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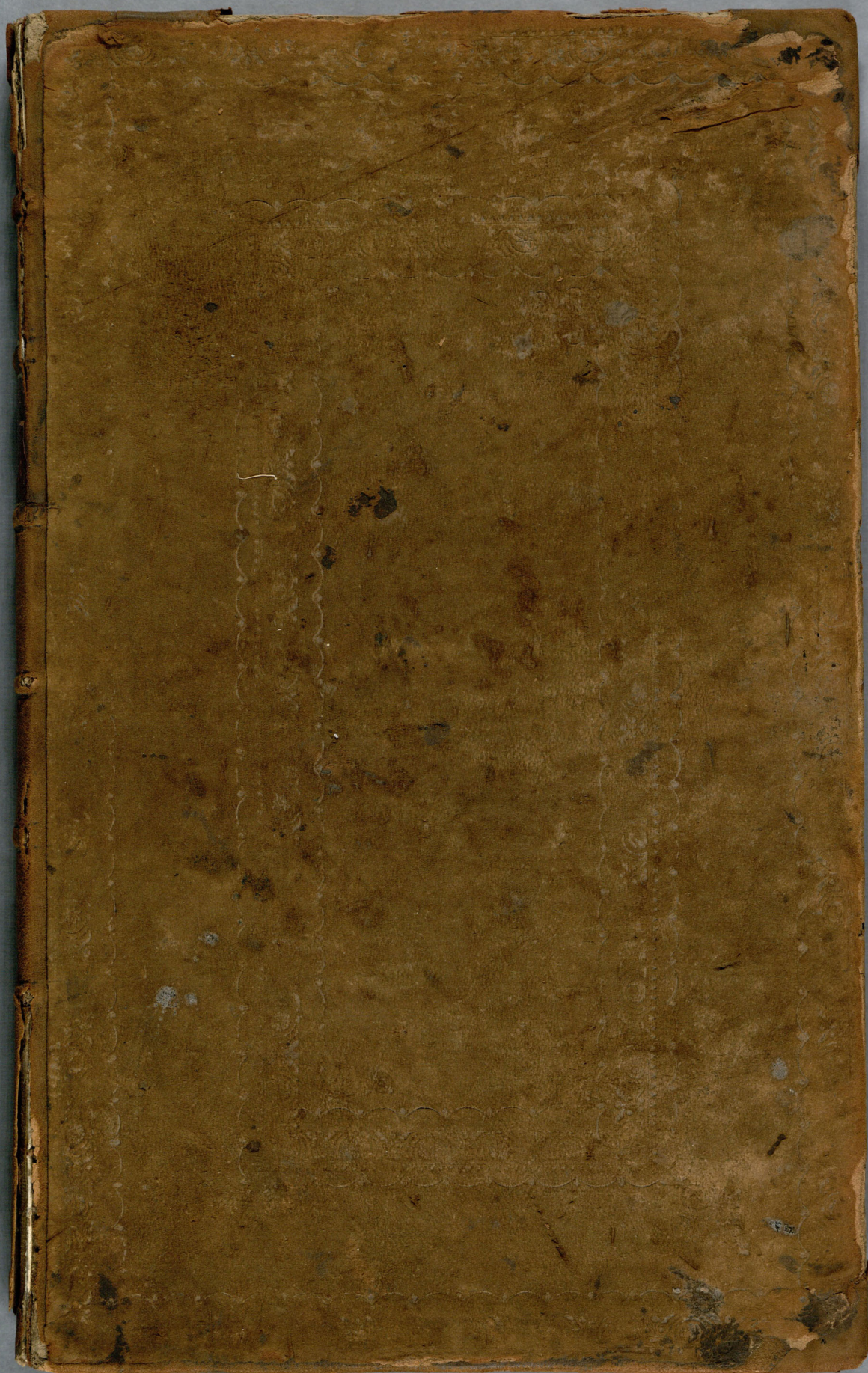
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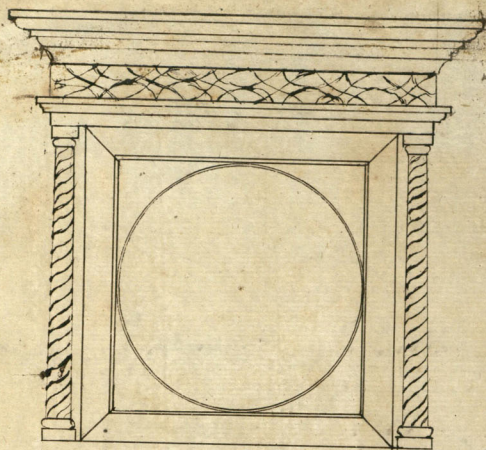


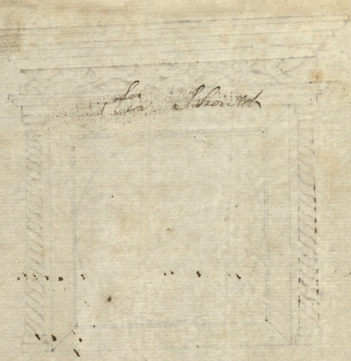


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Nathaniel Lassell's Book
November 27th 1761

November 27th 1781

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BRITISH ARCHITECT:
O R, T H E
BUILDERS TREASURY
O F
S T A I R - C A S E S.

C O N T A I N I N G

- I. An easier, more intelligible, and expeditious METHOD of drawing the FIVE ORDERS, than has hitherto been published, by a SCALE of Twelve equal Parts, free from those troublesome Divisions called *Aliquot Parts*. Shewing also how to glue up their COLUMNS and CAPITALS.
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By A B R A H A M S W A N, A R C H I T E C T.

L O N D O N :

Printed for and Sold by ROBERT SAYER, Map and Printseller, No. 53, in
FLEET-STREET.

THE
BRITISH ARCHITECT
AND
BUILDERS TREASURY
ST. ALBANS

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T H E

I N T R O D U C T I O N .

THOSE who are well acquainted with this Subject, and have had large Practice in it, must, I think, allow that there needs no Apology for presenting the Public with the ensuing Treatise, which is *chiefly* designed for the Benefit of such as have had less Practice therein; to whom I hope it will prove no uninstractive Piece. Many Books of *Architectture* have been wrote, and some of them Pieces of great Value; yet after careful Perusal I have never found any of them fit to give a Learner tolerable Satisfaction. And I might venture to say there is no Book yet extant which contains the Rules and Examples of Drawing and Working in so large a Variety, and at the same Time in so plain and concise a Manner, as this single Volume.

Palladio, *Scamozzi*, and *Vignola*, are certainly the best and most celebrated Authors who have wrote on *Architecture*; yet they contain not all that is necessary to be known on this Subject; particularly with regard to *Stair-cases*, tho' allowed by them all to be one of the most considerable and useful Parts of a Building. The Examples which they have left us of these, are of very little Use either for Drawing or Working. *Palladio* tells us, that all Care imaginable must be taken in placing the *Stair-cases*; that it is difficult to find a proper Situation for them, which will no Ways damage the Rest of the *Fabrick*; that the less they are concealed from such as enter the House, the more ornamental they will appear; and that you should have a Sight of the best Part of the House before you arrive at them, by

B

which

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which Means the *Fabrick* will seem larger than it really is. With such general Directions he contents himself; and pretty much the same might be said of *Chimney-pieces*. But in both these Subjects I have laid down several Rules, and shewn several Examples, which will be found useful both for Drawing and Working.

There will be very little Difficulty to understand the Proportions of the *Five Orders*; the *Retail* Measures being exactly adjusted by a familiar Scale of Twelve equal Parts; and all the *Gross* Measures, such as those of the *Base*, *Shaft*, *Capital*, *Architrave*, *Freeze*, and *Cornice*, are shewn up the Sides of the entire Orders, and explained in View of the Designs. The *Doors*, *Windows*, *Chimneys*, and the *Decorations*, being fully described in their proper Places, it would be needless to say any Thing more of them here.

Although most of the Terms of *Architecture* have been already explained by several Authors; yet for the Benefit of those who may not have such Books, I shall here, beyond what I at first propos'd, give their Explication.

An *Order* in *Architecture*, signifies a Composition of the several Parts of an *Entire Column*; such as the *Base*, *Shaft*, or Body of the Column, the *Capital*, *Architrave*, *Freeze*, and *Cornice*: When these are all regulated by their proper Measures, some being plain and gross, others compos'd of more delicate Parts, according to the different Orders for which they are intended, and are all united and adapted to their proper Places, they then form that Part of a Building which is called an *Order*; and which adds greatly to the Beauty of the Building if rightly adapted, not to the Situation only, but also to the Rank and Dignity of the Owner.

Columns

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Columns may be called *Entire* without *Pedestals*; the chief Use of these being for *Ballustrades*, *Obelisks*, *Statues*, and *Dados* of Wainscotted Rooms, &c. where they are generally a fifth Part of the Height of the Room: The particular Measures of *Pedestals* are set to the Arches of each *Order*, where I think they are of little Use, except to shew their Proportions; for in *Porticos* and *Colonades*, to which *Columns* are chiefly used, we seldom find them set upon *Pedestals*. The *Doric Order* is so far from having a *Pedestal*, that in its Original it had no *Base*, as *Palladio* has shewn in his *Colonades*; and for this *Vitruvius* gives an odd Reason, which is, that this *Order* is like a strong and robust Man, such as *Hercules*, who was never represented but with his Feet bare:---Whereas the *Base* of a *Column* bears more relation in its Use to a Man's Foot, than to his Shoe; and may therefore be esteemed a necessary Part.

Of the several Parts of the Orders more particularly.

The *Base* imports of the Sustain or Foot.

In the *TUSCAN ORDER* it is composed of three Parts.

The lowermost Part is a flat Member, and is called the *Plinth*:

The next is the *Astragal*, which is in Form of a Semi-circle, with its Fillet; this, when used in the *Base*, is commonly called a *Torus*, which turns round the Column; the small Hollow or Cavity joining to the Fillet belongs to the Column. The first third Part of the naked *Shaft*, or Body of the Column, represents a Cylinder; the other two, the Frustrum of a Cone, but something swelling: On the uppermost Part of the *Shaft* is an *Astragal*, which, employed in this Place, is called a *Collar*, and turns round the Column.

The

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The next Part is the *Capital*, which begins with a Freeze, here called the *Neck*; at the upper Part of which is a small Hollow, with a small Lift or Fillet, which separates it from the *Quarter-Round*, or *Ovolo*. Over the *Ovolo* is a square Plinth, which is in this Place called an *Abacus*, and has sometimes a small Hollow and Fillet on the upper Part where it joins

The *Entablature*; the first Part of which is called the *Architrave*; this generally consists of two *Facia*, above both which is a Fillet with a Hollow underneath it. The next Part is a large plain *Facia*, called the *Freeze*, separating the *Architrave* from the *Cornice*.

The first Part of the *Cornice* is the *Bed-Mould*, which is composed of a Hollow, a *Quarter-Round*, and Fillets; over this is the *Facia*, or Front of the *Soffit*, *Corona*, or *Eaves*, which is sometimes plain, and sometimes a large Hollow, as in *Palladio*. At the Top of all is the *Cima* or *Ogee*, with its two Fillets.

An *Ogee* is formed by two Segments of a Circle, the one *Convex* and the other *Concave*, being sometimes the sixth Part of a Circle; but sometimes a much *quicker* Curve, that is to a shorter Radius, especially when used for the horizontal, or level Part of the *Cornice*, at the returned Part of the Foot of a *Pediment*; for else the *Raking-Ogee* will have a bad Effect.

In the *DORIC ORDER* the *Base* is called the *Attic*, and, besides the *Plinth*, is composed of two *Torusses*; the uppermost of which has two Fillets; the Hollow betwixt the *Torusses* is sometimes called the *Scotia*.

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The *Capital* in this *Order* is something different from the former, having an *Asragal*, or *Bead*, at the lower Part of the *Quarter-round*; *Palladio* sets to this Part three *Annu-lets*, *Lifts*, or *Fillets*. The *Abacus*, or *Fascia* above the *Quarter-round*, has an *Ogee*, and *Fillet*.

The *Architrave* is composed of two *Fascias*; on the upper are six small *Drops*, or *Bells* cut like a *Dove-tail*, set under a *Fillet*, whose Extent is equal to the Width of the *Triglyph* over it. The *Triglyphs* are projecting Parts in the *Freeze*, with perpendicular Channels or Gutters; the Depth of each is formed by a right Angle, and is Half the Width. The *Metopes* are the Space between them, which are perfect Squares; the *Triglyphs* are capt with a *Fillet*.

As for the *Cornice*; the *Bed-moulds* in this *Order* are various. That fixed to the *Profile* is only a *Quarter-round* with its *Fillet*, above this are the *Modillions* capt with an *Ogee*, set perpendicularly over the *Triglyphs*, and equal to them in Width; the *Paces* in the *Soffit* betwixt the *Modillions*, which often contain various Sorts of Flowers, are called *Coffers*, both in this and the following Orders.

In the *IONIC ORDER*. The *Base* nearly corresponds with the former, there being only a *Bead* introduced above the upper *Torus*; the *Capital* is different, for here and in the following Orders, the *Quarter-round* at the upper Part with its *Fillet* and *Hollow* is called an *Abacus*; and in the Centre or Middle of this *Capital* is a *Pomegranate*, from which springs the *Fillet* of the *Scroll* or *Volute*. Sometimes in this Place you have a *Rose* or *Foliage* Flower. The lower *Quarter-round* is carved with *Eggs* and *Darts*.

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The *Architrave* in this Order has generally three *Fascias*, which some separate by *Beads*, others by the Projection of a small *Fillet* only, as in the two lower; the upper has a large *Ogee* and *Fillet*, the Carving and Enrichment of which is called *Seven-leaved Grass*. The *Freeze* has nothing particular, except that it sometimes swells. The *Cornice* has a *Dentil Bed-mould*; its first Member is an *Ogee* with its *Fillet*, over which are the *Dentils* or *Teeth*; the next Member is a *Quarter-round*, or *Ovolo*, with its *Fillet*; above this is the *Fascia*, which contains the *Modillions*, capt by an *Ogee*; over this is the *Fascia*, or Front of the *Soffit*, and then two *Ogees*, with their *Fillets*.

There is no Occasion to enlarge upon the two other Orders, the *Corinthian* and *Composite*, since their Mouldings have the same Names as what I have already mentioned. The *Corinthian Capital* has two Rows of Leaves, one above another; between the Leaves of the upper Tier is shewn the *Helices* or Stalks, from which spring the *Scrolls* that support the *Abacus*.

But since *Architecture* is much more easily learnt by the *Eye*, than the *Ear*, I proceed to explain my Plates, which I shall do as briefly as possible; the Figures themselves being much more expressive than Words.



OF THE
O R D E R S
I N G E N E R A L.

The *TUSCAN* Order.



PLATE I. Represents the principal Parts of this Order.

PLATE II. Exhibits each particular Part at large.

The *Base*, *Capital*, *Architrave*, and *Cornice* are near *Palladio's* Proportions; but the *Freeze* is nine Parts more than his, and so make the whole *Entablature* equal to two Diameters, and also equal to Two-sevenths of the Height of the Column. The Height of *Scamozzi's Freeze* exceeds that which is exhibited in this *Profile* by one Part and a Quarter.

The *DORIC* Order.

PLATE III. Represents the principal Parts of this Order.

PLATE IV. Shews each particular Part at large, with two different Sorts of *Coronas*, or *Soffits*; one with its *Modillions* and *Flowers*; the other is what both *Palladio* and *Scamozzi* copied from the Theatre of *Marcellus* at Rome; and on the Left-hand of this is *Palladio's Bed-mould*; which is all the considerable Difference in this Order.

Scamozzi gives a *Dentil Bed-mould*, the Measures of which are placed to the lower *Cornice* in PLATE III. The *Cornice* over this has a *Fret Bed-mould*, taken from the Bath of *Dioclesian*, at Rome.

PLATE V. Exhibits the *Mouldings* at large, in Out-lines.

The

The I O N I C Order.

PLATE VI. Represents the principal Parts of this Order.

PLATE VII. Represents each particular Part at large.

The *Modillions* fixed to the *Profile*, with the Leaves underneath them, have been practised by Sir *Christopher Wren*, with the *Bed-mould* in the same Proportion as here exhibited, but not toothed. The same PLATE also exhibits *Palladio's Cornice*, with the *Modillions* finished strait behind; his *Bed-mould* is the same here as that which he has given to the *Doric Order*: The Height which he assigns to the *Freeze* in this Order is twenty-one Parts, and it swells equal to the Projection of the *Architrave*.

PLATE VIII. Shews the *Glueing* up of the *Capital*.

PLATE IX. Exhibits the *Mouldings* at large, in Out-lines.

The C O R I N T H I A N Order.

