their tails do at the lower end.

This refemblance was called Concordia or Signum Pacis; upon which it came to pass, that Embassadors, and great men in matters of State, carried always in their band fuch a like staff, and were called Caduceators.

II. Apuleius writeth that Mercury was a very youth, having very fhort hair on his head of an Amber colour, and curled, having for a vefiment only a fubtil and thin vail made of purple Silk.

III. Martianus Capella describes him young. yet of a strong and well composed body, with certain young hairs of a yellowish colour sprouting out of his chin.

IV. Pausanias saith that in a Province of Corinth, he was depicted like a young man carrying a ram upon his shoulders: and that a Statue (brought from Arcadia

Ch.

in,

de,

WW VI

in i

whit

mith

ftr.

H

L

TT:

Coac

lour

T

I

第01

ER

the last

did

I

0.1

100

thin

41%

cadia unto Rome) erected in the temple of Jupiter Olympicus, had on its head a helmet of engraven steel; and over his shoulder, a coat, who held under his arm the Image of a ram.

V. Among some of the Egyptians his Image was framed with a head like a dog's, holding in his right hand a Caduceus or fnaky wand; shaking with his left a green bough of a Palm.

By the head of the dog was understood subtilty and craftiness (no beast being so subtil as a dog;) by the snaky wand the power of wisdom and Elequence in producing of peace, signified by the green palm.

VI. By fome he was depicted in the fimilitude of a very aged man, his head almost bald, faving that on the fides there remained fome few hairs, fhort and curled; his look grim, fevere and fowr; his complexion of a tawny, antient hue; his upper garment, of a Lions skin; in his right hand a huge pole-ax, in his left hand an Iron bow; at his back hanging a Quiver of steel-headed arrows: to the end of his tongue were fastned many small chains of Gold, at whose ends were tyed multitudes of all forts of men, which he feemed to draw unto him; looking always backward, to behold the innumerable troops of people following him.

By this description is signified the all-powerful and attractive vertue of Eloquence; which by his age is understood to be found only in old, wife and experienced men, as being in them more mature and perfect, than in those of younger years, of which Homer speaks at large in his Commendation and Praise of Nettor: from whose mouth (saith be) plentifully rolled forth most pleasant and dulcid streams; whose pen distilled crystalline drops of delicious sweetnes; whose works and fruits so compleatly adorned with golden sentences, as a finageth the malice of time,

Ch.10. Depicting Diana or Luna. 275

0.4.

ter ().

hal;

Sam

家福

正書

y med

fpeace,

that on

ort and

COL

ment

ax, ir

ging a of his

iold, at

of men.

always

af peo

sad at

Reder

ed men

thefer

in bi

t mint

nd dal

of deli-

alenty

sitt of

tim,

time, and mitigateth and allayeth the spight of forgetfulness, that his perpetuity is engraven in the brass-leaved books of eternal memory, never to be blotted out.

VII. He is also drawn with long curled yellow hair in a coat of flame colour, with a mantle purely white, trimed with gold and filver; his beaver white with white feathers, his shooes golden, his rod filyer.

CHAP. X.

How the Antients depicted Diana or Luna.

I. D'ana, Cynthia, Lucina or Luna was according to Propertius depicted, in the likenefs of a young beautiful virgin; having on either fide of her forehead two finall gliftering horns, newly putting forth, drawn through the air in a purple coloured Coach, by two fwift paced horfes, the one of a fad Colour, the other of a white.

These two differing borses Boccace Saith, shew that she bath power both in the day and night.

II. Claudianus faith that her Chariot is drawn by two white Bullocks, (which Image the Egiptians worfhiped with great zeal and reverence) having one of their flanks bespotted with divers stars, and on their heads two such sharp horns, as the Moon hath in her chiefest wain.

III. Cicero describes her statue (which he brought out of a temple in Cicilia) of a wonderful height, and large dimension, the whole body covered with a thin vail, of a youthful aspect, holding in her right hand a lively burning torch, and in her left an Ivory bow, with a Quiver of Silver headed arrows hanging at her back. IV. The

th1

TL.

n, con baild

ibarn mole

VI

d Ifu ible light tarth

By of Nil

lake.

gitte

IOW.

IX

Virg

am

ano

K

Tit

IV. The Poets (who call her the goddefs of hunting and imperial governefs of Woods and Groves) defcribe her in the habit of a young Nympb, with her bow ready bent in her hand, and a Quiver of arrows hanging by her left fide; a fwift paced Greyhound fast tyed to her right fide, with a collar about his neck; and after her following troops of Sylvan Virgins, which are chast, and are called the Nymphs of Diana.

V. These Virgins and Votresses of the Goddels, we thus describe.

Scarce mounted Sol upon his glorious Car, When o're the lofty bills, and lowly plain, Running apace, you might perceive afar A Troop of Amazons to post amain.

But when they nearer came unto your view, You might difern Diana and her Crew. A careless crew of lively Nymphs, despising The joyous pleasures and delights of love; Wasting their days in rural sports devising: Which know no other, nor will other prove.

Wing'd with defire to overtake the chafe, Away they flung with unrefifted pace. Ibeir necks and purple veined arms are bare, And from their Ivory shoulders to their knee, A Silken vestment o're their skin they wear, Through which a piercing eye might chance to see.

Close to their bodies is the same engirted, Bedeck'd with pleasing flowrs their inserted. Each in her band a Silver bow doth bold, With well stor'd quivers hanging at their backs: Whose arrows being spent they may be bold To borrow freely of each others packs.

Thus are these nimble skipping Nymphs displai'd, That do attend that Goddess, Queen and Maid. VI. In

Ch. 11. Of Depicting Janus.

1.4.

unt-

de-

wood

ang-

htyed

i and

With

els, we

ilit,

VL IA

VI. In Arcadia faith Paufanias was a flatue of Diana, covered over with the skin of a Hind, and from her fhoulders hung a Quiver of Arrows; in the one hand a burning Lamp, the other leaning upon the heads of two ferpents, and before her feet a hound.

VII. The Egyptians worfhiped her under the name of Ifis; and depictured her covered with a black and fable veftment, in token that fhe her felf giveth no light; holding in one hand a Cymbal, in the other an earth n veffel of water, upon which as Servius faith, many thought her to be the Genius of Egypt.

By the Cymbal is shewed the murmurings and roarings of Nilus, when it overflows Egypt; and by the other vefsel the nature of the Country, which is moist and full of lakes, pools and rivers.

VIII. She is also depicted with yellow hair a grass green mantle, trimmed with Silver; buskins Silver; bow Golden, quiver of various colours.

IX. Nympbe Diane in white linen to denote their Virginity, and their garments girt about them, their armes and fhoulders naked, bows in their hands, and arrows by their fides.

CHAP. XI.

How the Antients depicted Janus.

I. J Anus is depicted with two faces; in the one of his hands is a long rod or wand; in the other a Key.

The two faces of Janus signific time; the one being withered and hoary, shews time past; the other youthful and beardless, time to come.

II. Pliny

277

chap.

stofa

which (

batt b

heauty.

III.

Iming

botted obtaine faily a

IV.

lezo M.

fis bear

milion

WOIK

ocaut

the ter

the ful

V.

mantic

S

el,in

Tas d

lones

hefi

mith]

II.

II. Pliny faith that Numa King of the Romans, caufed the statue of Janus to be hewed out in such fort, that the singers of his hands appeared to be three hundred sixty five, to shew that he was God of the year, whereupon they called the first month of the year Januarius, from Janus their God.

Under the feet of Janus is oftentimes placed twelve Altars, shewing thereby the months of the year, or figns of the Zodiack, through which Sol makes his revolution.

III, The Phanicians, as Cicero and Macrobius report, framed his Image in the form of a ferpent, holding her tail in her mouth, and continually turning round.

IV. Some depicted Janus with four faces, (as were those statues which were found in divers places of Tufcany.

By the four faces was signified the four seasons of the year, Spring, Summer, Autumn and Winter: which some think to be Venus, Ceres, Bacchus and Vulcan; and sometimes the winds with Eolus their Commander.

CHAP. XII.

How the Antients depicted Aurora.

1. HOmer describes her like a young Virgin, having her hair disheveled, and hanging loose about her shoulders being of the colour of the purefigold, fitting in a golden chair, with all her vestments of that hue and colour.

II. Virgil laith, that upon the inftant time of the fable nights departure, she cometh with one of her hands full of Roses, Gillislowers and Lillies, taken out

Chap. 13. Of depictng Juno.

0.4

Call+

fort.

thum.

en For

int

or for

TUNE

report,

ng her

as were

of The

of the

which

ulcan; mader.

having about

figold, of that

fthefa-

of her

taken

001

d.

out of a basket which the carries in the other hand, which the befprinkles on the marble pavement of the lower Heavens, adorning the Sun with unfpeakable beauty.

279

III. Others describe her, holding in one hand a flaming torch, and drawn in a gorgeous and star bespotted Chariot, by winged Pegasus; which favour she obtained of Jupiter by many importunate requests, prefently after the downfal of Bellerophon.

IV. She is as it were the Herald and Meffenger of Phabus, who receives her being from the vertue of his beams; and is no other but that rubicund and Vermilion blufh in Heaven, which Sol's first appearance worketh in the Orient, and from thence defcending beautifies our Hemisphere with such a resplendency. See the tenth Section of the one and twentieth Chapter of the first Book.

V. She is also depicted in a purple robe, in a blew mantle fring'd with filver.

CHAP. XIII.

How the Antients depicted Juno.

I. SHE was fet forth by the Ancients like a middle aged woman, holding in one hand a filver veffel, in the other a fharp Spear: and Homer faith the was drawn in a Chariot gliftering with precious ftones; whofe wheels were Ebony, and their nales fine filver. mounted upon a filver feat; and drawn with horfes, which were faitned with chains of gold. II. She is oftentimes depicted with a Scepter in her hand,

Ch.

holdi

joke

Bj

tyetb fulne

brow

ofth

taint

ofm

ador

with

inth

1,

ally

paffe

1 10

VIOU

forts

IS CI

Caft

wit

2 B:

whe

新

* hand, to fhew that fhe hath the beftowing of Governments, Authorities and Kingdoms.

280

III. Martianus depicts her (fitting in a chair under Jupiter) with a thin veil over her head, with a Coronet upon it, inchased and adorned with many prec ous Jewels; her inward vestment fine and glitterings over which depended a mantle of a fad and darkish colour, yet with a secret shining beauty; her shooes of an obscure and sable colour; in her right hand a thunderbolt; and in her other a loud noised Cymbal.

IV. Paufanias faith that in a temple in Corintb, her ftatue (made of Gold and Ivory) was adorned with a glorious Crown, on which was infculped the pictures of the Graces; with a Pomegranate in the one hand, with a Scepter (on the top of which a Cuckow) in the other: for that Jupiter, when he was first enamoured of Juno, transformed himself into that bird.

Touching this story (and others of like kind) Paufanias faith, that although he did not believe such things to be true, nor any others, which are so written of the Gods; yet faith he, they are not altogether to be rejected, in that there were no such things reported but that they were impleated and filled with mysteries, and carried in themselves an inward meaning, and secret understanding, the which no donbt some might by their writings have unshadowed, if the tyranny of fore passed times had not destroyed and obliterated the same.

V. Tertullian writeth that in Argos a City in Greece, the ftatue of Juno was covered all over with the boughs of a Vine, and underneath her feet lay the skin of a Lion, which difcovered the hatred and difdain she bare towards Baechus and Hercules, to whom (as the Poets fay) she was step-mother.

VI. Some have painted her a middle aged woman, holding

Ch. 14. Depicting Ops or Tellus. 281

4.

·III)

-00

tha

で、同語

and a

Cype

6, ha I with

Aura hand

v)i

mos

Pasthing

e Gide

胡椒

112 18

then

ng,#

100/00

eftroja

Great

bough

in of

tain B

35 1

woman holding holding in one hand a poppey flower or head; with a yoke or pair of fetters lying at her feet.

By the yoke was meant the band of marriage, which tyeth man and wife together; and by the Poppey, fruitfulness or the innumerable issue of children, which are brought forth into the world (signified by the roundness of the Poppey head, and its numberless seeds therein contained.) From hence many suppose her to be the goddess of marriage.

VII. She is also painted with black hair and Eyes, adorned with a sky-coloured mantle; or pied; wrought with Gold and peacocks eyes; like the orient circles in the peacocks traines.

CHAP. XIV.

How the Antients depicted Ops or Pellus.

I. M Artianus faith, that Ops (the wife of Saturn) is an old woman, of great bignefs, continually bringing forth children, with whom the is encompaffed and let round, going in a green vestment, with a veil over her body, spotted with divers colours, wrought with infinite curious knots, and set with all forts of Gems and Metals.

II. Varro (out of Boccace) thus defcribes her: the is crowned (faith he) with a Crown infculpt with Caftles and Towers; her appartel green, overfhaded with boughs; in the one hand a Scepter, in the other a Ball or Globe; and near to her a Chariot of four wheeles, drawn by four Lions.

By the Crown is fignified the habitations of the earth; by the greeness and boughs, the increase thereof; T by

Ch

18,1

port

Hon

ting.

ft

han

bles

fad

Se

140

ft

hole

2 W)

on.

abou

bro

200

fal

the

Ch

by

dau

儲

1

by the Scepter, the Kingdoms and Governments of the world; by the ball, the roundness thereof; by the Chariot, the continual motion, change and alteration of things; by the Lions, the wisdom and strength of mankind, by which things are carried on and managed.

282

III. Ifidorus faith that this Goddels was painted holding a key in one of her hands : which thews that in the winter the bowels of the earth are locked up by reafon of cold; which at the approach of Spring and Summer is unlocked again.

IV. She was fometimes depicted in the form of an ancient woman, having her head circumcinct with ears of corn, holding in her hand a poppey head : drawn in a Chariot (as Orpheus faith) with two fierce, and untamed Dragons.

V. The earth is alfo called Ceres, which many have depicted with torches, lights and fire-brands in her hands; as Praxiteles in a temple, feated upon a promontory of Attica.

VI. She is also pictured in a long green mantle.

CHAP. XV.

How the Antients depicted Neptune and the Sea Gods.

I. Eptune among the Antients is depainted with leveral countenances, fometimes with mild and pleafant looks, fometimes with lowring and fad, and at other times with a mad, furious, and angry afpect; naked, holding in his hand a filver trident or forked mace, ftanding upright in the concavity of a great Seafhell, forcibly drawn by two monftrous horfes,

Chap. 15. Of depicting Neptune. 283

fes, which from the middle downwards have the proportion and shape of fishes, as Statins faith.

はりりい

ted

120

pby

tan

rith

ad:

ICC,

are

her

·010

with

mild

I fad,

igny

nt of

of 2

hor-

13

÷

That variety of Aspetis (according to Virgil and Homer) is given him from the Sea, in that it at fundry times sheweth it self so : and the trident, the three Gulfs of the Mediterranean Sea.

II. Sometimes he is depainted with a thin veil hanging over one of his shoulders, of a Cerulean or blewish colour.

III. Lucianus fetteth him down with marvellous long hair hanging down over his fhoulders, of a very fad and darkifh colour.

Tet Servius and others affirm that all the Gods of the Sea were for the most part in the shape of old men with white and hoary hairs, proceeding from the froth or spume of the Sea.

IV. Plato defcribes him in a fumptuous Chariot, holding in one hand the reins of a bridle : in the other a whip, drawn by Sea-horfes galloping.

V. Martianus describes him of a greenish complexion, wearing a white Crown : fignifying thereby the spume and froth of the Sea.

VI. Glaucus (another Sea God) faith Philoftratus, hath a long white beard and hair, foft and dropping about his fhoulders, his eyes green and gliftering; his brows full of wrinkles, and green fpots; his breaft all over-grown with greenifh Sea weed or mofs, his belly and from thence downwards fifh like, full of fins and fcales.

VII. Galatea (a Sea Goddefs) is defcribed (by the faid Philoftratus) to be drawn in a ftrange framed Chariot, by two mighty Dolphins, which were guided by two filver reins held in the hands of old Triton's daughters; over her head, a Canopy made of Purple filk and filver, with her hair hanging carelefly over her

shoulders.

Ch

her

20 6

ancié

1

DUS

cafti

搅洗

INC

day

arit.

ft

ATTS

No

les

Fra

01a

S. Link

11

With

or I

feat

I

tem

the

NUW

shoulders. See ber deferibed as a Nymph Chap 31. Seel 7.

VIII. Oceanus (the father of all the Sea Gods) faith Thales Milefius, is depainted, drawn on a glorious Chariot, accompanied and attended with a mighty company of Nymphs; with the face of an old man, and a long white beard.

IX. *Holus* is depainted with fwoln blub cheeks, like one that with main force ftrives to blow a blaft; two fmall wings upon his fhoulders, and a fiery high countenance.

He is called the God and Ruler of the winds, whose descriptions are in the three and twenticth Chapter of the first Book.

X. Thetis (another Sea Goddefs) is depicted by the fixth Section of the one and twentieth Chapter of the first Book.

XI. Neptune is also depicted with long hoary hair, in a blew or Sea-green mantle trummed with Silver, riding in a blew Chariot, or on a Dolphin, of a brown black colour, with a Silver trident in his hand.

CHAP. XVI.

How the Antients depicted Nemefis.

I. CHE was by Macrobius defcribed with wings on

The her foulders; hard by her fide the rudder of a fhip, fhe her felf flanding upright upon a round wheel; holding in her right hand a Golden ball, in the other a whip

II. She is often depicted, holding the bridle of an horfe in one hand, and in the other a staff.

III. (bysipfus (as Aulus Gellius saith) described her

Ch. 17. Of Depicting Pan.

2.

eks,

aft;

high

the the

dby

Tol

air,

ver,

2500

rofa

heel;

other

01 20

roed

12

her like a young Virgin, beautiful and modest, with an eye prying round about her, for which cause the ancients called her the all-difcerning Lady.

This Nemefis, as Paulanias and Amianus Marcellinus fay, was beld to be the Goddels of Punishments, who castigates the offences of Malefactors, with pains and torments according to their sins and demerits; and rewarding the vertuous with honour and dignities: she was the daughter of Justitia (who dwells and inhabits very secretly, within the house of Eternity, recording the offences of the wicked) and a most severe and cruel punisher of arrogancy and vain glory. Macrobius faith, that this Nemetis was adored among the Egyptians (by them called also Rhammusia) as the revenger and chief enemy of Pride, Infolency, and Haughtines; and that she had erect and dedicated unto her, a most stately and magnifique statue of Marble.

CHAP. XVII.

How the Antients depicted Pan.

I. P An (the God of Flocks and Sheep) is from the middle uppwards in proportion like a man, with his face ruddy and fanguine, being very hairy; his skin and breaft covered with the skin of a fpotted Doe or Leopard; in the one hand a shepherds hook, in the other a whiss is from the middle downwards the perfect shape of a goat, in thighs, legs and feet.

II. Justine faith, that Pan's Statue was made in a temple in Rome, near the hill Palatine, appearing to the view all naked, faving that it was flightly enfhadowed and covered with a Goars skin.

T 3

Thereby

285

Thereby is fignified that (as it was reputed in those days) Pan kept his habitation among Hills, Woods and Groves, who was indeed most of any adored and worschiped by Shepherds, as he that had the peculiar care and Government of their flocks.

III. Goat-eard Pan, bis small tipt new grown borns Advance themselves, about whose either fide A flowry Garland twines. and there adorns His curled Temples with a wondrous Pride. His face is of a bigb and reddish blush, From which bangs down a stiff rough beard or bush. And for his bodies vesture he doth wear The finest skin of the most spotted Doe, That ever any in those woods did bear, Which from his shoulder loose bangs to his toe. And when he walks, he carries in his band A Shepherds book, made of a knotless wand.

Servius faith, by the horns is fignified either the Beams of the Sun, or New of the Moon, at what time the is horned: his red face fignifies the element of fire: his long beard, the Air: his fpotted garment, the flarry firmament: his Shepherds hook, the rule and Government of nature.

IV. After the form of Pan were the Fauns, Sylvans, Satyres and Fairies let forth, having little thort horns growing on their heads, with small cars, and thore tails

7 befe are held among some people in very great regard and observance, being of a wonderful speed in running. Plutarch writeth, that there was one of these brought and presented for a rare gift unto Sylla, as be returned from the wars against Mithridates.

V. Plato understandeth by Pan, Reafon and Know-

ledge

Chap

ledge;

ofabe

TUTTE

man u

is fig

thole, lighte

L

OD¢ 0

wife I Spirit

Cert

Char

VOLT I

H

and

To

湖西

I

OVER

15 de

1021

104

Chap. 18. Of depicting Pluto.

ledge; which is twofold; the one of a man the other of a beaft: by the upper part of *Pan*, he fignifies truth, accompanied with *Reafon*, which being Divine, lifteth man up towards *Heaven*: by the lower parts of him is fignified the fallenefs, beaftlinefs and rudnefs of those, which living here in the World, are only delighted with the pleafures and foolis vanities thereof.

287

CHAP. XVIII.

How the Antients depicted Pluto.

I. Martianus faith that Pluto fitteth (in the lower region) majeftically in a chair, holding in one of his hands a black imperial Scepter, and on his head a ftately Crown; at whofe left hand fitteth his wife Proferpina, attended with many Furies, and evil Spirits, and at whofe feet lyeth chained the Dog Cerberus.

the

int

ire;

the

nd

ans, ords

hort

gad

調問

OW.

S.

II. The ancients also have painted him drawn in a Chariot, drawn with four furious black horses, from out whose fiery nostrils proceedeth thick and ill-favoured smoak, as *Claudianus* saith.

III. Some fay that his head is encircled with a garland of Cypress leaves; others with Narciffus leaves.

The first shero sadness and horror, used in burials, and about the dead: the other are more grateful, and are used in memory of the untimely death of that youth.

IV. Charon (Pluto's Ferriman, which carries fouls over the three rivers of Hell, Acheron, Cocytus and Styx) is defcribed old, yet exceeding firong, with a black mantle hanging loofely over his fhoulders, as Boccace and Servius fay.

By

Char

歌

1.1

hern

11

thape nance blew

pons

gala Horri feemin

I

MIT: I

Was

two

the t

V.

and d for th

ofip

broi

Wife

By Charon is understood time; and whereas he is supposed to have the transportation of souls from the one fide of those rivers to the other; thereby is signified, that time, so soon as we are born and brought forth into the world, doth carry us along by little and little unto our deaths; and so setter us over those rivers, whose names by interpretation fignifie forrowfulness, for that we pass this life with miscry and adversity.

V. He is also depicted with long, curled black hair; in a robe of cloth of Gold.

CHAP. XIX.

How the Antients depicted the Parca, or Sisters.

I. THE Sifters which are called Parce, are faid to attend upon Pluto, which are three, and are called Clotho, Lachefis and Arropos.

II. Clotho takes the charge of the Births and nativities of mortals: Lachefis of all the reft of their life; and Atropos of their death, or departure out of this world.

III. They are all three depicted fitting on a row, very bufily employed in their feveral offices; the youngeft Sifter drawing out of a Diftaff a reafonable big thread : the fecond winding it about a wheel, and turning the fame, till it becomes little and flender : the eldeft (which is aged and decrepit) flood ready with her knife, when it flould be fpun to cut it off.

IV. And they are described to be invested with white veils, and little Coronets on their heads, wreathed about with garlands, made of the flowers of Nar ciffus. GHAP. Chap.20. Of depicting Minerva. 289

CHAP. XX.

and and

ud fo

o mi-

hair;

ers.

are

nrec,

nati-

life;

this

OW,

the

ashle

and

: the

with

with TICA-

Na

AP.

How the Antients depicted Minerva, or Pallas.

TInerva (as taken for Bellona) Licophrones faith, was depicted with a flaming tire-brand in her hand by the Antients.

II. Most writers have described Minerva in the thape of a young woman, of a lively and fresh countenance, yet of an angry look, fix'd ftedfaft eye of a blewish green colour, compleatly armed at all weapons, with a long Spear in the one hand, and in the other a Crystal shield, or target : upon her helmet a garland of Olive branches, and two children, Fear and Horror, by her fide with naked knives in their hands, feeming to threaten one another.

III. Pausanias faith that in Greece, the statue of Minerva was made with an helmet, on the top of which was the shape of a Sphynx; and on the fides thereof. two carved Griffins.

IV. Phidias making her ftatue in Greece, placed on the top of her Helmet the form of a Cock.

v. She was also painted in Greece, fitting on a ftool, and drawing forth little small threads from a distaff; for that the Ancients supposed her to be the inventres of fpinning and the like.

VI. Laftly the is depicted with a blew mantle embroider'd with Silver : and is called the Goddels of Wildom.

astrivement protony is to a model

Langer and a contract in a lite strength

Polygraphices.

Lib.4.

chap

101 21

ide a Thi

neiter venter

Mole

frm ;

chus,

IL

made

thole

incy

conc

I

Gra

a non

afped

B

wine by th

mate

IV

tints

youth Eken by

tine. V.

(am Part

I

朝前

V

CHAP. XXI.

How the Antients depicted Vulcan.

I. V Ulcan is depicted, standing, working and hammering in a Smiths forge, on the hill Ætna, framing Thunderbolts for Inpiter, and fashioning Arrows for the God of love. The opinions which the Ancients had of Vulcan were various, in which respect he is schaped sometimes in one form, sometimes in another.

II. Some make him lame of one leg, of a very black and fwarthy complexion, as it were all fmoaky; of a general ill fhaped proportion in all his Lineaments; and because that he is the husband of *Venus*, often depicture her with him.

III. Alexander Neapolitanus relateth that in one place of Egypt, was crected the statue of Vulcan, which held in one of its hands, the true and lively proportion of a mole; and in his other hand a Thunderbolt.

The mole was so placed, because they thought be sent unspeakable numbers of moles among them, as a plague to them, which did eat, gnaw, and destroy every thing which was good.

IV. He is also painted lame in a scarlet robe.

CHAP. XXII.

How the Antients depicted Bacchus.

I. P Hilostratus saith that his statue was framed in the likeness of a young man without a beard, of a corpulent and gross body, his face of an high colour

Chap. 22. Of depicting Bacchus. 291

0.4.

ing.

Etter

ng k.

12 As

abei

blad

13 Of

ments:

en de

n on

which

ortici

nght h

1, 45 1

i enen

med is

beard

gh co-

low

lour and big; about his head a garland of Ivy leaves; upon his temples two finall horns; and close by his fide a certain beaft, called a Leopard or Panther.

This description is drawn from the nature of wine, (of which as the Poets feign, Bacchus is the God) whose inventer and finder out was certainly Noah, which not only Moses, but also Josephus and Lactantius specially affirm; wherefore some suppose him to be this God Bacchus.

II. Claudianus faith, that his Image or Statue is made all naked; thereby flewing the nakedness of those which abuse themselves with wine, by which they reveal and open those things which ought to be concealed and kept hid.

III. Diodorus Siculus faith, that Bacebus among the Grecians was depicted in two leveral forms, the one of a very aged man, with a long beard, fliff and thick; the other of youthful years, of a pleafant and amorous afpect.

By the first is shewed the effects of the intemperate use of wine, which overcomes nature and brings with it old age : by the other, how it cherishes and revives the heart, used moderately.

IV. Macrobius faith, that Bacchus was framed fometimes in the likenefs of a young child, fometimes of a youth, fometimes of a man; and fometimes in the likenefs of decrepit old age.

By these was signified the four seasons of the year, the vine being dedicated to Sol, in whom they all exist.

V. This Picture was made in the likeness of a Bull (among the Cirenians, a people inhabiting the farther part of Persia.)

The reason hereof was because Proserpina (the daughter of Jove) brought him forth in that form.

VI. Philostratus faith, that Bacchus was oftentimes drawn

chap.

ad ug

Au

rtant

mity (

ant W

ther 1

IL

man ;

or Ric

Set

Wes

IIL

Ways

fik;

GITY

the tre

which

inher

fich a

Ob Th. Pla De

CHAP.

drawn clothed in womens garments, and in a long purple robe; wearing upon his head a Coronet of Rofes, with companions and followers, all in like loofe and wanton garments, fashioning themselves some like rural Nymphs, as the Dryades, Oreades, &c. some like Sea Nymphs, as Nereides, Syrens, &c. some like Satyres, Fauns, and Sylvans, &c.

The womens garments shews that wine makes a man faint, feeble, and unconstant like to a woman.

VI. Paufanias faith, that among the Eleans, the picture of Baccbus was made with a long beard, and clothed with a long gown hanging to the feet; in one hand a fharp hook, and in the other a boul of wine, and round about him many Vine-trees and other fruitful plants.

VII. The Statue of Bacchus alfo, was fometimes fet forth and adorned with Coronets made of fig-tree leaves, in memory of a Nympb (as fome fay) called Syca, which was by the Gods metamorphofed into that plant.

In like manner, the Nymph Staphilis (on whom Bacchus was in like manner enamoured) was transformed into the Vine, from whence it is that those plants are so exceeding grateful and pleasant unto this God.

VIII. He is painted also with thort brown curled hair, with a Leopards skin, or in a green mantle, a tauny face, with a wreath of Vine branches. Chap. 23. Of depicting Fortune.

1.4

put-

oles

e and

ie Sea

d nat

the pr-

, and

n one

ic,and

mitul

ues la

g-tree

called

inte

m Bac-

in mid

la er-

curled

ntk, 4

HAR,

CHAP. XXIII.

How the Antients depicted Fortune.

I. Fortune was depicted by fome with two faces one white and well-favoured; the other black, and ugly.

And this was because it was held, that there were two Fortunes, the one good, from whom came riches, happiness, quiet, content and pleasure: the other had, form whom came wars, afflictions, croffes, disasters, calamities, and all other miseries whatsoever.

II. The *Thebeans* made her in the shape of a woman; in one of her hands a young child, to wit, *Pluto* or Riches.

So that in the hands of Fortune, they put the disposing of Wealth, Honour, Glory and all Happiness.

III. Martianus defcribes her a young woman, always moving; covered with a garment of the thinneft filk; her fteps uncertain, never refting long in a place; carrying in her fpacious lap the univerfal fulnefs of the treafures, riches, honour and glory of this world; which in hafty manner (with her hand) fhe offers; which offer, if not inftantly received, was utterly loft; in her right hand a white wand, with which fhe fmites fuch as offend her, flight her kindnefs, or are not nimble enough to receive them.

Ob cruel Fortune, stepdame to all joys, That difinherits us from sweet content, Plunging our hopes in troubled Sea's annoyes; Depriving us of that which nature lent!

When

293

Polygraphices.

Chap

intoi intoi

Ria

nd the

wy.

n In

er f

鄂

Con

ling

time

VI

othe

H

tath.

ny a

IX.

a the

a her

apid

By

mit

Ris d

flath

ative !

Re al

X

Lib.4.

When will thy proud infulting humour ceafe, T' allwage the forrows of an only one ? That free from care , its foul may live in peace, And not be metamorphos'd into stone. But why entreat I thy unstable beart, Knowing thy greatest pleasure, thy delight Confilts in aggravating mortals smart Poyfon'd with woes, by venom of thy fpight ? "Tis what thou wilt, must fand, the rest must fall, All humane Kings pay tribute to thy might : And this must rife, when pleaseth thee to call, The other perifh in a woeful plight. And this is it, that chokes true vertues breath, Making it dye, though the immortal be : Fruitless it makes it; subject unto death, To fatal darkness, where no eye can see. Ob come you wounded Souls, conjoin with me; In some adumbrate thicket let us dwell, Some place which yet the Heavens ne'r did see, There let us build some despicable Cell.

Strength, Beauty, perifh: Honours fly away: And with Estates, Friends vanish and decay.

IV. In a temple in Greece, Fortune was made in the form of a grave Matron, clothed in a garment agreeable to fuch years, whole countenance feemed very fad; before her was placed the Image of a young Virgin of a beauteous and pleafant afpect, holding out her hand to another; behind thefe, the Image of a young child, leaning with one of its arms upon the Matron.

The Matron is that Fortune, which is already past; the young Virgin, that which now is: and the young child beyond them both, is that which is to come.

V. Quintus Curtius saith, that among the people of Scythia,

294

Chap.23. Of depicting Fortune. 295

0.4.

in the

agree-

ry fad;

rgin of

r hand

young

or Ma-

it; the

15 child

ple ct

Scythia,

Scythia, Fortune was depicted in the form of a woman without feet, having round about her at her right hand a number of little wings.

Being without feet, shews that she never stands firm; and the many wings shew, that her gifts and favours are no sooner given, but are presently lost, and do as it were fly away again, before they be fully possessed.

VI. Alexander Neapolitanus relateth that in Greece, her Image was made wholly of Glafs; to shew that her favours are brittle, and subject to sudden decays.

VII. Cebes the Philosopher resembled Fortune unto a Comedy, in which many Actors appear often as Kings and great Monarchs; and presently after become poor fishermen, flaves, bond-men, and the like.