PLATE X. Represents the principal Parts of this Order.

PLATE XI. Exhibits each particular Part at large.

The *Modillion* placed to this *Profile* is shorter than *Palladio's* by two Parts and a Half, and seems to have a much better *Truss*; since his is longer in Proportion, than any that we find among the Antients, who certainly did nothing without the greatest Reason. *Palladio's Freeze* to this Order is twenty-five Parts. The Height of the Column in this Order is equal to ten of its Diameters; and the *Entablature* to two, or to one-fifth Part of the Column's Height.

PLATE XII. Shews the *Glueing* up of the *Capital*.

PLATE XIII. Exhibits the *Mouldings* at large, in Out-lines.

The C O M P O S I T E Order.

PLATE XIV. Represents the principal Parts of this Order. Underneath you have *Palladio's Cornice*. He gives twenty-four Parts to his *Freeze* in this Order, which is Half the Diameter of his Column.

PLATE XV. Exhibits this Order, as in its Original; with each particular Part at large.

PLATE XVI. Shews the Manner of *Glueing* up Columns.

Of the Arches of all the Orders.

PLATE XVII. Represents two *Tuscan* Arches; one with *Pedestals* and the other with a *Plinth* only the Diameter of the Column; which agrees with *Palladio's*.

The Piers are never more than Half the Opening, nor less than One-third; but *Palladio* seems to have more Regard to the Pierage and Opening of the Arch than to the Space betwixt the *Modillions*. He takes no Notice of the Rising of his Arch above a Semicircle; as *Scamozzi* has shewn his *Tuscan*, rising seven Minutes and a Half, which is equal to six of these Parts, his *Doric* rising ten Minutes, his *Ionic* twelve, his *Composite* fourteen, and his *Corinthian* sixteen Minutes.

Sir *Christopher Wren* seems to have exceeded these Proportions, in some of the Arches of *St. Paul's*; but this probably was the Effect of his very justly considering, that a lofty Arch, at a near View, will have Part of its Beauty hid, by the Projection of the *Imposts*; which made it necessary to give the greater Rising above a Semicircle to his Arches, which are lofty, and to be viewed but at a small Distance from their Feet. If the Arch be low, or is to be viewed at any considerable Distance, it need not rise but little above a Semicircle, the *Imposts* not being then capable of hiding much of it.

The lower Part of the *Key-stone*, and the *Architrave* that turns round the Arch, may be both made of the same Width.

It would be needless to say much more of the Arches, since the Measures are set to each particular Part in the Figures.

PLATE XVIII. Represents two *Doric* Arches; one with a great, and the other with a small *Impost*; and different *Key-stones*. The Width of these Arches is regulated by their Number of *Triglyphs*.

PLATE XIX. Represents two *Ionic* Arches, with different *Imposts* and *Key-stones*.

PLATE XX. Exhibits two *Corinthian* Arches, with their Measures set to each Part.

PLATE XXI. Shews the *Intercolumniations* of each Order from *Palladio*; with two Arches for Door-ways. You are to observe, that these Arches cannot be put in Practice, but where the *Impost* is above the Eye, which cannot well be less than the Height of six Feet.

Several Designs from *Palladio*, of Arches over Arches.

PLATE XXII. The Design in the Middle is taken from *Palladio's* third Book. The *Triglyphs* over the lower Arch are not to be the Guide in regulating its Width, there being but five in the whole Width betwixt the

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Columns,

Columns, which are nine Diameters in the Clear. Over this Arch is a *Venetian* Window of nine Diameters and eight Parts, from Column to Column; the eight Parts are occasioned by the Columns underneath diminishing one-sixth Part.

The other three Designs are taken from *Palladio's* second Book. The Design on the Right-hand represents two Arches, one over the other; the lower of which is a *Doric* Arch, five Diameters from Column to Column, and the *Ionic* above it is five Diameters and eight Parts. The Columns stand on a *Plinth* equal to Half their Diameter, and the *Ballusters* are in the Opening of the Arch.

Underneath you have the *Ionic* Order set upon a *Rustic* Basement. At the Left-hand are two Designs of *Venetian* Windows; the Opening of each Arch is six Diameters and a Half: The Spaces on each Side may be the common Intercolumniation, as there represented.

Four different Designs of Doors.

PLATE XXIII. The lower Design to the Right-hand is a *Doric* Door with *Rustic* Jambs.

Let the Height of the Column be divided into eleven equal Parts; then one and two-thirds is the Length of the *Key-stone*. From the Middle of one Column to the Middle of the other is six Diameters and a Quarter; and the *Entablature* is one-fourth Part of the Height of the Columns. You are to observe, that when the Columns stand on a Step, as in this Design, they are to have only their proper *Plinth*; but when used as represented by the lower Design on the Left-hand, there is sometimes Half the Diameter, sometimes three Quarters, and often the whole Diameter given to the *Plinth*. The upper Design on the Left-hand is an *Ionic* Door; the *Entablature* is two-ninths of the Column's Height, as is shewn on the Side; and the *Modillion*, with the Space betwixt each, is Half the Diameter and three Parts.

Several Designs of Doors and Windows.

PLATE XXIV. The *Trusses* for these Doors and Windows are described in the following, or on Plate XXV. and their *Architraves*, *Freezes*, and *Cornices*, at large, on Plate XXVI.

The

The Corner of a Door and Window, or Chimney, at large.

PLATE XXV. You have in this **PLATE** the Corner of a *Door, Window, or Chimney*, with its *Truss* at large; and the Measures set to each particular Part.

There are three different Rules, or Proportions for *Pediments*; which are two-ninths, one-fifth, or one-fourth of the whole Extent. It is the first of these that I have followed in **FIG. I.** two-ninths being the mean Proportion betwixt the other two.

In **FIG. II.** I have shewn the Manner of the *Raking Cornice*. To describe this — First from the lower *Ogee*, which is the Level, or Horizontal Part of the *Cornice*, from which draw the Lines that represent the Pitch of the *Pediment*, and divide its Height into four equal Parts, as in the Figure; then draw the *Raking Lines* 1, 2, 3, to the lower *Ogee*, and where they cut that *Moulding* draw dotted Lines, as *a b*, to the upright Line; then transfer these to the other two *Ogees*, and *a b*, *a b*, and *a b*, will have each of them an equal Projection from their respective Uprights: And so of the Rest. It will be needless to describe the Manner of a *Raking Hollow*, or *Round*, they being both formed in an *Ogee*.

FIG. III. Represents the upper Part of the *Modillion* with its *Capping*. The *Raking Mould* may be found in the same Manner as in **FIG. II.**

Two Designs of Cornices for Doors, or Windows.

PLATE XXVI. To proportion the upper Design — Divide the Opening of the Door into six equal Parts, as is usual; one of them is the Width of the *Architrave*, which may be divided into twenty-four Parts, by dividing one-fourth of it into six Parts; and dispose them as you see them marked in the Design. The *Freeze*, as shewn up the Side, is three-fourths of the *Architrave*; and a swelling *Freeze* must have its Projection equal to that of the *Architrave*. I have shewn a *Pine-Apple* to this *Bed-mould*; but it sometimes returns, with the Face of a *Dentil* each Way.

In the lower Design, the *Architrave* is divided into twenty-one Parts, by one-third Part divided into seven, as is shewn on the Side; and this regulates the *Cornice*, as above. The *Fillets* of the *Ogee* of the *Architrave* in both these Designs are drawn in their usual Proportions; but may have full as good an Effect, if made one-fourth, or one-half of a Part more; which may be taken from the *Fascias*.

Beneath

Beneath the lower *Cornice* at the Right-hand is an *Ogee*, with a Hollow at the Foot; which is sometimes used for a *Cornice*.

The Manner of proportioning Pedestal Stairs.

PLATE XXVII. Stairs of this Kind are seldom used less than four Feet wide; for which Width I have drawn a *Rail* at large. This may be divided into four equal Parts, and one of them is the Projection of the *Mouldings*, exclusive of the Space at the Foot of the Hollow.

To the Left-hand of the *Rail* is shewn one of these Parts divided into nine; dispose of these nine Parts to the Height and Projection of each *Moulding*; as you see in the **PLATE**.

To the Right-hand of the *Rail*, you have a different *Cornice* and *Base* regulated by the same Method.

On the Top of the **PLATE** to the Left-hand is shewn the upper Part of a Pedestal.

To proportion the *Margin* and *Mouldings* of which —

Let the Width be divided into six equal Parts; one of them is the *Margin*, and Half that may be the *Moulding*.

Or, you may proportion this by the Scale of nine Parts below; taking six of them for the *Margin*, and three for the *Moulding*.

To the Right-hand of this is the *Base* proportioned to the *Rail* at large.

Observe, that for every Foot the Stairs exceed four in Width, you are to increase the Width of the *Pedestal* by three Quarters of an Inch. If they are less than four Feet, then the Width of the *Pedestal* must be one-eighth Part the Length of the Step.

Another Sort of Pedestal Stairs.

PLATE XXVIII. These Stairs have a *Rail* and *Balluster* different from the former.

To the Left-hand you have the *Architrave*, *Freeze*, and *Bed-mould* for the *String-board*, in Proportion to the *Rail* below. The *Freeze* is twenty-seven Parts, or three-fourths of the Width of the *Pedestal*.

To each *Moulding* I have set the Measures of its Height and Projection; which Method is also observed in the following Designs.

A different Rail and Balluster.

PLATE XXIX. These *Ballusters* are very rich, and would, in my Opinion, produce a very good Effect, if put in Practice.

The

The Space betwixt each *Balluster* is equal to Half the Width of the *Balluster*, which is also equal to the shorter Side of the square Part at Top. The shorter Side of the *Plinth* is three Fourths of the Width of the *Balluster*. And the *Balluster's* whole Width is equal to the Width of the rising Part on the upper Side of the *Rail* drawn at large.

Another Sort of Pedestal Stairs.

PLATE XXX. These Stairs have a different *Rails* and *Ballusters*, still richer than the foregoing. The Measures of the respective Parts are proportioned as before.

This Plate also exhibits two different Sorts of *Freezes*; that over the Design with Oak-leaves and Acorns.

The Section of the Rail.

PLATE XXXI. This Plate represents the Section of the *Rail*, with its *Base*, *Architrave*, *Freeze*, *Bed-mould*, and *String-board*. The *Plinth*, with the twenty-three Parts set to it, stands along the Landing on the Gallery. The other Part of the *String-board* which falls below, covers the Joists.

To the Right is a *Pedestal*, with its *Base* turned round. Either of these Methods may be used, as is thought most proper; but I take the former to be the best Way, when the *Base* finishes against the *Pedestal*.

A Flight of Bracket-Stairs.

PLATE XXXII. This Plate exhibits a Flight of four Steps of very rich *Bracket-Stairs*; over which is a *Bracket* drawn at large. For the Length of the *Balluster* take the perpendicular Height from the *Nose* of the *Step*, to the under the Side of the *Rail*, which ought not to exceed two Feet two Inches.

PLATE XXXIII. A Flight of Stairs, with very rich Brackets.

PLATE XXXIV. A Flight of Stairs, with two different Brackets, at large.

A Stair-Case with two Flights.

PLATE XXXV. Here I must advertise the Reader, that I by no Means intended to confine myself to the Rules of *Perspective*, but to represent the Design in the most *useful* Form; and therefore continued the Steps all parallel to the first visual Line; for had they all directed

rected to the Point of Sight, it would have made the Design *useless* for what is intended.

FIG. II. Shews the Manner of drawing the *Ramp*; which is to rise equal to the Height of the first Step of the next Flight, and as much as its *Kneeling*; as is shewn by the *Ramp* intersecting the *Rail* of the second Flight.

FIG. I. Shews you how to make the two *Knees* agree with each other, which is done by drawing the dotted Lines from the Middle of the *Astragal*.

FIG. III. Shews the straight *Rail* intersecting a circular *Cap*.

FIG. IV. Shews the Manner of *Dove-tailing* the *Riser* into the Step. And

FIG. V. Exhibits the Plan of the Stairs.

A Stair-Case with three Flights.

PLATE XXXVI. This PLATE represents a *Stair-Case* of three Flights, with its Landing *Rail*; and under the third Flight you have two different Sorts of *Rails*.

FIG. I. Shews the solid Part of the Step out of which the *Scroll* is formed; where *o* represents the *Over-fail* of the Step; *b* the Thickness of the *Bracket*, with its *Mirring* to the *Riser*; and *s* the *String-board*.

FIG. III. Shews the *Scale* for drawing the *Scroll* of FIG. II. To perform which: — Take the Distance from 1 to the Centre, FIG. II. and set it from 1 to the Centre in FIG. III. Divide that Extent into three Parts, then set four such Parts on the upper Side of the *Scale*, and draw the Line from 4 to 1; set one Foot of your Compasses at 4, and strike the circular Line; let that be divided into twelve equal Parts, and then draw Lines from 4 through those Divisions, to the upright Line.

[The *Scale* being thus made, then by it to draw the *Scroll*.]

Instead of taking from 1 to the Centre, or from 2 to the Centre in the *Scale*, as was shewn by the *Ionic Scroll*, you are here to take the Mean betwixt them; then set one Foot of your Compasses in 1, and describe a Stroke at *c*; take the same Distance and with one Foot in 2, cross the Stroke at *c*; then from *c*, turn the Part from 1 to 2, and proceed in the same Manner; for if the Distance were taken in the *Scale* from 1 to the Centre, it would strike the Circle too flat, and if it be taken from 2, it then strikes the Circle too quick.

When this is well understood there will be no great Difficulty in drawing the *Scroll* over FIG. I. which throws itself out farther in Proportion than that in FIG. II. for this will always be the Case, when the upper Line of the *Scale*, which consists of four Divisions in FIG. III. is made but with three Divisions or less; whence it appears that the upper

Line

Line of the *Scale* may be drawn at what Length you please, according as you would bring in, or keep out the *Scroll*.

The Manner of squaring Twist-Rails.

PLATE XXXVII. FIG. II. Exhibits the *Pitch-board*, to shew what Part of the *Step* the twisted Part of the *Rail* contains; the three dotted Lines drawn from the *Rail* to the *Pitch-board* represent the Width of the *Rail*, that from the Middle shews the Ridge, or Middle of the *Rail*, which is to be kept level. The dotted Lines *a*, and *b*, shew how much Half the Width of the *Rail* turns up from its first Beginning to 3.

FIG. III. Shews the same *Pitch-board*, with the Manner of the *Rail*'s turning up. If the Sides of the twisted Part of the *Rail* be shaped by the *Rail-mould*, so that they direct down to its *Ground-plan*; that is, the upper Side of the *Rail* being first struck by the *Mould*, then apply the *Mould* to the under Side, as much back as the *Bevel* of the *Pitch-board* shews, by being struck on the Side of the *Rail*; and then FIG. III. being applied to the Outside of the *Rail*, from its first twisting Part to 3. will shew how much Wood is to be taken off.

FIG. V. Exhibits the Square of the *Rail*, with the *Raking* Line of the *Pitch-board*, drawn through the Middle on the upper Side; then draw the Depth of the Side of the *Rail* parallel to this, and the dotted Lines from the Diagonal of the *Rail*; these Lines shew what Quantity of Wood will be wanting on the upper and lower Sides of the *Rail*. Set your Compasses at *c*, and draw the circular Stroke from the *Raking* Part of the *Pitch-board* to *b*, take the Distance *a b*, and transfer it from *a* to *b*, in FIG. VII. the several Distances thus found may be set at any Number of Places, ranging with the straight Part of the *Rail*; and it then forms the Width of the *Mould* for the twisting Part of the *Rail*.

FIG. VII. Shews the Sweep of the *Rail*. The *Rail* cannot be fixed less than one Part from *Noting*, or Front of the *Step*.

The remaining Part of the *Pitch-board* may be divided into any Number of Parts, as here into four; from these Divisions draw Lines across the *Pitch-board* to the *Raking* Line, then taking the Distances from the Ground-Line of the *Pitch-board* to the Plan of the *Rail*, and set them perpendicular from the *Raking* Line of the *Pitch-board*; so shall these Divisions, when the *Rail* is in its proper Position, lay directly over the Divisions on the *Ground-Plan*.

In this Figure, *l*, *m*, and *n*, rise as much above *o*, as the dotted Line in FIG. V. does above the Width of the *Rail*, and they sink as much below *o* as the other dotted Line in FIG. V. falls below the Width of the *Rail*; the same Thicknesses must be glued upon *o*, though the greatest Part will come off in squaring. The Reason of placing the Letters, *l*, *m*, and

m, and *n*, where you see them, is, that they might not obstruct the small Divisions of the *Rail-mould*.

FIG. IV. Shews how to find the *Rail*, when it takes more than one *Step*. The remaining Part of the *Pitch-board* is divided into four Parts as before in FIG. VII. and it takes in two such Parts of the next *Step*. Draw Lines from these Divisions to the Diagonal of the *Pitch-board*, as in FIG. VII. then take the Distance *a b*, and set it from *c* to *d*, and so proceed with the other Divisions.

Here is also shewn another Way to find the Outside of the *Rail-mould*. Draw all the Divisions across the *Plan* of the *Rail*; then take the Distance from the Ground-Line of the *Pitch-board* to 4, transfer it from the Diagonal of the *Pitch-board* to 4 on the *Rail*; and so proceed with the other Distances. Then, when the *Rail* is put in its proper Position, *c* will be perpendicular to *b*, and all the Divisions, as 1, 2, 3, 4, &c. in the *Rail*, will be perpendicularly over 1, 2, 3, 4, &c. in the *Ground-plan*.

FIG. VI. Shews the *Plan* of a *Rail* of five Steps.

To find the *Rail*: — set five Divisions, as from *e* to *b*, which is the Height of the five Steps; draw the Diagonal from *b* to the *Plan* of the *Rail*, then take the Distance *e f*, and transfer it from *g* to *b*, and proceed in the same Manner with the other seven Distances.

To find the Width of the *Rail-mould*—draw the Lines across the *Plan* of the *Rail*, as at *k*, set that Distance from the Diagonal to *i*; and so proceed with the Rest, as was shewn in FIG. IV.

Having formed the Sides of the *Rail*, perpendicular to its *Ground-plan*, and having squared the lower End of the *Rail*, then take a thin Lath and bend it within the *Rail*, as is represented by *m*, in FIG. I.

This is the readiest Method for squaring a *solid Rail*; but if the *Rail* be bent in the Thicknesses, the *Noting* of the Steps must be drawn upon a *Cylinder*, or some other solid Body of a sufficient Width to contain the Width of the *Rail*, or *String-board*.

r Represents the Depth of the *Rail*, touching the *Nose* of each *Step*. You are to take a sufficient Number of Thicknesses of this Width, to make the Thickness of your *Rail*; glue them together upon your *Cylinder* or *Templet*, confine them till they are dry, then the *Rail* taken off is ready squared. Proceed in the same Manner with the *Architrave* marked *a*.

A Common Stair-Case.

PLATE XXXVIII. The *Rail* and *Ballusters* of the second Flight are removed out of their proper Place, in order to shew the Manner of their finishing to the next Story. At the End of the *Winders* is a *Sky-Light*, with what is generally called a *Bridge-flight*.

To

To make a *Pitch-board*, to frame for the *Windows* — Divide the whole Width into as many Parts, as you have *Steps* to come against it, which in this Design are four, allowing the same Height as to the other *Steps*; this Height will be sufficient for the Whole, though it cannot answer to every *Step*, since they are of different Lengths.

PLATE XXXIX. Represents twelve different Sorts of *Brackets* at large.

PLATE XL. Shews eleven different Sorts of *Ballusters* at large.

PLATE XLI. Exhibits three Plans of Houses; wherein the most convenient Situation of the Stair-cases is shewed.

The Situation of the Chimneys is indeed different from what is commonly practised in *England*; but is taken from *Palladio*, who seldom failed placing his Chimneys betwixt the Windows, that Persons might at once enjoy the Benefit of the Fire, and the Prospect.

A circular splayed Soffite, for Doors and Windows.

PLATE XLII. FIG. I. Shews the Opening of a Window in a strait Wall: Draw the Lines ranging with the *Splay* of the *Jambes*, where these meet, as at *a*, is the Length of the Radius, for drawing the Curvature of the *Soffite*; then take the Distance *a b*, transfer it from *c* to *d*, in FIG. II. then set your Compasses in *c*, and draw the circular Line *e d*; then set on the Width of your *Soffite*, and draw the external Line; this, when bent to a Semi-circle, will range along with each Part of the strait Wall.

FIG. III. Represents the Opening of a Window, of the same Width as the former, in a circular Wall.

FIG. IV. Shews the open Part of the Arch.

The *Arch-line* may be divided into any Number of Parts, as here into Twelve. Draw Lines perpendicular from the *Base-line* through all these Divisions to the Line *b*; then in FIG. V. draw a circular Line, as if for a strait Wall, and divide it in the same Number of Parts, as the *Arch-line* in FIG. IV. then take off the Distances from the Line *b*, to the circular Wall, and set them from the outside Line in FIG. V. as at 1, 2, 3, &c. to 12. Then you will have the true Curvature of your *Soffite*, which, when bent to a Semi-circle, will in every Part agree with a circular Wall.

FIG. VI. Shews a Cone, cut off by the Wall-line.

A Cornice for a Chimney.

PLATE XLIII. To proportion this Cornice — Let the *Architrave* be divided into three equal Parts; divide one of them into ten, and dispose them to the Height and Projection of each *Moulding*, as is shewn in the Plate.

I have made these Divisions by a *Diagonal Scale*, because I take that to be the readiest Way, once setting the Compasses being sufficient.
The *Architrave* is one-sixth Part of the Opening, as usual.

A different Cornice and Architrave.

PLATE XLIV. The *Architrave* here is divided as in the former; the Measures are to be disposed as in the Plate.

A different Cornice and Architrave.

PLATE XLV. The *Architrave* here is divided into four Parts, and one of them into eight; dispose of them as in the Plate, to each particular Part.

A Cornice in the same Form, but larger in Proportion than the foregoing.

PLATE XLVI. The *Architrave* is here divided into three Parts, and one of them into ten; dispose the Measures as in the *Design*.

Several different Mouldings for Frames.

PLATE XLVII. There are three different Rules for proportioning these *Mouldings*; — One is to divide the whole Width of the *Frame* into seven equal Parts, and take one for the *Moulding*; the next is to divide it into fifteen, and take two for the *Moulding*; and the last is to divide it into eight equal Parts, one of which is given to the *Moulding*. Having thus found the Width, you may divide it into three equal Parts, and one of them into nine; then dispose these Parts to the Height and Projection of each *Moulding*, as is shewn in the Plate.

A Chimney-piece, with a Frame over it, for a Picture or Pannel.

PLATE XLVIII. The Opening of this *Chimney* is a perfect Square, which is certainly a very good Proportion, except when they run to a great Extent; then the Width of the *Chimney* may be divided into thirteen Parts, twelve of which may be the Height; or into seven Parts, and take six for the Height; or into fifteen, and assign thirteen for the Height.

Whichsoever

Whichsoever Proportion you follow, it makes no Alteration in the Ornaments. The *Architrave* is one-sixth, as usual; the Width of the *Architrave*, and one-third Part more, gives the Height of the *Freeze*.

Over this *Chimney-piece* is a very rich *Frame*, for a *Picture* or *Pannel*. To proportion which—divide the Width within into eight Parts, seven of these Parts will be the Height within, and one of them is the Width of the *Moulding*; as was shewn at large in the foregoing Plate. The *Knees* at the Corners are to be made of different Lengths, according to the Ornaments which are intended to be put in.

Another Chimney-piece, with a very rich Frame over it.

PLATE XLIX. The *Architrave* of this *Chimney-piece* is one-sixth Part of the Opening; and the *Truss* is two-thirds of the *Architrave*.

Over this *Chimney-piece* is a very rich *Frame*; the Ornament on the Top is represented something in the Form of a *Pediment*.

The *Moulding* of the *Frame* may be proportioned as the foregoing.

Another Chimney-piece, with a very rich Frame over it, adorned with a Pediment.

PLATE L. The *Architrave* from Outside to Outside is divided into seven equal Parts; one of which is the Width of the *Truss*; and the Height of the *Architrave* as one fifth Part, together with its large *Ovolo*, adorned with Shells and Flowers.

The *Frame* may be proportioned as the former.

The *Knees* at the Corners are here twice the Width of the *Moulding*.

A Design for a Chimney-piece in a lower Story.

PLATE LI. In this Design, the Height of the *Freeze* is two-sevenths of the Width of the Opening of the Chimney; and the *Trusses* up the Side of the *Chimney* are one-fifth: The Width of the *Trusses*, that support the *Cornice*, may be one-sixth of the Opening.

The *Architrave* is between one-fifth and one-sixth Part.

To proportion the *Frame* and its *Trusses* over this *Chimney*. Divide the Extent from the Outfides of the *Trusses* in the *Freeze*, into ten equal Parts; one of them shall be the Width of the *Trusses*, above; another Part must be given

given to the *Ovolo* with its *Margin* and *Ogee*; and six Parts must be assigned for the Width within.

The *Plinth*, on which this Frame stands, is Half one of those Parts.

Another Chimney-piece, with a Frame and Pediment over it.

PLATE LII. The *Architrave* is here One-sixth Part of the Opening, the *Freeze* is Three-fourths of the *Architrave*, and the *Trusses* up the Side are One-fifth of the Opening.

The Width of the *Trusses* to the Frame is One-ninth of the whole Extent that is perpendicularly over the *Architrave*.

You may observe, that this, and all the foregoing Chimneys, with their *Mantlings* (which are their *Architraves*, *Freezes*, and *Cornices*) are proper Designs for *Chimneys*, without the Frames over them.

Different Sorts of Chimney-pieces, with different Trusses.

PLATE LIII. To the lower Chimney is shewn a Pannel, with a *Pediment* over it. The Measures are expressed on the Plate.

Two very grand Designs of Chimneys.

PLATE LIV. In the upper *Design*, the *Architrave* and *Freeze* are each of them One-sixth Part of the Opening; the *Truss* is the same Width as the *Architrave*.

In the lower *Design*, the Height of the *Freeze* is twice the Width of the *Architrave*.

The Rest of the Measures are to be seen in the Plate.

The Nature of Angle-Brackets, Groins, and Frets.

PLATE LV. FIG. I. Shews the Quarter of a Circle.

To find its *Hip*, or *Angle-bracket*; — Divide its Projection into any Number of equal Parts, as here into six; then draw the dotted Lines from these Divisions to the Diagonal-line, or Projection of the *Angle-bracket*; this will divide the Projection of the Angle into the same Number of equal Parts; then take the Heights 1, 2, 3, 4, 5, 6, from the Ground-line of the Quarter-circle, and set them up from the Diagonal

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gonal, and then will your *Hip*, or *Angle-Bracket*, answer that of the straight Part.

FIG. II. Shews the Manner of finding the *Hip-Mould* of an *Ogee* — Divide your *Ogee* into any Number of Parts here into six, as before; then take the Projection from the Upright Line, and set them up from the Diagonal, as in the former Figure.

FIG. V. Shews the Manner of finding the *Hip-Mould* of the same *Ogee*, when turned the *reverse* Way.

FIG. III. Shews you how to trace out a *Bracket*, which rises more than it projects — Divide its Projection into any Number of equal Parts, as here into seven, and draw the Lines from 1 to 1, from 2 to 2, &c.

FIG. IV. Shews a *Bracket* of the same Height and Projection. To find its *Angle-Bracket*, or *Hip* — Divide its Projection into any Number of equal Parts, then take the Distances 1, 2, 3, &c. to 7, upon the traced *Bracket*, and set them from the Diagonal 1, 2, 3, &c. to 7. This is sufficient to shew, that if the traced *Bracket* had been drawn in any other irregular Form, the same Method would do to find its *Hip*.

FIG. VII. Exhibits an *Elliptic Arch*, not rising so high as a Semicircle.

FIG. VI. Exhibits an *Arch* boarded over; wherein the several Figures 1, 2, 3, &c. represent so many Ribs or *Jack-Rafters* set upon the circular Body of the *Arch*, in order for another *Arch* to intersect it, where those boarded over the *Groins* are formed.

Underneath are three different Sorts of *Frets*; and two common Chimney-Pieces, each containing two different Designs.

PLATE LVI. Exhibits four different Sorts of *Corbels* or *Consoles*, for setting Statues or Busts upon.

PLATE LVII. Shews six different Designs of *Shields*.

PLATE LVIII. Exhibits four other Sorts of *Shields*.

Trusses of different Sorts.

PLATE LIX. FIG. I. Shews the form of a trussed Roof, with three *King-Poofs*, that may carry seventy Feet, or upwards.

FIG. II. Exhibits an *M. Roof*, capable of carrying as great an Extent as the former; indeed both these Designs are capable of carrying almost any Extent.

FIG. III. Represents two different Sorts of *Trusses*.

FIG. IV. Shews the Manner of piecing Timber.

Sometimes the Joint may be extended as far as *a*, with another Bolt through it.

To the Left is shewn a different Sort of Joint.

FIG. V. Shews the Manner of Trussing a *Girder*.

If you leave your *Trusses* full long, then with the Pieces *b* and *c* you may make them as tight as you please.

FIG. VI. Represents the Manner of Trussing Partitions.

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pentry; with the Manner of Trussed Roofs, and the Na-
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the Length and backing of Hips, Straight or Curve Lines to
any Pitch, Square or Bevel. 4th. Of Stair-Cases variously
Constructed, the Method of Working Ramp and Twist
Rails, Profiles of Stairs to shew the manner of setting Car-
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Entablatures, Arches, Doors, Windows, Chimney-pieces,
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by the great Square; and such Remarks, Explanations, and
Scales are annexed, that the Comprehension is rendered easy,
and

The Manner of laying a Frame in Ledgment.

PLATE LX. FIG. I. Shews the Manner of *Backing a Hip* — Divide the Thickness of the *Hip* into two equal Parts; then having found the Pitch of your *Hip*, as is shewn in FIG. II. set one of these Parts upon the Base-Line, from *b* to *a*; and it shews what Wood is to be taken off.

If the Side of the Building comes in with a *Bevel*, as the dotted Line *b*, in FIG. I. then transfer Half the Thickness of the *Hip*, from *d* to *c*, in FIG. III. and take the Distance *f e*, in FIG. I. and set it from *c* to *g*, in FIG. III. this will shew how much is to be taken off the *Hip*, when the Building bevels.

FIG. IV. Shews the Principal with its two *Hips* for the *Bevel-End*.

FIG. V. Shews the long *Hip*, laid out ranging with the Side of the Building.

In FIG. VI. The dotted Lines represent the Beam laid parallel to the *Bevel-End*.

In FIG. VII. The dotted Lines shew the *Principal*, as it will appear when the Beams are laid bevel.

FIG. VIII. IX. and X. Represent the Frame for the Square-End.

FIG. XI. Represents a circular Body.

To find the Curve, for any Lath or Margin, to be bent round this Body, parallel to its Base. — Let the Points *b* and *c* represent the Margin which you intend to bend round; then draw a right Line through those Points, to meet the Perpendicular or Diameter produced as in *a*, and it gives the Length *a b* the shorter, and *a c* the longer Radius for striking the Curve required. And if a Margin was to be bent round any other Part of this circular Body, as *d e*, draw a right Line through those two Points as before, to intersect the Perpendicular, as in *f*, and it gives the Lengths *f d* and *f e*, to strike the Curve. This may be sufficiently demonstrated by a right Cone applied all round; or, which is the same Thing, if the Radius was turned upon a Spindle at *a*, it would touch the circular Body every-where at an equal Distance from the Base.

FIG. XII. Shews the Method of bending a *Cornice* round any circular Body. When you have found the *Spring* of your *Cornice*, which is shewn at the Right-Hand, let the dotted Lines be drawn parallel to the *Spring*; and where they intersect the Centre, or Middle of this Body, as in *e*, you will have the Radius to strike the Curve of your *Cornice*. This may be proved in the same Manner as the foregoing.

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TO PROPORTION the

TUSCAN Order.

ANY Height being given for this *Order*,

Let it be divided into nine equal Parts, as is shewn up the Side of the *Column*.

Then, one of these Parts is the *Diameter* of the *Column* at its *Base*: Seven Parts are given to the *Shaft*, or Body of the *Column*, including the *Base* and *Capital*; and two to its *Entablature*, which includes the *Architrave*, *Freeze*, and *Cornice*.