VIII. Socrates compared her to a Theatre, or common meeting place, where without all order or obfervance men take their places and feats, without respect to the dignity of any.

Hereby is shewed that she (without respect of birth, worth, merit or state,) blindly, unadvisedly, and without any order or reason, bestows felicities, riches and favours.

IX. In Egira, a City of Achaia, Fortune was drawn in the fhape of a beautiful woman, who held in one of her hands a Cornucopia; in the other, the boy Cupid.

By which is fignified (as Paulanias faith) that beauty without riches avails nothing : and indeed I may fay be is doubly fortunate, who in his love enjoys the fruition of both beauty and riches : but he is happy in the fuperlative degree, who with the other two meets with vertue and love alfo.

X. Giraldus faith, that Fortune was with some depicted

picted riding on a horfe galloping; with which fwiftnefs the feems to pais invifile; atter whom followeth Deftiny with great wrath and fury, holding in her hand an Iron bow, and aiming to firike Fortune at the heart.

By ber swift galloping, is signified her mutability. See Sect.4. Chap.28. where she is taken as one of the powers.

CHAP. XXIV.

How Vertue, Truth, Peace, Honour, Fame and Opinion were depicted.

1. V Ertue in Greece was made in the form of a Pilgrim, like a grave and auftere woman; fitting alone upon a four fquared frone, melancholy, and leaning her head upon her knees.

Being a Pilgrim, shews she bath no resting place, secure abode, or certain babitation upon the earth: the form of her sitting, shews her life to be full of troubles, dangers, cross, and miseries. See the 1. Sect. of Chap. 19. of the 1. Book.

Hæc angufta via horrendis scatet undique monstris, Et vita innumeris est interclusa periclis. Sed tamen incolumes hâc virtus ducit alumnos Extrema ut vitent, ne pes hinc indè vacillet. Proclamat longè spes, hic sunt digna laboris Præmia, & excipient mordaces gaudia curas. Pax, sincera quies nullo temeranda dolore, Lætitia hîc habitant longum, sine sine, per ævum.

Fierce Monsters do this narrow passage bound, And deadly dangers it encompass round. Tet vertue doth her Followers safely guide, Lest they should go astray on either side.

And

Ch.2

An

Ha

Wi

II. tude i gravit main:

garme fiatue

ted in

Forta

fane

the Int

lower

Si

the G

Carn

I

ders

ofali

a Cor

102 Ca

to the

agan

V.

and i Earth

anda

tong

可协

Ch.24. Of depicting Truth, Peace, &c. 297

And Hope proclaims afar; the here you shall Have joy for Sorrow; boney for your gall. Here Peace and joyful rest for ever dwell, Which neither cross nor timesshall ever quell.

ni

the

Set

17

Piting lean for the

Aris

to

II. Truth, faith Hippocrates, was framed in the fimilitude and likenefs of a beautiful woman, attired with gravity and modefly: Philostratus faith that the remaineth in the cave of Amphiarus, cloathed all in white garments of a beautiful hue: Lucianus faith that her flatue was made in the form of a young woman, habited in rags, and bafe attire, with a fuperfeription over her head, how the was wronged and abused by Fortune.

III. Peace, faith Aristophanes, was framed in the shape of a young woman, holding between her arms the Infant Pluto, the God of Riches, and Ruler of the lower Regions.

She is alfo called Concordia, and is a special friend to the Goddess Ceres, from whom comes the encrease of Fruits, Corn, and other nutriments. See Chap. 28.

IV. Honour is depicted with two wings on its fhoulders; which as Alciatus faith, was made in the form of a little child, cloathed in a purple garment, having a Coronet or wreath of Laurel about his head; holding hand in hand the God Cupid, who leads the child to the Goddefs Vertue, which is depainted right over against it.

V. Fame is painted like a Lady, with great wings, and feeming to proffer a flight, and to mount from the Earth, and rove abroad : having her face full of eyes; and all over her garments an infinit number of ears and tongues. See the tenth Section of the eighteenth Chapter of the first Book.

VI. Opi-

Polygraphices.

298

Lib.4.

Ch

福

Gree

leis.

lips Son cov

and

fread

hav

fed

Vo

form

aLi

TERT

200

10 1

fact

fri,

Cathe

-

Бу

VI. Opinion, faith Hipocrates, refembles a young woman, not altogether fo fair and lovely as Truth, yet not deformed, or ill proportioned; being rather impudent than modefily bold in her demeanour, with her hand ftretched forth to take whatfoever is offered and prefented to her.

CHAP. XXV.

How Night, Sleep, Silence, Pleasure and Fear were depicted.

I. I lght (the mother of Sleep and Death) was depicted by the Antients in form of an old woman, having two great wings growing on her fhoulders, all cole black, and fpread abroad, as if fhe feemed to offer a flight; and that fhe is drawn in a Chariot, whole wheels are made of Ebony: having a fad countenance, and an upper garment of a deep black, fpotted all over with filver fpots like ftars, as Boceace faith.

She is also depicted like an old woman in a black mantle Spotted with stars of gold.

11. Sleep (the brother of Death) faith Hefiod, was painted of a most four, lowring, and fad aspect; aged, and holding in her left hand a young child very beautiful; and in her right, another child, of a most swarthy, black and dull complexion, with legs and arms very crooked. Philostratus in a Tablet (which he made for Amphiarus) makes her like an aged woman, flothful and fluggish, cloathed with several garments, the under black, the upper white; holding in one of her hands, a horn pouring forth seed.

Ch. 25. Depicting Silence, Pleas. &c. 299 By the garments is fignified night and day; by the feeds reft, ease and quiet.

'n

et

1.

170

de-

10-

ul-

m-

01,

1-

100

Was

utiyar-1005

ide

th-

the

her

By

III. Harpocrates (the God of Silence) called in Greek Sigaleon, was made, as Martianus and Apuleius lay, in likenefs of a young child, who close to his lips held one of his fingers as a fign of fecrecy. Some portraict him without any face at all; all covered with the skin of a wolf, painted full of eyes and ears:

Shewing it to be good to fee and hear much, but to speak little.

IV. Voluptia or pleasure, was depainted a Lady, having a pale and lean countenance, fitting in a pontifical and majeflick chair, embroidred and emboffed with stars of gold, treading and trampling upon Vertue.

V. Fear, faith Pausanias, was shaped in several forms by the Antients; sometimes with the head of a Lion among the Grecians (as on the shield of Agamemnon:) and sometimes with the deformed face and body of a woman.

The Corinthians dedicated this Picture so made unto the sons of Medea; n bick were slain for bringing fuch fatal gifts to the daughter of old Creon, whereby she, and all that regal family perished, and were for ever extinct.

. ne enlage manifation (or frader and and a st

STREET STATE OF STREET STREET

and the state into a Private bar for and the and the and

- realized in the second of the state of the second of the second states

with your and the we faith of mind mutanes eller " lander.

CHAP.

Ch

" ()" "

"fat

31

A CS

hair

Fan

V

TUDE

for

as.

that

flo

所

bal

int

Wit

TCT I

1

tre

240

0001

Bar

Ver

MG

CHAP. XXVI.

How the Antients depicted several wise men and Philosophers, Langivers, Emperours, Kings and Queens.

I. C Idonius Apollinarius in the ninth Epistle of his

O ninth Book, saith that the Philosopher Zeusippus was painted with a crooked neck: Aratus with a neck bowed downwards: Zeno with a wrinkled forehead.

II. Epicurus, was painted with a fmooth skin : Diogenes, with a hairy rough beard : Socrates with whitifh bright hair.

III. Ar istorle, was painted with a stretched out arm: Xenocrates, with a leg somewhat gathered up: Hieraclitus, with his eyes shut for crying.

IV. Democritus with his lips open, as laughing: Cbryfippus with his fingers close preffed together, for numbering: Euclid with his fingers put alunder, for the fpace of measures.

V. In fome ancient Bibles and many Pictures, Moses is defcribed with horns.

"The ground of this absurdity was a mistake of the "Hebrew Text, in that of Moses descending from the "Mount, upon the nearnels of the words, JTP Ke-"ren. Cornn, an horn, and JTP Karan, Luceo, to thine. "The vulgar translation (of Exodus 34. 29. 35.) a-"grees with the former, to wit; Ignorabat quod cor-"nuta effet facies ejns. Qui videbant faciem Moss effe-"cornutam. The translation of Paulus Fagius is otherwile, viz. Moses nesciebat quod multus effet splendor "glorie vultus ejus. Et viderunt filii Israel quod multa "effet

Ch.26. Antients depict. Wisemen, &c.301

" effet claritas gloria faciei Moss. Tremelius and Ju-"nius bave it thus, ut ignoraret Mosche splendidam effe "factam cutem faciei sua. Quod splendida facia effet "cutis faciei Moschis: agreeing with the Septuagint, "δεδόξασαι ή όλις το γρώματω το πο 90ωπο, glorifi-"catus est aspectus cutis seu coloris faciei.

184

14

this

啊~

led

Di-

m;

114-

ng:

r, tor

tor

Whifes

fthe

n the

Ke-

hine.

.) 2.

1 0%-

lige

ther-

lasta

sits.

fat

VI. But Mofes is generally depicted with bright hair, a very beautiful Vifage, with radiant scintillations about his head, in form of hoariness, which in Painting is called Glory.

VII. Alexander the great, with brown hair, and a ruddy complexion, riding upon his horfe; but by fome riding upon an Elephant.

The reason of this is hard to be discerned; for as much as I find not in history, that ever be used that beast in his Armies, much less in his own person: except it were for that remarkable battel which he fought with Porus King of India, wherein were many Elephants: In which himself (as Curtius, Arianus and Plutarch relate) was on horseback, the name of which heast yet lives, and is famous in history to this day.

VIII. Numa Pompilius with white hair Crowned with a Silver bend or Diadem; his robe crimfon trimmed with Gold; his mantle yellow trimmed with Silver; his buskins watchet and filver.

IX. Æness the Trojan Prince in a purple mantle trimmed with Gold.

X. David (the King of Ifrael) with brown hair, afuddy complexion and a long beard.

XI. Elizabeth Queen of England, pale-faced light brown hair, and gray eyed.

XII. Dido Queen of Carthage in a purple or fcarlet mantle, her under garments purple; a Golden Quiver; her hair yellow, tyed up with spangles and knots of Gold.

¥ 3

XIII,

XIII. Gustavus Adolphus King of Sweden with yellow hair.

XIV. Mahomet the Turks great Prophet, in garments all of green.

XV. German Emperours in a Violet coloured robe, watchet, or light-coloured.

XVI. Roman Emperours, with yellow Carrufters embroidered with Silver; the labels of their fleeves, and fhort bafes of watchet; the under fleeves, and long flockings white; a Lawrel wreath, with a Silver jewel before; and rays of Gold, iffuing from the wreath.

XVII. Pitbageras in white garments with a Crown of Gold.

XVIII. Empedocles, in Violet, murry, or purple, and fo generally the reft of the Grecian Philosophers.

XIX. Erasmus Roterdamus, yellow haired, grayeyed, and somewhat pale.

CHAP. XXVII.

The Painting of the Sybils.

I. S Ibilla Agrippa, a woman in years in a rofeal garment.

II. Sibilla Libica an elderly woman, crowned with a garland of flowers, in purple garments.

III. Sibilla Delphica, with a black garment, a young woman with a horn in her hand.

IV. Sibilla Phrygia, in red garments, having an old Saturnian hard favoured face.

V. Sibilla Herophila, a young woman very fair in

a pur.

Cha

apur Lawr

VI

ligh

dad

V

garn

in V

gann boldi

a Pet

ma

boo

ém

make this where

four

the the

Chap. 27. Of Painting the Sybils.

4.

yel.

Tits

be,

The,

203

TOT

the

10

10/0-

raÿ-

TE

gar.

with

Jung

blos

inia.

VIL ENT.

a purple garment, and head covered with a vail of Lawn.

203

VI. Sibilla Europea, a comely young woman, having a high, red-coloured face, a fine vail on her head, and clad in a garment of Gold work.

VII. Sibilla Perfica, with a white vail, and a golden garment.

VIII. Sibilla Samia a middle aged woman, clothed in Willow weeds, having a palm in her hand.

IX. Sibilla Hellespontica, a young woman in green garments, with a round, lovely, fresh coloured face; holding in her left hand a Book; and in her right hand a Pen.

X. Sibilla Tiburtina, an old woman in purple garments, of a hard vifage, holding in her Apron the books of the Sibills.

Thefe Sibills for their Prophecies of Christ are in high efteem: they are ten in number as Varro faith; yet others make twelve, of which we are not fatisfied; Boylardus in his Treatife of divination, befides thefe ten addeth two others, Epirotica and Ægyptia. Some, as Martianus, will have but two; Pliny and Solinus, but three; Elian four; and Salmafius but the first feven. They are generally deferibed as young women, yet some were old, as she that fold the books unto Tarquin, from whence we conclude the Licentia pictoria is very large.

V4 CHAP.

Chap.

WIL .

parli i

VIII

Natura

IX

colours

tie; m

kit a

TRADA

colour

fine

Gell

XL

white fi Audici

Libert

XII nobe;

Saffron Peter)

XIV

lamps ;

mantie

Sifters

XV

manti

loured

ghter

Lines

X.

CHAP. XXVIII.

The Painting of Arts, Vertues, Passions and minor Gods.

I. A Rithmetick is painted in cloth of Gold: Geometry fallow faced, a green mantle fringed with Silver, and a Silver wand in her right hand: Aftronomy with a Silver Creffant on her fore-head, an azure mantle, a watchet Scarf, with golden Stars.

II. Faith is painted in white garments, with a cup of Gold: Hope in blew, with a Silver Anchor: Charity in yellow robes; on her head a tyre of Gold with precious ftones; her chair Ivory.

III. Religion, in a Silver vaile, with a garment, or mantle of white : Justice in a white robe, and a white mantle; with a Coronet of Silver and white buskins: Innocency in white.

IV. Concord in a sky coloured robe, and a yellow mantle; Peace in white, feattered with flars, or a carnation mantle fringed with Gold, a vaile of Silver, green buskins, and a palm in her hand in black: Unanimity in a blew robe, mantle and buskins; with a chaplet of blew Lillyes.

V. Wifdom in a white robe, blew mantle, feeded with ftars: Law in purple robes, feeded with Golden ftars; a mantle of Carnation fringed with Gold; purple and yellow buskins: Government in Armour.

VI. Watchfulnefs, in a yellow robe; a fable mantle fringed with Silver, and feeded with waking eyes; a chaplet of turnfole; in her right hand a Lamp; in her left, a Bell: Confidence in a particoloured garment: Modesty in blew.

VII. Eternity

304

Chap. 28. Painting Arts, Vertues, &c. 305

b.4.

新潮-

Gene

d with

Strama-

azure

12000

Contry

th pre-

nt, or

white

skins:

yellow

Carna-

1, green

simily

plet of

feeded

n Gol-

Gold

mour.

c man-

waking

hand a

plosted

Eternety

VII. Eternity in blew, feeded with Golden ftars: the Soul in white garments, branched with Gold and Pearl; and crowned with a Garland of Roles: Felicity, in purple trimmed with Silver.

VIII. Love, in Crimfon tringed with Gold, a flame coloured mantle, a Chaplet of red and white Rofes Natural-affection, in Citron colour: Envy, in a difcoloured garment full of eyes.

IX. Joy, in a green robe, and a mantle of divers colours, embroidred with flowers; a garland of Myrtle; in her right hand a Cryftal cruife, in her left a Golden Cup: Pleasure in light garments, trimmed with Silver and Gold: Laughter in feveral colours.

X. Wit, in a discoloured mantle: Jolity, in flame colour: Pastime in purple trimmed with Gold.

XI. Opinion in black Velvet, black cap, with a white fall : Impudence, in a party coloured garment : Audacity, in blush colour.

XII. Honour, in a purple robe, wrought with gold : Liberty, in white : lafety in Carnation.

XIII. Cupid was painted (by Zeuxis) in a green robe : Hymen, in long yellow hair, in a purple or Saffron coloured mantle : Triton (Neptunes, Trumpeter) with a blew skin, in a purple mantle.

XIV. Urania, in a mantle of azure, filled with lamps: Aftrea the Goddels of Juffice, in a Crimfon mantle, trimmed with Silver ; the Graces all alike, as Sifters, in Silver robes.

XV. Tellus, the Goddels of the Earth in a green mantle: Ceres, with yellow hair, and a straw coloured mantle trimmed with Silver: Vesta, daughter of Saturn, in white garments filled with flames.

XVI. Flora,

Ch.29

ing nor

Inthe

as Sp

a the of

In th

adis b

Boon

ite Ascie intel and

Letter of

tom his

But l

nat land

Chand

tints gi

S & mak

tall, W

Mar.

Al Will She

62:20

unnand nate and 11, but

afe hat

i, that

XVI. Flora in a mantle of divers colours : Proferpine in a black mantle, trimmed with Gold flames : Eccho, (the Goddels of the Aire and daughter of speech, the intirely beloved of Pan) is an invisible Goddels.

306

Aufonus Gallus, reporteth that the hath oftentimes diffwaded, and reprehended fuch, who would undertake to depaint her, and repeats the fame in an Epigram, whole fence in English is this.

Surceafe thou medling Artift thy endeavour, Who for thy skill bast reap't such long liv'd fame: Strive not to paint my body, shape, for never Did any human Eyes behold the fame. In concave caverns of the Earth I dwell, Daughter o'th Air, and of each tatling voice, In Woods and hollow dales, I build my Cell, Joying to re-report the beast heard noise, To grief opprest, and men disconsolate, That tell each grove their souls vexation, Their dying agonies I aggravate, By their dole accents iteration. And he that will describe my form aright, Must shape a formeles sound or airy sprite.

CHAP. XXIX

To exprejs the Powers.

I. E Ternity, It is expressed in the form of a fair Lady, having three heads, fignifying Time past, prefent, and to come; in her left hand a Circle, pointing with the fore finger of her right hand up to heaven:

Ch.29. Of expressing the Powers. 307

0.4.

rofer-

Bes:

in of

Links

undain Epi-

Re :

Ea fair

e Time

Cinth

dapto

hearten:

heaven: the Circle fignifics she hath neither beginning nor end.

In the Medals of Trajan, she was figured red, sitting upon a Sphear, with the Sun in one hand, and the Moon in the other: (by her sitting is signified perpetual constancy.)

In the Medals of Faustina, she is drawn with a Vail, and in her right hand the Globe of the World.

Boccace, writing of the Progenie of the Gods, faith that the Ancients derived it from Demogorgon, as the principal and first of them all, who inhabited in the Middle or Center of the Earth, encircled round about, and circumvested with a dark and obfuscate cloud, breathing from his mouth, a certain liquid humidity.

But how ever what Eternity is, the name doth clearly discover, containing in its self all Worlds and Ages, and not limited, or measured by any space of time.

Claudius descrikes it by a Serpent that encompasset round with her body, the Cave or Den wherein it lyeth, so as making a Circle, she holds in her mouth the end of her tail, which with the Ægyptins was the emblem of a year.

All in a Circle thus she sits involv'd, Whose firm tenacity is ne'er dissolv'd : She sends forth times, and them recalls again, Ages to come, and past she doth retain.

But according to Boccace, as Eternity hath an absolute command over all times, so she lives far hence in some remote and unknown vale, where human steps never approached, but is even unfound out of the cælestial inhabitants, those happy souls, who stand before the presence of the greatest, that only knows all things.

II. Time, It is drawn standing upon an old ruine, winged,

winged, and with Iron teeth. Or thus, An old man in a garment of ftars; upon his head a garland of rofes, ears of corn, and dry fticks, ftanding upon the Zodiack, with a looking glafs in his hand; two children at his feet, the one fat, the other lean, writing both in one book; upon the head of one the Sun, upon the other the Moon. Or thus, An old man, bald behind, winged, with a fithe and an hour glafs, having a lock of hair on his forehead.

III. Fate, A man in a fair, long, flaxen robe, looking upwards two bright ftars emcompassed with thick clouds, from whence hangs a golden chain.

IV. Fortune, A naked Lady having an Infign or Sail overshadowing her, standing upon a Globe or ball.

LaCtantius faith that Fortune is a vain, idle and fenfelefs name, shewing forth mans weakness in attributing any thing thereto: which Marcus Tullius confirmeth, where he faith that this name of Fortune, was first brought in to cover the ignorance of man. Alexander Neopolitanus faith that at Prenestes in a temple she was depicted in the shape and form of two sisters, both conjoined in one and the same statue. Pausanius saith that her most ancient statue was that which Bupalus made in Greece in shape of a woman, upon whose head was a round hall, and in one of her hands a Cornucopia. She is called the blind Goddess, and partial Lady, by reason of the bestowing of her unconstant and mutable favours.

Imperious ruler of the worlds defigns, Lady of folace, pleafure and of pains: Like Tennis balls thou beat'ft us to and fro, From favours to difgrace, from joy to woe; From wars to peace, from rule to be commanded : But with unconftancy thou now art branded.

Winker

Macrobius

Chap.2

Inders,

100) 61

at for a

mel, b

aler &

tiner, a

La Es

treat gia

ebers a co cititating

V. E

VI.

m one.

by the h

wit and c

Acet

iden a G

aber a C

tor Cal

mith wi

ther al

VIL

night ha

with her

Trap

in ber le

enting

Lamb a

ine is a

VIII. D Heav

Chap. 29. Of expressing the Powers. 309

10.4.

nan in roles,

Zodi-

dice

is both

betind,

23 23

; look-

th thick

nor Sail

ball

ed fenfe

ibating firmeth,

brought

eopoli-

depicted

1 18 000

四片 弱-

reffer in

ally and

be blind

ming f

anded:

crobius

ed.

Macrobius faith she was set forth with wings on her shoulders, (to shew that she was always at hand among men) had by her side the rudder of a Ship (to shew that she doth rule and command) her self placed upon a wheel, holding in her right hand a golden hall, and in the other a whip; shewing where she smiled, wealth and honour, and where she frouned, crosses and mistery should follow.

In Egypt Fortune was depicted like a Lady turning a great glass wheel, on whose top was many men playing, others a climbing up; and others having attained it, precipitating themselves and falling down back again.

V. Equality, A Lady lighting two torches at once.

VI. Victory, Is expressed by a Lady clad all in Gold, in one hand a helmet, in the other a pomegranate : by the helmet is meant force; by the pomegranate unity of wit and counsel.

Augustus drew her with wings ready to fly standing upon a Globe, with a Garland of Bays in one hand, in the other a Coronet of the Emperor, with these words Imperator Cælar. In the Medals of Octavius, she is drawn with wings, standing on a base, in one hand a palm, in the other a Crown of Gold.

VII. Peace, Is drawn like a Lady, holding in her right hand a wand or rod downwards towards the earth, over a hideous Serpent of fundry colours; and with her other hand covering her face with a veil, as loth to behold firife or war.

Trajan gave a Lady in her right hand an Olive branch, in her left a Cornucopia. In the Medals of Titus, a Lady having in one hand an Olive branch; the other leading a Lamb and Wolf coupled by the necks in one yoke. The Clive is always the emblem of peace.

vIII. Providence A Lady lifting up both her hands to Heaven with these words Providentia Decrum. Or thus,

Chap.

Grant

giorfa:

Demora

GT ATT B

is fet fe

REALINE

Idicy

in fecki

three 1

WRT.

IL I

firetche

and by

The

live of

Embles

ing side

an,

III.

tobe ha

alor

In Anci The I

strangly

filf.

IV.

ameth

In the

a her ha

V. 7

nia ho

thus, A Lady in a robe, in her right hand a Scepter, in her left a Cornucopia, with a Globe at her feet.

IX. Concord, A Lady fitting, in her right hand a charger for facrifice, in her left a Cornucopia, with the word Concordia. Or thus, A fair Virgin, holding in one hand a Pomegranate; in the other a Mirtle bunch.

The nature of these trees are such, that if planted though a good space one from another, they will meet and with twining embrace one another.

X. Fame, A Lady clad in a thin and light garment, open to the middle thigh, that the might run the fafter; two exceeding large wings; garments embroider'd with eyes and ears, and blowing of a Trumpet.

XI. Deftiny, A Lady, who with great fury, and exceeding celerity holds in her hand an Iron bow ready bent, aiming to ftrike fortune even at the very heart.

Destiny and fortune can never agree; and therefore as fortune flies from destiny, so destiny pursues fortune; for where destiny sets her foot, there fortune is as it were inchanted and conjured, as having no power, efficacy or vertue.

CHAP. XXX.

Of Vertues and Vices.

I. V Erine is reprefented by Hercules, naked, with his Lyons skin, and knotted club, performing fome one of his Labours; as offering to ftrike a dragon keeping an Apple tree; or holding in his hand three golden Apples.

Hercules is nothing else but Vertue, bis name in the Greek

Chap. 30. Of Vertues and Vices. 311

10.4

Fter, in

hand a

the the

ling in

le banch.

P. asted

mit als

arment,

the fa-

-iordin

empet.

and ex-

-251 WOO

he very

efore as

we; for

1 mere 14-

efficacy or

ied, with

perform-

o firike a

hishand

min the

Gritt

Greek tongue is HOGUNNS, quafi üGS untes, Junonis gloria: vel quia unus ei Tess ügwas, celebrat aut commemorat Heroas, which is the property of Vertue : be is drawn naked to demonstrate ber simplicity : by the dragon is set forth all manner of vices : by the Lions skin, magnanimity and greatness : by his Oaken Club, Reason and Policy : by its knottiness, the difficulty, pains and labour in seking after vertue : by the three golden Apples, the three Heroical Vertues, Moderation, Content and Labour.

II. Piety is drawn like a Lady, with a fober countenance; in her right hand fhe holdeth a fword firetched over an Altar; in her left hand a Stork; and by her fide is placed an Elephant and a Child.

The Stork is so called of 50Pyn, the reciprocal or mutual love of Parent and Child, of which this bird was ever an Emblem, for the love and care she hath of her parents being old. The Elephant worships towards the rising of the Sun.

III. Hope is drawn like a beautiful child in a long robe hanging loofe, ftanding upon tiptoes, and a trefoyl or three leaved grafs in its right hand, in its left an Anchor.

The loofe vestment shews, she never pincheth or binds truth, standing on tiptoes shews she always standeth dangerously; the branch of trefoyl shews knowledge (the ground of faith) faith (the ground of hope) and hope it felf.

IV. Mercy, a Lady fitting upon a Lion, holding in one hand a Spear, in the other an Arrow; which the feemeth to caft away.

In the Medals of Vitellius she sits with a branch of Bays in her hand, and a staff lying by her.

V. Justice, a fair young Virgin, drawing after her, with her left hand a black, hard, ill-favoured Woman,

Chap.

lome no

fome his

H.T

heads; and br

- III.

in Rome

(for lo

arm a fr

teats, le

iffueth

truits,

garland

leg upos

IV.

Out in w

and floy

from un

2 Com

with fin the floo The . by Nilu batred of

Jacters c

man, hailing her by main force, and firiking her over the face in a fevere manner.

212

The young Virgin was Justice, the other Injuria : she is drawn young and a Virgin, to shew, that Judges and administrators of Law ought to be incorrupt and free from bribes, partiality or flattery, but just, constant and fincere.

VI. Felicity, a Lady fitting in an Imperial throne, in the one hand fhe holdeth a Caduceus or Rod, in the other hand a Cornucopia.

VII. Fruitfulness, a Lady fitting upon a bed, and two little Infants hanging about her neck.

VIII. Diffimulation, a Lady wearing a vizard of two faces, in a long robe of changeable colour; and in her right hand a Magpye.

IX. Security, a Lady leaning against a pillar, before an Altar, with a Scepter in her hand.

X. Calumnia, a beautiful, rich and young woman, approaching towards a Judge, gorgeous in her habit, with an angery, fcornful and difcontented look, and red and firie eyes; fhe holds in her left hand a flaming torch: and with her right fhe by force draws a young man by the hair of the head.

XI. Envie, a wonderful lean old man, with a pale and meagre face, in whofe withered cheeks Age hath wrought deep furrows and wrinkles.

XII. Penitence, a Woman in vile, ragged and bafe attire, infinitly deploring her being: and bemoaning her felf in paffionate fits above all measure, continually weeping.

CHAP.

Chap.31. Of Rivers.

0.4

over

: for

t and

throne,

道旗

d, and

d in ha

befor

habit.

x, an

famin

a young

in a pal

ge hat

nd ba

noasii

sting

CHAI

CHAP. XXXI.

Of Rivers.

I. HErein you ought to observe the Adjuncts and Properties of the fame; which confists in fome notable Accident done near them; fome famous City, trees, fruits, or reeds fituate upon their banks; fome fish only proper to their streams; or recourse of schipping from all parts of the world.

II. Therefore you had best place the City upon their heads; their fruits in a *Cornucopia*; reeds, flowers, and branches of trees in their Garlands, and the like.

III. The River Tyber. It is expressed (in the Vatican in Rome) in a goodly Statue of Marble lying along (for fo you mult draw them) holding under his right arm a she wolf, with two little infants sucking at her teats, leaning upon an Urne or Pitcher, out of which issues the stream: in his left a Cornucopia of delicate fruits, with a grave Countenance and long beard; a garland of flowers upon his head; and resting his right leg upon an Oar.

IV. The River Nilus. It is seen (in the Vatican) cut out in white Marble, with a garland of fundry fruits and flowers, leaning with his left arm upon a Sphynx; from under his body iffueth its stream; in his left arm a Cornucopia full of fruits and flowers on one fide, with fixteen little children, smiling and pointing to the flood.

The Sphynx was sometimes a monster which remained by Nilus: the Crocodile and TS negrov Stardv, from his hatred of Saffron, the most famous monster of Egypt: the fixteen children, the fixteen cabits of beight, the attermost X of

Polygraphices.

Lib.4.

Chap.

ing out

a red Li

the chie

By t

of Beech

mbere k

Х.

Ox'sta

head.

li is J Poets fei

the hear

fides n

XL

the Em

red with

Itis

District.

I

XIL

garland

Urus or

caffing

Onewh

divides

This is

bitte in t

for Da

Toeren

This

of the flowing of Nilus: their smiling looks, the profit of it, which glads the hearts of the Sun-burnt inhabitants.

314

V. The River Tigris. It was drawn like an old man (as the reft) and by his fide a Tiger.

This beast was given it as well for its fierce streams, as for the store of Tigers which are there.

VI. The River Ganges. It bears the shape of a rude and barbarous favage, with bended brows, of a fierce and cruel Countenance, crowned with a palm, having, as other floods, his pitcher, and by his tides a *Rbino*ceros.

This River runneth through India, and hath its head from a fountain in Paradise.

VII. The River Indus. It is drawn with a grave and jovial aspect, with a garland of its country flowers, by its fide a Camel (from $\chi \alpha \mu \alpha i^{*}$) it is represented pleafantly, grave, as an Emblem of the Indian policy.

This is the greatest River in the world, receiving into its channel threescore other great and famous Rivers, and above an hundred lesser.

VIII. The River Thamefis. In the house of an honorable friend, I saw the Thames thus drawn: A Captain or Soldier lying along, holding in his right hand a Sword, and under his arm the August tower: in the other a Cornucopia of all fragrancies, with a Golden chain which held four Crowns; and with this he encompassed the streams, from under which bending of his left arm they seemed to flow: his temples were adorned with Bays, the River was empaled on one side with Anchors, and on the other stood Cassar's Augusta.

IX. The River Arnus. It is a famous River in Italy, drawn like an old man leaning upon his pitcher powr-

ing

Chap. 31. Of Rivers.

.4.

Tofit

nan

Nin 25

a Ruse

Tierce

aving,

leins-

head

grave

Wers,

tent-

idian

Eints

1, 484

an hon: A

right

Wer:

vith a

thehis

bend-

emplica

led on

Calars

a July,

NONIT:

ing

ing out water: upon his head a garland of Beech, by his right fide a Lyon, holding forth in his dexter paw a red Lilly or Flower-de-luce, the ancient Armes of the chief City of *Tuscany*.

By the garland of Beech is set forth the great abundance of Beech-trees growing about Fasterona in the Appennines where Arnus hath his head.

X. The River Po or Padus. It is depicted with an Ox's face, having a garland of Reeds or Poplar on his head.

It is so called from the Sister of Phaeton, whom the Poets feign destroyed with lightning, and drowned here: the head of the Ox, is from its borrid noise and roaring, whose crooked banks resemble the borns thereof; by the sides whereof grows much Reed and many Poplar.

XI. The River Danubius. In the ancient Medals of the Emperour Trajan, it is depicted with its head covered with a veil.

It is so drawn because its bead or first spring is nnknown. Ausonius saith,

Danubius periit caput occultatus in ore.

XII. The River Achelous. Ovid defcribes it with a garland of Reeds, Willow, and the like: having two Urns or Earthen Pitchers, the one empty, the other caffing out water; and upon its head two horns, the one whole the other broken.