Having found the Diameter of the *Column* at its *Base*,

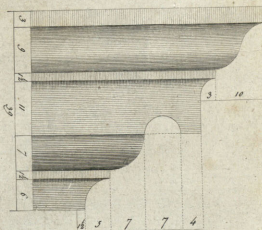
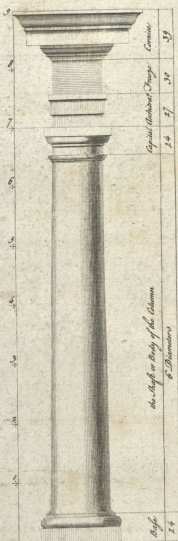
Let it be divided into four equal Parts, as in
 PLATE II. Then divide one of these into twelve,
 which is done thus :

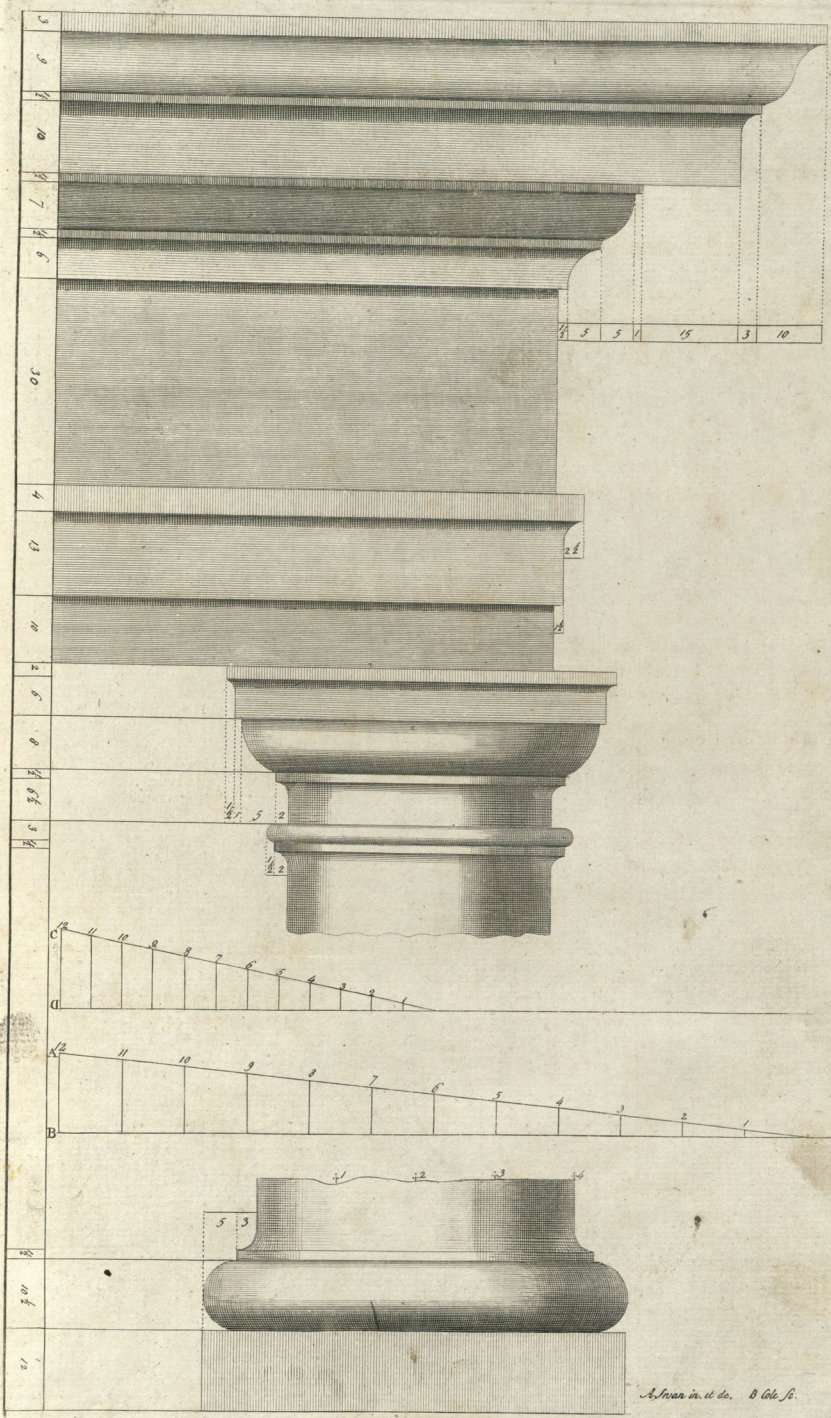
Take the Extent of one of these four Parts, and set it from A to B; then set your Compasses at Pleasure, and run twelve Divisions, as on the Line B C; from the Extent of these Divisions draw a Line to A; when these Divisions are squared up from the *Base Line*, that is, drawing the Perpendicular, 1, 2, 3, &c. your Scale is made, and the Line A B is divided into twelve equal Parts; as would easily appear by drawing Parallels from each of these Perpendiculars to A B.

Then dispose of these Measures to the Height and Projection of each particular Part, as you see them set in the PLATE, which is all you have to do.

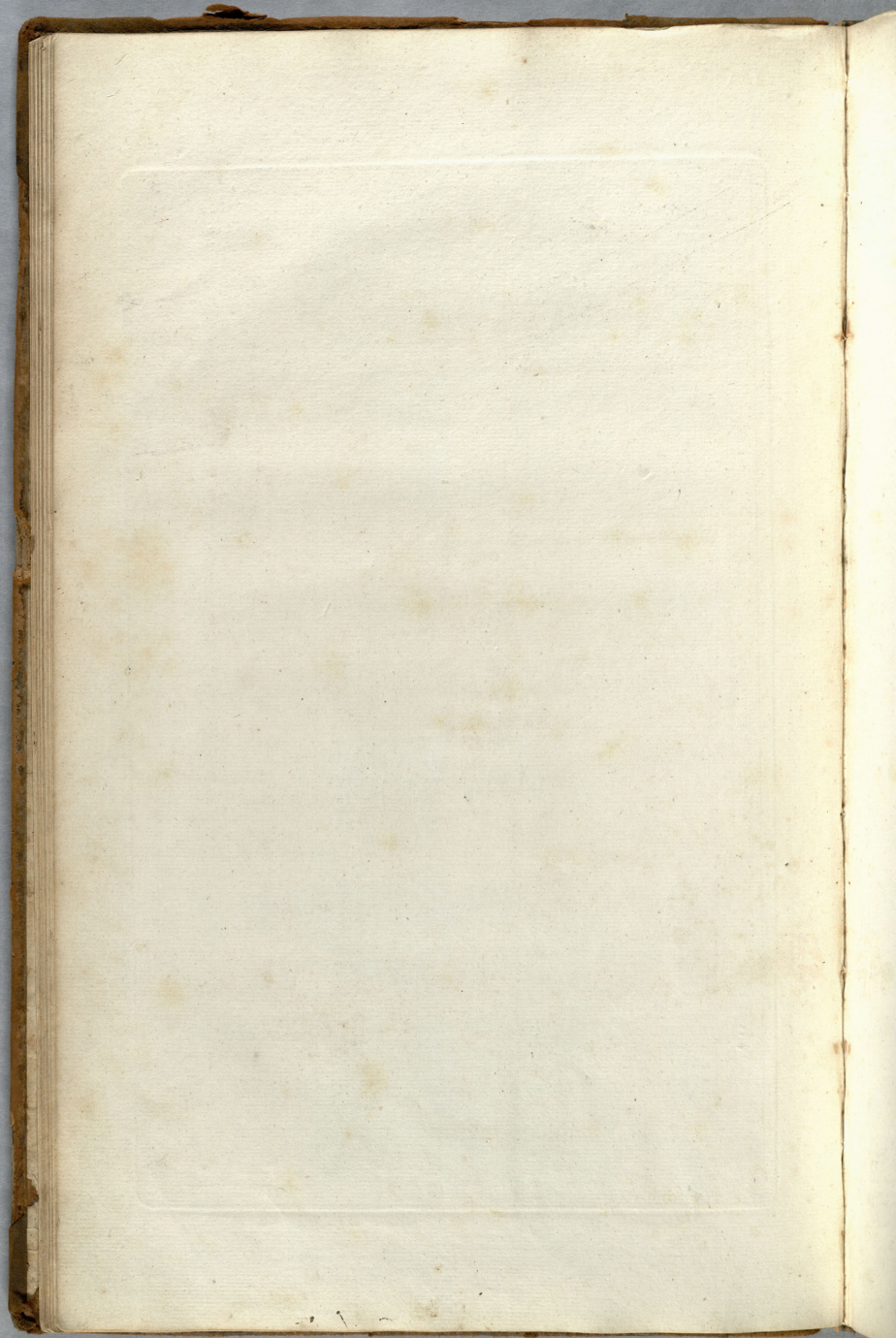
In making the Scale, it is plain, that your Compaffes may be fet at any Distance; for fet up C D equal to A B, from D run twelve Divifions with your Compaffes at a *fmaller* Distance than before; from their Extent draw a Line to C, and fquare up from the *Base* as before; then thefe Divifions, if rightly drawn, will exactly anfwer to the former.

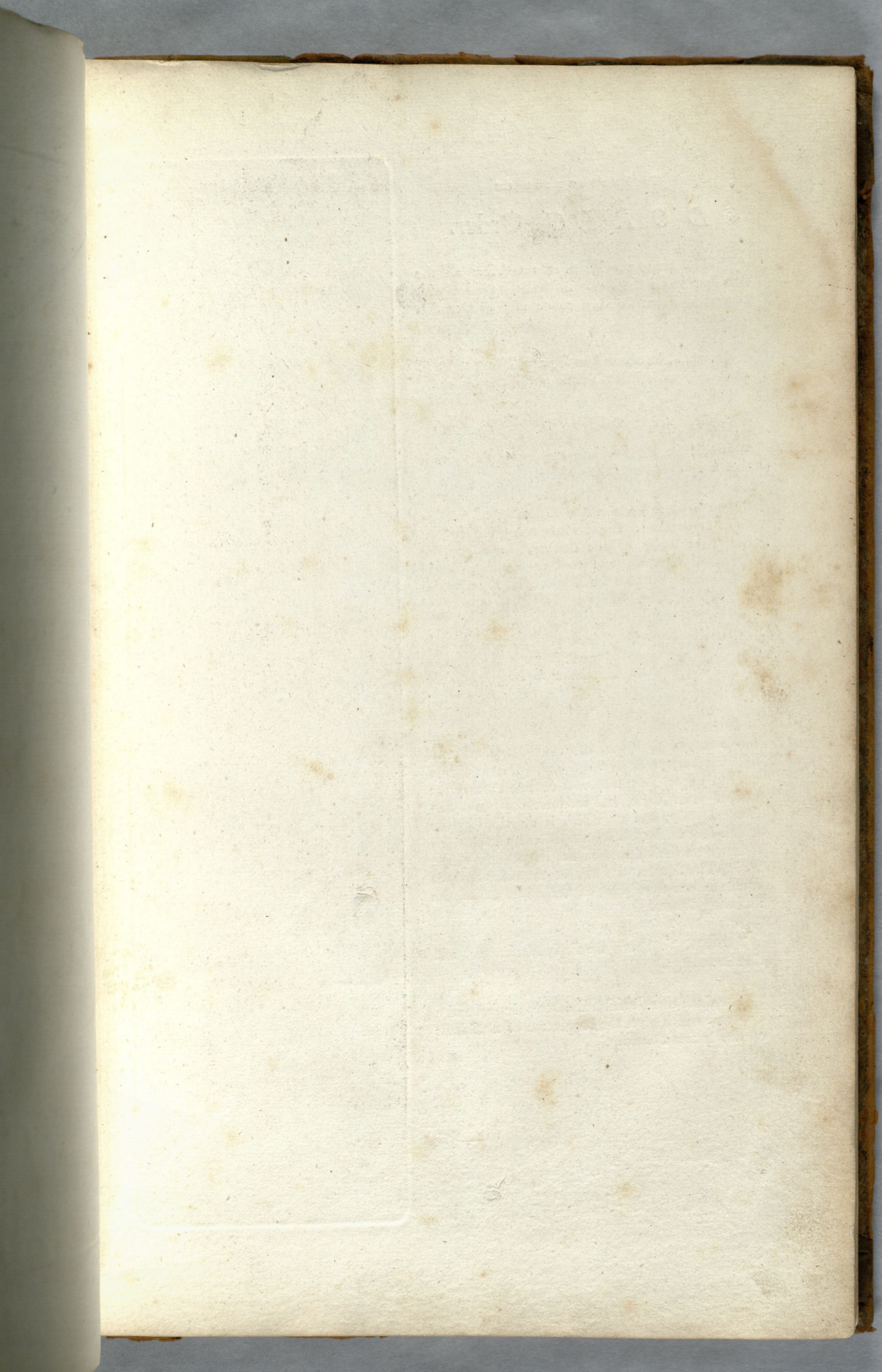
When a *Column* happens to be juſt a Foot Diameter, each of theſe Parts will be a Quarter of an Inch, ſince there are forty-eight Quarters in a Foot. When the Diameter is two Feet, each Part will be Half an Inch; if four Feet an Inch; and whether more or leſs, it will be ſhewn by the Scale. Under the *Column* is ſhewn a *Cornice* from *Palladio*.





Altera in. et do. 8 lib. f.





To PROPORTION the

D O R I C Order.

THIS PLATE exhibits at one View all the particular Parts of this *Order*, together with several different *Cornices*, to be used as Occasion may require.

It would be needless to say any Thing more of the *Scale*, since it is the same for all the *Orders*.

Any Height being given for the *Doric Order*,

Let it be divided into ten equal Parts, as is shewn up the Side of the *Column*.

One of these Parts is the *Diameter* of the *Column* at its *Base*: Eight Parts are given to the *Shaft*, or Body of the *Column*, including the *Base* and *Capital*; and two to the *Entablature* (which always means the *Architrave*, *Freeze*, and *Cornice*).

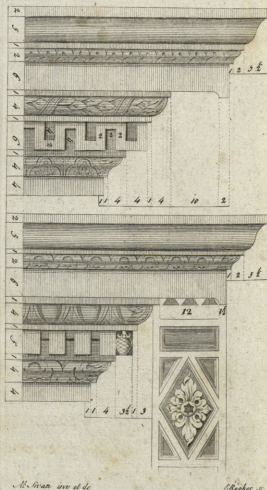
To diminish the *Column* — Let it be divided near the *Base* into six equal Parts, as is shewn in PLATE IV, five of which are to be given to the Top.

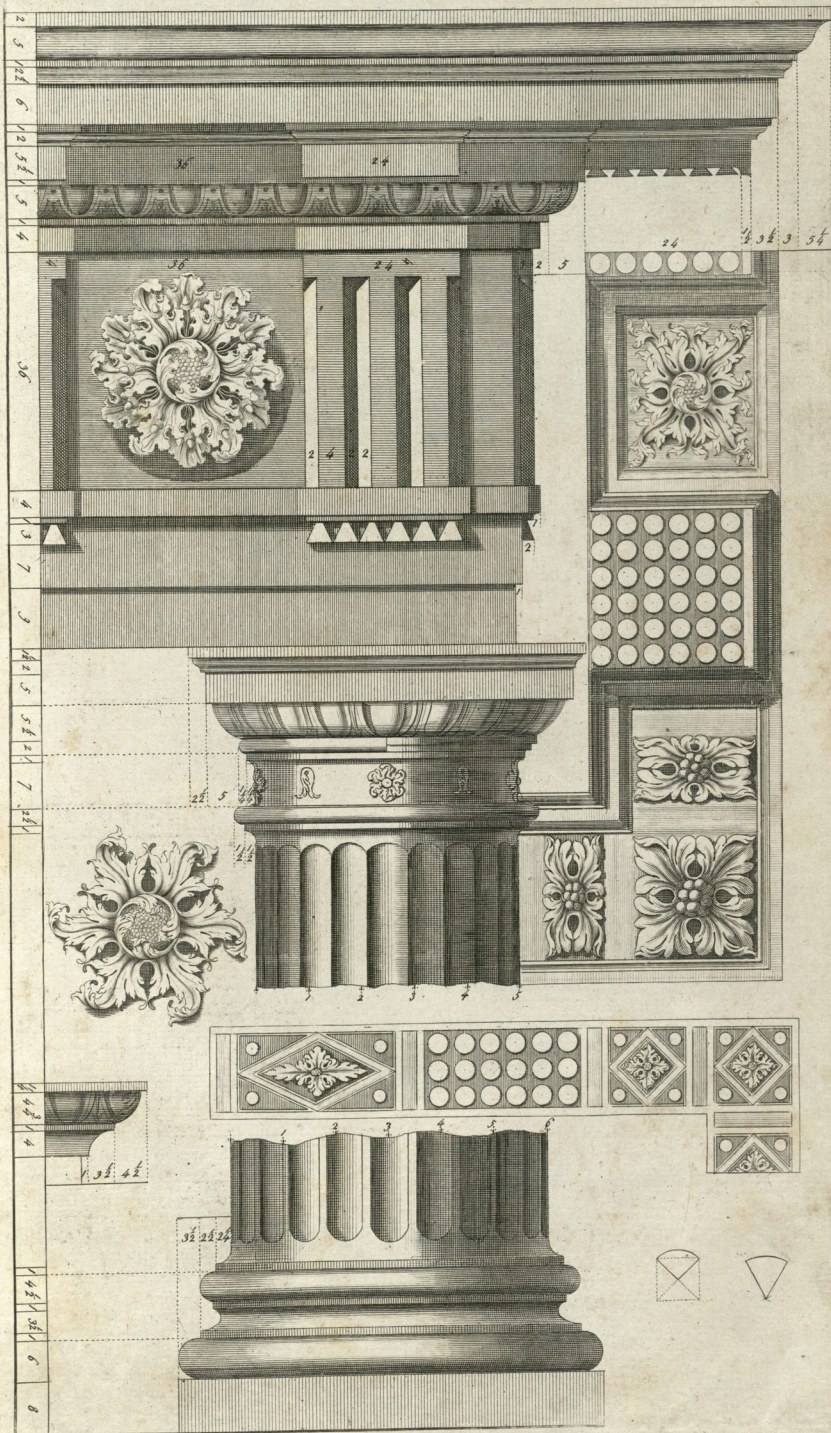
If the *Column* is to be *fluted*, it may be divided into twenty-four *Flutes*, of which there are two different Sorts used in this *Order*. Those shewn on the upper Part are most common; they are worked to an *Arris*, and are sunk down two different Depths, one of which is described by the fourth Part of the Circle, the other by a sixth, as is shewn on the PLATE to the Right-hand of the *Base*: The Square, or *Fillet* of the other Sort, is equal to one-third Part of the *Flute*, as in the following *Orders*.

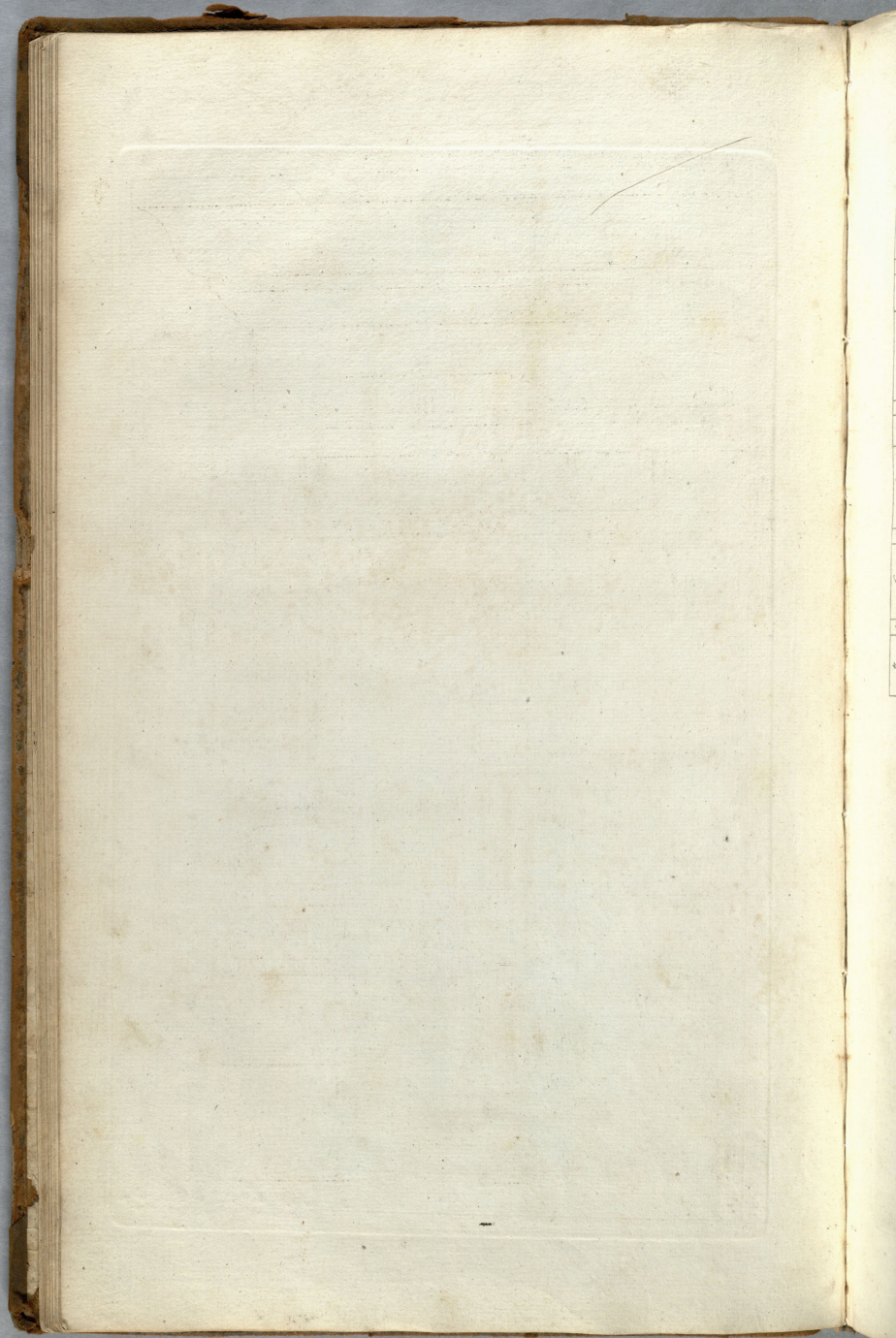
PLATE V. Shews the *Base*, *Architrave*, and *Cornice* at large.

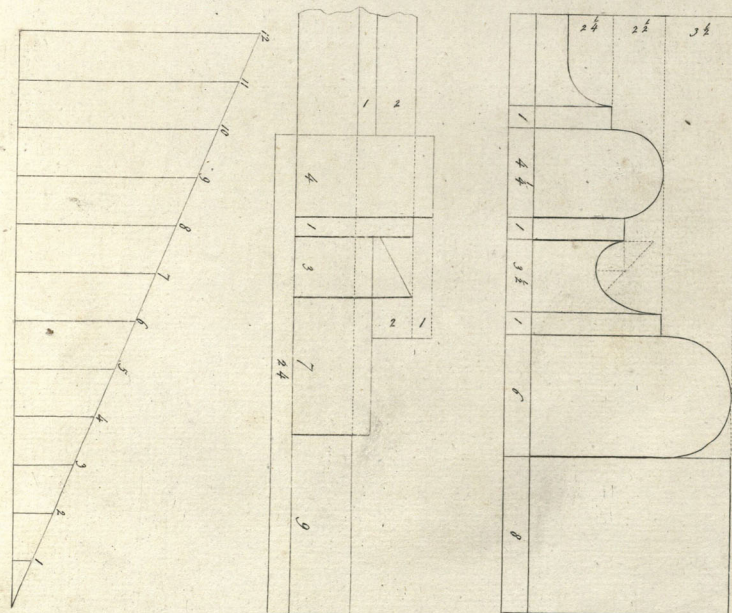
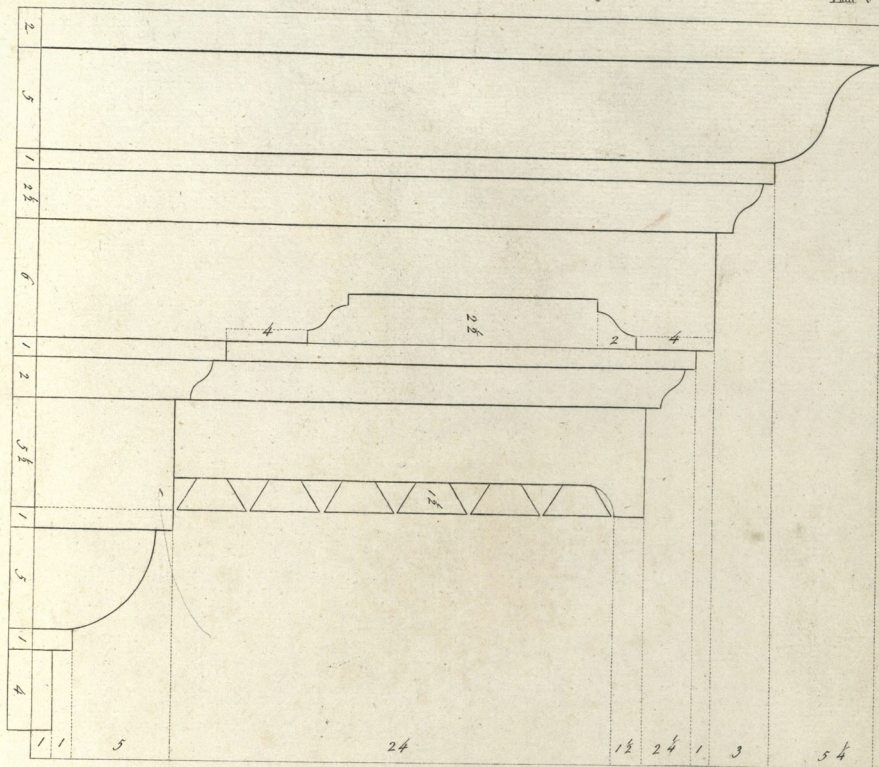
The *Scale* there exhibited is two Inches and a Quarter, which gives the Proportion of a *Column* of nine Inches *Diameter*.

Plate III



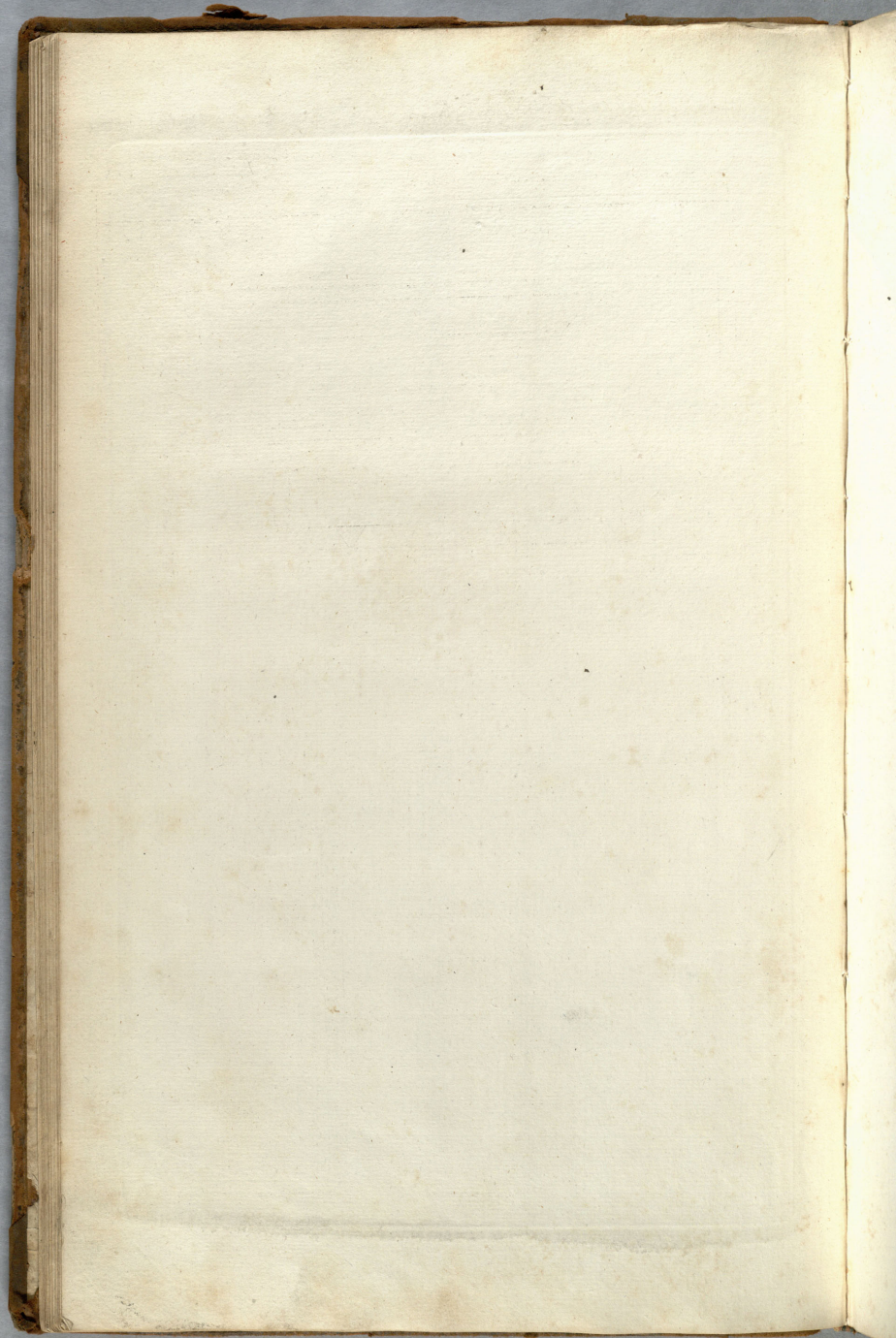


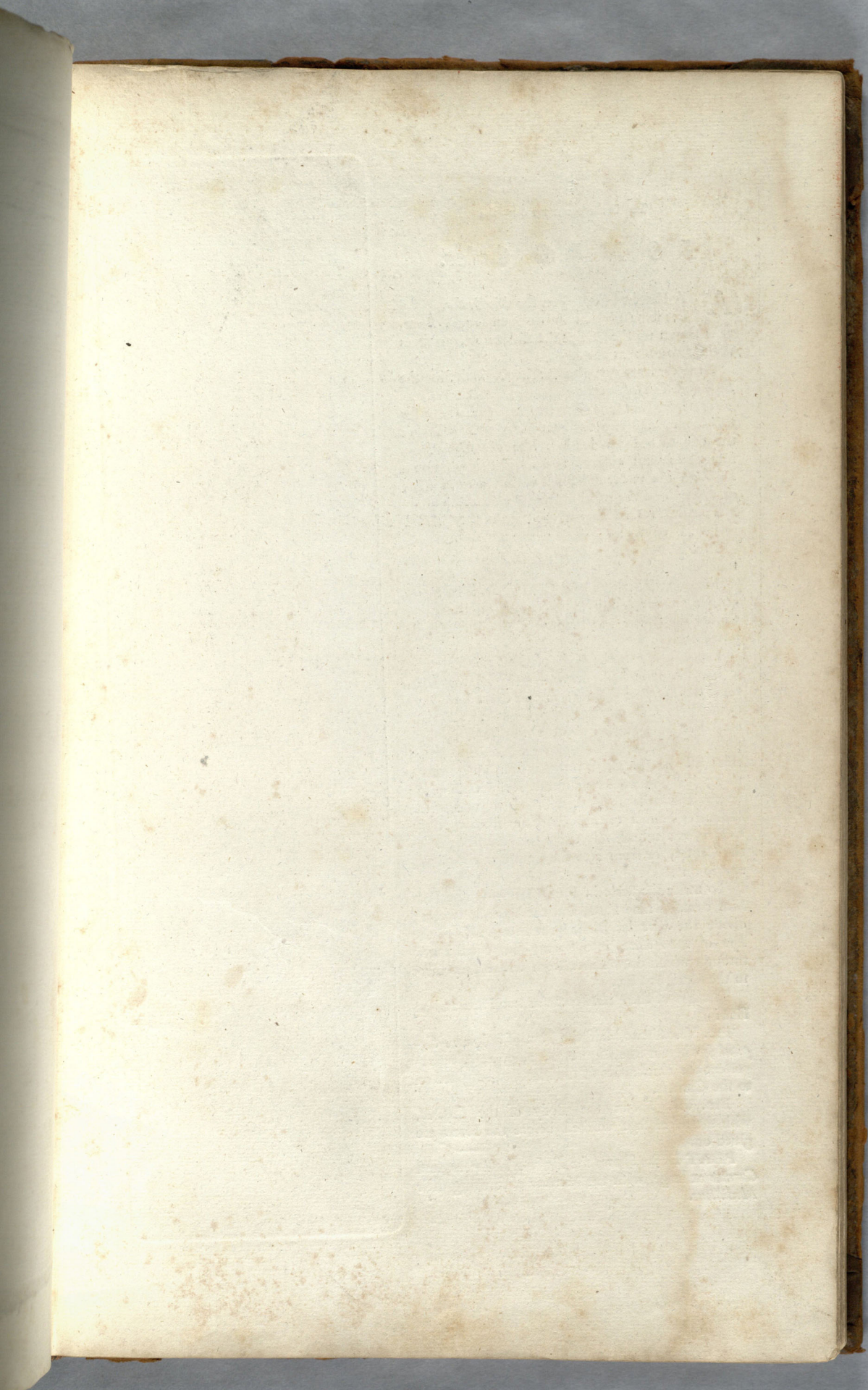




Al. Swan in et do.

C. Tucker sculp.





To PROPORTION the

I O N I C Order.

ANY Height being given for this Order,
Let it be divided into eleven equal Parts,
as is shewn up the Side of the Column: One them
is the Diameter at the Base.

Nine Parts are given to the *Shaft*, including the
Base and *Capital*, and two to the *Entablature*.

You have here four different Sorts of *Cornices* for
this Order, and two different Sorts of *Modillions*;
the one turned up behind, like the *Corinthian*,
sometimes with a *Scroll* and *Leaf* behind, and a
Leaf on the under Side, set within a small *Lisp*,
or *Fillet*; and the other is from *Palladio*.