This River as it is the most famous of all Greece, so it divides Etolia from Arcadia, and then falls into the Sea. This is fetch'd from the fable of Hercules who combated him in the lakeness of a Bull, and broke one of his borns, for Deianiras sake, there turning both its streams into one, whereupon one of the Urns is empty.

X 2

XIII. The

315

Chap

Tery

naki).

IV.

Draw

awny

tire of

ginning V. J

The

Dray

their hai

ing out

hair loa

coronet

of Sez-

about

in her

VII

hair ca

threads

fringo

Am a

It were

her han

from Vo

like to

colours

hairha

drops

Lin, or

They

VIII

The doth. VI.

XIII. The River Niger. It is drawn like a black-Moore, with Glory, or a Coronet of Sun-beams falling upon his Urne, having by its fide a Lyon.

316

By the Sun-beams and black, is shewed the clime, lying under the torrid Zone, whose inhabitants are Blacks or Moors; the Lyon is that which the Country Mauritania and Barbary breed, being the fiercest in the World.

CHAP. XXXII.

Ox State, Drving a gan and T. construction

er antender in ashie site anten battan it is it

Of Nymphs.

I. N $\Upsilon' M \Phi H$, Nympha, a Bride (from veóv & $\Phi \alpha i$ veod αi as it were a fresh or new creature : or as some will have it from Nympha quasi Lympha, by changing L. into N. after the Dorick dialeti :) it is nothing elfe but an Allegory, from the Vegetative humidity, which gives life to trees, herbs, plants, and flowers, by which they grow and increase.

II. They are feigned to be the daughters of the Ocean, the mother of floods, the nurles of *Bacebus*, and goddeffes of fields, who have the protection and charge of mountains, herbs, woods, meadows, rivers, trees, and generally of the whole life of man.

III. First, Napaz, Nymphs of the Mountains.

Let them be drawn of a fweet and gracious afpect, in green mantles, girded about in the middle; and upon their heads garlands of honeyfuckles, wild-rofes, tyme and the like; their actions, dancing in a ring, making garlands or gathering flowers.

Chap.32. Of Nymphs.

).4.

hck-

ling

ing,

lacks

hij-

建設

qai-

or as chan-

sthing

midity,

vers.by

the O-

, 200

harge

es.and

TACIOUS

e mid-

honey.

stions,

thening

They

317

They are so called from Nonds, the top of an bill, or woody valley.

IV. Secondly, Dryades, Nymphs of the woods Draw these less fair than the former, of a brown or tawny complexion, hair thick like moss, and their attire of a dark green.

They are so called from $\Delta guis$ an Oak, having their beginning with trees, and dying again with them.

V. Thirdly, Naiades Nymphs of the floods.

Draw them beautiful, with arms and legs naked, their hair clear as Chrystal; upon their heads garlands of water-creffes, with red leaves: their actions, powring out water.

They are so called from New to flow, or bubble as water doth.

VI. Thetis, a Lady of a brown complexion, her hair fcattered about her fhoulders, crowned with a coronet of Periwincle and Efcallop fhells, in a mantle of Sea-green, with chains and bracelets of Amber about her Neck and Arms, and a branch of red Coral in her hand.

VII. Galatea, a most beautiful young Virgin, her hair carelesly falling about her shoulders like filver threads, and at each ear a fair pearl with a double string of them (fometimes) about her Neck and lest Arm a mantle of pure thin and fine white, waving as it were by the gentle breathing of the air, viewing in her hand a spunge made of Sea-froth, she is so called from yaka, lac, milk.

VIII. Iris, a Nymph with large wings, extended like to a femicircle, the plumes fet in rows of divers colours, as yellow, green, red, blew or purple; her hair hanging before her eyes, her breafts like clouds, drops of water falling from her body, and in her hand Iris, or the Flower-de-luce.

Virgil

Chap.

Scepters

ked pon

gravity

her ton about h

a garian and in b

ten Sam

VL H

temple with a lighted

VII. Forme In

thers of

by fins

VII

upon h hand th

Her par

mains (c

IX.

Gold;

tor the

books.

The

TO LOU

banelt

V. P

Virgil makes her the messenger of Juno (where the is taken for the air) when he faith, Irin de Cælo misse Saturnia Juno.

318

IX. Nymphæ Dianæ; Let them be cloathed in white linnen to denote their Virginity, and their garments girt about them; their Arms and Shoulders naked; bows in their hands, and arrows by their fides.

X. Aurora, the Morning. A young Virgin with carnation wings and a yellow mantle; in her forehead a ftar, and Golden Sun-beams from the Crown of her head, riding upon Pegafus, with a viol of dew in one hand, and various flowers in the other, which the fcattereth upon the earth.

CHAP. XXXIII.

Of the Nine Muses.

1. C Lio. She is drawn with a Coronet of Bays; in her right hand a Trumpet; in her left a Book, upon which may be written *Hiltoria*; her name is from praife or glory.

II. Enterpe, Is crowned with a garland of flowers, holding in each hand fundry wind inftruments; her name is from giving delight.

111. Thalia. Draw her with a fmiling look, and upon her Temples a Coronet of Ivy, a Mantle of Carnation embroidered with filver twift and gold spangles, and in her left hand a vizard; her Ivy shews the is mithrifs of Comical Poefie.

IV. Melpomene. Draw her like a virago, with a majestick and grave countenance, adorn her head with Pearls, Diamonds and Rubies; holding in her left hand Scepters

Chap. 33. Of the Nine Muses.

.4.

ethe

mift

hite

unts

and;

1 with

rehead

of her

1001¢

fcat-

W5; 12

Book,

strom

wers,

; ber

nd up-

Cama.

angles,

eismi-

with a adwith fthand

cepters

Scepters with Crowns upon them, other Crowns and Scepters lying at her feet; and in her right hand a naked poniard, in a Mantle of changeable Crimfon. Her gravity befits Tragick Poefie.

V. Polybymnia. Draw her acting a Speech with her forefinger, all in white, her hair hanging loofe about her fhoulders of an orient yellow, upon her head a garland of the choiceft jewels intermixt with flowers, and in her left hand a book, upon which let it be written Snadere; her name imports memory, to whom the Rhetorician is beholden.

VI. Erato. She hath her name from $E\beta\omega 5$, Amor, Love: draw her with a fweet and comely vilage, her temples girt with Myrtles and Rofes, bearing an heart with an Ivory Key; by her fide Cupid, winged, with a lighted torch; at his back, his bow and quivers.

VII. Terpfichore; a chearful vifage playing upon fome Inftrument; upon her head a Coronet of Feathers of fundry Colours, but chiefly green; in token of the victory which the Mules got of the Syrenes, &c. by finging.

VIII. Urania, A beautiful Lady in an azure robe; upon her head a Coronet of bright flars; in her right hand the Cœleftial globe, and in her left the Terreftrial. Her name imports as much as heavenly; Uraniz cæli motus ferutatur & Aftra.

IX. Calliope. Upon her head draw a Coronet of Gold; upon her left Arm Garlands of Bays in flore, for the reward of Poets; and in her right hand three books, upon which write Homerus, Virgilius, Ovidius.

The Muses had their names, as Eusebius saith, ward. To uveiv, which is to instruct, because they teach the most bonest and landable disciplines.

X

CHAP.

219

Ch.35

III. 1 helmet u

right ha

IV. agarlar

the one V. J

arobe

Haw-th

of white

apon th VI.

upon

Maid

Cancer VII.

cating

on his h

a Lion

VII

in a fla wheat his belt IX.

cheerfu and pu

with a mer fr

X.,

decavi

of Oa

Scorp

and C

CHAP. XXXIV.

320

Of the four Winds.

I. E Urus, the East-wind. Draw a youth with puffed and blown cheeks (as all the other winds must be) wings upon his shoulders, his body like a Tauny Moor, upon his head a Red Sun.

11. Zepbyrus, the West-wind. Draw a youth with a merry look, holding in his hand a Swan, with wings displai'd as about to sing, on his head a garland of all forts of flowers.

'Tis called Zephyrus quasi Zwiv Depwv, bringing life, because it cherisheth and quickneth.

III. Boreas, the North-wind. Draw it like an old man, with a horrid, terrible look; his hair and beard covered with fnow, or the hoar-froft; with the feet and tail of a Serpent.

IV. Auster, the South-wind, is drawn with head and wings wet, a pot or urn pouring forth water, with which defcend frogs, grashoppers, and the like creatures which are bred by moisture.

CHAP. XXXV.

Of the Months of the Year.

I. J Annary must be drawn all in white, like fnow or hore frost, blowing his fingers; in his left arm a billet, and Aquarius standing by his fide.

II. February is drawn in a dark skie colour, carrying in his right hand Pifees, or Fishes.

III. March

Ch.35. Of the Months of the Year. 321

b.4.

puffed

ds melly Taury

1 With

wings of all

ing iffe,

an old

beard

ie feet

n head

er, with

He crea-

DOW OF

cftam

anning

March

III. March is drawn tawny with a fierce look, a helmet upon his head, leaning upon a Spade: in his right hand Aries; in his left Almond Bloffoms and Scions; and upon his arm a basket of Garden-feeds.

IV. April is drawn like a young man in green, with a garland of Myrtle and Hawthorn-buds, winged; in the one hand primrofes and violets; in the other Taurus.

V. May is drawn with a fweet and lovely afpect, in a robe of white and green, embroidered with Daffadils, Haw-thorn and Blew-bottles; on his head a garland of white, red, Damask-rofes; in the one hand a Lute; upon the forefinger of the other a Nightingal.

yI. June is drawn in a mantle of dark grafs-green; upon his head a Coronet of Bents, King-cobs, and Maiden-hair; in his left hand an Angle; in his right Cancer; and upon his Arm a basket of Summer fruits.

VII. July is drawn in a Jacket of a light yellow, eating Cherries, with his face and bofome Sun-burnt; on his head a garland of Centaury and Tyme, on his fhoulder a Sithe; with a bottle at his girdle, carrying a Lion.

VIII. August is like a young man of a fierce look, in a flame-coloured robe; upon his head a garland of wheat; upon his arm a basket of Summer fruits; at his belt a Sickle, bearing a Virgin.

IX. September is drawn in a purple robe, with a cheerful look; and on his head a Coronet, of white and purple grapes; in his lef hand a handful of Oats, with a Cornucopia of Pomegranates and other Summer fruits; and in his right hand a ballance.

X. October is drawn in a garment of the colour of decaying flowers and leaves; upon his head a garland of Oak-leaves with the Acorns; in his right hand a Scorpion; in his left, a basket of Services, Medlars, and Chefinuts.

XI. November

XI. November in a robe of changeable green and black: upon his head, a garland of Olives with the fruit, in his right hand Sagitarius: and in his left bunches of parsneps and turneps.

XII. December is drawn with a horrid afpect, clad in an Irifh rug, or courfe Freeze girt about him : upon his head three or four night caps, and over them a Turkifh turbant; his nofe red, beard hung with Iceikles; at his back a bundle of Holly and Ivy, holding in furred mittens a Goat.

Where note, it will be good to give every month its proper and natural Landskip; not making bloffoms and fruits upon trees in December; nor a barren face of the Earth and trees in June.

CHAP. XXXVI.

Of Painting of the Face and Skin.

I. T WO ways there be of adorning of the Face and Skin; the first is by Painting : the second is, by application of Excellent cosmeticks, which give a very natural, absolute and Lasting beauty.

The first way, which is that of Painting is the fubject matter of this Chapter. Some may wonder that we should meddle with such a subject as this, in this place; but let such know; the Painting of a deformed Face, and the licking over of an old, withred, wrinkled, and weather beaten skin, are as proper appendices to a painter, as the rectification of his Errors in a piece of Canvale: Nor is there any reason, but that the Artist should shew his care in the one, as well as to expose his skill in the other, since a *fingle deformity*

in

chap.

is the be

185 J 87

And

mils

Ralon

ret let

frighte

when t

felves i we cont

in oble bodys h

have r which

ty, ete Defarm its illue

danger.

you to

have

ing th

fit for

were b

and ma fhine w

Nymple

like th

taken

you m

chearf

tures i behole

fuß-fr

Chap. 36. Of Painting the Face, &c. 323

10.4.

n and

th the

is left

t, dad

: upon

1000 2

8 With

vy, bok-

proper fruits

ot Earth

ace and

int is,

e a very

he fub-

ler that

inthis

a defor-

withred,

rappen-

intois in

but that

Well as

firmity

18

in the body, begets a complication of miseries in the mind, and a unity of defects a multiplication of Evils.

And though fome think the Poets did not much amils, to fancy the creature to be hatcht in Hell, by reason it brings with it such a torrent of dejections, yet let those darkned souls, (who are so much affrighted at its cloudy adumbrations) understand, that when time shall have made its full revolution, themfelves may be the product of fuch a conception : But we confefs, it feeks darknefs, and only folaces its felf in obscurity and dusky folitudes. For fuch whose bodys have paffed the ftamp with fome faults, and have miffed the impreffions or reflexions of beauty, which might make them delectable in humane fociety, ever make choise of darkness as their cheif companion. Deformity is a difease effecemed the most pernicious, and its iffue is a matter of dangerous confequence, chiefly obstructions to Ladies Preferment. Now to prevent this danger, to take away these obstructions, and to deliver you from the embraces of fo hideous a monfter (which some esteem as a Furie of Hell) these Cosmeticks we. have offered upon the Altar of your defects ; protesting that the use of these beautifiers, will make you as fit for the entertainment of Courtiers, as ever you were before for the courtship of Grooms or Hoftlers, and make your rufty skins and ill-look'd faces, to outfhine with a radiant luftre, the most splendid of all the Nymphs of Diana. Though you may look to much like the Image of death, as that your skins might be taken for your winding fheets, yet by our directions you may attain fuch a rolid colour, and fuch a lively chearfulnefs, as shall not only make you look like natures workmanship, but also put admiration into the beholders, and fix them in a belief, that you are the first-fruits of the refurrection. Thus we teach you lippid

324 Polygraphices.

Ch. 36.

Fine to

heautifie

to be ga

Heras

with fich

acp'db

II.

Befo

beautifu

with wi

well; th

with wat

sin pre

Ort

boilth

preis ou

III

Take

mortar, boil it a

that Iw

Vaporat

with fl

which y

nach.

IV.

Take phire tw

noble P

V. 9

Tak

make th

diffill d

hath di

kith a

Lib.4.

lippid mortals to retrace the fteps of youthfulnefs, and to transform the wrinkled hide of Hecuba, into the tender skin of the Greatest of beauties; which then you will dull by the advance of your features, and make all conceited shadows of glory, to vanish in your prefence. When once your artificial heat shall appear, others shall seem pale with envy for your perfections; and their natural-ruddiness thall only ferve them to blufb, to fee their features clouded by your iplendor, who will feem like brown bread compared with Manchet, or rather like wooden difhes upon a shell of China ware, or as another once faid, like blubberd jugs in a cupboard of Venice glaffes, or as earthen pifs-pots in a Goldsmiths shop. By this means, your sparkling Glories shall fire Platonick Lovers, so that none though as cold as Saturn shall be able to refist your actuating flames, but shall force the soutest heart, to be a Sacrifice to love. If any remain unfcorched, it must be only those leaden hearted Comards, who dare not approach your flames, for fear of melting; or those undeferving foldiers of Venus (of a frigid conftitution) who dare not fo much as look upon your youthful fire, for fear of being burnt to alhes. But it may chance that fome Saint or another, may condemn your hearts for evil, because you strive to make your faces good, and may like your in-fide the morfe because your out-fide may look fo well; yet with Benjamin refute not the many meffes of Pottage, nor yet the many changes of Raiment (although one might well enough ferve your turn) but receive them from the hands of Fofepb, though all the reft of the Brethren be angry. Avoid not company for want of beauty, when Art affords an innocent supply, but with confidence crucify that evil confcience, which forbids the use of a little oyl to make a chearful countenance, and the drinking of a little wine

Ch. 36. Of Painting the Face, &c. 325

wine to make a merry heart. Borrow our Artificial beautifiers, and become *fplendid*, that you may be fit to be gathered by the hand of fome metamorphofed *Hero*; left in the garden of *Deformities*, growing green with *ficknefs*, you fhould be taken for *thiftles*, and fo crop'd by *Affes*.

II. To cleanse the face and skin.

6.4.

s, and

ic ten-

to you

Take

apre-

poetr,

ctios;

nem to

lendor,

Man.

E Chi-

lgsin

la-pots

antling

none

Four

art, to

ed, it

o dare

s that

(neithur

ful fire,

chance

bearts

1, and

& may

many

of Rai-

te rour

Folgob, Avoid

fords an

hat evil

to make

a little

WIDC

Before any thing be used to paint, or make the skin beautiful, it must be made very clean thus: first wash with warm water, and sweet scented wash-balls very well; then rub the face with a cloth, and wash well with water in which Wheat-bran is boiled; fo is the skin prepared.

Or thus, Take Sublimate one ounce, glair of fix eggs, boil them in a glass veffel, till they grow thick, then press out the water, with which wash the skin.

III. To make a white Fucus or Paint.

Take Talk and powder it, by beating of it in a hot mortar, to the powdred Talk add diftilled Vinegar, boil it at a gentle fire in a wide glass, let the fat froth that swims at top, be taken off with a spoon; then evaporate the vinegar, and mix the remaining cream with flegm of common Salt, or a little *Pomatum*, with which wash or anoint the face, and it will beautify it much.

IV. Another very excellent.

Take Crude Talk in powder one ounce, oil of Camphire two ounces, digeft till the oil is white; it is a noble Fucus for Ladies faces.

V. To make the aforefaid oyl of Campbire.

Take Camphire four ounces, Bole twelve ounces, make them into balls and dry them in the Sun, then diftill them in fand in a glafs retort, into a receiver that hath diftilled rain water therein : first there will come forth a white matter, which melts in the Alembick, and

Chap.

insgar,

all have

X. A

Take

fale ju

iou lha

XI.

Make

atifiedly

tiol, or

a Citron

dur to b

XIL

Tak

Cubebs,

in reatin

teat; the

focus, th

KE gives

Nong.

Take

tithe g

inficient

a deep tin

tate part hickness

id) 20

wher all

XIV.

m hour.

AL TWO

nd. Boil (

and falls into the receiver, then a clearer water; and at last with a stronger fire, the oil we speak of, sweet scented, which rectified with spirit of wine will be yellow as Gold.

VI. Another excellent Fucus made of Pearl.

Diffolve Pearl in diftilled Vinegar; precipitate with oyl of Sulphur per Campanum; then fweeten and digeft with spirit of wine; abstract the spirit, and you have a magisterial Fucus will melt like butter.

VII. To make the best Fucus or Paint as yet known.

Take Venetian Talk, cleave it into flices, digeft it in the heat of the Sun, or of a horfe-dunghil for a month, with diffilled vinegar, made of Spanish wine, adding every day new diffilled Vinegar to the former, till the Vinegar be mucilaginous; which then diffill by a luted retort and a large receiver with a naked fire. First there comes forth the Vinegar; then a white oil, which separate. After you have cleansed the skin by the second Section, then first wash with the vinegar, after anount with the oil: if the second first well wash'd from all impurity, this one anointing may hold for a month without fading. This Cosmetick if rightly prepared, is worth about five pound an ounce.

VIII. An excellent Fucus made of a Bulls gall.

Take Bulls galls dryed in the Sun, whofe tincture extract with spirit of wine, with which befmear the face, (being cleansed by the second Section) leaving it on for three or four days, without going abroad, or exposing the skin to the air: at the end of the time cleanse the face by the section: so almost to a miracle, the skin of the face and neck is rendred most gratefully white, soft, delicate and amiable. This is the Spanish Fucus which several Ladies now use.

IX. To make an excellent red Fucus.

Make a decoction of red Sanders in double diffilled vinegar,

Chap.36. Of Painting the Face,&c. 32

vinegar, adding a little Alom, with a few grains of Musk, Amber-griefe, or of fome lweet Spices, and you will have a perfect red Fucus for the face.

X. Another very excellent.

b.4.

and

Weet

ni be

ite with

icn zid

and you

14

igen it

tor a

wine,

lormer,

n dilall

ed fire.

ite oil,

kin by

inegar,

walh'd

old for a

buly me-

incture

ear the

leaving

road, or

the time

not to s

red molt

This is

dialkd

VIELEBAL

ule.

Take juice of Clove-gilliflowers, with which mix a little juice of Limons : with this paint your face, and you shall have a pleasing red colour.

XI. To do the same another way.

Make a firong infufion of Clove-gilliflowers in rectified spirit of wine, adding a few drops of oil of Vitriol, or instead thereof a little Alom, and the juice of a Citron or Limon; so shall you have an excellent colour to beautifie the face with.

XII. A Fucus or Paint not easie to be discovered.

Take feeds of Cardamoms or grains of Paradife, Cubebs, Cloves, and rafpings of Brazil, which infufe in rectified spirit of wine for ten days, over a gentle heat; then separate the spirit : this is so perfect a Fucus, that it may deceive any man, for this clear water gives a fresh, red, and lovely colour which will last long.

XIII. A Fucus or Cosmetick of river Crabs.

Take of the flefh which remains in the extremities of the great claws of river Crabs (being boiled) a fufficient quantity, which dry gently, and then extract a deep tincture with rectified fpirit of wine; evaporate part of the *menstruum*, till the tincture have a good thicknels or body; with which (the skin being cleanfed) anoint the cheeks first, applying over it fome other albifying Cosmetick.

XIV. Spanish wool, where with women paint their faces red.

Boil fhearings of Scarlet in water of quick-lime half an hour, of which take two pound, to which put Brazil two ounces (rafped) Roch Alom, Verdigriefe, of

Char

2 WILL

monds.

Pamata

Synop.

poem.

twelv

and ev with t IV.

drach

tace o

Vening V.

Tak each te

well;

into H

ther n

willd

upon !

ing dù

and ma

VL

Tak

of new

as they

the fac

It will

Shing

VII.

gant't a

Ta

II

of each one ounce, Gum Arabick two drachms, boil all for half an hour, which keep for ufe.

XV. To do the fame another may.

on and the jerce of

Take Spirit of wine one pound, Cochenele half an ounce, rafped Brazil one ounce, Gum Armoniack three drachms, mix and digeft till the Gum is diffolved; then boil it gently, and strain it for use, into which you may put old linnen rags, or Spanish wool at pleasure.

CHAP. XXXVII.

Of Cosmeticks which beautifie without any thing of Paint.

1. A N excellent Cosmetick or Liquor of Talk. Take powder of Talk (made by rubbing it with pumice ftones; or beating it in a very hot mortar; or filing it with a Goldfmiths smoothing file) eight ounces, Salis Tartari fixteen ounces, calcine it twelve hours in a wind furnace, and set it in a Cellar, segarating that which melts, from that which doth not: then calcine this dry Calx added to four times its weight of Sal nitre, with a strong fire, so the Talk will be melted into a clear white mass which being set in a Cellar will turn to a clammy liquor.

This wonderfully whitens and beautifies the skin, and takes away spots and freckles from the face: but you must not leave the liquor long on, but wash it off with decoction of wheat bran, that it corrode not the skin.

II. To make the skin Soft and Smooth.

The face being very clean by the fecond Section of the fix and thirtieth Chapter, wash it very well with a Lixivium of Salt of Tartar, and after that amoint it

Chap. 37. Of Painting the Face, &c. 329

ib.4

s, boil

half an

ad three red; then

FOILTRAY

ny thing

bing i

ot more

ng file) calcine it

a Cellar,

ich doth

or time

the Talk

beingla

kin, and

Jan mat

decoline

Section of

li with a

anoint

6

it with Pomatum; or which is better, oil of fweet Almonds, doing this every night going to bed. The Pomatum we have taught the way to make in our Synopfis Medicina, lib. 3. cap. 58. Sect. 2.

III. A water to cleanse the face from Scurfe and Morphere.

Take diffilled rain water fix onces, juice of Limons twelve ounces, mix them, and wash with it morning and evening, anointing after it at night going to bed with the oil or *Pomatum* aforefaid.

IV. An Unguent which brings the skin to an exquisite beauty.

Take of our *Pomatum* one ounce, Salt of Tartar one drachm, Musk twenty grains, mix them well, and (the face or skin being very clean) anoint morning and evening.

V. A wonderful Cosmetick of great worth.

Take white Tartar twenty ounces, Talk, Salt, of each ten ounces, calcine them in a potters furnace very well; then grinding the matter upon a marble, put it into *Hippocrates* his fleeve, and fet it in a Cellar or other moift place for twenty or thirty dayes, and there will drop from it a precious oil; which being rubbed upon the skin foftly with a linnen cloth (the skin being duly cleanfed firft) takes away all kind of fpots, and makes the skin foft and delicate.

VI. A cheap, yet excellent Cosmetick.

Take Alom in fine powder, and fhake it with whites of new laid eggs, being a little heated, till fuch time as they grow thick to an ointment, with which anomit the face morning and evening three or four days; and it will take away fpots and wrinkles, and make the skin grow clear and fair.

VII. An excellent Mercurial Cosmetick prevalent against most deformities of the skin. X Take

Polygraphices.

330

Lib.4.

Chap

thenext

with W

forform

beauty.

force,

XI.

Tak

Tartar

walk a

youthat

emtimen

XII.

Take

civito

ble fin

initiad

XIII

Belin

with th

XIV

Diff

gar, W

a clear

of the m

world :

pound an

XV.

Tak

THIN Sa

ing and

XVL

Mix

an ound

aboint 1

Take Mercury purified from all blackness half a pound, Mercury Sublimate in powder as much, mix them in a ftone or marble mortar; put them into an Alembick of a straight Orifice, put on distilled Vinegar, till all be covered three or four fingers, letting it Itand four days, daily ftirring the fame at certain times, then it extracts a whitish powder; the whitish Vinegar by inclination separate, rejecting it, and put on other Vinegar: the powder at bottom keep to for some days : which labour you must to often reiterate, till you have abundance of that white powder, which dry, and keep for use: anoint with it, by mixing with it a little diffilled rain water, and it will take away all blemishes of the skin, as also Tetters. Use it not too often, and beware you touch neither eyes nor teeth with it.

VIII. Another of great estimation.

Take Mercury Sublimate, Saccharum Saturni of each two drachms, Rofe water, juce of Limons of each two ounces, mix them like to an ointment, with which anoint gently at night, and the next morning with the Pomatum aforefaid.

IX. To make a kind of Lac Virginis, an excellent Cofmetick.

Take diftilled rain water a quart, Saccharum Saturni cryftallized one ounce, mix them, and then wafh with the water, being fettled : the fine white powder at bottom, is alfo an excellent fucus or paint, which may be laid upon the skin if very clear : note, fome use Vinegar initead of the rain water.

X. To make Olcum Tartari per deliquium.

Take Salt of Tartar, which put into a bag with a corner in a moift Cellar, and the oil will diffil therefrom in drops: with this oil you may mix a little fair water, and wafh your face at night going to bed; and the

Chap. 37. Of Painting the Face, &c. 331

the next morning, the face being very clean, you may walh with the aforefaid Lae Virginis; thus continuing for fome days, you may create an exquisite and lasting beauty.

XI. A compound Cosmetick esteemed by some of great force.

Take of the aforefaid Lac Virginis one ounce, oil of Tartar aforefaid half an ounce, mix them, with which wash morning and night for about a week or more, as you shall see occasion; then anoint with the following ointment.

XII. To make the Cofmetick Ointment aforefaid. Take musk three drachms, amber griefe two drachms, civit one drachm, grind them upon a porphyre or marble ftone, with oil of Ben and Rhodium of each three ounces, with which anoint as aforefaid : note, fome

instead of the oil of Ben, use oil of fweet Almonds.

XIII. A vegetable Cosmetick.

4.

2

ΪX.

20

22.

zit

14

Vin.

at the

o fa

itate,

hich

with

ayall

teria

each

two

abich

with

te Cof-

12782

with

er at

th may

ale Vi-

with a

that-

nktair

t; and

the

Befmear your face or skin at night going to bed, with the juice of Wake Robin ; it is excellent.

XIV. An incomparable Cosmetick of Pearl.

Diffolve Pearls in juice of Limons or diftilled Vinegar, which digeft in Horfe-dung, till they fend forth a clear oil, which will fwim on the top: this is one of the most excellent Cosmeticks or Beautifiers in the world: this oile if well prepared is richly worth feven pound an ounce.

XV. A Cosmetick ointment of great worth.

Take of our Pomatum aforefaid fix ounces Saccharum Saturni two ounces, mix them, and anoint morning and evening.

XVI. Another very good for the skin.

Mix Saccharum Saturni one drachth, in Vinegar half an ounce, which mingle with the glair of eggs, and anoint with it.

¥ 2

XVIL

Ch.

ofC

1.

OUN

then

them

our L

thirt

thin

I

Fa

deroc

bread.

pled

lique

thirt

Vent

L 100

Sectio

Walkin

III

Tal

Which

tight

with

comp

leven

tor fo

10 007

XVII. A Cosmetick wonderful to make a pleasing ruddy complexion.

Take oil of Tartar four ounces, Alom, Sal Gem, of each one ounce, Borax, Camphire of each half an ounce, beat them well together, to which add of Briony water a pint, diftil them in *Balneo*, and you will have your defire.

XVIII. Another for the Same.

332

Take Madder, Myrrh, Saffron, Frankincenfe, of each alike, bruife and fleep all in White-wine, with which anoint the face going to bed, and in the morning wash it off, and the skin will have a gallant pleasing blush.

XIX. To make the Cosmetick of Myrrh, very excellent. Boil eggs till they are hard, flit them and take out the yolks, fill them up with powdred myrrh, close them together, and lay them in a moist Cellar, and the myrrh will diffolve into oil.

XX. To make a very good Wash to whiten the skin, and give a good complexion.

Take Limons, hens eggs boiled, of each twelve, Turpentine eight ounces, diffil all in Balneo Maria, with which wash: when you wash, you may drop into it a drop, two or three of oil of Oranges or Cinamon, for fragrancy sake.

XXI. A Cosmetick to make a rough skin smooth.

Take fweet Almonds blanched tour pound, moiften them with fpirit of wine and rofe water mixt together, of each two ounces, beat them together and fry them; and when they begin to fmoak, put them into a bag; and prefs them (in a prefs made for that purpofe) and there will come forth a very clear oil; which put into rain water, and beat it till it is exceeding white.

CHAP.

Ch.38.0f remedying vices of the skin. 333

CHAP. XXXVIII.

Of Cosmeticks, which remedy the various Vices of the skin.

I. TO take away Sun-burnings.

4.

nd-

1, of

itan fRi-

Usil

cle, of

with

-mon

aling

zellent.

ke out

clofe

id the

n, and

welve,

Marie,

rip in-

Cina-

noilten

toge-

andtry

minto

hat pur-

car oil;

exceid-

HAP.

1 To glair of ten eggs put Sugar-candy one ounce and anoint with it going to bed : or anoint with the juice of Sow-bread at night going to bed; and in the morning with oil Omphacine. The like effects hath our Lac Virginis at the ninth Section of the feven and thirtieth Chapter, as also Oleum Tartari, and other things of like nature.

II. To take away redness and Fimples.

First prepare the skin by bathing it often with the decoction of wheat-bran, and applying pultifles of bread, milk and oil thereto: when the skin is thus fuppled and rarified, you may cure them either by our liquor of Talk at the first Section of the feven and thirtieth Chapter, or mercurial Cofmetick at the feventh Section of the feven and thirtieth Chapter, or our Lac Virginis and oil of Tartat at the ninth and tenth Section of the feven and thirtieth Chapter, or by often washing with juice of Limons.

III. To take away Freckles.

Take juice of Limons, put it into a glass bottle, to which put fine Sugar and borax in powder, digeft it eight days in Sand, then use it; or mix Sal Tartari with whites of eggs, and apply it; or often use our compound Cosmetick at the eleventh Section of the seven and thirtieth Chapter, or oil of Tartar alone, for some weeks; but if all fail, you must have recourse to our Liquor of Talk at the first Section of the seven

3

and

Chap

VII.

Tak

them i

phirea

to and a decc

diffoh

with Poma

with.

VIII

The

tikes t Lixiv

otvo

toria

alloth

ONDCES

drachm

pound

often

Water

but ef

IX.

Our

follow

ed wel

Pentin

twoo

with S

X.

Exc

动机

the fir

of 198

and thirtieth Chapter, or Mercurial Cofmetick at the feventh Section of the feven and thirtieth Chapter.

IV. To take away Spots from the face or skin.

This is done by anointing with oil of Tartar for ten days; and after all that to walh it with a Lixivium of Quicklime in which Sal armoniack hath been diffolved for a long time : or you may use the Cosmetick at the third Section of the seven and thirtieth Chapter camphorated.