PLATE VIII. Shews all the Parts of the *Capital*.

FIG. I. Shews a *Capital*, with an *Ogee-Abacus*.

FIG. II. A different *Capital*, with its *Scrolls*
touching the *Ovolo*.

FIG. III. The Plan of a *Capital*, with its *Scroll*
on one Corner; the dotted Lines on the other
Corner shews the Thicknesses of the Pieces to be
glued on.

FIG. IV. Shews the Body of the *Capital*.

FIG. V. Shews the *Scroll*. — To draw which,
take the Distance from 2, to the Centre in your
Scale. FIG. VIII. set the Compasses at 1; in FIG. V.
and describe a Stroke at C, with the same Dis-
tance from 2, cross the former Stroke in C, and
this will be the Centre to turn that Part from 1
to 2; and so proceed with the Rest, taking the
several Distances from the Scale, in which the
Distances from 1 to the Centre, or from 2 to the
Centre, are respectively equal to those from 1 to
the Centre, or from 2 to the Centre in the *Scroll*,
and so on.

To make the Scale in FIG. VIII. — The Base
Line contains nine Parts, and the Upright twelve;
divide the Circular Line, from FIG. VIII. to the
Eye of the *Volute*, into twenty-four equal Parts,
through which draw Lines from where they meet
to the Upright Line.

The *Eye* of the *Volute* contains two Parts and an
Half.

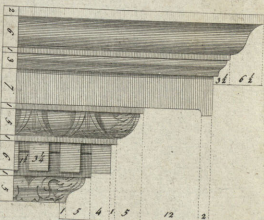
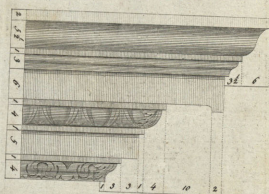
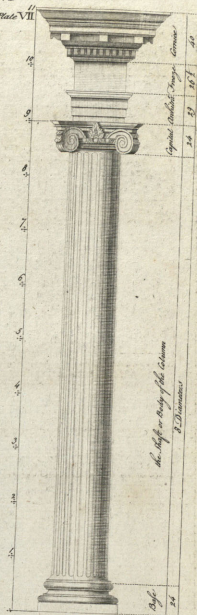
FIG. VI. Shews Half the Plan of a *Square Ca-
pital*; wherein the Figures 1, 2, 3, 4, 5, 6, re-
present the Thicknesses of the Pieces to be glued on
to the Corners.

FIG. VII. Shews the Body of the *Capital*,
with the *Mouldings* worked before the Pieces are
glued on.

PLATE IX. Shews the *Base*, *Architrave*, and
Cornice at large, with the Manner of forming their
Modillions.

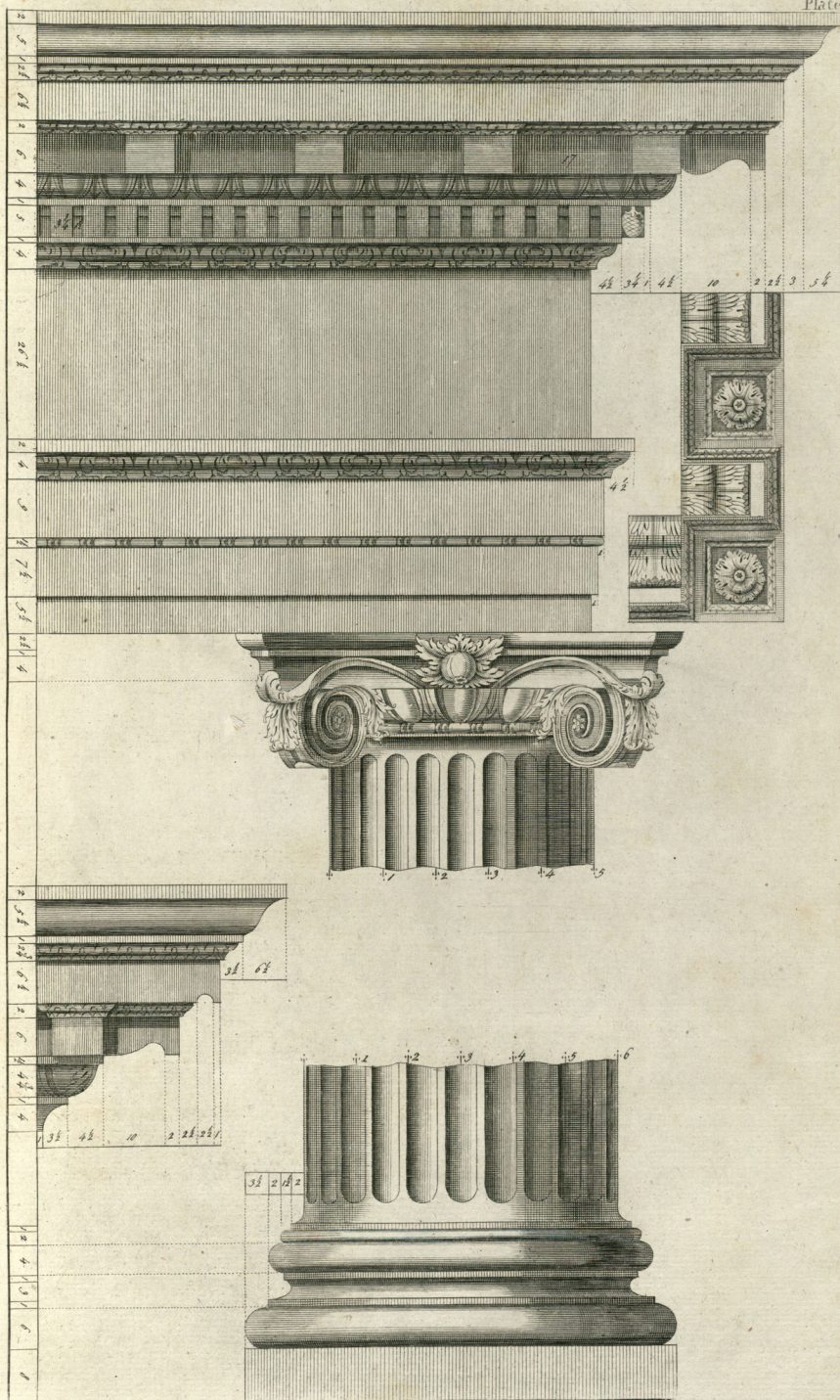
Plate VI

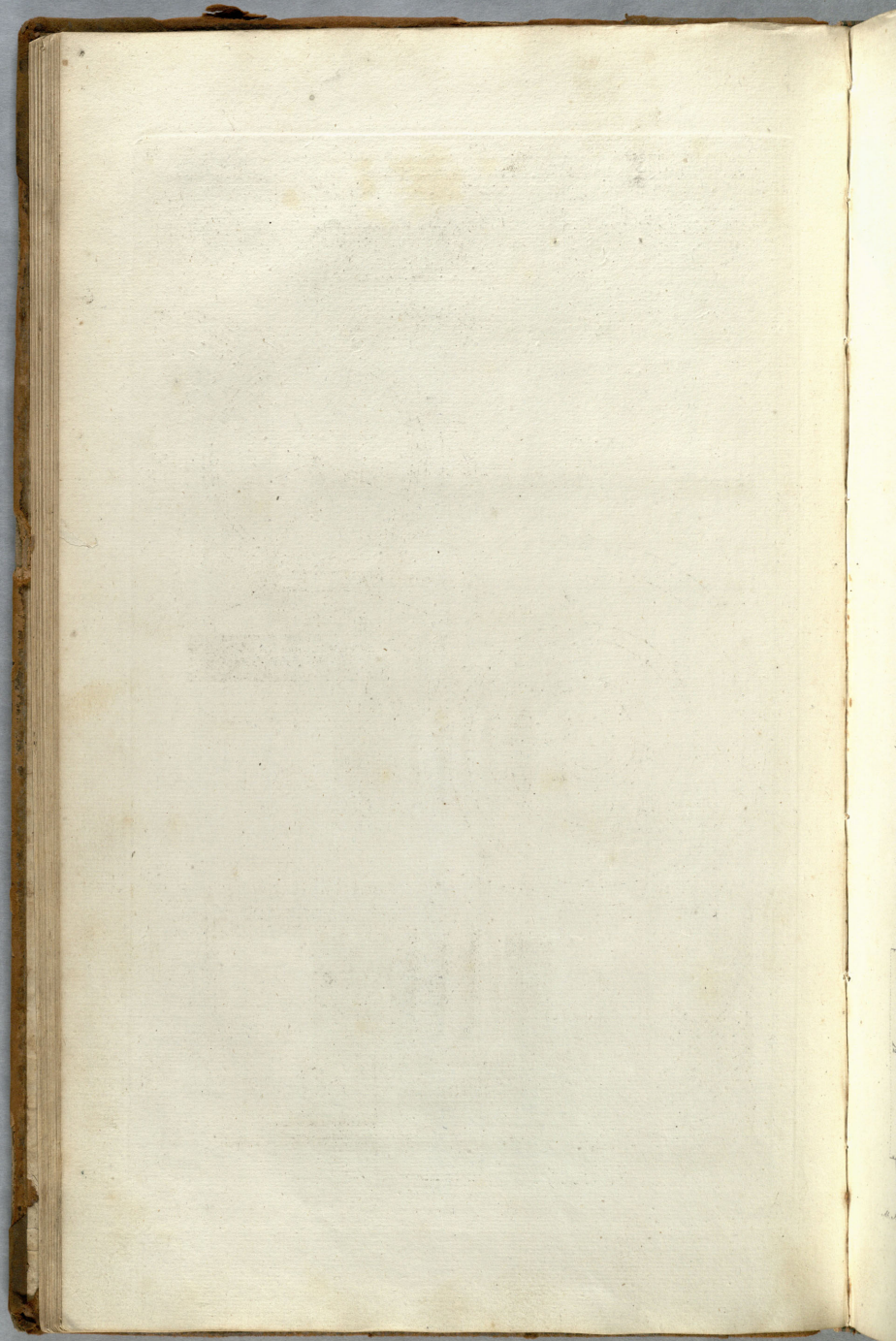
to five Parts



Shown in side

Shew in





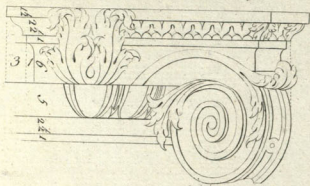
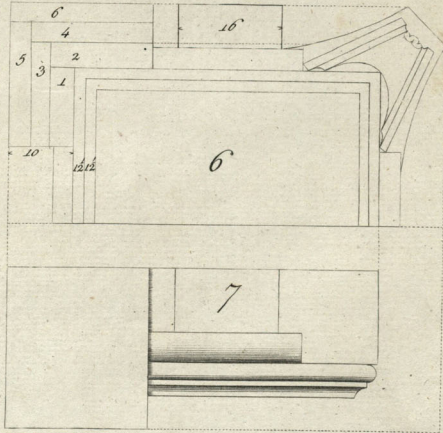
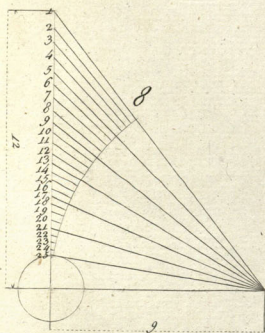
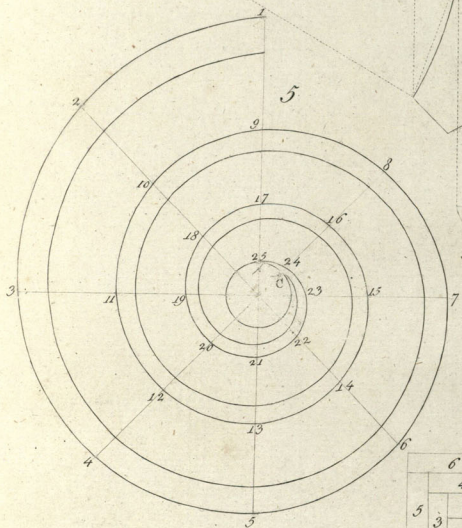
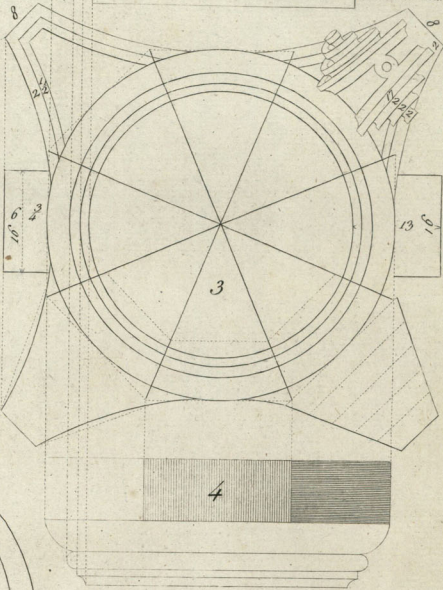
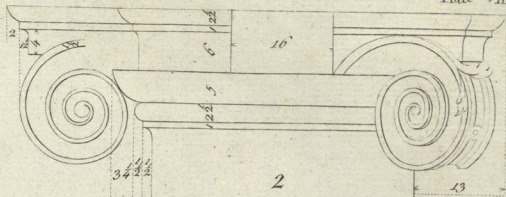
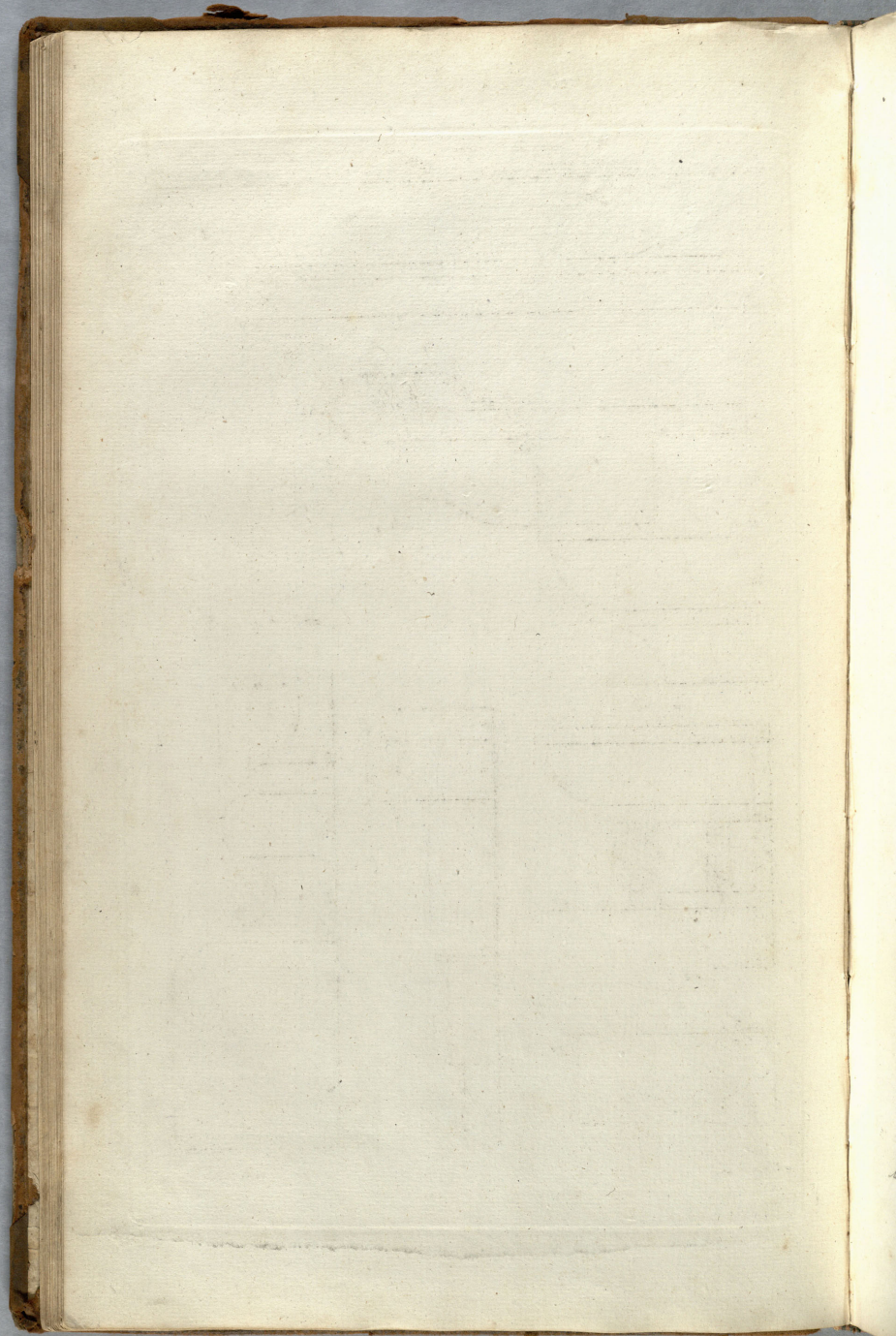
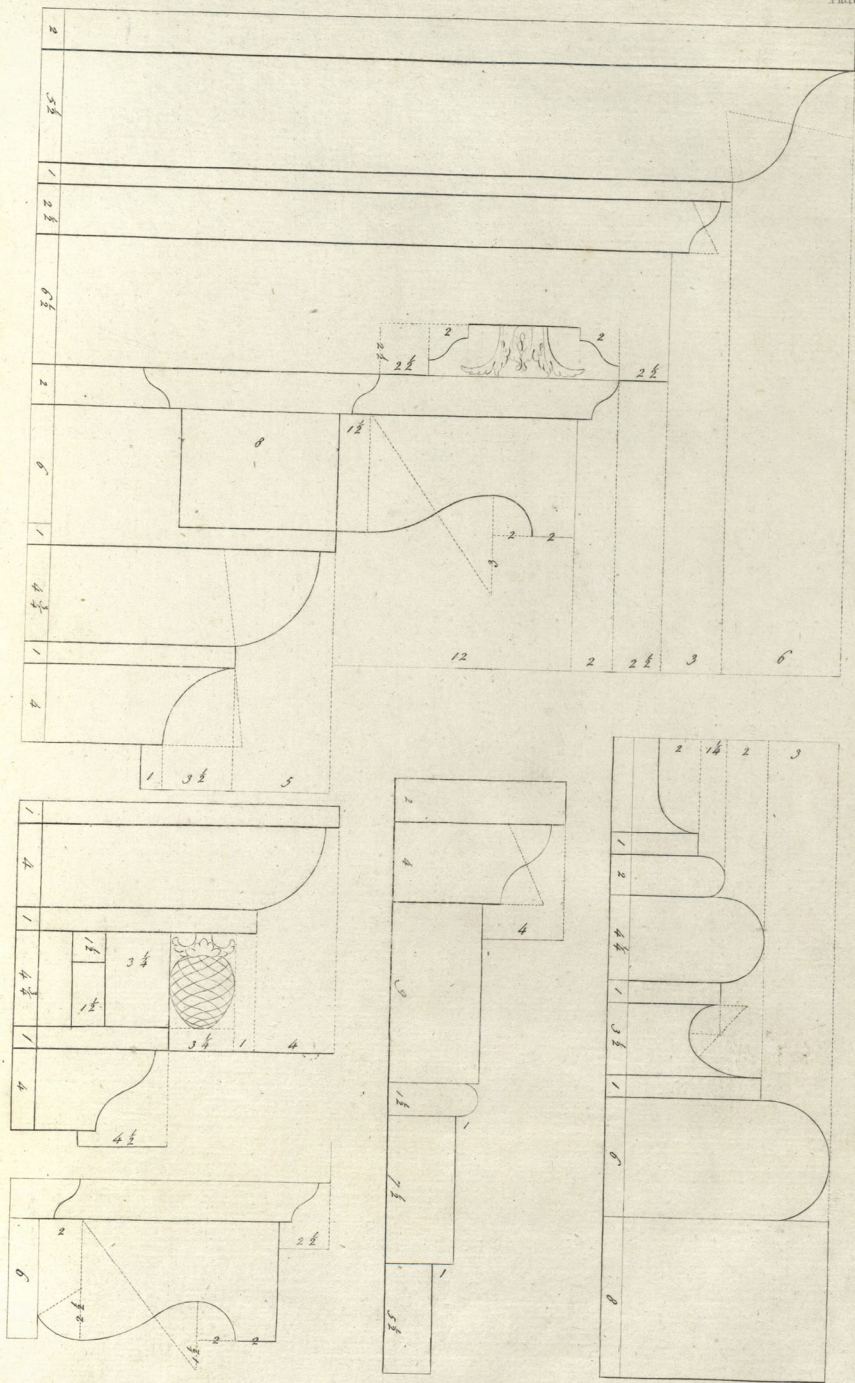


fig. 1

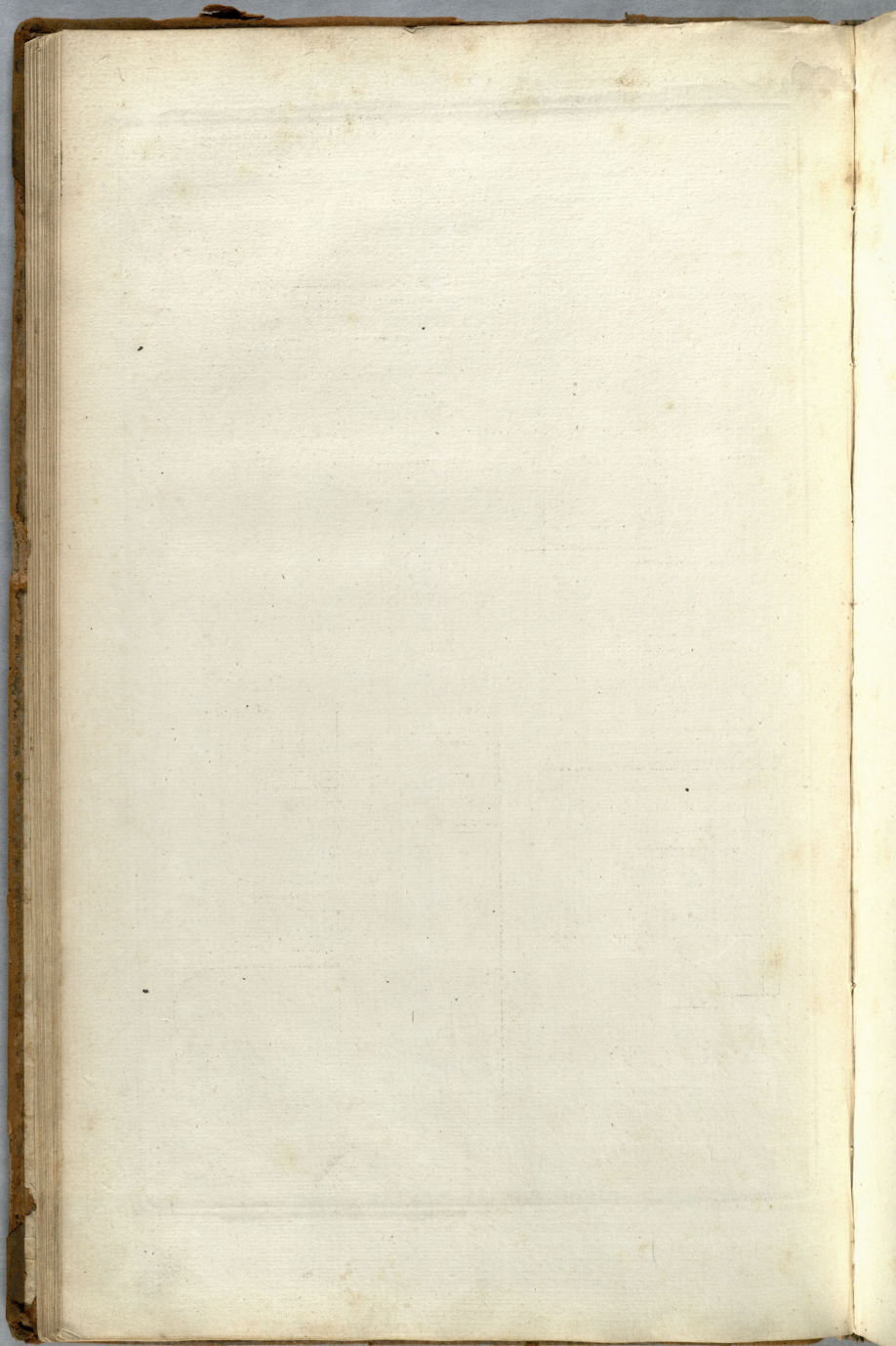


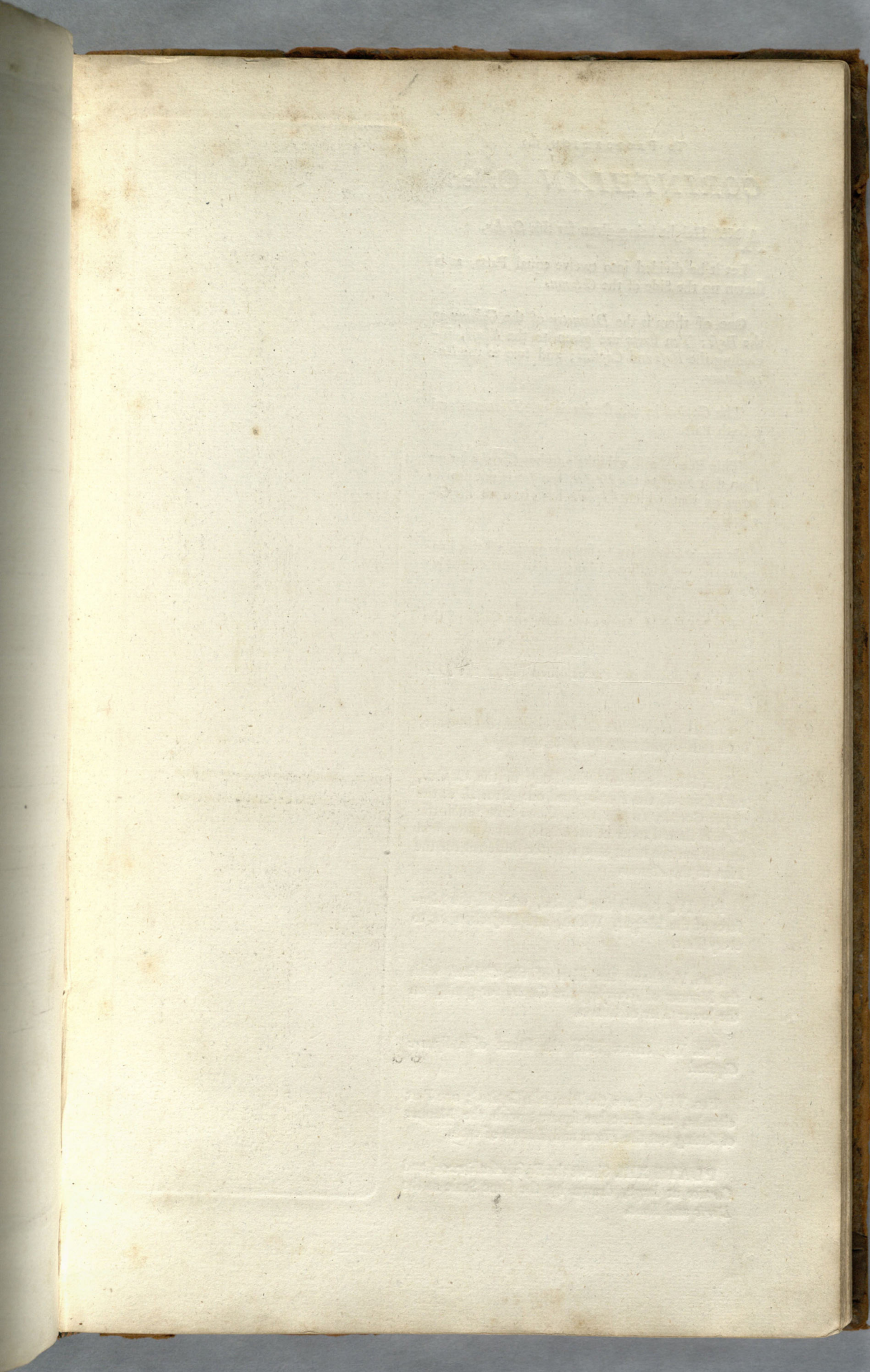




M Swan in et de.

E. Reicher anal.





TO PROPORTION the
CORINTHIAN Order.

ANY Height being given for this Order,

Let it be divided into twelve equal Parts, as is shewn up the Side of the Column.

One of them is the *Diameter of the Column at the Base*: Ten Parts are given to the *Shaft*, including the *Base* and *Capital*; and two to the *Entablature*.

The *Capital* in this Order is one *Diameter* and a sixth Part.

This PLATE also exhibits another *Cornice* larger than that fixed to the *Profile*, but yet is not near so large as that which *Vignola* has given to his *Corinthian*.

It is not necessary to say any more of the Proportions, the Measures being set to the respective Parts.

PLATE XII. Shews the different Parts of the *Capital*.

FIG. I. Shews the Pieces glued upon the *Diagonal*.

FIG. II. Shews the *Capital* viewed Angle-ways, with Part of the naked *Bell* of the *Cap*.

FIG. III. Represents the Body of the *Capital*, with some of the *Blocks* glued on. FIG. II. at the upper Corner, to the Left, shews how much the *Capital* should taper at each Side, since seven and an half on the other Side is scarce sufficient for the Plan of the *Abacus*.

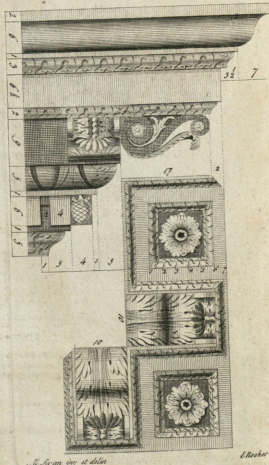
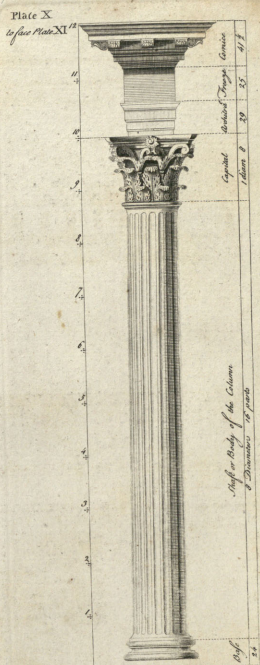
FIG. IV. Shews the *Capital*, with all the Measures of the Height, Width, and Projection set to every Part.

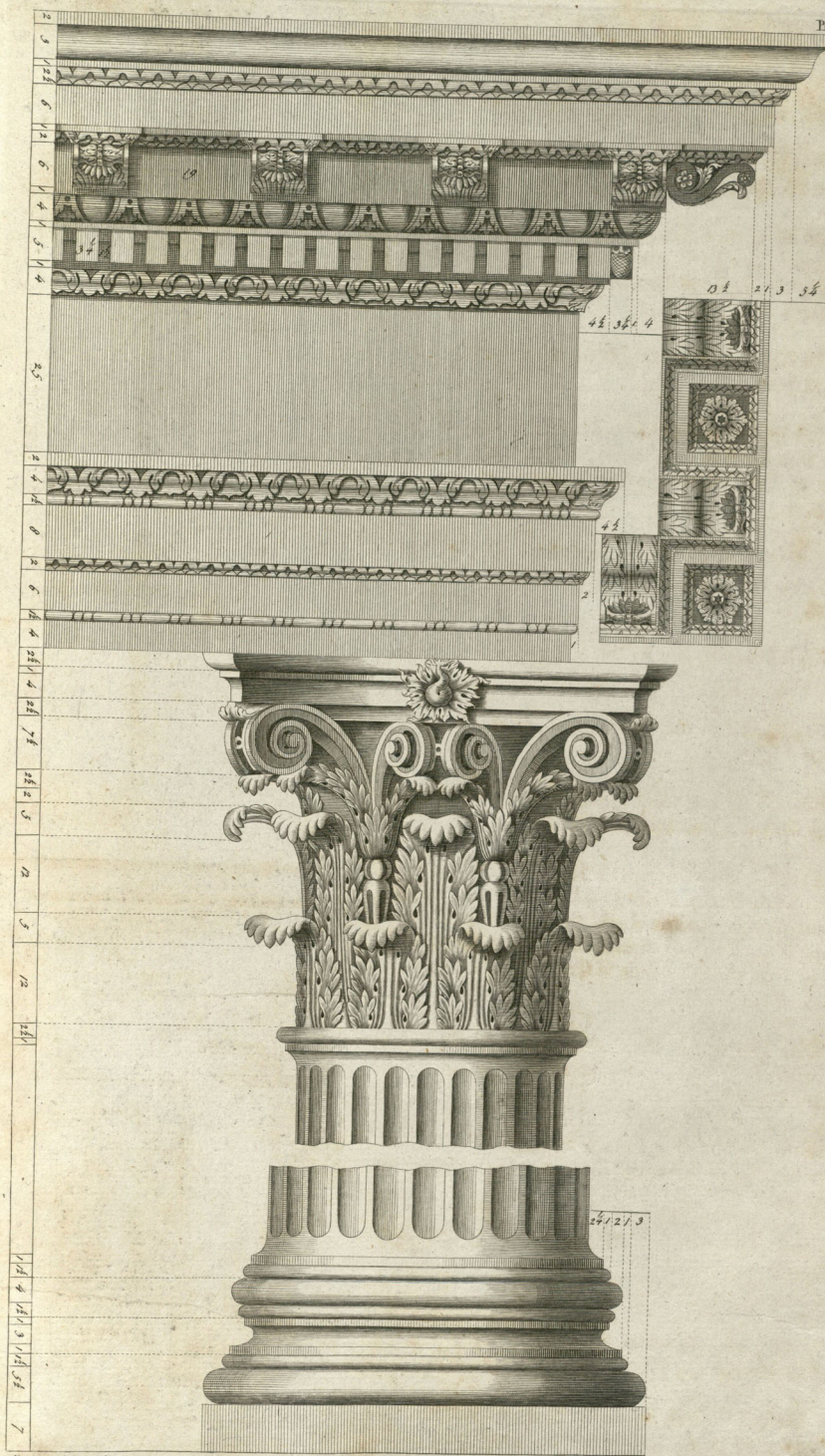
FIG. V. Shews the Plan of the *Capital*, with the Manner of *Reversing the Cants*, for gluing on the lower Tier of Leaves.