V. To cleanfe a scurffy Skin.

334

If the creature be fat, foment first with a Lixioium of Salt of Tartar; but if lean, make a fomentation of Borrage, Bugloss and Mallow leaves, which use for fome days: this bing done, bath the place where the fourf is, with Spiritus Nicotiane wade by fermentation, which being dryed in, anoint first with oil of Tartar, then with oil of Almonds; repeating the three last works, so often till the fourf goes away.

If all these fail, you must have recourse to our liquor of Talk, or Mercurial Cosmetick; or those at the fifth and eighth Section of the seven and thirtieth Chapter, which without doubt will perform your desire.

VI. To free the Skin from Tetters and Ring-worms.

Diffolve Sublimate one ounce in a glafs of Red-wine by boiling, with which walk the place morning and evening, letting it dry of it felf, for three or four days together, and it will certainly cure : if they be not inveterate, our liquor of Talk at the first Section of the feven and thirtieth Chapter, or Mercurial Cofmetick may fufficiently do; or you may anoint with this ointment. Take Sal Tartari two drachms, burnt Alom three drachms, powder and incorporate with whites of eggs : or this, take Sulphur vive three drachms, Camphire one drachm, Hogs-griefe two ounces, mix and make an ointment.

Chap.38. Of Painting the Face, &c. 335

VII. To take away wrinkles from the Skin.

Take oil of Almonds, lees of oil Olive, and make them into an ointment with wax, powder of Camphire and Massich, with which anoint. Oil of Myrrh to anoint with, is eminent in this case : or wash with a decoction of Briony roots and figs of each alike : or dissolve Gum Tragacanth in Lac Virginis, and wash with that. Excellent good is a strong decoction of Pomegranate pills in White-wine, to wash often with.

VIII. To take away Warts.

0.4.

it the

niten minen

difo!-

tickat

haptir

citian

to not

the tor

tacion.

artar.

e laft

war of

ive and

125

d-wine

ig and

IT days

not in-

Inetick

nisoint-

Alom

whites

rathers,

A DIX

VII

The juice of the greater Spurge with Salt anointed, takes them away, fo alfo a continual walking with a Lixivium of Quicklime and Salt of Tartar. The juice of Verrucaria performs the fame. A plaifter of Cantharides with a defensative is very good in this cafe: fo alfo this following wafh: take Sacebarum Saturni three ounces, Sal Armoniack one ounce, Vitriol common fix drachms, Quicklime eight ounces, boil all in water four pound to the confumption of the half, with which often bath the warts, and then wafh with our Mercurial water. Black Soap hath often been found very good; but efpecially a plaifter of Turpentine.

IX. To heal Chaps in the Skin-

Our Pomatum in this cafe is most excellent : yet this following is commendable, Take Capons-griefe mixed well with Camphire, and anoint with. Oil of Turpentine two drachms, mixed with Unguentum Populeon two ounces, is very good. So also oil of Roses mixed with Sheep Suet and wax to an ointment.

X. To beal Burnings and Scaldings.

Excellent good is the Unguentum Rubrum in our Synopfis Medicina lib. 3. cap. 58. Sect. 1. both to draw out the fire, and to heal. To draw out the fire allo, glair of eggs mixed with Rofe water, is very prevalent:

1

10

Ch.39

STOP

here with

be faid

goodit

plieda

of My

taplafm

211: 31

Oftent

or Pom

Lack

Waysa

and Or

uled, at

I A

ftempe

li

Lang

T

tint

Ward

allay

plio.

J 47 1

What

xill.

fo alfo is Salt, raw Onions, Soap, Yeft, Oil of Tartar and the like. To hinder the rifing of the blifters, Hens dung three ounces . mixed with hogs griefe four ounces, and Salt of Tartar one ounce is very good ; fo alfo a cataplaime of Honey and crums of bread ; but beft of all a plaifter of ftrained Opium, which performs all the intentions to admiration. If the blifter break, it may be prefently skinned by anointing with oil of eggs, and washing often with Lae Virginis, strewing upon the fore powder of Bole, Tutty, Cerufe or the like.

XI. To take away fears and marks of the Small Pox.

Take of oil of Tartar one ounce and half, Cerufe diffolved in oil of Rofes one ounce, Borax and Sal Gem of each one drachm, mix and make an ointment, with which anoint. Oil of Tartar alone performs this work well: fo Salt of Tartar, mixed with powder of Mirrh and oil of Rofes.

XII. To beautifie the Hands.

335

To make them foft, often anoint with the oil of Almonds or our Pomatum at night going to bed, wathing them the next morning with decoction of wheat-brant after a while wash them with Salt of Tartar, disfolved in fair water, perfumed with oil of Cloves, Oranges, Rhodium or Cinnamon. Or this, take Venice Soap diffolved in juice of Limons one pound, Virgin-honey four ounces, Sublimate, Orice root, Sugar, Salt of Tartar. Alom, Borax of each one ounce, Balfom of Peri two drachms, oil of Cloves one drachm, oil of Rhodium and Cinnamon of each half a drachm, make a mixture to wash the hands withal : Or this, take powder of Venice Soap one pound, Orice root eight ounces, Amylum fix ounces, mix them and make an ointment with liquid Storax and oil of Benjamin a fufficient quantity ; it wonderfully whitens, fmooths and weetens

Ch.39. Of making a sweet Breath. 337

0.4

ttar

tiens

lour

dibet.

1 05-

DATE

ithed

icwing.

or the

12.

Grafe

Sal Gent

with

WOIK

Minh

of Al-

valhing

t-bran:

Folred

atges,

Soap

honey

salt of

of Pers

of Rho-

make a

ic pow-

ht cun-

an oint-

fifi-

15 and

rettens

fweetens the hands. To anoint also with a Bulls gall is very good.

XIII. To help hands which are swoln, and look red or blew with cold.

What we even now faid (in the laft Section) may be faid again here: to which we add, that a long bathing of them in a lather of Caftle Soap, is very good it it be done: or if a repercuffive plaifter be applied made of barley meal, Saccharum Saturni, and oil of Myrtles; walking (after the coming off of the Cataplaime) with juice of Limons or white wine Vinegar: a plaifter of Turpentine mixed with Salt is good. Often to anoint the hands with oil of Rofes, Almonds, or Pomatum at night, and the next morning with the Lac Virginis prevails much. Oil of Annifeeds, Caraways and Fennel prepared chymically, as alfo Cloves and Oranges, mixed with oil of Almonds and often ufed, are eminent above all other things.

them in white wine vinegar for a Corrarillen. Leolly, marning, no XIXXX ght **P** A, H Das with good red Winey by this means the ree i will be failined and

Alverb. Pomeranate peets of

Of making a freet Breath. To colle said

I. A Stinking Breath comes from one of these four causes, viz. putrified Lungs, defective Teeth, a distemper of the Head, or obstruction of the Stomach.

11. To remedy a Stinking Breath coming from putrified Lungs.

Take Unguentum Nicotiane one ounce, Oleum Succini two drachms, mix them and anoint the breaft outwardly; inwardly give cleanfers, (as oil of Sulphur allayed with Rofe water) morning and evening; as alfo Antimonium Disphoreticum ten grains five times a day

338 Polygraphices.

day for feveral days together; then heal by giving oil of Almonds mixed with a few drops of oil of Cinnamon, or Pills of Turpentine: Laftly, morning, noon and night let this bolus be adhibited, take Nutmegs, Mace, Ginger, of each fifteen grains, honey two drachms, oil of Cinnamon ten drops, mix them, and continue it for fome weeks. Ch.39

with th

diffolve

IV.

Con rifes fr

low th

and th

will for

ing pi

made b

in war

ounce

tanee

third.

Y.

fin of

Thi

thus.

of Pil

firft V

accord

take P.

ingfall

drick,

hretin

VI.

tosti

C

drink

the wi

C85. 0

hume

Lib.4.

III. To help the defects of the teeth.

I. If the teeth be furred over, rub them every morning with cremor Tartari in powder, and walh them with White-wine. 2. If the teeth be black; allay oil of Sulphur or Vitriol in Role water, and fcowr them well therewith, with the end of a flick and a rag, till all the blackness be gone; then rub them with oil of Almonds perfum'd with cil-of Cinnamon. 3. If the teeth be losfe, first rub them with this powder, take Galls, Pomgranate flowers, Sumach, Cyperus, of each one ounce, Roch Alom half a pound, powder them all for use : then use this Gargarisme. Take Galls one ounce, Myrrh, Pomgranate peels of each half an ounce, boil them in white wine vinegar for a Gargarifm. Laftly, morning, noon and night walk the guins with good red Wine; by this means the teeth will be fattned and the gums reftored. 4. If they be in danger of rotting ; take ashes of Harts-horn, magistery of Corral of each one ounce, musk, or inftead thereof oil of Cinamon, ten grains, mix for a dentifrice to rub the teeth withal, it will keep them white and found. 5. If they be rot ten and hollow; make little pellets of strained Opium, Myrrh and oil of Cinnamon, and put them into the hollow tooth. 6. If they ach; use the aforefaid pellets, or make little ones of Laudanum Paracelfi, and put them into the hollownefs: or if they be not hollow, tyca little pill of the same up in a fine thin rag, and hold it between the aking teeth. 7. If they flink; often wath

Ch.39. Of making a sweet Breath. 339

10.4.

18 oil

.Inna.

noon

megs,

TWO

in, and

norming

D with

of Sul-

1 well

alithe

fionds

titte de

Pon-

unce,

ule:

unce,

e, boil

Laffly,

h good

sting ;

feach

mon,

vithal,

be tit

)pium,

nto the

pellets,

ad put

allow,

6, and often

Walk

wash them with wine or spirit of wine, in which a few drops of oil of Cinnamon and adeps Rosanum is diffolved.

IV. To rectify a Stinking Breath arifing from distemper of the head.

Confider the cau e of the diftemper, whether it arifes from the Pox, Imposthumes, or the like, and follow the method inftituted in the cure of those difeases, and then the cause being taken away, the effects you will find will soon cease; yet nevertheless these following pills are excellent : take *Calx* of refined Silver made by spirit of Nitre, and well dulcified by washing in warm rain water, one ounce, *Refine Scammonii* one ounce and half, mix them for a mass of pills, of which take eight or ten grains at night going to bed every third, tourth or fifth day.

V. To reciifie a Stinking Breath arifing from the obstruclion of the Stomach

This is done by opening and cleanfing the Stomach thus. Take every morning going to bed half a drachm of Pil. Ruffi for ten or twelve days together: or thus, first vomit with Vinum Benedictum one Cance or more, according as Strength requires, twice or thrice; then take Pilule Rudit half a drachm at a time, in the morning fasting, drinking after it fome warm broth or poffer drink, which repeat every third or fourth day four or five times.

VI. To reclifie the Breath, when it smells of any thing that is eaten.

Chew Coriander feed or Zedoary in the mouth, drinking a good draught of wine after; the fcent of the wine is taken away by eating four apples or Quinces, or by chewing troches of Gum Tragacanth perfumed with oil of Cinnamon.

CHAP.

Chap.

cunce an

boil all f

quill the

after W

atorela

do the

ber to a

from en

an ointr

frade,

V.

Wa

lime, t

oilath

with fw

cap: it

fintuit

be per

the ha

VL

Ano

with of

it after

VIL

Diff

witht

it will VII

An cil of

lerve of Ho

ai manufed agaba C H A P. XL.

Of beautifying the Hair.

I. O Dye the Hair black.

This is done with the Calx of Lime (made by Spirit of Nitre) mixed with fair water, and the hair washed therewith, with a Spunge: it is the most excellent thing of that kind that is yet known.

II. To keep the bair from falling off.

white or low to wine in which a

Take Myrtle berries, Galls, Emblick Myrobalans of each alike, boil them in oil Omphacine, with which anoint : it is an excellent Medicine, yet as old as Galen.

III. To remedy Baldness.

This is a hard thing to cure, yet the following things are very good. Rub the head or bald places every morning very hard with a coarfe cloth, till it be red, anointing immediately after with Bears greife: when ten or fitteen days are paft, rub every morning and evening with a bruifed Onion, till the bald places be red, then annoint with honey well mixed with Mustard-seed, applying over all a plaister of Labdanum mixed with mice dung, and powder of Bees : do this for thirty days. If all the formor tail, bath with a decoction of Bur-dock roots, made with a Lixivium (of Salt of Tartar) two parts, and muskadel one part ; immediately applying this Unguent : take Thapfi or Turbeth one drachm (in powder) bears griefe one ounce, mix them, which use for fixty days; if this make not the hair come, the detect is incurable.

IV. To take away bair from places where it should not grow.

Take Quicklime four ounces, Auripigmentum one ounce

Chap.40. Of beautifying the Hair. 341

ounce and a half, Sulphur vive, Nitre, of each half an ounce, Lixivium of Salt of Tartar a quart, mix and boil all fo long in a glazed earthen pot, till putting a quill therein, all the feathers peel off, and it is done. Firft foment the place with warm water a little before you use the aforefaid medicine; a quarter of an hour after wash with very hot water; then anoint with the aforefaid Unguent, and in a quarter of an hour it will do the work: when the hairs are faln away, remember to annoint with oil of Rofes; now to keep them from ever growing again, anoint for fome days with an ointment made of the juices of Henbane and Nightschade, Opium and Hogs griefe.

V. To make the bair curl.

ib.4.

(made

inchair

ft excel-

lans of

which

SGalen.

things

every

pe red,

when

ng and

laces be

th Ma-

distant

do this

ha de-

.m (of

part i

bapfior

le one

ifthis

214 7.3

100C

00000

Wash the hair very well with a Lixivium of Quicklime, then dry it very well, that done anoint it with oil of Myrtles, or oil Omphacine, and powder it well with sweet powder, putting it up every night under a cap: if the party be naturally of a cold and moist confitution, the washing, anointing and powdring must be perpetually used once or twice a week during life, the hair being put up every night.

VI. To make bair lank and flag that curls too much.

Anoint the hair throughly twice or thrice a week with oil of Lillies, Rofes, or Marth mallows, combing it after it very well.

VII. To make the bair grow long and foft.

Diffil Hogs griefe or oil Olive in an Alembick with the oil that comes there-from anoint the hair, and it will make it grow long and foft : use it often.

VIII. To preferve the bair from Splitting at the ends.

Anoint the ends thereof, with oil Omphacine, or oil of Myrtles, they are eminent in this cafe to preferve the hair from splitting, so also an ointment made of Honey, Bees wax and oil Omphacine or Bears griefe. CHAP.

Chap.

III. T Carrawa

the Nut

faveet M der, Hy

V.]

ger, Ci

Orrice

VI.

ballenzo

VII.

Orange

VIII

Labda

Amber

phine

IX.

Rimals,

X. (

Perfun

LT

taria ;;

takena

H

beat r

them w

CHAP. XLI.

Of the Art of Perfuming in general.

I. IN this Art two things are to be confidered, viz. I. The way and manner of making of Perfumes.

2. The way and manner of Perfuming.

342

II. The Perfume it felf is confidered, 1. In refpect of its Form. 2. In refpect of its Composition.

III. The Form of the Perfume is either Water, Oil Effence. Unguent, Powder, or Tablets.

IV. The Making and Composition is taken from the Form and matter.

V. The Matter is either Vegetable, Animal or Mineral.

VI. The way of Perfuming is according to the matter to be perfumed.

VII. The matter to be perfumed is either natural, as Hairs, Skins, Cloaths, Air, &c. or Artificial, as Pomanders, Powders, Wash-balls, Soaps, Candles, and other things of like nature.

CHAP. XLII.

Of the Matter of which Perfumes are made.

I. THE ground of Vegetable Perfumes, is taken from Flowers, Seeds, Herbs, Roots, Woods, Barks and Gums.

II. The chief Flowers for this use, are of Clove-Gilliflowers, Roses, Jasemin, Lavender, Oranges and Saffron.

III. The

Chap. 43. Of the Oil of Ben.

ib.4

red, tiz.

munes;

respect

er, OH

a trom

or Mi-

e mat-

stural,

as Po-

cs, and

sát.

s taken

1, Barks

Clone-

ges and

I. The

III. The chief Seeds or fruits are Nutmegs, Cloves, Carrawaies, Grains, Seeds of Geranium Moschatum, and the Nut Ben.

243

IV. The chief Herbs are Geranium Moschatum, Basil, sweet Majoram, Tyme, Angelica, Rosemary, Lavender, Hysop, sweet Trefoyl, Mint and Bay-tree leaves.

V. The chief Roots are of Calamus Aromaticus, Ginger, China, Caryophyllata, Indian Spicknard and fweet Orrice or Iris.

VI. The chief Woods are of yellow Sanders, Xylobalfamum, Lignum Alos, and Rhodium.

VII. The Barks and Peels are of Cinnamon, Mace, Oranges, Limons and Citrons.

VIII. The chief Gums are Frankincenfe, Olibanum, Labdanum, Styrax, liquid Styrax, Balfamum Verum, Ambergriefe, Styrax Calamita, Benjamin, Amber, Camphire.

IX. The chief matters of Perfumes taken from Animals, are Musk, Zibet, Cow-dung and other turds.

X. Of Minerals there are two onely, which yield a Perfume, and they are Antimony and Sulphur.

CHAP. XLIII.

Of the Oil of Ben.

I. THE little Nut which the Arabians call Ben, is the fame which the Latins call Nux Unguentaria; and the Greeks Balanos Myrepsta; out of which is taken an Oil, of great use in the Art of Perfuming.

II. To make the Oil of Ben. Blanch the Nuts, and beat them very carefully in a mortar, and fprinkle them with wine, put them into an earthen or Iron Pan, and

Chap

1.7

Sande

Rofan

days, t

Water

Storax

meo; and A

torule

14

Take Flower

Clove

twop

tourc

Tax C.

ples al

days, t

Mask

Ш.

Tak Flowe

Savory

each tw

bruile

days, t

Maski

and heat them hot, then put them into a linnen cloth, and prefs them in an Almond prefs; this work repeat, till all the Oil is extracted, fo have you Oil of Ben by expression.

III. In like manner you may express the Oil out of Citron feeds, incomparable for this purpose, to extract the scent out of Musk, Civit, Amber and the like, because it will not quickly grow rank, yet Oil of the Nut Ben is much better.

IV. This oil of *Ben* hath two properties; the one is, that having no fcent or odour of it felf, it alters, changes or diminifhes not the fcent of any Perfume put into it : the other is that it is of a long continuance, fo that it fcarcely ever changeth, corrupts or putrifies, as other oils do.

V. To make a Perfume thereof, put the Musk, Amber, &c. in fine powder thereinto, which keep in a glafs bottle very clofe ftopped, for a month or more, then ufe it.

VI. Or thus, Blanch your Nuts, and brufe them, (Almonds may do though not fo good) and lay them between two rows of Flowers, fuppofe Rofes, *Jafemin*, &c. or other Perfumes; when the Flowers have loft their fcent and fade, remove them, adding fresh ones; which repeat so long as the Flowers are in feason; then fqueez out the oil, and it will be most odoriferous.

VII. Laftly, by this laft you may draw a fweet fcent out of those Flowers, out of which you cannot distil any fweet water.

erristand the Greeks Establish Store Shot out of which is

bears there very carefully in a morner, and sprinkle

PAPS where putches intro all cashier or Iron Pang

Misto make the Off of Ben, Elanon the Nursy und

15116

Chap.44. Of fweet Waters.

CHAP. XLIV.

Of Sweet Waters.

I. He first (weet water.

ib.4

cloth, repeat,

Sun by

tut of

l of the

CORE IS

hanges

nioit:

that it

asother

k,Am-

ep int

mort,

then,

ay them Falemin,

nave lot

honesi

; then

et fcent

ot diffil

HAP.

15.

Take Cloves in powder two drachms, yellow Sanders, Calamus Aromaticus of each one fcruple, Aque Rofarum Damascenarum fifteen pound, digeft four days, then distil in an Alembick; to this new distilled water put in powder Cloves, Cinnamon, Benjamin, Storax Calamita of each one drachm distil again in Balneo; lastly put the water into a glass bottle with Musk and Ambergriese of each ten grains, keep it close stopt for use.

II. The fecond fiveet Water.

Take Damask Rofes exungulated three pound, Flowers of Lavender and Spike of each four ounces, Clove-gilliflowers, and Flowers of *Jafemin*, of each two pound, Orange-flowers one pound, Citron peels four drachms, Cloves two drachms, Cinnamon, Storax Calamita, Benjamin, Nutmegs, of each two feruples all in powder, Aqua Rofarum fix pound, digeft ten days, then diffil in Balneo: to the diffilled water add of Musk and Ambergriefe of each thirty grains.

III. The third Sweet Water.

Take Roles, Clove-gilliflowers of each one pound, Flowers of Rolemary, Lavender, *Jafemin*, Majoram, Savory, Time, of each three ounces, dry Citron peels one ounce, Cinnamon, Benjamin, *Storax Calamita*, of each two drachms, Nutmegs, Mace, of each one drachm, bruife the Herbs and Spices well, digeft in the Sun two days, then diftil in *Balneo*: to the diffilled water add Musk in powder one feruple.

Z

IV. The

Lib.4.

Chap

Tak

water (

Sweet

ounces

Mace.

beaten

Balzes

XII

Tak

Amoer

Suntwo

of this

pertur

2816 41

earthy /

1.7

thethr

1

Tak

eight

a drach

twenty an hou

sil wh

So

346 Polygraphices. IV. The fourth Sweet Water.

Take Cloves, Cinnamon of each one drachm, M. U., Grains, Musk, Ambergriefe, Citron peels of each half a fcruple, Benjamin, Storax Calamita of each one fcruple Aqua Rofarum twelve pound, digeft fifteen days, then diftil in Balneo.

V. The fifth freet Water.

Take Rosemary-flower water, Orange-flower water of each five pound, Ambergriese one scruple, digest ten days, then distil in Balneo.

VI. The fixth freet Water.

Take Rofes two pound, Macaleb half a drachm, Ambergriefe ten grains, bruife what is to be bruifed, digeft in fand three days, then diftil in Balneo.

VII. The feventh freet Water.

Take green peels of Oranges and Citrons of cach four drachms, Cloves half a drachm, flowers of Spike fix ounces, Aqua Rofarum Damascenarum fix pound, digest ten days, then distil in Balneo.

VIII. The eighth fweet Water.

Take of the water at the fifth Section fix pound, Musk ten grains, mix and digeft them for ufe.

IX. The ninth Sweet Water.

Take Aque Rosarum, Aque Florum de Jasemin of cach four pound, Musk one scruple, digest ten days, then distil in fand.

X. The tenth freet Water.

Take Damask-rofes, Musk-rofes, Orange-flowers of each four pound, Cloves two ounces, Nutmegs one ounce, diffil in an Alembick, in the nole of which hang Musk three fcruples, Amber two fcruples, Civet one fcruple, tyed up in a rag dipt in bran, and the white of an egg mixed.

XI. The eleventh fweet Water, called Aqua Nanfa or Naphe.

Take

Chap.45. Of Perfuming Oils. 347

.4.

14

half

TI-

tin,

water diget

chm, ifed,

Feach

pike

und,

wand,

mis of days,

WEIS

es one

hhang

er one

white

man

Take

Take Aqua Rofarum four pound, Orange-flower water two pound, waters of fweet Trefoyl, Lavender, Sweet Majorem of each eight ounces, Benjamin two ounces, ftorax one ounce, Labdanum half an ounce, Mace, Cloves, Cinnamon. Sanders, Lignum Aloes of each one ounce, Spikenard one ounce; all being grofly beaten, digeft a month, then in a glafs retort diffil in Balneo.

XII. The twelfth freet water, called Aqua Moschata. Take spirit of wine two pound, Musk three scruples, Amber two scruples, Civet one scruple, digest in the Sun twenty days close stopped in a glass vessel; a drop of this water put into any other liquor, will very well perfume it

So may you extract the scent out of sweet Flowers, with this difference, that they lie but a little while, because their earthy substance will make the spirit ill savoured.

CHAP. XLV.

Of Perfuming Oils.

I. TO make Perfuming Oils by infusion.

This is taught fully at the fifth Section of the three and fortieth Chapter aforegoing.

II. To make Oleum Imperiale.

Take Ambergriefe four drachms, Storax Calamita, eight ounces, Rofe-water, Oleum Rofatum of each two pound, oil of Cinnamon and Cloves of each half a drachm, put all into a glafs, and digeft in horfe dung twenty days: this done gently boil all for a quarter of an hour, which then let cool; with a fpoon take off the oil which fwims a top, to which put of Musk and Z 2 Ziber

Tolygraphices.

348

Zibet of each two drachms, digeft all in a gentle heat for twenty days, and keep it for ufe. Where note the Amber and Storax at bottom will ferve to make fweet balls of, to lay among cloaths; or beads to carry in ones hands; or for a perfume to burn.

Lib.4.

Chap

Thi

ofani

V.

Iti

pertu

VI

li

perfu

Byi

1.8. 2

VII

T

folve

pound

Soism

IX.

Tal

of eac

OVCI

I M

Mat

IL.

watry saule b

This

III. To make Oil of Cinnamon.

Digeft Cinnamon grofly bruifed in spirit of Wine, sharpned with oil of Salt, in a glass vessel, with a blind head closely luted, in a gentle heat for ten days, then distil in an Alembick as we have more at large taught in our Synopfis Medicine lib. 3. cap. 47. Sect. 1. it is a wondertul Perfume, the most fragrant and pleasant of all Oils, as well in tast as smell: the use of it will certainly take away a stinking Breath.

IV. To make Oil of Rofes, called adeps Rofarum.

Take Damask Rofes, pickle them with Bay falt, and after three months, with a large quantity of water diffil in aftes with a gentle fire fo have you Oil, and Spirit or water, which keep for other diffillations. Weckerus hath it thus.

Rofarum folia in umbra aliquandiu affervata in matula vitrea magna ponuntur, cujus fit fundus latus, & ad dimidium vas impletur : inde affunditur ipfis Rofarum foliis tantum aquæ rofaceæstillatitiæ, quantum satis fuerit, ut optime madeant : appositóque pileo vitreo cæco, stipatisque optime rimis cera gummata, quindecim diebus equino fimo macerantur : sictamen, ut mutato, cùm frigescere cæperit, simo, calor æqualis servetur. Apposito mox matulæ rostrato pileo, igne moderato cinerum, aqua omnis elicitur : quæ rursus in eadem matula, optime prins à fæcibus mundata, eblutáque ponitur, & calentis aquæ balneo lentissimo igne elicitur, dum tota in vas recipiens abeat. Nam in fundo matulæ remanebit oleum rosarum, colore rubrum, perspicuum, & Moschi odore suaviter fragrans.

Chap.46. Of Perfuming Esfences. 349

This is the greateft of all vegetable perfumes, and of an ineffimable value.

V. To make Oil of Calamus Aromaticus.

It is made as oil of Cinnamon: it is a very great perfume, helps a flinking breath, vomiting, weak memory, &c.

VI. To make Oil of Rhodium.

1.4.

heat

tethe

Att

myn

Wine,

blind

, the

taught

16 15 2

int of

Cir-

m

lalt,

ity of

Oil

tilla-

matal 2

ad di-

enfoliis erit, nt urifque

eperit,

roltras: que

undata,

maight

a facada

詞部

This

It is made as oil of Cinnamon; is a very excellent perfume, good for the head, breath and the fenfes.

VII. To make Oil of Indian Spicknard.

By infusion it is made by the first Section; by distillation, as oil of Cinnamon. It is an eminent Perfume.

VIII. To make Oil of Benjamin.

Take Benjamin fix ounces in powder, which diffolve in oil of Tartar and Aquæ Rofarum of each one pound, which distil with a close pipe in an Alembick. So is made oil of Storax and Labdanum.

IX. To make Oil of Storax compound.

Take oil of Ben, or fweet Almonds one pound, Storax grofly beaten four ounces, Benjamin, Cloves of each two ounces, digeft (till the Gums are melted) over hot coals; then prefs out the oil diligently.

CHAP. XLVI.

Of Perfuming Esfences.

I. THe way to extract Essences is somewhat difficult, viz. by Distillation, Calcination, Digestion or Monstruum.

II. If by Menstruum, use not a watry one for a watry effence; nor an oily one for an oily effence; because being of like natures, they are not easily sepa-Z 3 rated

Polygraphices. Lib.4.

Chap

ang dil

Balaeo

perfect

VI

Ca

upon

to red

mont

Way

that w.

month

peatin

draw

what

W

min

of any

TOWS G

17

ound

ound

allto

With

Read

rated; but on the contrary, chuse an oily Menstruum for a watry effence, and a watry Menstruum for an oily effence.

350

III. If the effence of any metal be to be extracted by a corrofive menstruum, after the work is done, separate the falts from the waters, and use only those falts which will be easily taken out again; Vitriol and Alom are very difficult to be separated by reason of their earthly substance.

IV. To extract the effence out of Musk, Ambergriefs Civet, and other Spices or Aromaticks.

Mix the perfume with oil of Ben, which in a glafs bottle fet in the Sun or Sand for ten days, then strain it from the dregs, and the effence will be imbibed in the oil. Then take spirit of Wine, and distilled fountain water, which mix with the said oil, and digest for fix days : then distil in fand; so will the effence and water ascend, (the oil remaining at bottom without any scent) that effence and water distil in *Balneo* in a glass vessel, till the water be come off, and leave the effence in the bottom in the form of oil.

V. Another way to do the fame.

Infuse the matter in spirit of Wine a sufficient quantity, digest and ferment for ten days, then distil in fund, as long as any water will come over (but have a care of burning) which distilled Liquor draw off in *Balneo*, with a very gentle heat. and the quinteffence will be left in the bottom, of a liquid form.

VI. To extract the effence out of Herbs and Flowers, as of Sweet Majoram, Bafil, Orange-flowers, Jafemin, Gc.

Bruife the matter, and put it into a glafs veffel to ferment in Horfe-dung for a month; then diftil in Balneo: fet it in dung for a week again, and diftil in Balneo again; which reiterate fo long as it will yield any liquor; put the diffilled matter upon the Caput morte-

04112 a

Chap.47. Of Perfuming Unguents. 351

0.4.

a oily

telby

parate

le faits

d Alons f their

ergriefs

elals

nan

ibed in

ortix

d wa-

t any

glafs

quan-

have a off in ffence

13-58 0

toftr-

Ballin C

Balato

257 10-

部為

5%

um, diftilling thus for fix days: draw off the water in Balneo; and the effence remaining express in a press = which being a week fermented in dung, will yield the perfect fcent, colour and vertues of the matter defired. VII. To extract the effence out of Salts.

Calcine the Salt, and grind it very fmall, then lay it upon a marble in a moilt Cellar, fetting under it a pan to receive the diffolution; therein let it ferment for a month, then with a gentle fire diffil in Balneo: caft away the infipid water, which comes from it; and fet that which remains in the bottom, to ferment another month, then diffil out the infipid water as before; repeating this work fo long as any infipid water may be drawn: then evaporate away all the moifture, and what remains is the quinteffence of Salt.

Where note 1. That these Saline quintessences as they may be used, will draw forth the perfect and compleat estence of any vegetable what soever. 2. That the essence of Salts thus drawn will scarcely come to two ounces in a pound.

CHAP. XLVII.

Of Perfuming Unguents.

I. TO make Unguentum, Pomatum, or Oyntment of Apples.

Take Hogs Lard three pound, Sheeps Suet nine ounces, brufed Cloves one drachm, Aqua Rofarum two ounces, Pomwaters pared and fliced one pound, toil all to the Confumption of the Rofe water; then firain without preffing, to every pound of which add oil of *Rhodium* and Cinnamon of each thirty drops.

24

II. To

Polygraphices.

Chap.

Mais, a

beyond

II

Gath

or Febr

and fit

vellow

togethe

III.

Tak

pound

Powe

IV.

Tak

halfa

and p

V.

Ta

der ha Cinna mix th YI.

Tak Benjar

them, VII

Way.

Ta

der fi

ofead

half 2

Lib.4.

II. To make a compound Pomatum.

352

Take of the Pomatum aforefaid, (without the oils) four pound, Spicknard, Cloves of each two ounces, Cinnamon, Storax, Benjamin of each one ounce (the Spices and Gums bruifed and tyed up in a thin rag) Rofe water eight ounces; boil to the Confumption of the Rofe water, then add white wax eight ounces, which mix well by melting, firain it again being hot; and when it is almost cold, mix therewith oil of Musk (made by the first Section of the five and fortieth Chapter) then put it out, and keep it for use.

III. Another excellent Ointment.

Take hogs griefe one pound, Saccharum Saturni two ounces, mix them well by gently melting them; to which add oils of Musk and Ambergriefe of each half an ounce, let them all cool, and beat the Unguent well in a mortar, and keep it for ufe.

IV. To make Unguentum Moschatum.

Take hogs griefe one pound, Ambergriefe, Mosch of each one drachm and a half, (ground with oil of Jasemin upon a marble) adeps Rosarum half an ounce (ground with Civet one drachm) mix all together into an ointment which keep for use.

CHAP. XLVIII.

Of Perfuming Powders.

. O make Powder of Oxe dung.

Take red Ox dung in the month of May and dry it well, make it into an impalpable Powder by grinding: it is an excellent Perfume without any other addition; yet if you add to one pound of the former, Musk,

Chap. 48. Of Perfuming Powders. 353

Musk, and Ambergriese of each one drachm it will be beyond comparison.

II To make Cyprian Powder.

1.4.

oils)

the

段)

ICE OF

LINE,

g horis

Misi

minh

Witt

int,

utat

ch of

Cance

gether

1

ry and

ler by

ma,

山

Gather Musk mols of the Oak in December, January or February, walh it very clean in Role water, then dry it, fteep it in Role water for two days, then dry it again, which do oftentimes; then bring it into fine Powder and fierce it; of which take one pound, Musk one ounce, Ambergriefe half an ounce, Civet two drachms, yellow Sanders in powder two ounces, mix all well together in a marble mortar.

III. Another way to make the fame.

Take of the aforefaid powder of Oak-mols one pound, Benjamin, Storax of each two ounces in fine Powder; Musk, Ambergriese and Civet of each three drachms, mix them well in a mortar.

IV. A Sweet Powder to lay among cloaths.

Take Damask-role leaves dryed one pound, Musk half a drachm, Violet leaves three ounces, mix them and put them in a bag.

V. Another for the fame or to wear about one.

Take Rofe leaves dryed one pound, Cloves in powder half an ounce, Spicknard two drachms, Storax, Cinnamon of each three drachms, Musk half a drachm, mix them and put them into bags for ufe.

VI. Powder of Sweet Orrice, the first way.

Take Florentine Orrice root in powder one pound, Benjamin, Cloves of each four ounces in powder, mix them.

VII. Powder of Florentine Orrice, the Second Way.

Take of Orrice root fix ounces, Rofe leaves in powder four ounces, Majoram, Cloves, Storax in powder of each one ounce, Benjamin, yellow Sanders of each half an ounce, Violets four ounces, Musk one drachm, Cyperus

354 Polygraphices.

Cyperus half a drachm, mix them : being grofly powdered, put them into bags to lay amongft linnen : but being fine they will ferve for other uses, as we shall shew. Chap.

drachm

itisex

hair.

XIL

Tak

Benjan

being

hair P

flowa

torthe

French

N

bergri

Perfu

Perfu

II.

Tal

oils of

math

ter that

With

III

Ta

halfa

the wa

IV.

Ta

Lib. 4.

VIII. Powder of Orrice roots, the third way, excellent for linnen in bags.

Take roots of Iris one pound, fweet Majoram twelve ounces, flowers of Rofemary and Roman Camomil, leaves of Time, Geranium Mofchatum, Savory of each four ounces, Cyperus roots, Benjamin, yellow Sanders, Lignum Rhodium, Citron peel, Storax, Labdanum, Cloves, Cinnamon of each one ounce, Musk two drachms, Civet one drachin and a half, Ambergriefe one drachm, powder and mix them for bags. This compofition will retain its ftrength near twenty years.

IX. Powder of Orrice, the fourth Way.

Take Orrice roots in powder one pound, Calamus Aromaticus, Cloves, dryed Rofe leaves, Coriander feed, Geranium Moschatum of each three ounces, Lignum Aloes, Majoram, Orange peels of each one ounce, Storax one ounce and a half, Labdanum half an ounce, Lavender, Spicknard of each four ounces, powder all and mix them, to which add Musk, Ambergriefe of each two fcruples.

X. Pulvis Galami Aromatici compositus.

Take Calamus Aromaticus, yellow Sanders of each one ounce, Majoram, Geranium Moschatum of each one ounce, Rose leaves, Violets, of each two drachms, Nutmegs, Cloves of each one drachm, Musk half a drachm, make all into powder, which put in bags for Linnen.

XI. Another of the same.

Take Calamus Aromaticus, Florentine Iris roots of each two ounces, Violet flowers dryed one ounce, round Cyperus roots two drachms adeps Rofarum one drachm

Chap. 49. Of Perfuming Balfams. 355

0.4.

DOW-

but

ball

excluse

twene

momil

of each

inders,

aram, I two agriefe iscom-

15.

feed,

m A-

re, Sto.

cunce,

rder all

rick of

each

th one

chms,

half a

agstor

oots of

outit,

10 CDC

nam

drachm and a half, reduce all into a very fine powder : it is excellent to lay among Linnen, or to ftrew in the hair.

XII. An excellent perfuming Powder for the bair.

Take Iris roots in fine powder one ounce and a half, Benjamin, Storax, Cloves, Musk of each two drachms; being all in fine powder, mix them for a Perfume for hair Powder. Take of this Perfume one drachm, Rice flower impalpable one pound, mix them for a powder for the hair. Note, fome use white flarch, flower of French Beans and the like,

CHAP. XLIX.

Of Perfuming Balfams.

I. NT Atural Balfam perfumed.

Take Balfamum verum one ounce, Musk, Ambergriefs, Civet of each two fcruples, mix them, for a Perfume: it is the most fragrant and durable of all Perfumes.

II. An odoriferous compound Balfam.

Take of the aforefaid Balfam perfumed one ounce, oils of *Rhodium* and Cinnamon of each two drachms, mix them: this is an incomparable Perfume, and better than the other for fuch as are not affected fo much with musk.

III. Balfamum Moschatum.

Take oil of Musk one drachm, oil of Cinnamon half a fcruple, Virgin wax one drachm and a half, melt the wax, and mix them according to Art.

IV. Another very good.

Take Cloves, Cinnamon, Lavender, Nutmegs of each

Polygraphices. Lib.4.

Ch. 50

IL

Take

vellow

YOU THE

and the

hne po

faid M

dracht

IV.

Ta

pound, megs, (waysh

one di aforel which

V.

You

adding

think

tinctu

that

mouth

the her

frenge

Debly

LOVE M

ficad

namo

each two drachms, oils of Cloves and Rhodium of each half a drachm, Wax three drachms, Musk and Ambergriefe of each ten grains, mix them into a Balfam.

356

V. Another very excellent for those that love not the scent of Musk and the like.

Take oil of Geranium Moschatum (made as adeps Rosarumby the fourth Section of the five and fortieth Chapter) adeps Rosarum, oil of Ginnamon of each one drachm, Virgin wax fix drachms, melt the wax, and mix the oils for a Perfume.

CHAP. L.

Of Perfuming Tablets.

I. TO make red Muskardines or Tablets.

Diffolve gum Tragacanth in Rofe water, fo that it may be as thick as Gelly: which make into pafte with the following composition. Take Amylum one pound, fine Sugar half a pound, Cochenele two ounces, Musk three drachms, all being in fine powder, mix them, and make Tablets with the aforefaid Mucilage of Tragacanth, fquare, long, round, or of what form you pleafe, which dry in an Oven, out of which bread hath been lately drawn: but be fure you dry them till they be as hard as horns.

II. Another fort of red Tablets.

Take of the aforefaid composition one pound, Cloves, Cinnamon, Nutmegs, Ginger of each two ounces, Cochenele one ounce, all being in fine powder, make into Tablets, with the aforefaid Mucilage, and dry as aforefaid.

III. Ia

Ch. 50. Of Perfuming Tablets. 357

III. To make yellow Tablets.

b.4.

each

bar.

-

n (ent

s alige

ortigh

of each

C Wax

er, fo

o palie

SEO 180

unte,

r, mix

n14ge

torm

bread

mtill

ound, h (wo) wder, e, and

II. 14

Take Amylum one pound, fine Sugar half a pound, yellow Sanders four ounces, Saffron two ounces, (or you may dip the Amylum in ftrong tincture of Saffron, and then dry it again) Musk four drachms, all being in fine powder, make the mass into Tablets with the aforesaid Mucilage, adding oil of Cinnamon in drops two drachms, dry them carefully in the state.

IV. Another fort of yellow Tablets.

Take Amylum dyed with tincture of Saffron one pound, Sugar half a pound, Saffron two ounces, Nutmegs, Cinnamon, Ginger of each one ounce, Carroways half an ounce, Musk three drachms, Ambergriefe one drachm, all in fine powder make into Tablets, as aforefaid, adding oil of Cinnamon two drachms; which dry in the fhade, till they be as hard as Horn.

V. To make Muscardines or Tablets of any other colour.

You muft make them after the fame manner, only adding the colour you do intend; and in this cafe we think that it is better that the *Amylum* be dipt in the tincture, and dryed first before you use it. Where note, that these Tablets when used are to be held in the mouth, in which they will diffolve, thereby cheering the heart, reviving the fenses, comforting the spirits, firengthning nature, restoring the body, and indeed nobly perfuming the breath. For them that do not love Musk, you may make them without, using infiead thereof fo much the more oil of Roses or Cinnamon.

Polygraphices. Lib.4.

Chap

caleb

Clove

ounce.

TINT]

Simax

ing in

a mor

II.

Ta

two au

datam

powde

ing the III.

Ta

Anyla

ODC OU

which

IV.

Tak

Macali

der mi

dium o V. 2 Mak laid eg Pods :

CHAP.

CHAP, LI.

358

Of making Pomanders for Bracelets.

I. T He first fort. Take Orrice powder, Cloves, Mace, Cinnamon of each half an ounce, yellow Sanders, Styrax, fweet Affa of each two drachms, Ambergriefe, Musk of each one drachm, Balfam of Peru, oil of Rhodium of each one fcruple, Civet two drachms, all being in fine power (except the Balfam and Oil) mix together, and make into paste with mucilage aforefaid, of which form Beads, drying them in the fhade for use.

II. The fecond fort. Take Storax Labdanum one drachm and a half, Benjamin one drachm, Cloves, Mace, Spicknard, Geranium Moschatum of each ten grains, Musk, Ambergriese of each fix grains; with mucilage make a Pomander for Bracelets.

III. The third fort. Take Damask-Rofe leaves exungulated two ounces, beat them impalpable : Musk, Ambergriefe of each two fcruples, Civet one fcruple, Labdanum one drachm with mucilage of gum Tragacanth, in Rofe-water aforefaid, make a Pomander for Bracelets.

IV. The fourth fort. Take Storax, Benjamin of each an ounce and half, Musk two drachms, oil of Cinnamon one drachm, with Mucilage aforefaid make a paste of Pomander, very excellent.

Chap. 52. Of Perfuming Wash-balls. 359

CHAP. LII.

Of Perfuming Wash-Balls.

I. TO make Barbers Wash-balls.

ib.4.

s, Marz,

OW Sz.

Anbr.

Perry, oil

achms,

d Oil)

linge a-

n in the

one one

Mace,

grains,

icilage

es exun-

Musk,

femple,

Traga-

de for

nin of

oilof

id make

HAP.

Take purified Venetian Soap fix ounces, Macaleb four ounces, Ireos, Amylum of each feven ounces, Cloves two ounces, Labdanum, Annifeeds of each one ounce, Nutmegs, Majoram, Cyprefs-powder, Geranium Moschatum, Camphire of each half an ounce, Storax liquida half a drachm, Musk ten grains, all being in fine powder, with a little fine Sugar, beat all in a mortar, and make them up into Wash-balls.

II. To do the Same another way.

Take of the faid Soap two pound, juice of Macaleb two ounces, Cloves, Orrice of each three ounces, Labdanum two ounces, Storax one ounce, all being in fine powder, mix with the Soap, of which make balls, drying them in the fhadow.

III. To make Balls of white Soap.

Take of white Soap five pound, Iris four ounces, Amylum, white Sanders of each three ounces, Storax one ounce, all in powder, steep in Musk water, of which make paste for Wash-balls.

IV. Another fort very good.

Take of white Soap four pound, Orrice fix ounces, Macaleb three ounces, Cloves two ounces, all in powder mix with the Soap, with a little oil of Spike, Rhodium or the like, of which make Balls.

V. Another way to make them of Goats fat.

Make a ftrong Lixivium of Pot-afhes, as that a new laid egg will fwim thereupon, which boil with Citron peels: take of this Lye twenty pound, Goats fat two pound,

360 Polygraphices.

pound, boil it for an hour, then strain it through a linnen cloth into broad platters of fair water, exposing it to the Sun, mix it often every day till it begins to grow hard, of which you may form balls, which you may perfume with Musk half a drachm, Civet one scruple, oil of Cinnamon ten grains. Cha

V. Tal

加喝

them

fel W

fiirm hard Musi fiirm

hard VI.

Pu

ter a

1

Ta

them,

in por

and

ftano

terme

V

T

make

Tarta

fure.

IX

T

whic

pertu

out t days

V. 10

Lib.4.

CHAP. LIII.

Of perfuming Soaps.

I. TO purifie Venetian Soap.

Cut it fmall, to which put fome Rofe water, or other perfuming water, boil them a while, then firain it and it will be fweet and good, then take off the Soap which fwims a top with a fpoon, and lay it upon a tyle, and it will prefently be dry, being white, free from filth and unctuofity.

II. Another way to do the fame.

Grate the Soap, and dry it in the Sun, or an Oven, powder and fierce it, then moisten it with some sweet water or oil of Spike, which dry again (in the shadow) and keep it for use.

III. To make white musked Soap.

Take white Soap purified as aforefaid three pound, Milk of *Macaleb* one ounce, Musk, Civet of each ten grains, mix them and make all into thick cakes or rouls.

IV. Another kind of Sweet Soap.

Take of the oldeft Venice Soap, which scrape and dry three days in the Sun (putifying it as aforefaid) two pound, *Ireos*, *Amylum* of each fix ounces, *Storax liquida* two ounces, mix them well whilest hot; which put into pans to form Cakes.

Chap. 54. Of burning Perfumes. 361

V. To make foft Soap of Naples.

16.4

a lin-

fingit

grow

aple

e Water,

ile, then

ake of

d lay it

white,

n Oven.

ne iweet

(wedow)

cound,

ach ten

akes or

p: and

refaid)

Storatt which

V. To

Take of Lixivium of Pot-alhes (fo firong as to bear an egg) fixteen pound, Deers Suet two pound, fet them upon the fire to fimper; put all into a glased veffel with a large bottom, fet it in the Sun for a while, ftirring it five or fix times a day with a flick, till it wax hard like pafte. Then take of this pafte, to which put Musked Rose water; keep it eight days in the Sun, ftirring it as aforcfaid, so long as it may be neither too hard nor too foft; then put it up in boxes or pots.

VI. To make the fame Soap, musked.

Put to the faid Soap, Rofe water two pound, fine musk in powder half a drachm, then mix the faid water as before.

VII. Another exquisite Soap.

Take of the aførefaid Lixivium or oil of Tartar per deliquium twelve pound, oil Olive three pound, mix them, Amylum two pound, Roman Vitriol one ounce in powder, Glair of eggs two ounces, put all together, and ftir continually for four hours time, then let it ftand the fpace of a day and it is done. You may perfume it as before; this makes the hair fair.

VIII. Another exceeding the former.

Take Crown-foap, Vine-alhes of each one pound, make it into Cakes with powder of Roch Alom and Tartar of each alike, which you may perfume at pleafure.

IX. To get the juice or milk of Macaleb.

Take the fweet and odoriferous grains of Macaleb, which beat in a mortar (with Rofe water, or fome perfuming water) till it becomes like pap, then prefs out the juice or milk; which use within two or three days left it fpoil.

A 3

CHAP.

No Romain lofe South of Maples. read of as an or C Ha A P. LIV. an egg is insteen pound, 12 ers Suet, two pound, fet

362 Polygraphices. Lib. 4.

Cha

tach t

grains

VI.

Ta of Al

Balla

Ivery

isto

10102

forela

in gla

VII

Ta Lisui

Will

ofTr

1.7

7800,2

beane

guile

1.

T

of ca

III

D

0221

Spiri

hard life patic.

eliniw e and Of Burning Perfumes.

155 8723 Di O make perfumed lights.

Take Olibanum two ounces, Camphire one ounce, beat them into powder, of which make, with wax, balls or rowls, which put into a glafs lamp with Rofe water and lighted with a candle, will give a fair light, and a very good scent. Part to the laid Soon

II. Another for a Lamp.

Take sweet oil Olive one pound, Benjamin, Storax in powder one ounce, Murk, Ambergriefe of each one fcruple, mix all with the oil, which put into a lamp to burn : and the oil will yield a fragrant odour.

III. To make perfumed Candles.

Take Labdanum, Myrrh, Xylo-aloes, Styrax calamita of each one ounce and a half, Willow Charceal one ounce, Ambergreiese, Musk of each ten grains, make them into paste with mucilage of Gum Tragacanth in Rofe water, which make into rouls like Candles, and dry for ule.

IV. A perfume to Smoak and burn.

Take Labdanum two ounces, Storax one ounce, Benjamin, Cloves, Mace of each half an ounce. Musk, Civet of each ten grains, all in fine powder, make up into cakes with mucilage of gum Tragacanth in Role water, which dry; and keep among your cloaths which when occasion requires you may burn in a chafing diff of coals.

V. Another Smoaking perfume to burn.

Take Labdanum two drachms, Storax one drachm, Benjamin, Frankincenfe, white Amber, Xylo-aloes of each

Chap. 55. Of Animal Perfumes. 363

each two scruples, Ambergriese, Musk of each five grains, make all into Cakes as aforefaid.

VI. Another very excellent.

4

COLE

with

With

fair

CTAX

mp

mild

5601

mane

ub in , and

DCC,

lask,

te up

Role

which

ang

ichin,

10:01

ach

Take Storax, Benjamin of each one ounce, wood of Aloes half an ounce, Ambergriefe, Musk, Civet, Balfam of Peru, oil of Rhodium, of each two fcruples, Ivory burnt black a fufficient quantity, powder what is to be powdred, and mix all together; which make into a pafte, with the Ivory black and the mucilage aforefaid; make little cakes and dry them, which keep in glaffes clofe ftopt for ufe.

VII. Another very good, but of less coft.

Take Olibanum one pound, Storax Calamita and Liquida of each eight ounces, Labdanum fix ounces, Willow charcoal a fufficient quantity, with mucilage of Tragacanth, make a paste as aforefaid.

CHAP. LV.

Of Animal and Mineral Perfumes.

I. THe Animal Perfume of Paracellus.

June, and diffil it in Balneo; and the month of May or June, and diffil it in Balneo; and the water thereof will be an excellent perfume, and have the fcent of Ambergriefe. See our Synopfis Medicinæ lib.3.cap.75. Sect.5. II. Lard muskified, a great perfume.

of each half a drachm, mix them well for boxes.

III. The Mineral Perfume of Antimony.

Diffolve Antimony in oil of Flints, Crystal or Sand, coagulate the folution is to a red mafs, put thereon Spirit of Urine, and digeft till the Spirit is tinged; A a 2 pour

364 Polygraphices.

pour it off, and put on more, till all the tincture is extracted; put all the tinctures together, and avaporate the Spirit of Urine in Balneo; and there will remain a blood-red liquor at bottom; upon which put Spirit of Wine, and you shall extract a very pure tincture sinelling like Garlick: digest it a month, and it will smell like Balm; digest it a while longer, and it will smell like Musk or Ambergries. Chap

everal

which

IL

cods

mixed

gethe

the G

III

Xylo-

eachb

Theci

KI, an

IV.

Ca 100

V. Oxe, adulte VI.

Thi

tue an

Ofth

434

LT

Glove

Water

then'l

Lib. 4.

Besides being a perfume, it is an excellent sudorifick, and cures the Plague, Feavers, Lues Venerea, &c.

IV. After the same manner you may make as substantial a perfume of Sulphur or Brimstone. The making of the oil of Flints we have taught at the seven and fiftieth Section of the nine and twentieth Chapter of the third Book.

CHAP. LVI.

Of the Adulteration of Musk, Civet and Ambrgriefe.

BT reason that these choice Perfumes are often adulterated or counterfeited, we shall do our endeavour to discover the cheat, lest any being deceived thereby should suffer loss.

I. Musk is often adulterated by mixing Nutmegs, Mace, Cinnamon, Cloves, Spicknard of each alike in a fine or impalpable powder with warm bloud of Pidgeons, and then dryed in the Sun, then beaten again, and moistened with Musk-water drying and repeating the fame work eight or ten times; adding at last a quarter part of pure Musk by moistening and mixing with Musk-water; then dividing the mass into feveral

Chap. 57. Of Perfuming Cloth, &c. 365

4.

teis

po-

I Ite

put

-113

Indi ind it

rinck,

At an -

if the

this

1

ton-

daltear to baneld

megs like in

to bey

aten 2ª

nd TC-

ling at

vg and

sinto

everal

feveral parts, and rouling them in the hair of a goat, which grows under his tail.

II. Others adulterate it thus : By filling the Muskcods with Goats bloud, and a little toaffed bread, mixed with a quarter part of Musk, well beaten together. The cheat is difcerned by the brightness of the Goats bloud.

III. Or thus, Take Storax, Labdanum, powder of Xylo-aloes, of each four ounces, Musk and Civet of each half an ounce, mix all together with Rofe water. The cheat is difcerned, by its cafie diffolving in water, and its different colour and scent.

IV. Or thm, Take Goats bloud, powder of Angelica roots, Musk, of each alike, make a mixture.

V. To adulterate Civet : Mix with it the Gall of an Oxe, and Storax liquefied and washed : or you may adulterate it by the addition of Honcy of Crete.

VI. To reftore the lost fcent to Musk, or Ambergriefe.

This is done, by hanging it fome time in a Jakes or house of Office; for by these ill scents its innate vertue and odour is excited and revived.

CHAP. LVII.

Of the way of Perfuming Cloth, Skins, Gloves and the like.

I. TO Perfume Skins or Gloves.

L Put a little Civet thereon here and there, (if Gloves, along the feams) then wash in Rofe or musked water four or five times, or fo long as that they favour no more of the leather, prefling them hard every time; then lay them in a platter, covered with the faid water, mixed

Polygraphices. Lib. 4.

266

Cha

maske

dryth

BIZIL

inwh

allgo

fcrup

chain

IV

wint

wee

ofeac

drach

THE

to th

Y

Inoa

L

Whi

bett

tlet

lour

in t

whi

OUn

180

mixed with powder of Cyprefs, a day or two; take them out, prefs them, and dry them in the fhadow : being half dry, befmear them a little with Civet mix'd with oil of Jafemin or Ben, on the inward fide chating them with your hands before a fire, till you think that the Civet hath pierced or gone through the leather; leaving them fo a day or more; then rub with a Cloth that the Gloves or Leather may grow loft; leaving them fo till they are almost dry, being drawn and ftretched out; then hold them over fome burning Perfume to dry, and wetting them again with Musk water, do thus twenty times; laftly, take Musk and Ambergricfe a fufficient quantity, which mix with oil of Jafemin, Benjamin or Ben, diffolve at the fire with a little perfumed water, with which (with a pencil) strike the Gloves or Leather over on the outfide, befmearing the feams with Civet ; laftly lay them for fix or eight days between two mattreffes, to will the Skins or Gloves be excellently perturned.

II. Another way very excellent.

Take three pints of Wine, Sheeps fuet or fat one pound, boil them together in a veffel clofe covered, this done, wafh the Griefe fix or feven times well with fair water, then boil it again in White-wine and Rofe water of each one pound and a half, with a fmall fire, till the half be confumed : then take the faid griefe, to which put pulp of fweet Navews roafted half a pound, boil all in Rofe water half an hour, then ftrain it, and beat it in a mortar, with a little oil of Jafemin and Musk, with which befmear your Gloves (after due wafhing as aforefaid) rubbing it well in by the fire III Another may for Gloves.

Walh new Corduban Gloves, walh them well three or four days (once a day) in good White-wine, preffing and fmoothing them well; laftly, walh them in musked

Of making Ink. Chap. 58.

14.

take

:be-

ix'd

anag

a tat

alines;

Cloth

Saures

D and

g Per-

Water,

LXT-

of 12-

with a

(lions

e be-

or fix

the

at one vered,

with

d Rofe all hre,

12,10

ound,

t, 200

n and

er dae

the fire

Il three

e, pref-

hem in

nusked

musked water, letting them lye therein for a day, then dry them with care. This done, fteep Musk, Amber, Bazil of each one drachm in a quart of fweet water, in which diffolve gum Tragacanth three drachms, boil all gently together, and in the boiling add Ziber one fcruple, with which befmear the Gloves, rubbing and chating it in, then drying them according to Att.

82.67

gacantin, up

Crind Indian

IV. Orthus, First wash the Gloves or Skins in whitewine, then dry them in the fhade ; then walk them in Iweet water, mixed with oil of Cloves, and Labdanum of each alike : lastly, take Musk, Civet, Ambergriefe of each the quantity of fix grains, oil of Musk half a drachm, mucilage of gum Tragacanth fifteen Igrains, mix them well together in a mortar, which chafe into the wash'd Gloves before the fire.

V. Cloths, Linnen or Woolen, Coffers, Trunks and the like, are best perfumed (with little cost) with the Imoak of burning Perfumes. Diffolve Verdigrista in Vinca

CHAP. LVIII.

Of making various forts of Ink. wolg to

TO make good black writing Ink. 1.

Take ponderous galls three ounces in powder, White-wine, or in place thereof rain water, which is better, three pound, infuse them in the Sun or in a gentle heat two days : then take Roman Vitriol well coloured and powdred, which put therein, and for all in the Sun for two days more; thake all together, to which add of good gum Arabick in little bits one ounce, with a little white Sugar, which diffolve over a gentle fire. II. 20

Chap

totake

freh g

ufe. V

VII

Th

Varni

thick

than

the fa

OFOIL

ner at 1

IX.

Gr

Van

X. Gri

feed of

you ma

faid Li

LT

tine t

oil O

Pentin

them

II.

Th

to

Lib. 4.

II. To make red writing Ink.

368

Take Raspings of Brazil one ounce, white load, Alom, of each two drachms, grind and mingle them, infuse them in Urine one pound, with gum Arabick eight scruples.

III. Another way to make red Ink.

Take Wine-vinegar two pound, Rafpings of Brazil two ounces, Alom half an ounce, infuse all ten days; then gently boil, to which add gum Arabick five drachms, diffolve the Gum, strain, and keep it for use.

IV. To make green Ink to write with.

Make fine Verdigriefe into passe with strong Vinegar, and infusion of green galls, in which a little gum Arabick hath been disfolved, let it dry, and when you would write with it, temper it with infusion of green Galls aforefaid.

V. Another way to make green Ink to write with.

Diffolve Verdigriefe in Vinegar, then strain it, and grind it with a little honey and mucilage of gum Tragacanth, upon a porphyry stone.

VI. To make blew Ink to write with.

Grind Indico with honey mixed with glair of eggs or glew water, made of Ifinglass disfolved in water, and strained.

VII. To make red writing Ink of Vermilion.

Grind Vermilion well upon a porphyry ftone, with common water; dry it and put it into a glafs veffel, to which put Urine, fhake all together, let it fettle, then pour off the Urine; and putting on more Urine, repeat this work eight or ten times, fo will the Vermilion be well cleanfed; to which put glair of Eggs to fwim on it above a fingers breadth, ftir them together, and fetling abstract the glair: then put on more glair of eggs, repeating the lame work eight or ten times alfo,

Chap. 59. Of makeing Sealing Wax. 369

to take away the scent of the Urine: lastly, mix it with fresh glair, and keep it in a glass-vessel close stop'd for use. When you use it, mix it with water or vinegar.

VIII. To make Printers black.

. 4.

, A-

hin-

Brazil days ;

i five

it for

Vine-

gum

Th you

Tttn

and

T13-

teggs r,and

with

el,10

then

10-

ins.

wim

and

ird

山

10

This is made by mingling Lamp black with liquid Varnifh, and boiling it a little, which you may make thick at pleafure. You must make it moister in winter, than in Summer; and note that the thicker Ink makes the fairer letter,

If it be too thick, you must put in more Linseed oil, or oil of Walnuts, so may you make it thicker or thinner at pleasure.

IX. To make red Printing Ink.

Grind Vermilion very well with the aforefaid liquid Varnish or Linseed oil.

X. To make green Printing Ink.

Grind Spanish green with the said Varnish or Linfeed oil as aforesaid: And after the same manner, may you make Printers blew, by grinding Azure with the said Linseed oil.

CHAP. LIX.

Of making Sealing Wax.

I. TO make red Sealing Wax.

Take white Bees-wax one pound, Turpentine three ounces, Vermilion in powder well ground, oil Olive, of each one ounce, melt the wax and Turpentine; let it cool a little, then add the reft, beating them well together.

II. To do the same otherwise.

This is done by taking away the Vermilion and adding

370 Polygraphices. 1. 2 Lib. 4.

Ch.6.

to be

II.

letting

Aux 1

cover

groun

Pearls

them

dy the

them

OF HE

glair

anda

With

tooth,

Parchi

water it wa a fine of Par

thus t

fo that ing co

V.

a Cru glair

them

again

VI

glafs

物灯,

ta

ding inftead thereof red Lead three ounces, to the former things.

III. To make green Wax.

Take Wax one pound, Turpentine three ounces, Verdigriefe ground, Oil Olive of each one ounce, complete the work by the first Section.

IV. To make black Wax.

Take Bees Wax one pound, Turpentine three ounces, black earth, Oil Olive of each one ounce, mix and make Wax as aforefaid.

V. To make Wax perfumed.

This is done by mixing with the Oil Olive aforefaid, Musk, Ambergriefe, or any other eminent Perfume, as oil of Cinnamon, *adeps Rofarum*, or the like one drachm, more or lefs, according as you intend to have its fcent extended.

VI. After the fame manner you may make Sealing wax of all colours, having what fcent you pleafe; by mixing the fcent intended, with the Oil Olive, and putting the colour in, in place of the Vermilion.

CHAP. LX.

Of the various ways of making Artificial Pearls.

I. The first Way. Diffolve mother of Pearl in spirit of Vinegar, then precipitate it with oil of Sulphur per Campanum (not with Oleum Tartari, for that takes away the splendor) which adds a lustre to it; dry the precipitate, and mix it with whites of eggs; of which mass you may make Pearls, of what largeness you please, which before they be dry, bore through with a filver Wire, so will you have pearls scarcely

Ch.60. Of making Artificial Pearls. 371

2.4.

for-

TUS.

W.L.

C 0/29-

UX and

afores

t Per-

ne lake

send to

caling

; by

d put-

earts.

afpirit

oil of

ari, for

fre to

of eggs

genels

hrough

Kantely

10

to be difcerned from those which are truly natural,

II. The fecond may. Take Chalk, put it into the fire, letting it lye till it breaks; grind it impalpable, and mix it with whites of eggs, of which form pearls, boring them as aforefaid; dry them, then wet and cover them with leaf filver.

III. The third way. Take prepared Crabs-eyes, ground into impalpable powder, and with glair make Pearls; which bore, as aforefaid; dry them, and boil them in Cows milk; then in the fhade (free from duft) dry them well; they will pleafe.

IV. The fourth way. Take potters carth, and make them of what form you pleafe ; dry them in the Sun, or in the gentle heat of a furnace ; then wet them with glair of eggs, lightly coloured with Bole armoniack, and cover them with leaves of filver, being firft wet with water : when they are dry, polifh them with a tooth, and they will be Oriental. Then take bits of Parchment, and walh them in warm water, till the water grows fomewhat thick, boil and firain it, and use it warm : then fasten each pearl through its hole upon a fine piece of wire, and plunge them into the water of Parchment, taking them out again ; then turn them round, that the glewy liquor may equally cover them : thus the filver whitenefs will the better thine through, fo that the pearls will feem to be truly natural, and being compared, will rather exceed.

V. The fifth way. Calcine Muscle and fnail shells in a Crucible, till they are very white, even as fnow; with glair make Pearls, which bore by the first Section, dry them in the Sun; dip them in red wipe, dry them again, and they will be fair.

VI. The fixth way. Take Sublimate two ounces, Tinglass one ounce, mix them, and sublime them together, and you will have a sublimate not inferiour to the

372 Polygraphices. Lib. 4.

the best orient Pearls in the world, of which with glair, you may form what you please.

VII. The feventh way. Take any of the aforefaid particulars, and mix them (inftead of glair) with ground Varnifh, (made of gum Anime, and the Alcool of wine) of which make pearls; thefe will in all refpects be like the natural; for thefe will no more diffolve in water, than the truly natural; which all those that are made of glair of eggs are unavoidably subject to.

VIII. The eighth way. After diffolution, precipitation, edulcoration, ficcation and formation, put the pearls into a loaf of bread, and bake it in the Oven with other bread, fo long till the loaf is much burnt, then take them out, and wafth them, first in good juice of Limons, then in clear Spring water; and they will be as fair as the truly natural. Or after baking, give them to pidgeons to eat, keeping them clofe up, and in the dung you will find the pearl exceeding fair: where note, you must give the pidgeons nothing to eat in three days time.

IX. The ninth way. After diffolution of fmall oriental pearls in juice of Limons, make the form thereof with clarified honey, moistning your hand with Aqua Mellis; this done, perfect them as before.

X. The tenth may. Take filtrated juice of Limons, powder of pearl, of each fix ounces, Talk one ounce, put them into a glass, and ftop it close, fet it fifteen days in horfe-dung, and it will be a white pafte; of which form pearl, bore them, and dry them in the Sun; at last in passe of barley meal (viz. a barley loaf) four fingers thick, flick the pearl, fo that they may not touch, ftop the holes, and cover them with passe; fet it into an Oven, and bake it with bread, and you will find them hard and clear.

XI. The

Chap.

XL.

matter 1 Quickfi

well a

then di

and the

feed of

XIL

pared

much a

ftand fo

flopped

when i

[pirit o

three '

tillall

or frail

thispafi

dars; a

the firl

tor cig

ger wil

place,

they w

XII

the man

clean h

diffiller

Ver,and

be fair

XIV

Acust

inag

cy, w

throug

Chap. 60. Of making Artificial Pearls. 373

1.4.

glair,

did

脑

就4.

ling

mort

Hs dai

idably

ipita-

at the

Oven

ournt,

d juice

will

give

and

tair:

ing to

nall o-

there-

with

mons,

hifteen

te ; of

in the

barley

at they

m with

bready

I. The

XI. The eleventh way. Having formed them of the matter intended, bored and dryed them, put them into Quickfilver, fet over a glowing heat, fiirring them well about, that the Quickfilver may flick to them; then dip them into glair of eggs, upon a glowing heat, and they are done: or being dry, boil them in Linfeed oil, and wash them in warm water.

XII. The twelfth way. Take pearl three ounces, prepared Salt one ounce, filtrated juice of Limons, fo much as will cover them four fingers breadth : let it ftand to long till it be a pafte; the glafs being very clofe ftopped, fhake all together five or fix times a day; and when it comes to a paste put it into a glass with strong spirit of Vinegar, lute another glass over it; digeft it three weeks in a cool place under the earth, fo long till all be diffolved, then mix it with a little oil of eggs. or fnail water, till it be like pearl in colour; then put this paste into filver moulds and close them up for eight days; after which take them out, and bore them by the first Section, and put them again into the mould for eight days; this done, boil them in a filver porringer with milk; laftly, dry them upon a plate, in a warm place, where neither wind nor dust may come, and they will be much fairer then any oriental pearl.

XIII. The thirteenth way. After the preparation of the matter in juice of Limons, or Aqua fortis, with clean hands make them into passe, and wash them in distilled water, which put into edulcorate calx of filver, and digest in Horse-dung for a month, so will they be fair any very oriental.

XIV. The fourteenth way. Diffolve the matter in Aqua fortis (which let over-top it a fingers breadth) in a glafs gourd, till all be incorporated into one body, which put into filver moulds, which have holes through them, and having flood one day, bore them through

374 Polygraphices. 0.0 Lib. 4.

Ch.61

allorer

aforefai

if need b

and wat

1.10

HAL I

Abrie

18-60

T

II.

titer, hi

the Va

in ver, ar

IL

naber,

IV.

Allom,

V.

Lazali

VI.

things

Metals,

bale : 1

of the

VII.

giving

which

KUT;

CUTY OF

VIII

through the holes, as they lie in the mould with a filver needle: being quite dry, take them out, put them into a glafs clofe covered in the Sun, till they be quite dry, then put them upon a filver wire; and let them lye covered in their own fat, (that is that fatty fubftance, which fivings on the top of the menftruum in their diffolution) fo long till they are very fair, then being ftrung, put them into a glafs egg, and let them ftand nine days in digeftion, and they will be as fair as the natural.

XV. The fifteenth way. Take Tobaccopipe clay, of which form little beads (by Sect. 14.) dry them in the Sun, and burn them in a potters turnace, then cover them with Bole-Armoniack, tempred with whites of eggs; being dry, dip them in water, lay on leaf filver, which dry again, and polifh them with a tooth : then take clean thavings of parchment, cut fmall, and wathed well with warm water; boil them in a new pot, with a flow fire, till they become fomewhat thick, firain it, and being warm, put in the pearl upon a needle or fine wire, that the hole may not be ftopped, take them out, turn them round, that the water or glew may not fettle in one place, dipping them fo often (drying them every time) till they be thick enough, and they will appear full as fair as the the matter in juice of Limons, or Aqualarutan vint

XVI The fixteenth way. Take the impalpable and how-white calx of Talk; and with our best Vernish make a past; of which form pearls, and bore them with a filver wire, on which let them dry: this done make a mixture of the Alchool of the incomparably pure red diaphoretick mercury, calx of talk aforefaid, shell gold and filver (in Lib. 2. Chap. 21. Sect. 1.) in a just and due proportion (as by many tryals you may find out) in which roul your pearls till they be all

Ch.61. A brief discourse of Metals. 375

3.4.

afil-

Dem

wite.

tim

ty the

through ry fain, and let

illbes

e clay,

them

e, then

d with

er, hy

n with

nt, cut

them

lome-

ne pearl

not be

that the

dipping dey.be

asthe

ple and

Vernilh

te them

is done

parably

ior faid,

Sell. I.)

valsyou

they be

2

all over perfectly covered, then vernish them with our aforefaid vernish, which let dry according to Art, and if need be polish with the impalpable pouder of Putty and water.

Copper, and Low LXL all P. A. H. De telt by firrang

Abrief discourse of Alchimy, and first of Metals in-General.

I. THe Mineral Kingdom is divided into Metals, Semi-metals Salts and Stones.

II. Metals are in number feven, viz. Saturn, Jupiter, Mars, Sol, Venus, Mercury and Luna, called by the Vulgar Lead, Tin, Iron, Gold, Coper, Quickfilver, and Silver.

III. The Semi-metals are Antimony, Tin-glass, Cinnaber, and Zink.

IV. The Salts are chiefly Vitriol, Sulphur, Arfnick, Allom, Nitre, Borax and Salt.

V. The chief Stones are Lapis Calaminaris, Tutia, Lazuli, and Lime fione.

VI. Now out of these the Alchymist designes three things, to wit, 1. Either the Counterfeitig of the fine Metals. 2. Or the seperation of fine Metals out of the base: or, 3. The Generation of the fine Metals out of the base by transmutation.

VII. The counterfeiting of the fine Metals, is done by giving the colour, and body, of a fine Metal to that which is bafe: as the tinging of Lead into a Gold Colour; the whiting of Copper; the reduction of Mercury or Quick-filver.

VIII. The Separation of fine Metals out of bale, is done

376 Polygraphices. Lib. 4.

done by attracting of the particles or Atoms of the fine (contained in that bafer) into one heap or mafs, that they might not be carryed away by the wings of the Volatile or bafer Metal. Ch

B

men

(be

fine

10

den

als

iziid

ad

nu

cale

tion

Salt

I

QUIC

theo

then

68

Thus it appears there is a large quantity of Gold, in Lead, Tin, Copper and Silver : and much Silver in Tin, Copper, and Iron: the proof of this is manifest by the parting fay (as they call it) to wit the test by strong waters; by which you may find that one pound of Lead will yield weer 3 or 4 penny weight of filver, and one of Gold: One pound of Tin will yield something above an ounce of Silver; and about two penny weight of Gold or more ; One pound of Silver will yield about two ounces of Gold; and Copper about a quarter of the Same quantity or more, Oc. but this is according to the goodness of the Metals, and the skill of the undertaker; for by this way of Separation, what is gotten will never pay the cost, it remaines therefore that we fearch out fome way more profitable, the which in the following lines, to the true fons of Art, we thall faithfully present according to the best of our knowledg : But we are bound to be a little the more obscure, for the sakes of some ingrateful men by whom we know our just meaning will be traduced; our skill in Art abused; and our person sught to be rent and destroyed should me but adventure to be so open as to give them the clear knowledge thereof. Let others fearch as we have done, it is some satisfaction that the matter here sought is really in rerum natura; the which joyned to the certainty of anothers attaining thereof, may give life to future hopes, which as the precurfor of better things may point at the great work it felf.

IX. The matter of transmutation is done by that great powder, tinciure, Elixir, or stone of the Philosophers, which according to the opinion of Paracelsus, and others the most learned, we shall signify in few words.

Chap. 62. Of Saturn or Lead.

.4.

of the

mafs,

es of

in in

by the

वार की

Sold or

in 1998

atity or

of the

12.00 8

11 12-

rofisa-

ons of

bet of

in mare

inst St

in Art

letroyed

ben the

re base

(caget

the cer-

ife to fa-

gi may

by that

Philolo-

et stall they

yin tew By By this *tincture or Elixir* according to the judgment of Philosophers the whole body of any Metal (being separated from its impurity) is changed into fine Gold.

377

CHAP. LXII.

F 20 222 12 4

. Of Saturn or Lead.

I. S Aturn is a cold, groß, dull, and heavy body, repleat with much impurity, yet full of a golden feed.

II. It is tinged into a pure golden colour by calcination thereof with Antimony, and imbibing the calx thereof with the spirit of Venus, lapis calaminaris, tutia, and Zink, severally prepared, and mixt ana. and then reduced, adjoyning to every ounce of Lead in calx a penny weight of the golden sulpher of Venus.

III. Its Lunar property is extracted, by a fimple calcination with Arfnick and Nitre ana. and imbibition of the faid calx for about feven days in the Oil of Salt.

IV. Or thus, Take of our Seed or Salt of Luna one ounce, of the Salt of Venus one ounce and a half; of the crude body of Saturn one ounce, mix, and melt them; then feparate, and you fhall have the Saturnizin Luna, with confiderable advantage.

was and hat as Sol. This Son will by fore

A . Cr thur, but fritt this conjunction with

SIDDAR STILL TOL

B b CHAP.

CHAP. LXIII.

Polygraphices.

378

Lib. 4.

Lan

28

hin

and

Wa

tin

Wit

Te

67

拢

425

of

Pb

ma Ve

cid

lau

WH

of in

for

200

of Jupiter or Tin.

I. J Upiter is much a more noble body than Saturn, and (as we faid before) abounds much more with a Solar and Lunar feed.

II. It is reduced into the Imitation of filver by often melting of it, and quenching of it in the fpirit of Arfnick; or by calcination of it with Lime (three ounces to a pound of Jupiter granulated) and then by often extinguishing of the same in the spirit of Arfnick aforesaid.

III. The Luna is extracted out of it thus: Let Jupiter be married to our Luna of the fame stature by the Priest Mercury, after which let them drink their fill of the Mineral Spirit of the Grape; then put them to bed in Taurus the exaltation of Luna and house of Venus and the next morning let them drink very well of the fruitful Wine of the daughter of Luna; this being done you will find Luna like a bride coming forth out of the marriage chamber; but with the wings of an Eugle, which wings you must clip by the means of Mars, elfe you will loofe her : Thus, take of the Seeds of Mars, and of the eldeft fon of old Saturn ana. make them contend with mother Tellas, for three whole days and nights till they conjoyne and beget a Son, white as Luna, and fixt as Sol. This Son will by force take Jupiters wife from him, and being fruitful caufe her to bring forth a plentiful and protitable iffue.

IV. Or thus, Kill Jupiter (in conjunction with Luna)

Chap. 63. Of Jupiter or Tin. 379

Luna) by the fire of Tellus, then revive the dead body (after it is impregnated with the Mineral fpirit of the Grape) by the help of Saturn, and you have a numerous off-fpring of Luna.

V. Or thus, Marry Jupiter to Luna; then marry him to her daughter, and joyne these issues together, and they will sympathetically attract and join all the seed of Luna into one family or lump.

17%

010

of.

01

RC

ECD.

it of

At

by

eir

ntm.

Vo-

of

111-

ngs

YOU

and

COR-

200

te as take

1111

VI. Or thus, Which is both the beft and easieft way. Take *Jupiter* and melt him, then quench him ten times in the *spirit* of mother *Tellus*, till he is reduced very small and low : this done, joyne him with the *Daughter of Luna* calcined with mother *Tellus*, and the work is over. This is very profitable, and the most useful of all, but by reason of the unworthiness of this generation, it cannot admit of any explication.

VII. The Gold is thus extracted : marry Jupiter to Venus, and their off fpring to Sol by the meanes of Prieft Mercury; put them to bed (in the life of Phabus) for three whole days and nights, afterwards make them drunk with the fpirit of the daughter of Venus, then make a perfect conjunction with the eldeft Son of Saturn, and you shall have what you fought.

VIII.Or thus, Calcine Jupiter granulated one pound, with Quick-lime four ounces, mix all with the Calx of Venus and Luna ana. calcine again for three days, imbibe in the spirit of Venus (that is, the fixed oil) for feven days, then reduce to a regulus with Saturn, and afterwards separate with Antimony.

entsi abasy das in B b 2

CHAP.

380

CHAP. LXIV.

Of Mars or Iron.

EO'

qu M G

ki

M

64.0

WB

12

tali

10 8

6

I. 1

all.

calc

ofte

I

I. Mars is yet a more noble body, but harder and more repleat with *fcoria* or filth, yet very full of a Solar and Lunar fulphur.

II It is converted into Copper by the Oil or spirit of Venus: into brass by the means of Lapis Calaminaris, and made to imitate filver by impregnating its cala in the burning spirit of Arsinick.

III. It has much Silver and Gold in it, but they are extracted with great difficulty; thus, first melt the body with an equal quantity of Tin, Lead and Copper; this done granulate it and imbibe the body with Oil of Venus very strong, then calcine it with the butter of Arsnick (if you extract its Silver,) or Antimony (if its Gold) imbibe this calx over a gentle heat in the strongest oil of Flints or Sand for ten days : then reduce it.

CHAP. LXV.

Of Sol, or Gold.

L S O L is the pureft of all Metals, and the very perfection of the Mineral kingdom, at the which, all our pains, labours, and endevours aime.

II. This Gold of its felf is dead and without force or power, but being quickned, and enlivened, it has an

Chap.66. Of Venus, or Copper. 381

an inward feminating germinating property which being raifed and brought forth by its innate life (till now lockt up) can dilate it felf (*baving a fitting womb to receive it*) into an hundred times its own quantity; and thereby *transmute* and *cbange*, the Mercurial property (which is indeed immature Gold) of all Metals into its own nature and kind.

ĉ

10

n¢

13

16

14

eat us:

mit

his

釦

III. This immaturate Gold in the bodys of all Metals would have come to perfection of its own accord, had it been ennobled with a fufficient life and heat, to have caufed fuch a natural fermentation and excretion of the abounding filth and drofs, in which the fo finall particles and Atoms of the Seminal golden property was latent, or buryed.

IV. The quickning of the inward life of this Metal is foly done by the help of the Seed of Metals, to wit Mercury, but how or after what manner we fhall more plainly fhew in Chap. 67.

CHAP. LXVI.

of Venus, or Copper.

I. V Enus is the finest of the base Metals, and containes more of a Golden Julpher than them all.

II. She is Whitned, and made like unto Silver, by calcining it with butter of the daughter of Luna, and Salt of Tartar, and then reduced by Saturn and being often melted and extinguished in the faid butter.

111. Or thus, To the afore reduced Venue, being B b 3 melted

the

thi

m it

60

ing day

if

DI

120

ing 10

per

Polygraphices. Lib. 4.

382

melted add (for an ounce of Venus) two penny weight of our white fixed Mercury.

IV. She is made of a Golden colour by often quenching the calx (calcined with the Son of Saturn) in the spirit of Antimony, Zink, Lapis Calaminaris, and lapis tutia : then reduced by being melted with a sufficient quantity of Lapis Tutia, and ten or twelve times melted, and quenched in the aforefaid spirit.

V. Her Silver is extracted as that of Tin by the third Sect. of Chap. 62. Or thus, Calcine her, with butter of the daughter of Luna, to which calz adjoyne the calx of Luna ana. and reduce with Sa-EUTA-

VI. Her Gold is extracted thus: Caleine her with the Son of Saturn : then calcine Luna with the fame alio: put both these calces together and calcine for three days with the Son of Saturn mixt with Mother Tellus; to which add the Calx of Sol calcined with the same Son of Saturn, ana. put altogether and calcine them for twenty four hours reduce them with Antimony, keep them all in a melted heat for three days, then take it forth, and quench it being melted ten or twelve times in the tinging and fixing spirit of Lapis Calaminaris, Antimony and Zink, ana.

This is very profitable, and not difficult to perform; it may be done also (as before) without calcination.

ML Christer, Lo In stand Its

CHAP.

Chap. 67. Of Mercury, or quickfilver. 383

CHAP: LXVII.

Of Mercury, or Quickfilver.

I. M Ercury is the Seed of Metals, and pure immaturate Gold.

10.

by

1x

3-

th

ΠĈ

Oľ

er

ith

cal-

with

ntet nel-

19

al.

18;

184

AR

II. By this the body of Sol is opened thus: make an Amalgama of Sol and Mercury fo long till the Mercury will fwallow up no more; Seperate and you thall find your Gold like Earth newly broken up: this Gold being put into the fweet oil of Salt becomes more perfectly diffolved, which being deftilled till it comes over the helme will answer your intention: but there is a more noble and excellent way of opening of the body of Gold which, here we may not declare, yet in its due and convenient place thall be manifelt, and that is only by the help of a perfect fweet, or rather infipid menstruum.

III. To make our white Mercury; this is only done by a fimple diffolution in the aforefaid infipid menftruum.

By this white Mercury, is Copper made of a durable white, after a thouland meltings.

IV. To make our red Mercury; this is done by a diffolution in the spirit of Mother Tellus, and then tinged by the mineral spirit of the Grape: and lassly perfectly fixed by the green spirit of Venus. This will perfectly unite with Gold, never more to be separated by all the Art of man.

CHAP.

18 . OE

Chi

paren a lon

ral r poba

Wer

fefs feen

11.ata

Call

1271

West

iden?

til.

Som

bier :

1220

der

Sica.

der

alfo the n

cepti

I,

Th

Bina

Gol

tals

lemi

× 11

line.

T

Lib.4,

CHAP. LXVIII.

384

Of Luna, or Silver.

I. Una, is the meaneft of the fine Metals, and (as it were) white Gold.

II. She is tinged of a Golden Colour by our red Mercury (calcine per se for twenty eight days in a Pelican or other convenient veffel till fuch Tin as the faid Mercury will endure the ftrongeft fire) the yellow colour this Mercury gives is fixed.

III. Her Gald is exactly extracted by the method delivered in Chap. 65. Sect. 6.

IV. Or thus, Calcine her with the Son of Saturn, to which add of our red Mercury, ana. put all into Oil of Salt for ten or twelve days; heat it red hot, and extinguish in oil of Flints or Sand ten times; to this calx add of fine Lapis Intia ana. reduce all and separate with Antimony.

C H A P. LXIX.

Olation in the stored

Of the secret Hermetick Mystery, or great Philo-Sophick Work.

W E cannot be so vain as to pretend to the world that we have attained the knowledg of this great Secret, much less to be the Master thereof, or the instructor of other men: but this we can say, we have converst with most Authors that ever have wrot thereof, we have with a great deal of diligence and study compared

Chap. 69. Of Philosophick Work. 385

pared their fayings one with another; and we have by a long and continued exercife and practice in the Mineral work found out not only the natures of Metals, and in what degrees of purity they stand in one to another; but we have also found out many excellent Secrets, of real Worth and Value, by which, although we cannot profess a knowledge of the great work it self, yet we thereby see not only a probability but also a possibility thereof in nature (to that man whom it shall so far please God to enlighten) and therefore judge we may in some measure the better undertake to discourse the fayings of those Worthys, who having attained the Mystery thereof; thought good in Cloudy and Mysterious terms to publish the same to the world, that none but the truly worthy Sons of Art might be partakers thereof.

ed

1

1.

od

81

い, 10 10

all

is-

bate

nefs

an -

tores

In the following lines then, we fhall tell you what has been told us, and what we do conceive thereof by the comparing of the fayings of the most excellent men together, fuch as were Paracellus, Lullius, Ripley, Bacon, and others; and this in so concise a manner, that the opinions and judgments of all those men (though far afunder in words) may center not only in truth it felf, but also in the narrow compass of the following Sections; the which that we might so perform, we express our conceptions of their sense in a language consonant thereto.

I. The feed of Gold is lodged in all Metals.

This is apparent from their generation, whofe origination is *Mercury* which is indeed immaturate Gold; and fo remaines immaturate in the bafer Metals till ripening and meliorating fpirit quickens that feminal property lodged in the womb of impurity.

II. This seed of Gold may be quickned or made to live.

This is done through the death of the first mat-

ter,

Polygraphices. Lib. 4.

Cha

As

25 a t

great

feme,

ort

tran

the

YOU

rativ

2 1

gene

TOL.

and

itte

2000

YOU .

and a

V

Vela

2 62

thin

ftate,

Istile

the

Tim

a la befo

this

V

0

ter, & disposition of the second to a resuscitation or refurrection of that innate energetical, and seminal life, and that only by the spirit of Mother Tellus.

386

III. This semen being quickned, dilates it self into other bodys, and transmutes them into its own property.

That is just as the seminal life of Vegetables transmutes or changes that fuccus or humidity of the Earth proper to themselves into their own forms and natures; and so of a little seed there becomes a great tree: so that as the Earth is the womb out of which so small a seed becomes a great tree, by the transmuting property of the innate seminal life in the seed: so all the base Metals are the womb unto that seminal purity : in which womb if the seed be disposed rightly there will be as certain a generation and encrease; and the purity of the base Metals will be transmuted into that seminal property to a vast augmentation.

IV. That this may be rightly done, the bodys of the base Metals must be opened and prepared.

That is they mult be brought into a mortification, that that firong band which has hitherto chained the feminal life may be broken, and to the energetick vertue may be fet at liberty: this is performed by the flying dragon who devours all that he comes neer: this being done the femen mult be caft into this mortified body (impregnated with the fpirit of Mother Telue) that it may there generate, transmute, and fix.

V. This may be done in any of the base Metals; but they (like the Earth) yield an encrease according to their degrees in purity; so that more of the body of a pure Metal is transmuted, than of an impure.

Chap. 69. Of Philosophick Work. 387

T

the

IIIS

mes

OUL

the

60-

lbe

ug-

of the

ion,

ince

ntick

d by

123

TOT-

other

1 200

; bat

殿日

start

As

As barren Earth cannot yield so great an encrease as a fertil soil; so neither can a base Metal yield so great an augmentation as a more fine.

VI. The body of the baser Metals being fitted, the femen must be cast into the same to generate.

That is, there is to be a conjunction of the femen or true Golden effence with the prepared body to be transmuted: now you must be careful you use not the simple body of any Metal for this femen, for then you will be deceived; the matter in which the generative spirit is lodged is another thing: if you bury a whole tree or plant in the Earth, that will not generate, and bring forth another tree, but perish and rot, the seminal or generative vertue and life is clog'd and loaded, and so is ineffective; but if you bury the second ing to the quantity of seed fown; the same you must understand in the generation of Metals, and of the Golden work; it is not Gold which will generate Gold, but the seed of Gold.

VII. This semen must be Volatile.

Otherwise it cannot transmute, for nothing but a Volatile spirit or effence can dilate and spread it felf: a fixed matter cannot operate at all, for all fixed things are dead, and their life remains in a central state, not fit for coastion. This is evident in the Volatile Salts of Vinegar and Quick-lime, which surpass the Art of man to attain simple; but if you mix a lixivium of Quick-lime with Uinegar, you may have a large quantity of Salt and that fixed, which was before unattainable. Thus you see out of two Volatile things, a third absolutely fixed is produced; and this is the condition of this great work.

VIII. It must be of an unchangable bloud-red colour. Otherwise it could not ting; for was it only yelow.

388 Polygraphices. Lib. 4.

low, it would create only a faintifh kind of green : but this our Philosophick tincture, generates Gold of the highest and purest nature, and having the deepeft yellow.

IX. This Semen is made Volatile by the destruction of its external forme.

That is nature must be brought to action, that the inactive body may let fall its Semen, out of which the Golden tree of the Philosophers is produced.

X. This Semen is made bloud red by impregnating of it with the Spirit of Mother Tellus.

It is neceffary that there be a common band to conjoine the bodys, which are to be united: as the bodys of the bafe Metals which are the womb for this feed are to be mortified; fo must that body be, out of which you extract the Semen: and as that mortified and prepared body is to be impregnated with the spirit of Mother Tellus so must this Semen, that their may be as well a sympathy and likeness in nature, asa unity in body.

XI. The matter out of which this Semen is to be Extracted is Mercury or Gold.

We mean fimply, and without Metaphor, Quickfilver, and Gold; for if there be an innate life, power and vertue, in the bafe Metals why not in these? if Lead, Tin, Iron, Copper and Silver, contain the Seminal life of Gold, why should Mercury or Gold be excluded, which are the thing it felf?

XII. The Semen being cast into the body prepared for it, is there to be digested, till both be perfectly united, whose simple conjunction is the product of the Golden kingdom.

This digestion is perfected only by the force of an external fire, conjoined with the inward Seminal life.

WTROA.

CHAP,

Cha

Abr

11

Thu

OT ITS

thews

flende

ofar

infim

200 (

Croffe

tion.

IV

towa

them

and H

the R

detein

¥.

fignit

Patie.

of th

Referi

great

the fa

I

Chap. 70. Of Chyromancy.

3

in,

10

tor

be, hat

ted

Elly.

sin

es be

kfil-

and

ed,

nal

clu-

area

調

isz

ofm

ninal

AP.

CHAP. LXX.

280

A brief discourse of Chyromancy, and first of the Line of Life.

I. K Apdianin [Linea Vitalis] The Line of Life is that which includeth the Mount of the Thumb.

II. This Line broad and of a lively colour well or largely drawn without interfections and points, fhews long life and one fubject to few difeafes : but flender fhort and broken or cut with little crofs lines, of a pale or black colour fhews fhort Life with many infirmities.

III. If it makes a good Angle with the Hepatica, and the Angle be adorned with parallels or little Croffes shews a good wit and a pleasant disposition.

IV. This Linea Vitalis abounding with branches towards the upper end, and those branches extending themfelves towards Linea Hepatica foresthew riches and honour, but if those branches descend towards the Restricta they threaten Poverty, contempt, and deceitful servants.

V. If this line be cut with little lines like haires it fignifies difeafes, which if they fall towards the Hepatica thewes in the younger years, in the middle of the line in the middle of the Age, if toward the Reftricta in the latter years.

VI. If this line be any where broken, it threatens great danger of life in that Age which the place of the faid breach betokeneth which you may find out with a great deal of exactnels if you divide the line into

Polygraphices. Lib. 4.

Cha

inlight

theen

IV

feema if un

unde

V

Vita

a Pro

V

ande

Liver

and fo VI

Wit.

VI

tances IX. Mand X.

ward critic thews

ofVen

a rudo

difeal

into feventy equal parts beginning to number them from A towards B.

390

3:44

the way

VII. If the Character of Sol (viz. O) be found in this line, it thews the loss of an Eye, if two fuch figures, the loss of both Eyes.

VIII. A line paffing through this Vital to the Triangle of Mars thews wounds and feavers, and many misfortues in journeying.

IX. A line proceeding from the Vital beneath the Angle it makes with the *Hepatica* to the Mount of Saturn fhews an envious man as alfo fome dangerous Saturnian difease as a Confumption, &c. which shall fall in those years signified by that part of the Vital Line which the faid Line toucheth.

X. But fuch a line paffing from the Vital to the ring finger shewes honour and wealth, and that by means of some noble woman.

CHAP. LXXI.

Of the Epatick, or Natural Line.

I. THE Natural or Liver Line is that which runs from the Life line of Mount of Jupiter through the middle of the Palm terminating generally upon the Mount of Luna.

II. This line fireight continued and not cut by other oblique lines shews a healthy constitution and long life, but short or broken, not reaching beyond the middle of the Palm, signifies a short life compleat with many diseases.

III. The longer this line is, fo much the longer life

t. 1 3

Chap.71. Of the Natural Line. 391

4.

(m

Th-

tha the

int of

ga-

the

to the

at by

-

which

f Jr.

cut by

on and beyond impleat

pi lite

it fignifies, if it be cut at the end thereof, it threatens the end of Life with fome dangerous difeafe.

IV. If any breach appears, (yet such an one as feemes almost continued) it shews a change of life, if under the middle finger, in strength of years, if under the ring finger, in declining Age.

V If the upper part of it be far diftant from the Vital, it fhews manifold difeases of the heart and also a Prodigal person.

VI. If it be crooked, unequal, of various colours, and cut by other lines it shews an evil habit of the Liver and discass thence proceeding, one ill natured and foolish.

VII. If straight drawn and well coloured shews wit, honour, and health.

VIII. If it has a parallel or fifter it gives inheritances.

IX. If continued with little hard knots, it thews Murder according to the number of those knots.

X. If it terminates with a Forke or Angle towards the Mount of Luna, it thews a foolifh, hipocritical, ill natured perfon, if it tends to the Menfal, it thews a flanderous and envious perfon.

XI. When it cuts the Vital eminently to the Mount of Venus or foror Martis, especially if the same be of a ruddy colour shews danger of thieves and many ill diseases, threatning life.

WW. The Consistent continue was and interesting

eleter to also have there y continuing that a

Constanting finews a doub beach mit dependent by a

-HOD on restant of statisticas on the CHAP

Polygraphices. O . Lib. 4.

under the rine fineer, in declining Age.

ing if any HXXII of A H O H O H O

to of the Cephalica or head-line.

estages if it he cut at the end thereof, it threatens

1392

I. THE Cephalica arifeth below from the Cardiaca, and is drawn thence to the Epatica, thereby making a Triangular Figure.

II. Making fuch a perfect figure, and it having a lively colour, without interfection, declares one of great prudence, and a perfon of no Vulgar Wit or Fortune.

much the more Fortunate, and it fhews a man very wife, temperate, and couragious.

IV. If the Triangle be obtule, it fhews an evil nature, clownish and rude, if there be no Triangle it is ftill worse, and shows the person to be foolish, a lier, and prodigal, and generally one of a short life.

V. The bigher Angle being Right, or not very Acute, thews a generous man; but if it be very acute, or if it touch the Line of Life under the mount of the middle finger, it declares a miterable, hard and covetous wretch, it also foreshews a confumption.

VI. The left Angle made upon the Epatica in the ferient (being a right Angle) shews a profound understanding.

VII. The Cephalica casting unequal and irregular clefts to Mons Luna, thereby constituting strange Characters, shews a dull bead, and danger by the Sea, in Men: but in Women discontents, miscarriages and the like.

VIII. But casting equal lines, it prefages the contrary in both Sexes: to wit, in men wisdom, and fuc-

cefs

Chi

afs .

child

upa

ma

dan

ma

Age

Fan

fabi

tol

in

th

Chap. 73. Of the Line of Fortune. 393

· 4.

Car-

WEZ.

noga.

nº of

FOF-

ile, lo

Ray

evil it is

a lier,

active,

d and

in the

d un-

egular

ftrange

he Sch

er and

e con-

CE 5

cefs at Sea, and in Women, contentment, and happy child bearing.

IX. If the Cephalica make a cleft or apparent Star, upward to the Cavea Martin, it shews boldness, and magnanimity of mind: but if it let the same fall downmard, it manifests deceit and cowardife.

X. The Cephalica joyned to the Restricta, by a remarkable concourse, shews a happy and joytul old Age.

XI. But if it be drawn upwards, (in form like a Fork) towards the place of Fortune, it lhews much fubtiley and craft in the managment of affairs.

XII. If in this Fork the Character of \oplus Sors be found, it thews Rickes and Honour, by the mans own industry.

to all the to got the the and the a

CHAP. LXXIII.

Of the Menfal Line, or Line of Fortane.

I. T HE Mensal or Line of Fortune (called alfo Linia thoralis) takes its original from under the Mount of Mercury, and extends its felf towards the Mount of Jupiter.

II. This line if it be long enough and without incifures, flews ftrength of body, & conftancy of minde; the contrary if it be front, crooked or cut:

III. If it terminates under the Mount of Saturn, it shews a foolish, idle and deceitful person.

IV. If in this line be found certain pricks or points, it thews a lecherous person.

V. If the Epatica be wanting; and the menfal be C c annexed

394 Polygraphices. Lib. 4.

annexed to the Vital, it foreshews either beheading, banging or other untimely death.

VI. If from the Menfal, a line afcends to the fpace between the Mounts of Jupiter and Saturn, another to the fpace between the Mounts of Saturn and Sol; and a third to the fpace between the Mounts of Sol and Mercury, it fignifies an envious, turbulent, and contentious perfon.

VII. A little line only thus drawn to the space between the Mons Saturni & Solis, shews labour and forrow.

VIII. If annexed to the Eparica making therewith an acute Angle, the fame.

IX. The Mensal projecting small branches to the Mons Jovis shews honour and glory.

X. But if it be naked or fingle it shews poverty and distress.

XI. If it cuts the Mount of Jupiter, it shews a coveteous mind, and great pride.

XII. If it fend a branch between the Mons Jovis & Saturni, it shews in a Man a wound in his head; but in a Woman miscarriage or danger in childbearing.

XIII. Confused little lines in the Mensal shew fickness and diseases: if under the Mons Saturni in youth: under the Mons Solis in the middle Age: under the Mons. Mercury, in old Age.

XIV. Lastly, If there be no mensal at all, it shews one faitbles, base, inconstant and malicious.

Him this limb be reard, cent and and his or pain

si in ton suit bas exclusive si consel of CHAP.

U DETECTOTION DE LO CHI

TIN

Chap.74. Of Cauda Draconis. 395

4.

81

i.c in:

S., SE

and

00

the

nd

nis

12-

W

CHAP. LXXIV.

Of the Restricta, or Cauda Draconis.

I. HE Restricta is that Line which divides the Hand from the Arm, either by a fingle, duple, or triple transcursion; thereby determining the To unonequevor or fubject of Art; which by some is called the Diferiminal line.

II. If the Restricta be double or treble, and extended in a right and continued tract it thews a healthful constitution of body and long life.

411. That line which is neereft the hand continued without incifure, and of a good colour thews riches.

IV. But if it be pale or crooked, or cut in the middle, it fhews weakness of body, and poverty.

V. A line drawn from the Restricta to Mons Luna, fhews poverty, imprifonment, and private enemies.

VI. If that line be crooked it doubles all the evil, and fhews a perpetual flavery or mifery.

VII. But fuch a line being clear and firaite, and extended to the Mons Lune, thews many journies and peregrinations both by Sea and Land.

VIII. If it extend to the Mons Jovis, it forethews estimation and Ecclesiastick dignity but that the man shall live in a strange country.

IX. If to the Epatica, it thews honefty, truth and fincerity, and one of a healthful and long life.

X. It to the Mons Solis, a great and certain good,

and gives honour and command in the Common wealth.

Cc2

XI. And

396 Polygraphices.

XI. And so from the *fame reason*, passing to the Mons Mercurii, it shews a learned and ingenious soul: but if it reach not that Mount, but is broken about the middle, it shews a lying, prating, idle perfon.

Lib. 4.

m2

lite

E

t

XII. If it ascends directly to the Mons Saturni, it thews an inheritance in land: but if it be crocked, it thews a covetous perfon, and one of a very ill nature.

XIII. A line running from the Restricta through the Mons Veneria, shews poverty, advertity and want, and that by means of some women or womankind.

XIV. A cross or star upon the Restricta, shews a happy and long life.

XV. One or more Stars upon the restricta by the Mons Veneris in Women shews lewdeness, dishonour and infamy.

CHAP. LXXV.

Of the Saturnia or Line of Saturn.

I. His Line is that what afcends from the Restricta through the middle of the Vola, to the Mont Saturni, which line if it be cut or parted is called Via combusta.

II. This being full, and extended to the Mons Saturni flews a man of profound cogitations, of great wildom, and an admirable counfeller in all great actions.

III. If it be combust, it is an evil fign, foresbewing many

Ch.76. Of the Mount of Jupiter. 397

many misfortunes, and poverty in one part of life.

IV. A line drawn from the Vital through the Epatica to the Mons Saturni, making an angle with the Linea Saturnia, foreshews imprisonment, and captivity, and many misfortunes.

V. The Saturnia bending backwards in Cavea Martis towards the ferient, the lame.

VI. This line tilled with unusual and inauspicious characters, shews unhappiness and disafters.

VII. A gross line running from the interval of the Mons Jovis to the mensfal, and breaking or cutting of it shews difeases or wounds in the belly or parts adjacent.

CHAP. LXXVI,

of the Mount of Jupiter.

1. THE Mount of Jupiter is the tuberculum under the fore-tinger.

II. If upon the Mount of Jupiter, there be a Star or a double crofs it forefhews, riches, profperity, and happinefs, one born to noble and glorious actions, one honeft affable, courteous, and renouned, a generous foul indeed, and faithful in all their undertakings

III The fame, if this Mount is adorned with parallel line, or a line fweetly drawn, between it, and the Vital; it fhews great dignities, and estimation with great men.

IV. But if this Mount be vitiated, with a Charather like a half Gridiron, it shews unhappinets, calamities,

398 Polygraphices. Lib. 4.

mities, poverty, difgrace, and depolition from honours and dignities, · loffes by women-kind, and difeafes in the heart and lungs.

V. The fame, if a line cutting this Mount, tends to the Mount or Line of Saturn; this also threatens an Apoplexy.

VI. Lastly, a Cross, but especially a clear red Star on this Mount is a signal and sure demonstration of a splendid life, repleat with bonour and glory, riches and an Eternal name.

CHAP. LXXVII.

of the Cavea of Mars and the Via Martis.

I. THE Cavea Martis is the hollow in the middle of the Palm, commonly called the Triangle of Mars, made of the three principal lines, to wit, the Cardiaca, Cepbalica, & Epatica.

II. The Via or linea Martis (called alfo the Vital fifter and foror Martis) is a parallel to the line of Life on the Mons Veneris.

III. Mars is Fortunate fo often as the foror Martis appears red, clear, and fweetly drawn, and when either Stars or Croffes are found in his Cavea or Triangle: and thereby is fignified Courage, boldnefs, magnanimity, fortitude and ftrength: the man is imperious, ftrong, and a great eater.

IV. But if the Triangle be infortunated by evil, lines from the Mons Veneris or Lune, the perfon is litigious, fcornful, proud, difdainful, deceitful, and wicked; a theif, lecher, robber, murtherer, and shall, have a life wholly filled with unhappinels.

v. The

20

北

Ch.78. Of the Mount of the Son, &c. 399

V. The Character h Saturn in the Triangle, fhews a danger of falling from some high place.

VI. A crooked line ascending from the Triangle to the Mons Saturni shews imprisonment.

VII. A line from the faid Triangle towards the Restricta, terminating under the Mons Luna shews many peregrinations, journies and travels.

tar

2

VIII. The foror Martis augments all the good fignified by the Cardiaca or line of life, but particularly it promifes fuccels in war, and the love of Women.

CHAP. LXXVIII.

of the Mount of the Sun, and Via Solis.

I. THE Mount of the Sun is the tuberculum under the ring finger.

II. The Via Solis, is a right line running down from the Mount of Sol, to the Triangle of Mars.

III. A Star or Stars upon the Mons Solis fhews one faithful and ingenious, and that he fhall attain to great honour, glory and dignity, be honoured of Kings, Princes and great men; one of a great and magnanimous spirit, wife, just and religious.

IV. But a perpendicular thereon cut or crost with a line from the Mons Saturni, shews pride, and arogancy, a boaster, a poor base spirit, and one that shall fall into irrecoverable miseries.

V The Via Solis clear, and not broken, or cut by any ill line, flews honour in the Common wealth, and the favours of Kings and great Princes.

VI. But it being cut or contused, or hurt by any Cc4 line

Polygraphices.

400

line from either the Mount or line of Saturn, it shews the contrary; poverty and the hatred of great men. Cha

thew and

felf

200

加金

Sta Sta

in

20

h

72

FC

CO.

tr

I

Lib. 4.

CHAP. LXXIX.

Of the Mount of Venus, and the Cingulum Veneris.

I. THE Mount of Venus is the tuberculum of the Thumb.

II. The Cingulum Veneris or girdle of Venus, is a peice or fegment of a Circle drawn from the interval or space between the Mons Jovis & Saturni, to the interval or space between the Mons Solis and Mercurii.

HI. A clear Star, or furrows that be red and tranfverfly parallel upon the Mons Veneris, and it much elevated, fhews one merry, cheerful and amorous; it fhews also one faithful, just and intire, one with whom 'an incorrupted type of friendship (being once made) is durable for ever: it also fignities great fortune or effate and fubftance by a sweethcart or lover.

IV. But this mount infortunated by evil lines, or lines from evil places, and irregular figures thews a lecherous perfon, an adulterer, a poor; bafe, fordid wretch, who thall fpend his fubftance on whores.

V. The Character of the Δ Trine Afpect on this mount fnews a great fortune by marriage.

VI. The mount of Venus void of lines and incifures, shews a sude effeminate and foolish person, and one sidiculous, and unfortunate in wedlock.

VII. The Cingulum Veneris; or girdle of Venus, fhews

Chap. 80. Of the Mount of Mercury. 401

4.

WS

at

um

the

15 2

10

17-

ĸj-

cit-

; it

119

is

fate

or

\$2

did

L

this

4

15

fhews intemperance and luft in both Sexes, a base and beaftual life; a filthy Sodomite, who abuses himfelf with beafts.

vIII. If it be broken or diffected, it shews infamy and difgrace by lust and lechery.

CHAP. LXXX.

Of the Mount of Mercury.

I. THE mount of Mercury is the tuberculum under the little finger.

II. This mount happy and fortunate with a Star, or parallel croffes, or the Character of the Δ Trine Afpelt, thews wit and ingenuity, and makes the perfon a great Oratour, gives him fubstance by Arts and Sciences, and the understanding of fecret misteries in Alchimy, Musick, Painting, Astrology, and Philology, and raifes the perion to dignity by means of his own wit, prudence, and industry.

III. But this mount afflicted, or without lines, or hurt by a line from the mount of Saturn, (cutting the mount of Sol) or from the Triangle of Mars, thews a poor, low, and dull wit a perfon of no audacity or courage, a meer coward, a lyer, pratler, theif, cheat, traitor, and one faithlefs, and fometimes melancholy, mad, or frantick.

IV. These judgments are the more firm where the lines and fignatures are fair, firm, and clear : but if they be dull or obscure, these judgments are more dubious and intricate.

V. A line from the mons Lung to the mons Mercuriz not cut or broken, shews a man eminent and famous in

402 Polygraphices. Lib. 4. in his trade or profession (among the common people) let it be what it will.

Chat

Dec 21

Sea a of W

happ

finge

LT

attri

Wit

2 10

dera

patr.

and

Mag

diac

300

POT

and

CHAP. LXXXI.

true difference by full and lection.

of the Mons Lunæ, and the Via Lactea.

I. THE Mons Lune (called also feriens à feriendo, the finiting part) is the mount comprehended under the *suberculum* of Mercury, between the mensal and Restricta.

II. The Via lactea, or Milky way, is the line running upwards from the Restricta through the feriens or mons Luna.

III. The mons Lane filled with happy Characters (as we have before hinted) thews one honeft, juft and honourable, and makes a man famous through a Kingdom, gives him the praife of the common people, and the acquaintance of great and noble Ladies; and makes him happy in Navigation.

IV. But being infortunated by evil Characters, or a trapezia, or evil lines from the Triangle of Mars, or lines broken, or cut with oblique Angles, it flews one of a various, poor, and inconftant life, a begger, a perfon envied by almost all people, one wicked, treacherous, and deceitful, a perfon fubject to travel, captivity or banishment.

V. If the good lines on the ferient be fair and comly they premonstrate to much the more happines, and in momen fruitfulnes: but the evil lines pale, fo much the more evil.

VI. The Vialaciea or milky way, well proportioned

Chap. 82. Of the Mensa or Table. 403

4

0-

27%

the

un-

22

100-

11,

175

er, ed,

vel,

in-

, fo

ned and continued, thews fortunate journies, both by Sea and Land, great wit, and the love and favour of Women-kind, chiefly of Ladys and great Women.

VII. But if this line be cut or crooked, it fhews unhappines and a poor and low estate.

VIII. If it be whole and extended to the little finger, it shews a great good beyond expectation.

CHAP. LXXXII.

IN: A Grefs or Star in the Mingle or or month Lane

Of the Mensa or Table.

I. THE Mensa is the interval or space betwixt the mensal and Eparica, the which is given or attributed to Fortune; from whence the Table is called the place of Fortune.

II. The Mensa being large and broad, and repleat with good figures, Thews riches, and treasure, one of a liberal magnanimous spirit, and of long life.

III. But *small and narrow*, fhews poverty or a flender and mean fortune, a niggard, a coward, a pittiful poor, fearful and mean foul.

IV. A little circle in the Mensa shews a great wit, and a profound person in Arts and Sciences.

V. The Mensa terminating in an Angle under mons Jovis by the concourse of the Mensal and Cardiac or Vital line, shews falshood and treachery, and one of short life.

VI. A Cross or Star, within it, clear and of good proportion, efpecially under the mount of Sol shews honour and dignity, by means of great and Net ble men, and encrease

Polygraphices.

404

encrease of Noble men : if it be the Character of 4 Jupiter, it shews Ecclesiastical preferment.

Lib. 4.

Cha

helex

the T

Ind

a nil

they a m

plac

mid

but

in N

01

through

met

troi

She

she

trêd

COT

劶

tran

jop

at 1

V

VII. The fame Crofs or Star, being doubled or tripled wonderfully encreafeth the atorefaid good fortune; but cut or confused by other little lines, the faid good is much diverted, and Anxieties and troubles threatned.

VIII. Good and equal lines in the Mensa, shew good fortune; evil and distorted or crooked the contrary.

IX. A Cross or Star in the Mensa over mons Luna, thews fortunacy in travelling.

X. If there be no mensa it shews a cloudy and obfcure life and fortune.

CHAP. LXXXIII.

Of the Thamb and Fingers.

I. A Line furrounding the Pollex or Thumb in the middle joynt, thews the perfon thall be hanged.

II. A line passing from the upper joynt of the Pollex to the Cordiaca, shews a violent death, or danger by means of fome married woman.

III. Overthwart lines, clear, and long underneath the nail and joynt of the Thumb shew Riches and Honour.

IV. Equal furrows drawn under the lower joynt. thereof shew Riches and Inheritances.

V. The first and second joynt free from incidures shew a flothful and idle person.

VI. Overthwart lines in the uppermost joynt of the Index

Chap.83. Of the Thumb and Fingers. 405

4.

¥

Or

DA,

100

前之間

000

Will,

00-

ib in

I be

lex.

rby

eath

and

ovint.

R'W

the

Index or fore-finger, shew inheritances ; but fuch in the middle joynt shew a fubtil perfon.

VII. Right lines running between those joynts in the Index shew (in Women) a plentiful issue; (in Men) a nimble tongue.

VIII. If they be in the first joynt neer mons Jovis they shew a pleafant and courteous disposition; and a man of a generous foul.

IX. But a Woman who hath a Star in the fame place is lascivious and roborish.

X. Little gridirons in the joynts of the Medius or middle-finger an unfortunate and melancholy perfon: but Equal and parallel lines shew fortune by dealing in Metals.

XI.A Star there shews a violent death by drowning or Witchcraft or the like.

XII. A Gross line rifing from the mons Saturni, through the whole finger to the end thereof shews a meer fool or mad perfon.

XIII. In the Annular or Ring-finger, a line rifing from the mons Solis, firait through the joynts thereof, shews honour and glory.

XIV. In the first joynt of the Annular, equal lines shew treasure and honour: overthwart lines the hatred of Kings and great men; but if intersected, their envy shall be abated.

XV. In the Auricularis or little-finger, a Star in its first joynt neer the mount thereof shews one of ingenuity, and a good Orator.

XVI. Evil Characters and obtuse Angles the contrary: those infortunate fignes in the first and second joynts shew a thief: in the last joynt one perpetually inconstant.

XVII. Some Authors predict the number of Wives or Eusbands by the number of little lines in the outmost

406 Polygraphices.

most part of the mons Mercurii; but in my opinion those things ought rather to be fought out in the mount of Venus. Ch

local

tear

cert

the

GHI

Can

phe

ting

it

ftri

師時

ticz.

deli

THE

abe

mil

Cina

Lib. 4.

XVIII, And as in the mounts good or evil Characters, are Omens of good or evil fortunes; so also on the fingers they fignify the fame.

XIX. The first joynt neer the mount shews the first Age: the second joynt, middle Age: and the last joynt, old Age: but it is our opinion, that the directions of the principal fignificators in every Geniture more properly demonstrate the times in which the good or evil fignified by those marks or lines shall more certainly happen.

A note concerning the Good and Evil lines, marks or Characters.

XX. The good lines marks or Characters are parallels as = or || double or treble and the like, Croffes as + or \times : double Croffes and the like: Stars as the Sextile Afpect * or the like: Ladders-fteps and Quadrangles as \Box or \Box : the trine afpect as Δ : Angles as the right or acute, or a mult-angle, &c. the Characters of *Jupiter* and *Venus*, as \checkmark **2**, and other the like a kin to the fe.

XXI. The Unfortunate and evil Characters are deformed, irregular and uncouth figures, broken lines, crooked lines, gridirons, the Characters of f_{0} Saturn and $\partial Mars$: the opposition P: irregular Circles, obtuic angles and the like.

XXII. Laftly, as the quantity of lines confidered in their length and depth; their quality, in their shape and complexion; their Action, in touching or cutting other lines; their paffion in being touched or cut of others; and their place in which they are posited or located;

Ch.83. Of the Thumb and Fingers. 407

4.

ion

the

d.

2

5位

出版

tions

mon

to be

cer.

arks

Ilels

roffes

rs as is and

An-

the

other

de-

ints, ature roles,

red in shape

ut of d or ted; located, ought to be observed; so also their time of appearing or disappearing, ought to passour cognisance.

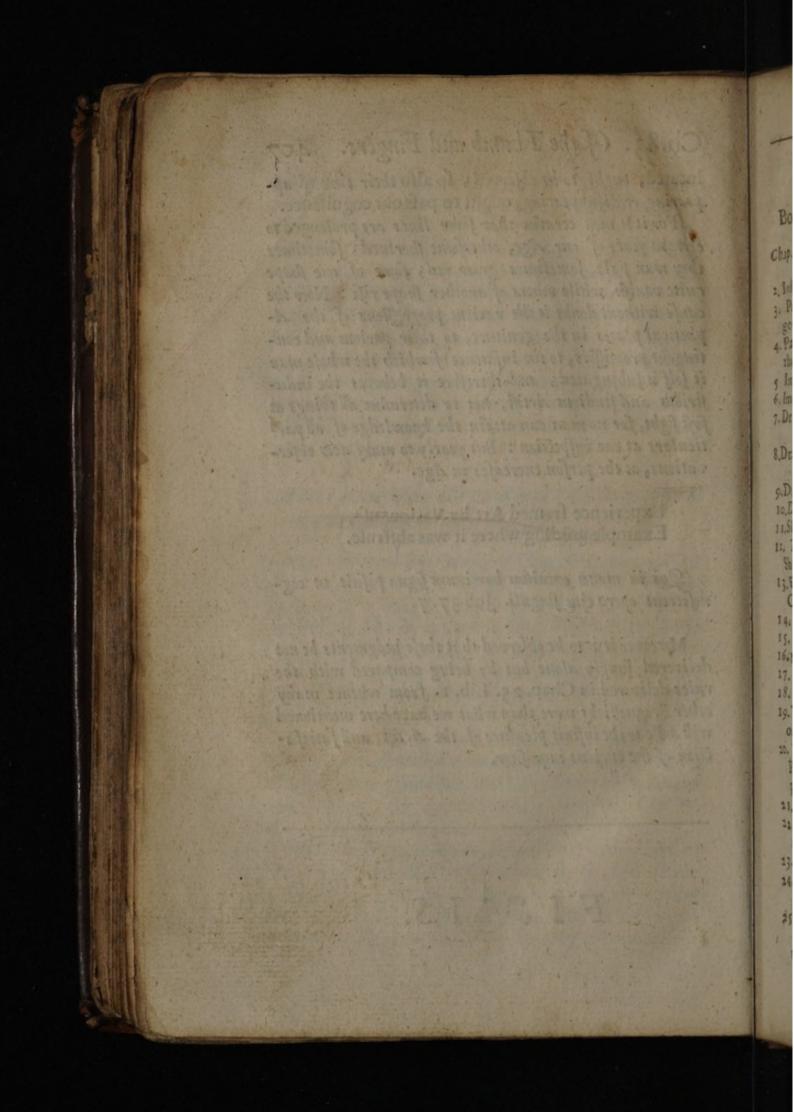
For it is most ceratin that some lines are prolonged to certain years of our Age, othersome shortned; sometimes they wax pale, sometimes grow red; some of one shape quite vanish, while others of another shape rife: Now the canse without doubt is the various progressions of the Aphetical places in the geniture, to their various and contingent promiss, to the influence of which the whole man it felf is subjugated; and therefore it behoves the industrious and studious Artist, not to determine all things at first sight, for no man can attain the knowledge of all particulars at one inspection: But yearly to make new observations, as the person encreases in Age.

Experience framed Art by Various ule, Example guiding where it was abstrule.

Qui in manu omnium hominum signa posuit, ut cognoscerent opera ejus singuli. Job 37.7.

Moreover it is to be observed that these judgments be not delivered simply alone but by being compared with the rules delivered in Chap. 25. Lib. 1. from whence many other Prognosticks more than what we have here mentioned will arise to the infinit pleasure of the Artist, and satisfation of the curious inquisitor.

FINIS.



The CONTENTS.

15

18

Book I. Of Drawing.

Chap. 1. OF Polygraphice in general, P.1. 2. Inftruments of Drawing, 2 3. Precepts of Drawing in general, 4 4. Particular Observations in the Art of Drawing, 7

5 Imitation of the Life, 10 6. Imitation of Draughts, 12 7. Drawing the face of a man,

8. Drawing the extreme parts,

9. Drawing the whole body, 19
10. Drawing a naked body, 21
11. Shadowing a naked bo. 22
12. The way and manner of Shadowing, 23
13. Expreffing Paffions in the

Countenance, 25

14. Human Proportion, 26 15. Drapery, 27

16: Mixt & uncertain forms, 28

17. Landskip,

18. Diapering & Antique, 32

19. To take the perfect draught of any Picture, 34

20. To extend or contract a Picture, keeping the proportion, 36

21. Perspective in general, 37 22. The Active part of Per-

19 123. The Subject to be feen, 40

24. The general Practice of Perspective, 43

25. A rational Demonstration of Chicomantical Signatures, 46

Book II. Of Engraving, Etching and Limning.

ch. 1. OF graving & the Inftruments, Paz. 5 r 2. Polithing the Copper-Plates, 53

3. Holding the Graver, 54 4. The way and manner of En-

graving, 5. Imitation of Copies, 56 6. Engraving in Wood, 57

7 Etching & the materials, 59 8. Using the hard Varnish, 63

9. The way of Etching, 64

10. Using the Aqua-forthis 66

11. Finishing the Work, 68

12. Using the foft Varnish,69 13. Of Etching upon the fost

Varnish, 70

14. Using the Aqua fortis, and finishing the Work, 71

15. Limning & the materials,73 16. The Gums and their ule,74

17. The feven Colors in general, 75

18. Colors in particular, 77 19. Mixt and compound Colors, 80

20. Colors for Drapery, 84 21. Liquid Gold & Silver, 86

22. Preparing the Colors, 89

23. Manual Inftruments, 91

24. Preparations for Limning, 92

25. Limning in Miniture, 94

26. Limning Drapery, 97 Limning Landskip, 98

27. Limning Landskip, 9

28. Light and Shadow, 100

The Contents.

Bool

¢6

2.3.4 3.11

「お

25

| Of making fome original 7. Colors for Taffata, Cloth; |
|--|
| 102 Leather |
| 31. The fum of the Observa- 8. Colors for Garments, 149 |
| story of Allaling IO INCO whor Metals and France |
| Life, 106 10for Landskip, 151 32. Limning Landskip more 11. Painting the Face, 152 particularly, 111 12 Change 11 Pace, 152 |
| 32. Limining Landskip more II. Painting the Face |
| particularly, 111 12. Cleanfing old Painting, 154 |
| 33. The various forms or de- 13. Of a Pict, in general, 155 |
| grees of Coloring, 113 14. Of Choice of Copies or |
| 34. Limning of Sky, Clouds, 115 Patterns, 157 |
| 31. Towns, Caftles, Ruins, 116 15. Dilpoling of Pictures, 159 |
| 36Mountains, Hills and 117 16 Enclosed of Pictures, 159 |
| 36Mountains, Hills, Ge. 117 16. Fresco or painting of walls, |
| 37Trees, Boughs, Cottages, 161 |
| 38 Coloring naked Figure 118 17. Col. for painting Glafs, 162 |
| 38. Coloring naked Figur. 119 18. The way of Painting on |
| of the state of trains of the state of the s |
| The manage manuers of C in 19. Wathing & He mater |
| 41Pillars, Rocks, OC. 122 20. Simple Colors for Wafh- |
| 123 ing, 165 |
| 43Flowers, 124 21. Compound Colors for |
| The Acadimics, Furnips, Mcions Walhing, |
| carbiners et cabbage, 125 22. Wixing & thadowing, 160 |
| 45. To color Fruits, 126 23. Colors for Landskip, 171 |
| 46. Limming of Fowls, 128 24. Practice of Washing, 172 |
| 130 25. Making Varnilhes, 172 |
| 132 26. Way of Varbilling, 126 |
| 47. Waters and Fin, 133 27. Experimental Observati- |
| Book III ocn ons of vegetable Colors in |
| -contrate of Fainting, Wa- general, |
| Joing, Coloring, Calting, 28. Experimental Obfervati- |
| Varnihing, Gilding and ons of mineral Colors, 184 |
| Dying. 29. Of Metals, 189 30. Calting & its Inftrum. 202 |
| ch.1. F Painting in gene 30. Cafting & its Inftrum. 202 |
| F Painting in gene- 31. Way of c. of Cafting, 205 |
| |
| |
| |
| and then and then there are |
| ingundation, is a Weed to a t |
| o Colors for Faint, 26 Uving Vaen and Time |
| - C 1 C 144 Cloth, 225 |
| Colors for Velvet, 146 37. Of Dying Stuffs Woollen- |
| 6. Colors for Sattin, 147 Cloth, Silk, 227 |
| Book |
| pour |

The Contents?

13 13 19

19

62 011

64

of

为71小时的山田 初

ならり

| Pool IV Of the Original | 19. To express the Powers, | 306 |
|--|--|--|
| Book IV. Of the Original, | 30 Virtues and Vices, | 310 |
| Advancement and Perfe- | 31.—Rivers, | 313 |
| Etion of these Arts: the | 32Nymphs, | 316 |
| Paintings of the Anti- | 33The nine Mules, | 318 |
| | 34 The four Winds, | 320 |
| ents: the Arts of Beauti- | 35 Months of the Year, | 320 |
| fying, Perfuming and | 36. Of Painting the Face | and |
| Chiromancy. | Skin | 322 |
| | 37. Of Colmetics which be | au- |
| Ch.1. OF the Original of these Arts, 231 | title without any thing | 3 OF |
| 2. Their farther progrefs,239 | paint, 38. Cosmetics which rem | 328 |
| 3. Of their perfection, 250 | 38. Cofmetics which rem | edy. |
| | the vices of the skin, | 333 |
| 4. How the Antients depicted Saturn, 263 | 39. Making fweet Breath, | |
| Saturn, 263 S.How they depicted Jupiter, | 40. Beautifying the Hair, | 340 |
| Sillow they depicted Jupiters | 41. Perfuming in general, | 342 |
| Contraction of the second second second second | 42. The matter of perfumes | , ib. |
| and the second s | 43. Oil of Ben, | 343 |
| | 44. Sweet Waters, | 345 |
| the second se | 45. Of perfuming Oils, | 347 |
| AND | 46Effences, | 349 |
| and the second sec | 1] mononto | 351 |
| 1 | Dissident and | 352 |
| and the second se | 49Balfams, | 355 |
| 20 | 50 Tablets, | 356 |
| A 120 | Demandary for Br | ace- |
| 15. — Neptune, 282 16. — Nemefis, 284 | lets, | 358 |
| A REAL PROPERTY AND A REAL | 52 Waih-Balls, | 359 |
| 17. — Pan. 285 18. — Pluto, 287 | 53Soaps, | 360 |
| 19. — The Parca, 288 | 54. Of burning perfumes, | 362 |
| 20Minerva, 285 | 55. Animal & mineral per | £.363 |
| T. Jam | 5 56 Adulteration of perf. | 364 |
| Decebere ibid | c7. Perfuming of Cloth, S | kins |
| 23. —Fortune, 293 24. —Virtue, Truth, Peace | Gloves, | 365 |
| 23. Wirthe Truth, Peace | \$8, Making all forts of Inh | ,367 |
| Lawour Lame (Ininion 20/ | S SU. Scalling Wang | and the second s |
| Night Sleep Suchce | 60 Artincial realisy | 370 |
| Blooture and hear 29 | S OI, MICHVILLY IN SCHOLMAN | 2.1 |
| 26Philosophers, Lawgi | - 61. Naturn of Leady | 0.3.4 |
| more Emperors Kings and | d 62. Fuditer or 1103 | 378 |
| Queens 20 | o 64. Mars or Iron, | 389 |
| Queens, 30 27. — The Sibyls, 30 | 2 65. Solor Gold, | tb. |
| 27. — Arts, Virtues, Paffon | | 381 |
| and minor Gods, 30 | A Dd'2 67 | Mer- |
| STRU FRITION O ANNI 30 | A set of the set of th | |

30.4

The Contents.

Anti Ada

> An Alt An

| 67. Mercury or Quickfilv. 383 | 75Saturnia or line of sa- |
|----------------------------------|------------------------------|
| 68. Luna or Silver, 384 | turn, 396 |
| 69. The fecret Hermetick my- | 76 Mount of fupiter, 397 |
| ftery, or great Philosophick | 77. Caves of Mars and Vis |
| work, ibid. | Martis, 398 |
| 70. Of Chiromancy, and brit | 78Mount of Sol and Via |
| of the Line of Life, 389 | Solis, 399 |
| 71. Epatick or natural line, 390 | 79 Mount of Venus and Cin- |
| 72. Cephalica or head-line, 392 | gulum Veneris, 400 |
| 73. Of the menfal line or line | SoMount of Mercury, 401 |
| of Fortune, 393 | 81 Mons Luna & Via last. 402 |
| 74 Restricta or Cauda Dra- | S2. Menfa or Table, 402 |
| conis, 345 | 83 Thumb & Fingers, 404 |
| The end of the Conte | ents of the Chapters. |

The TABLE.

| A | Page | Amel what | 87.212 |
|---------------------------|---------|---|----------|
| A Ngles and Arches | 5.44 | Arinick white to make | 188 |
| Anchle Bones | 23 | | nth 210 |
| Antique & diapering 32 | .33.159 | Artificial Chryfolite, To | \$43.Co- |
| Active part of Perspectin | ve 39 | ral, Emerald | 211 |
| Altitude | 40.43 | Amplian milling | 12,213 |
| Aqua fortis to make | . 60 | Amber to loften | 212 |
| Aqua fortis to uje | 66.71 | Aqure to make | 214 |
| Arabickgum | 74 | de internet de la companya de | 51.304 |
| Armoniack gum | | Analogy its use | 254 |
| Arsenicum | | Action and Paffion | 1 257 |
| Auripigment | | Aftarte who | 264 |
| Afb-colour | 81.147 | Apollo to depict | 269 |
| Aqure col. 83.105.151.1 | 86.214 | | 78.318 |
| Argentum Musicum | | Æolus to depiet | 284 |
| Aurum Musicum | | Aratus, Aristotle to dep. | i# 300 |
| Armoniack Gold | ibid. | Alexander Great, Ener | 15 301 |
| Armor | | Aftronomy | 304 |
| Amethyst colour | | Audacity, Aftr.za | 305 |
| Apples to limn | | Arnus 314 Achelou | \$ 315 |
| Apes to limm | | Aufter to depict | 320 |
| Affes to limn | | April, August to depist | 321 |
| Adder to limn | 131 | Art of Perfuming | 342 |
| Alum-water to make | 164 | Adeps Rofarum | 348 |
| and an Eland | | | Animal |

The Table?

54- 36 37 Pa 39 Via

399 Cin-

400 401

403 403 424

13800411311444176498840014975011484

| Animal and mineral Perf. | 263 | Brushes | | 204 |
|--------------------------|--|-----------------------|---------------|----------|
| Antimonial Perfumes | ibid. | Brass to gild | 21 | 5.216 |
| Adulteration of Musk, Ci | ivet or | Books to gild | | 216 |
| Ambergris | 364 | Blots to take out | " VIIISA R | 217 |
| Artificial Pearls | 270 | Bones to dye | 22 | 2.2:3 |
| Alchymy in general | 375 | Bones to loften | | 223 |
| Ambergris Effence | - 250 | Briftles to dyc | | 2:3 |
| B | | B'ue dye | 21 | 5.227 |
| Brows | 15 | Black dye | | 227 |
| Body to draw | | Bacchus to dej | oiet 7 | 290 |
| Belly | 22 | Boreas to depit | t | 320 |
| Bodies to fhade | 23 | Burnings and S | caldings | 335 |
| | rds 29 | Breath to jure | ten | 337 |
| Bale | 40 | Baldness | | 340 |
| Burnishing Iron | 52.62 | Black Wax | 18. 1 M 19 | 370 |
| Bruth | 62 | Ballams per fun | red | 355 |
| Rlacks 76.142.149.1 | 62.188 | Bal amum meso | hatum | ibid. |
| Blues76.83.84.85.105.1 | 42.149 | B acelets perfu | med | 358 |
| 163.168.169.170.1 | 35.225. | Start Starts | C | |
| Browns 77.1 | 43.169 | Cromatice | | I |
| Bole armoniack | 78 | Crions or Pajti | ls to make | 3.102 |
| Blue Bice | | Charcoals | 12121 | 2.54 |
| Bay coloxy | 80 | Compasses 3 | Circle | 4.44 |
| Burnisht Gold and Silve | | Cone 5 | | ib. |
| Banks to color | 80 | 6 Copies to reduc | s | 6 |
| Boughs to limn | IIS | Circumferent | stroaks | 14 |
| Brick-wall to limn | 121 | Crofs in makin | g a Face | 15 |
| Brass to limn | | 3 Circular Bodi | 25 | 24 |
| Beasts, Bear to limn | 13 | Catoptricks | 6 . 101 21 | 38.45 |
| Blue Velvet 146 Satt | | 8 Center to find | | 44 |
| Buff to paint | 14 | S Coloring | | 45 |
| Banquiting Rooms an | | - Chiromantick | Demonjtral | 110n 46 |
| chamber | 16 | o Cushion | | 52 |
| Brazil | 16 | s Copies of Lett | ers | 57 |
| Buildings | 17 | 1 Colors for Lim | intog | 73.75 |
| Blackness to destroy | 17 | 9 Ceruse | 0-0- | C1:1 |
| Buckthorn Berries | 18 | I Crimfon brigh | t SI Crim | .Jaa 10. |
| Butter of Antimony | 18 | 4 Crimjon Lake | a state where | 32 |
| Balfamum Saturni | 18 | 8 Celors for Dr | apery | 84.170 |
| Brals to varnilb | 17 | 4 Crimfon Gara | nents | 84.104 |
| Brass to make | 188.19 | 2 Carnation | | 84.163 |
| Brajs to tinge | IG | 2 Cloth of Gold | | 84 |
| Brass to whiten | 192.1 | 93 changeable S | ilk | 85 |
| Brafs to cleanfe | 195.1 | 97 China Dishe | 2 | 73 |
| - The second second | and the second s | Dd 3 | | Ca |
| | | and the second second | | |

| Colorsto prepare 89.143.144 | Cosmetick of Talk 32 | 6.328 |
|---|-----------------------------|--------|
| | Cosmetick of Pearl | 33I |
| Colors to calcine 90.143 | Chaps in the skin | 335 |
| Collens carth 103 | Cloth, Coffers to perfume | 367 |
| Cherry-stone black ibid. | | 3.2 |
| Colors to make ibid, | Cephalick Line | 392 |
| | Cyprian powder | 353 |
| Clouds to limn 115 Cafiles 116 | Charafters good and evil | 406 |
| Cottages 118 Children 113.119 | Cauda Draconis | 395 |
| Childrens Hair 121 | | 398 |
| Chambers 121 Copper 123 | | Seller |
| Clovejuliflow. 124 Cornflour 125 | | Indi |
| Cucumers, Cabbage 125.126 | Doefling what | 13 |
| Cherries 126 Coney 131 | | 27.97 |
| Cat 131 Crocodile 132 | | 32.33 |
| Colors to keep from skinning 142 | | 34 |
| Colors for a fair complexion 144 | Direct Radiations | 38 |
| Colors used in the Church ibid. | Dioptricks | 38.45 |
| Complexion brown, black 145 | Distance in Perspective | 41 |
| Cloth to paint 148 | Diagonals | 42 |
| Colors for Landskip 151.171 | Discolor. of Plates to remo | ve 68 |
| Choice of copies or patterns 157 | Deep purple | 80 |
| Cochenel 166.180.181 | Defects of colors | 90 |
| Colors of Stones 169 | Drapery to limn | 97 |
| Coral 184 | Diamonds to limn | 98 |
| Copper or Tin to varnish 174 | Dead colors to make | 107 |
| Copper to blanch 185.188 | Degrees of coloring | 113 |
| Crocus Martis what 187 | Deal children | 120 |
| Copper to tinge, whiten 19; | | ibid. |
| | Devils to limn | ibid. |
| Casting, the manner of it 205 | | 124 |
| the second se | Duck to limn 128 Dogs | 131 |
| Chalcedon to make 210 | Dining Room | 160 |
| Carbuncle to counterfeit ibid. | Diamond to counterfeit | 209. |
| Cloth to dye | Dying in grain | 228 |
| Crimfon dye 228 Chronos what 263 | Disposition of things in | right |
| Chronos what 263 | order | 260 |
| Court of Mars 268 | Diana to depict | 275 |
| Chariot of Diana 275 | Diogenes, Democrates | 300 |
| Ceres 282.305 Charon 287 | David, Dido | 301 |
| Charity 304 Concord 304.309 | Demogorgon | 307 |
| Confidence 304 Cupid 305 | Destiny 310 Dissimulation | 312 |
| Calumnia 312 | Danubius 215 Dryade | \$ 317 |
| Crocodile what Clio to dep. 318 Calliope 319 | December to depist | 322 |
| Cilo to dep. 318 Calliope 319 | as the state of the | Ear |

The Table?

18 部語前 12 計計 46 新課

| E Fresco | 161 |
|--|----------------|
| | 167 . |
| Ear to form 17 Flory blue Extreme parts to draw 18 Flesh color | 169 |
| That and Tanada | 203 |
| Farmanian of se sy Feathers to dye | 223 |
| | 7286 |
| O Destination date 201 | 3.309 |
| Emerald when tox los Fame 29 | 7.319 |
| Emerate coust | 304 |
| T Jisian 20 | 5.312 |
| Flora 206 Fair | |
| Legie I and Truitfulnele | 312 |
| Enamel to make Point Point February to debict | 320 |
| Estimation of Painting & Pain- February to depict ters 246.247 Face to cleanse & beautif | |
| TETC | ıbid. |
| Exquisiteness of coloring 255 Fucus white Exestheir power 258 Fucus of Pearl | 326 |
| Eyes their power 258 Fucus of Pearl Epicurus to depict 300 Fucus of a Bulls Gall | ibid. |
| | 6.327 |
| | 333 |
| | . 404 |
| Turniberroot and a | |
| Eternity 305.306 Envy 305 Echa 206 Equality 309 Glass Perspective | 41.42 |
| | |
| There is a compared to the second sec | \$1.53 |
| Euros | - 54 |
| Epatick Line 390 Graver to hold Gums for limning | 72.74 |
| Cold and Silver linuid | 72.86 |
| L'ourrors ch Qa Sy SA | 5.105. |
| 1 | 58.169. |
| 10000 10000 | and a start |
| Ftar to tapici | , 73 |
| Foregoorenting | 80 |
| Flowers to draw 29 Glass Grey | 28. |
| Frame and Trough 62 Giey | illd. |
| Finishing the Etching work 68. Green light 71 Gold burnished | 87 |
| 11 Gota Darminster | |
| Flame color 81 Gold to diaper on Fina color 86,151 Gold Armoniack | ibid. |
| File cours | 87 |
| Feathers to color 86 Glair of Eggs to make | 89.143 |
| Fair complexion 106 Ground colors what | 91.142 |
| Flowers to limn 124 Grinning stone | 97 |
| Fruits 126 Gold Armor | and the second |
| Fowls 128 Falcon 129 General Observations i | 105 |
| Fishes 133 Frog ibid. ing | 121 |
| Face to paint 152 Grey Halt with g | Gold |
| DIA A | Carrie. |

| a second s | States and the second |
|--|--|
| Gold to limn 123.150 | Hogs to limn 120 |
| Grapes to limn 127 | |
| Griffon 129 Goofe 128 | |
| Grinding Stone to cleanse 141 | |
| Green Velvet 146 Sattin 147 | |
| Garments to paint 149.150.170 | |
| Galleries 160 | |
| Glass to paint 163.187 | |
| | the second se |
| Gambogia 166 Gold to varnifb 174 | |
| Green tincfure 187 | and the second |
| Glass to tinge 187.188 | and the second |
| Gold to colour and foften 190 | the second se |
| Gold Tree of the Philosophers, | |
| | Hope 304.311 Hymen 305 |
| Glass and precious Stones 207 | |
| CL-C-L-I | Uning to be set if a |
| Glassio make green 208 | Hermetick Myltery 284 |
| Gilding the way 215 | Hermetick Mystery 384 Head-Line 392 Hair Powder 355 |
| Glass to gild 215.221 | Hair Powder 355 |
| Golden Le ters to write 219 | I |
| | Instruments of Drawing 2 |
| | Imitation of the Life 10.14 |
| | Imit. of Draughts 1 :. 14.56.138 |
| | Infects to draw 29 |
| | Ichnographia 39 |
| | Jupiter's fignification 47 |
| Government 304 | Indico 79.158 |
| | Instruments of Limning 73.91 |
| | Indian Lake 82.103.170 |
| Glives to perfume 365 | Ivery black 103 |
| | Infants to color 113.119 |
| | Imagination bow strengthned 138 |
| | Iron color 150 |
| H H | Indian Varnish 176 |
| and the second of solar plates had been a | Iron to varnifb 174 |
| A LOUGH AND | Iron to tinge 194.196 |
| the second se | Iron to whiten 195 to festen ib. |
| | Iron to keep from rufting 195 |
| | Iron to harden 196 to folder ib. |
| Hedera gum 74 | Instruments of Casting 200 |
| Hair color 85.149 | Iron to gild \$15.216.217 |
| | Inkgreen to make 219.220 |
| | Ink blae 220 |
| The state of the s | the second se |
| and share the state we want | T TOPY |

4792X

harj 1 Heast Invent

> Jupi Janu Fafti Fafti Injat Inta June June Inta Inta Inta

Kuri Kaio Kali

Light Lifes Loted

| Luory to whiten | 224 | Landskip to limn | 98.111 |
|---|--------|--|-----------|
| Ideas their usc 23 | 2.233 | Light and (badow | ILO |
| Inventors of Painting who | 234. | Leopard to limn | 132 |
| 123 | 6.237 | Leather to paint | 148 |
| Jupiter to depict | 265 | Landskip to paint | 151 |
| Janus 277 Juno | 279 | Life and Motion | 156.257 |
| Fuffice and Innocence 30 | 4.311 | Logwood | 165.182 |
| Foy, Follity, Impudence | 305 | Lapis Lazuli to imita | te 178 |
| Injuria 312 Indus | 314 | Lignum Nephreticu | 179.182 |
| Iris 317 Januar | y 320 | Liquor to make colorles | s 183 |
| June, July | 321 | Leather to varnish | 175 |
| fuice of Macaleb | . 361 | Leather to color yellow | 181 |
| Ink to make | 367 | Lead to tinge and purge | : 197.198 |
| | 375 | Linen to gild | 217 |
| Iron or Mars | 380 | Light its nature and qu | |
| BIRS - PLAN STATE | | Luna to depict | . 275 |
| K | | Law | 304 |
| Knuckles 22 Knee | | Love | 305 |
| Knives to engrave with | | Laughter | ibid. |
| Kali of what uje | 209 | Liberty | ibid. |
| 100 · · · · · · · · · · · · · · · · · · | | Liquor of Talk | 328 |
| L. L | 1. 1. | Lac Virginis to make | |
| | 7.9.94 | Lard muskified | 363 |
| Life to imitate | | Linen to perfume | 367 |
| Landskips 12.30.44.0 | 55.98. | Lung on Cilaron | 377 |
| 111.138.15 | 1.159 | Luna or Silver | 384 |
| Love to express | 25 | Line of Life | 389 |
| | 37.41 | M | |
| Linea Jovialis, Satur | Tuno, | and the second of the second sec | 6 28 |
| Solaris, Mercurialis, ris, Stellata | Luna- | Mulcles to de im | 9.0 |
| Tis, Stellata | 4/ | Majter to choose | 111111110 |
| Luna her fignification | e 73 | and the second se | 10 101137 |
| Limning and its material. Liquid gold and filver 73. | 86 160 | Menfa | 47. |
| Liquia gota ana proce 13. | 74 | Mars his fignification | |
| Lake gum | | Mercury his fignificat | |
| Lamp-Black Litmos blue E0.14 | 67.182 | Masticet | 79 |
| Light green | BLISI | Murry | 30.83.104 |
| Lead color | SI | Manner of fitting | . 94 |
| | | Miniture | ibid. |
| Lake Crimfon 82.10 | | | 77.102 |
| Light blue | 85 | Mountains to limn | 117 |
| Leaves of trees | 86 | Marble Pillars | 123 |
| Limning Table | 92.111 | Mesals to lima | 1:3 |
| Harri & T | 1 | and the de a new | Marigold |

The Table?

1

Gigina Grucki Ops # Occat Opiniu Odo Oil of
> Polygy Pictur Penci Penci Penci Pafia Propa Pafia Patrice Patr

| Marigold to lima | 125 | N | Mary All |
|--------------------------|---------|-------------------------|-----------|
| Melons to limn | | Nofe | 16.110 |
| Mulberries to limn | | Naked body to shade | 2.2 |
| Mice 120 Mon | key 131 | Needles to etch with - | 61.64 |
| Madder | 366 | Needles to whet | 61 |
| Mixing of colors | 169 | Naked bodies to limit | |
| Marble to imitate | 177 | Night Sky | ISI |
| Mercury Sublimate | | Natures help in Paint | ing 241 |
| Mercurius Vitæ | ibid. | | .277.318 |
| Mineral colors 184. | 213.214 | | 282.284 |
| Minium what | 187 | | 284 |
| Metals to make tough | 199 | Night / | 298 |
| Metals to tinge like Go. | | Numa Pompilius | 301 |
| Metals to melt | 202 | Natural affection | 305 |
| Materials of Casting | ibid. | Nilus | 313 |
| Medal or form | 203 | Niger | 316 |
| | 218.221 | Nymphs | ibid. |
| Maximus his end | 235 | | ibid. |
| Magnificence of works | | Naiades manage | 317 |
| Mars to depict | | November | 322 |
| Mercury | 273 | NaturalLine | 390 |
| Minerva | 239 | 0 | |
| Moles | 300.301 | Oval | 4.44 |
| Mahomet | 302 | Out Schetches | Statute 8 |
| Modefiy | 304 | Optice | 37.38 |
| Mercy | 311 | Objet | 37.42 |
| Mules to depict | 318 | | 39 |
| Melpomene | ibid. | Oil-ftone | 52 |
| Months to depict | 320 | Oyl prepared | 60 |
| March, May | · 321 | | . 78 |
| Morphew to take away | . 329 | Orchal | 80 |
| Mercurial Cosmetick | 329.330 | Oker de luce | 79 - |
| Matter of Perfumes | 340 | Orient Violet | 84 |
| Milk of Macaleb | 361 | Oker | IO2 |
| Mineral Perfumes | 363 | Observations of Limni | ng 106 |
| Mars of Iron | | Old bodies to limn 114 | |
| Mercury Quickfilver | | Owl to limn | |
| Musk its Effence | 350 | Oxen to limn | 131 |
| Muscadines so make | 357 | Orange color 148 | .150.167 |
| Menfa or Table | 403 | Old painting to cleanfe | 154 |
| Mons Lunz | 401 | Oil of Tartar | 180.330 |
| Mons Solis | 399 | Oil of Flints or Sand | 201 |
| Mount of Venus | 400 | Oak-Plates | 204 |
| Mount of Mercury | | Oil of Turpentine | 304 |
| Charles and the second | 5 7 | | Original |

Original

IO

| | D | |
|---|---|-------------|
| Original of these Arts | 231 Pinkyellow | 79.102 |
| Opticks their use | 251 Purple deep | 80.82 83 |
| Ops to depict | 281 Pure lake color | SI |
| Oceanus to depict - | 284 Purple garments | \$4.149 |
| Opinion to depict 28 | 89.305 Popinjay green | 85 |
| October to depict | 321 Purple light | ibid. |
| Oil of Campbir to make | 325 Peach color | ibid. |
| Ointment Cosmetick | 331 Preparation of colors | 89 |
| Oil of Ben | 343 Pencils to walk | 91.142 |
| Oils by Infusion | 347 Preparations for limn. | ing 92 |
| Oleum Imperiale | ibid. Practice of limning. | 94 |
| Oil of Cinamon | 348 Pearls to limn | 98.150 |
| Oil of Rojes | 347 Pictures to preferve | |
| Oil of Calamus Aromat | | IOL |
| Oil of Rhodium | ibid. Pears to limn | 126 |
| Oil of Ir dian Spicknard | | limn 127 |
| Oil of Benjamin | ibid. Phefant to limn | 129 |
| Oil of Storax compound | | 137 |
| Ox dung Powder | 352 Painting in Oil | 140 |
| Orrice Powder | 353 Primed Cloth | ibid. |
| OTTIC I UMACT | Pallet | ibid. |
| P | Purple Velvet and Sa | |
| Polygraphice what | 1.2 Painting to cleanfe | 154 |
| Pictura | 1 Pisture in general | 155 |
| | 41.165 Pictures to place or d | |
| Proportion | 2.254 Porch | ibid. |
| Paffion | 2 Painting of walls | 161 |
| Pens | 3 Painting of glass | 163 |
| Pastils to make | 3. Ioz Printers black | 165 |
| Precepts of Drawing | 4 Privet berries | 181 |
| Polygon | 5 Paintings to varnish | |
| Pictures to reduce | 6 Paper to varnifb | 174 |
| | 7.9 Putty what | 186 |
| Plaster-work Particular Observat in | Draw- Purple to dye | 188 |
| | 7 Philosophers Trees | 200.201 |
| ing Pattern to place | 9.11.12 Pipe to blow with | 204 |
| the second se | 22 Pledgets of Wool | ibid. |
| Paps of a man Pallions to extre le 25 | 156.158 Pearls artificial | 210 |
| Diffune to extend on con | tract 36 Proportions of min | |
| | and the second se | 213 |
| Perspective Profice of Perspecting | 37 43 Paper to marble | 219 |
| Practice of Perspective | 53.59 Purple dyc | 226.128 |
| Plates to polish | | |
| Plates to cleanfe | 56.68 Painting whence | 233 |
| Prepared Oil | 63 Paffions their use | 235 Pro- |
| Sand Sand | and the second | 6183 |

Safron Scarles Sad Cri Silver Silver Satin
Saphy Saphy Silver Smath Shy tal Sayrs Saing Silver

Stram Swan

Sheep Strein Saay o Siye Signifi Smarth Smarth Statur Statur Sam

Sjrap Sjrap Spirit Subli Silve Stane Sulph Spirit

| Contraction of the second s | | 1 - Charles Mar Alles and | |
|--|---------|---|---|
| Progress of Painting | 239 | Russet Sattin | 85 |
| Perfection of Painting | 250 | Ruffet to Shadow | ibid. |
| Pamphilus bis opinion | 251 | Rubies to limn | 98.151 |
| Proportion its uje | 254 | P | 104.105. |
| Perfection of Painting what | 261 | Ruins to limn | 116 |
| Peace to depict 297.309. | 204 | P | 122.171 |
| Phoebus to depiet | 260 | DI | the second s |
| Poppy its signification | 2.81 | 2 1 ** * | and the second se |
| Pan to depict | 201 | Red Sky | the second s |
| Pan his Graif stin | 20) | Red Varia | 151 |
| Pan bis fignification | 200 | Red Varnish to make | 175 |
| Pluto to depist | | Red Tincture | 185 |
| Parcæ 288 Pallas | 289 | Ruby artificial | 210 |
| Pleasure 299 Pythagor. | 302 | | 226.228 |
| Pleasure 305 Pastime i | | Ruffet dye | 226 |
| Proferpin. 306 Providence | | Right ordering of thing. | \$ 260 |
| Piety 311 Penitence | 313 | Roman Emperors | 302 |
| Po or Padus to depict | | Religion | 304 |
| Polyhymnia to depiet | | Rivers to depict | 313 |
| Pimples | | Redness | 333 |
| Perfuming Oils | | Red Ink to make | 368 |
| Perfumed Lights | 361 | Red Tablets perfumed | 356 |
| Perfume of Paracelfus | 363 | Restricta | 395 |
| | 369 | Total Andres Burning | E.4. 31. |
| | 384 | S | |
| | 25 1 21 | Square | 1000 |
| Pomatum compound | | the second se | 122.45 |
| | bid. | the second se | |
| | | Shin-bones | 00.169 |
| a omanacis jui Braccicis | 270 | | 23 |
| The second se | | Surfaces to Shade | |
| Quint El an en harden | -0- | Shades of Silk and fine L | |
| | | Sunto draw | 30 |
| Quick filver to tinge 189. | | | 37. |
| Quick-filver to fix | | Scenographia | 39:40 |
| Quick-filver or Mercury | 383 | subject to be seen | 40 |
| Cardina and a start and an | | Section | 41 |
| R | | Saturn's fignification | 47 |
| Rulers | 3 | Sol his fignification | 48 |
| Ribs | 22 | Silver and Gold liqu.73. | 86.184 |
| Radiations what 37 | -38 | Spanish white to make | 76.77 |
| | | Sinaper Lake | 77.103 |
| Roul to polifb with 54.56. | | | 02,169 |
| Reds. 76.82, 105.142.149.1 | 162 | Sabereen 78.1 | 70.181 |
| Red Lead 77. | 101 | - T | 79.167 |
| | | Smals | 80.168 |
| and the second s | and the | A wild a second a se | |
| and the second s | - | | Saffron |

| Saffron color | SI. | Sublimate diffolved | 186 |
|-----------------------|--|--|-------------|
| Scarlet color | 81.84.149 | Silver to soften | 190 |
| Sad Crimfon | | Silver to tinge | 191.192 |
| Silver burnished | 87 | Sal Ellebrot to make | |
| Size for burnisht Go | 1.1 88 | Silver to calcine | ibid. |
| Silver to diaper on | ibid. | Silver to blanch | 192 |
| Sattin black | 84.147 | Silv.to counterfeit 19 | 6.197.199 |
| Sattin white | 85.148 | Steel to barden and j | often 196 |
| Sattin ruffet | ibid. | Silver to folder | 200 |
| Silk changeable | | Solder to make | ibid, |
| Sky color | \$5.172 | Silver Tree of the Ph | ilof. ibid. |
| Straw color | 85.119 | Steel Tree of the Phi | losoph. 201 |
| Steeped colors | 89 | Sand to cast with | 203 |
| sbadows for colors | 91 | Skrew | ibid. |
| S'bells for colors | 92 | Salts for counterfeit (| Fems 209 |
| Sitting to limn | 94 | Sappbyr artificial | 212 |
| Sapphyrs to limn | 98 | Silver to gild | 215.216 |
| S'apphyr color | 104.105 | Silk to gild | 217 |
| Silver black | 104 | Steel, Stone to gild | 218 |
| Swarthy complexion | 106 | Silver Letters to mai | ke 219 |
| Sky to limn | | Skins to dye | 220,221 |
| Satyrs | | Skins to gild | 221 |
| Sandy grounds | | Spots to take out | 227 |
| Silver | | Steps of Perfection w | |
| Straw-berries | 127 | Saturn depicted | 263 |
| Swan 128 St | tork 129 | Sol to depict | 269 |
| Sheep 130 36 | rpents 132 | Satyrs and Sylvans | |
| | | Sifters to depict | 288 |
| Stay or Moll-Stick | 141 | and the second se | 292 |
| | | and the second se | ence 299 |
| significations of col | TANK TO BE AND | Socrates | 300 |
| Swarthy complexion | 145 | a state of the sta | 302 |
| Sattins to color | | Soul | 305 |
| Sea-green Velvet | 146 | Safety 305 Sc | |
| Stair-caje | 159 | Sphynx what | 313 |
| Summer-bou(es | | September to depie | |
| STrup of Violets | 180,182 | Skin to paint | 322.325 |
| Syrup of Clove-gill | liflowers 181 | Spanish Wool | 327.323 |
| Spirit of Salt | 182 | skin to make jost an | |
| Sublimate | | + Skins to perfume | 365 |
| silver to varnish | | + Sealing Wax | 369 |
| Stone to varnish | | . Saturn or Lead | 377 |
| Sulphur of Vitriol | | s Sol or Gold | 380 |
| Spirit of Sulphur | ibid | . Silver or Luna | 384 |
| a sector | The state of the s | | Scurf |

Unit

Velta Billory

Venus o

Anguen Unguen Unguen Via Ma

Via La Via So

Walking Whole in

Way

Wood in Way of L Wook of

White as White Le White Sa

Watat o Wata n Wata n Wata n

Wontes Wells to Walante Walf Water:

Whiting White Le

Wed to f Wed chi Wede to Wels to Wafting

Weed to White Pr Way of C White E

Wood in Weaking

| Scurfto take away | 329.334 | Thamefis | ibid. |
|---------------------------------|---------------------------------|--|-----------------|
| Sun-burnings | 333 | Thalia | 318 |
| Stinking breath | 337 | Terpfichore | 319 |
| Sweet waters in the to | | Trunks to perfume | 367 |
| Soap of Naples | 361 | Tin or Jupiter | 378 |
| Soap musked | 360.361 | Tablets perfumed | 350 |
| Smoking Perfumes | 100 0: 362 | Table of the Hand | 403 |
| trilele and folice or she | A TO LETT | Thumb and Fingers | 404 |
| Lo Tishia | | the state of the s | (an although a |
| Triangle | 5 110r 103 | aparta Villa | |
| Touches which give lij | 8 16 | Uncertain Forms | 6.28 |
| Table of the hand | 47 | Visual point | 40.4T |
| Trough and Frame | 62 | Vi (ual rays | 1 42 |
| Turnjole | 77.167 | Venus her fignificatio | 2 48 |
| Trees to color 86 | .118.151 | Varnish for Etching | 63 |
| Tables for limning | 91.111 | Varnifb bard to ule | 013 162 |
| Terra Lemnia | 103 | Use of the Aqua fort | S 66.71 |
| Topaz colar | 105 | Use of the foft Varnifb | 69 |
| Towns to limn 5 0 | 116 | Ule of the Gums | .74 |
| Thatche Cottages to lin | 11 119 | Vermilion Vermilion | 77.81 |
| Tin to limn Tulip Turneps | 123 | | .104.166 |
| Tulip | 201 124 | Verditure | 78 |
| Turneps and ogh | TellI25 | Umber 2 | 79.102 |
| Turkey the another | 128 | Ultramarine | 79.105 |
| Tawny complexion | 145 | Violet color 2011 | \$1.82.84 |
| Tawny Velvet | | | 84.146 |
| Taffeties to paint | | Various degrees of cold | ring 113 |
| Tortoise-Shell to imit | ate 177. | Virgins to Limn | 8 114 |
| and a state of the second | 178 | Unicorn to limn | 130 |
| Tin to varnifb | the second second second second | Velvets to color | 146 |
| Tincture red | 185 | Varnish common | 154 |
| Tin to harden | 198 | Varnishes to make | 173 |
| Trough | | Universal Varnish | 175 |
| Tripoli and area | 203 | Varnish Indian | 176 |
| Tongs | 204 | Varnishing | ibid. |
| Topaz artificial | 211 | Vegetable colors | 179 |
| Tin to gild | 218 | Vellom to varnish | 174 |
| Truth to depict | 297 | Volatil Spirit of Sulphu | 1 185 |
| Tellus to depict | 284.305 | Vermilion what | 187 |
| Thetis | 284 | U[c of Painting | 244.245 |
| Triton | 305 | Venus to depict | 272 |
| Time to depist | 307 | Vulcan to depict | 295 |
| Tibur | 313 | Virtue to depict | 296.310 |
| Tigris | | <i>Ananimity</i> | 304 |
| Land a stand and a stand | | the second second | Urania |

| bid; | an and a second s | TT AL . |
|-------------------------------|---|--|
| | | Washing whence 233 |
| 318 | | Wildom 304 |
| 19 | Victory 309 | Watchfulness ibid. |
| \$17 410 | | Wit 305 |
| 316 | Unguents perfumed 351 | Winds to depist 320 |
| 311 | Unguentum pomatum ibid. | White paint 325 |
| 423 | Unguentum moschatum 352 | Wonderful Cosmetick 329 |
| 424 | Via Martis 398 | Wash to whiten the skin 332 |
| 100 | Via Lactea 402 | Warts and Wrinkles 335 |
| 6.11 | Via Solis 399 | Waters sweet to make 345 |
| Carlo In the | Washing 13.14 | Writing Ink to make 367 |
| 42.41 | Whale had to do not | Wax to make 369 |
| 4 | Whole body to draw 19 | Wash-balls perfamed 359 |
| 43 63 | Way of Engraving 55 Wood to engrave 57 | Tanta salar salar da la la |
| and the second second | | Yanaandua |
| 63 66.71 | | Xenocrates 300 |
| on the Real Property lies and | Work of Exching to Guil (0 at | Xylobalfamum 343 |
| 69 | Work of Etching to finish 68.71 | Xylo-aloes 362.365 |
| .74 | White colors 75.142.162.186 White Lead 77.103 | Tallong at a start of a li |
| 77.81 | White Sattin 85 | Tellows 76.142.162.163.185. |
| 78 | Walnut color 86 | Tellow color 82.105 |
| 19.101 | Wattr to color \$6.171 | x.11 0 |
| 79.105 | Washed colors what 89 | Cr-II III |
| 1.82,84 | Women to limn 114.119 | There and a la la la |
| 84,146 | | 2 - II and II I |
| 17 113 | | rolling C |
| II4 | | Tellow Leather 147 148 |
| 130 | | Tellow Fuftick berry 167.170 |
| 146 | | Tellow Wax to whiten 179 |
| 154 | Whiting 141 | Tellow Varnish 175 |
| 173 | | Tarnto dye 225 |
| 1 1 1 2 1 | Wood to paint 151 | Tellow dye 226.227 |
| 175 | Wood colors ibid. | Tellow Tablets perfumed 357. |
| ibid. | Ways to pains . 161 | 1. 1. 3.4. |
| 179 | Washing and its materials 164. | Z |
| 174 | 172 | Zaffora to tinge Glass with 188 |
| ilf | Wood to Varnih 174,175 | Zink to tinge Copper with ibid. |
| 187 | or pile r recipitate 186- | Zeuxis his boldnejs 247 |
| 4445 | Way of Calting 205 | Zeufippus 300 |
| 375 | Wosse Enamel 213 | Zeno ibid. |
| 190 | Wood to gill 217.218 | Zephyrus to depict 320 |
| 10,110 | Wood to dys 222.223 | Zibet 343 |
| | | a start of the sta |
| 304 Irania | | ERRATA |
| ALADA | and the second second | and the state of the second |

ERRATA.

)Age 9. line 19. read schetches, p.11.1.25. r. schetch, 1.32. r. schetcht, p. 22.1 4.r. nineth Chapter, p. 25.1. 23. r. seventh Chapter, p. 43.1.5.r. delineation, p. 46.1. 17. r to Chap.8. p. 60. 1.9.r.a glafed Pot, p.75.1.9.r.takes away, p.83.1.23. r. twenty feventh Chapter, p.85.1.10. 1. Oker de luce, p.93. 1.4. r. are, p. 101.1. 17.r. faint places, p. 105.1. 20.r. Oker de luce, p. 111.1.28. r. or reflexion, p.118.1.13.r green, p.119.1.17. dele the comma after Flake, p.145.1.6.r. of each alike, p.152.1.6. r. Chap 17. 1.7 r. Chap 27 532, p.155.1.17.r.is that, 1.34.r. Flower de Luce, p. 187.1.2. r. greyish pouder, p. 188.1. 10. r. in the fusion, p. 201; 1.13.r smelling, p.255 l.11.r. Parrhasius; Polycletus was, p.273. 1.16. dele [See &c. of the first Book] p.284.l. 1.r. Chap.32. I.12.r. Chap. 34. of this Book, 1.15.r. Chap. 32. of this Book, p. 292. 1.19. r. Plyche, p. 296.1. 18. r. Chap. 30. of this Book, p. 297. 1.32. r. Chap. 29. of this Book, p. 306. 1. 17. r. leaft heard, p. 308. 1. 11. r. to two, p.340.1.4.r. Calx of Luna, p.343. 1.26 r. Balanus myreplica, p. 376.1.12.r. about one ounce of, p. 381. 1.19. r. Chap. 77. p. 382. 1. 11. r. Chap. 63. p. 384. 1. 11. r. Chap. 66. p. 385. 1. 8. r. & poffibility but alfo a probability, P.390. 1. 1.1. or Mount, 1.27. s. replete.

INIS.