FIG. VI. Shews Half the Front of a *Square Capital*.

FIG. VII. Shews the Plan of a *Capital*; one Part circular, and the other square; with the Manner of setting out the *Flutes* and *Leaves* of each.

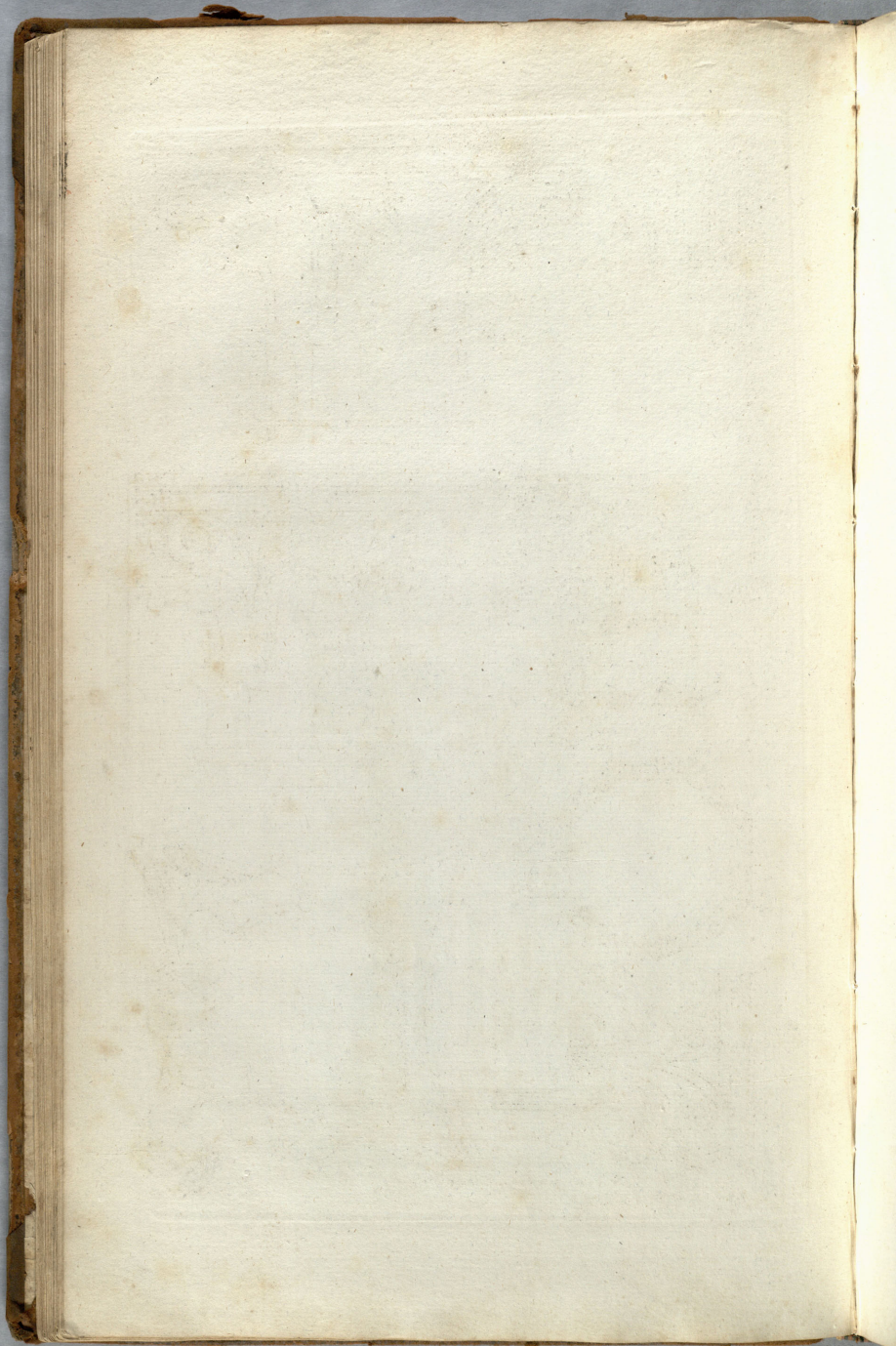
PLATE XIII. Shews the *Base*, *Architrave*, and *Cornice* at large, drawn by the same Scale as the *Doric* and *Ionic*.

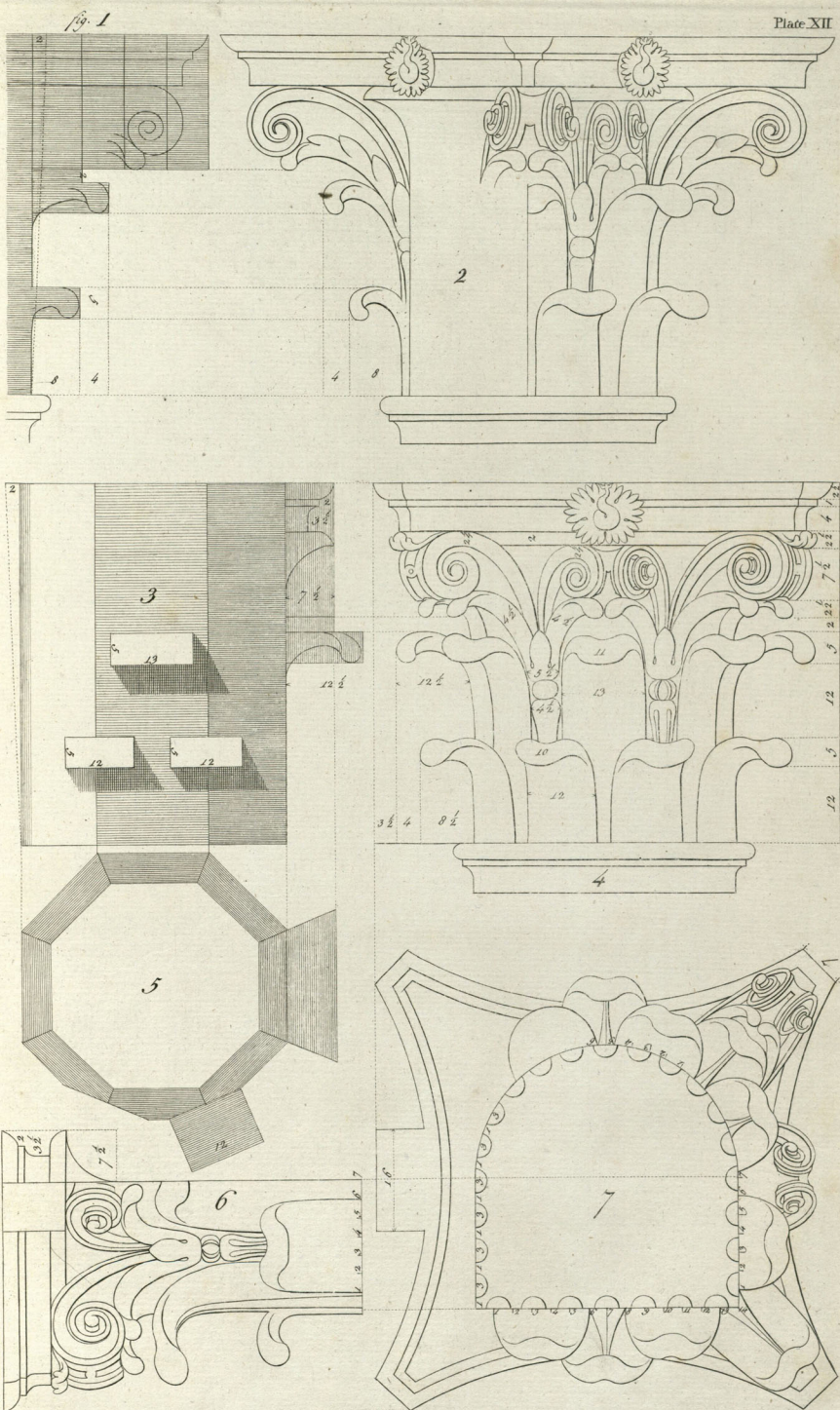




M. Girard sculp.

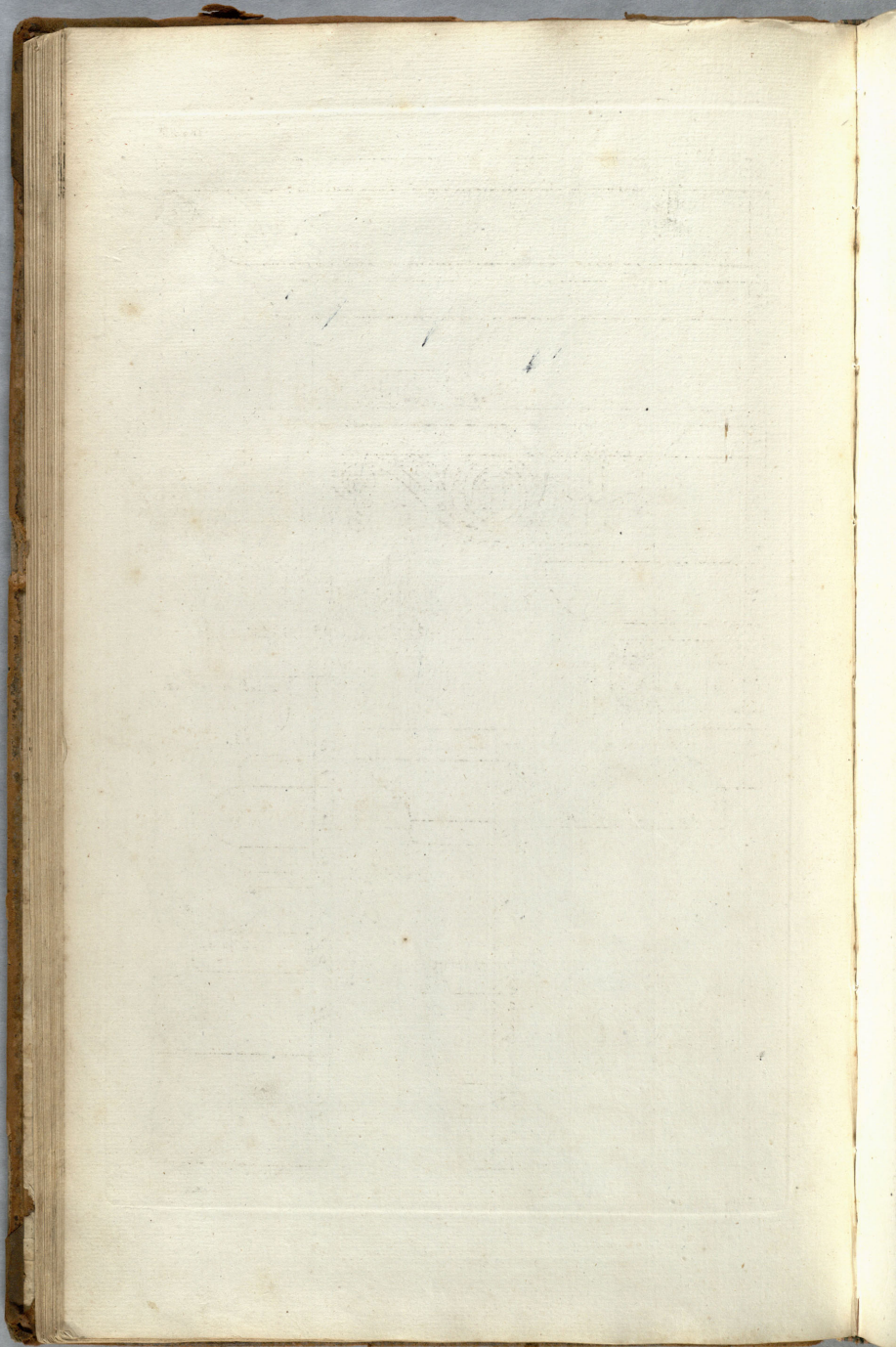
J. H. R. sculp.

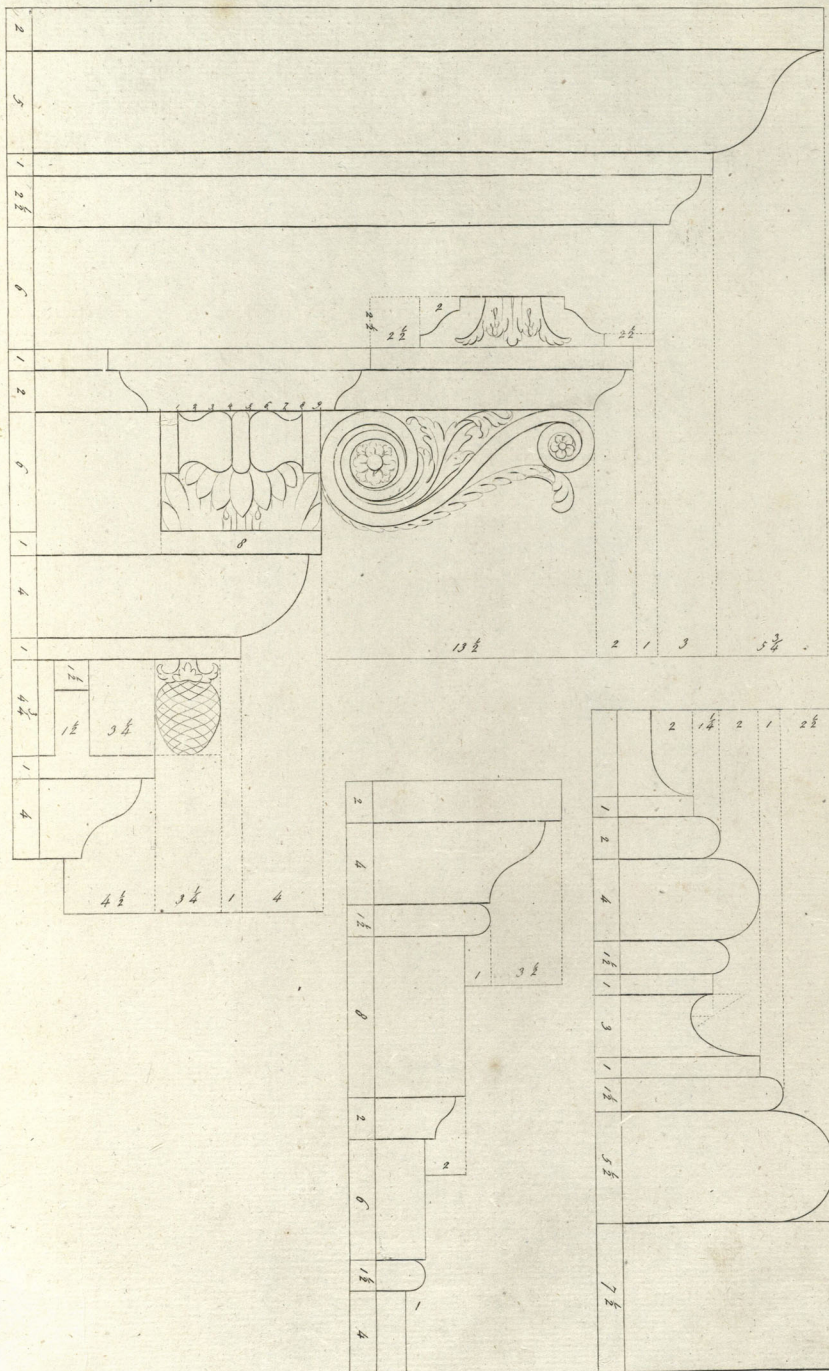




McSwan inv. & Delin.

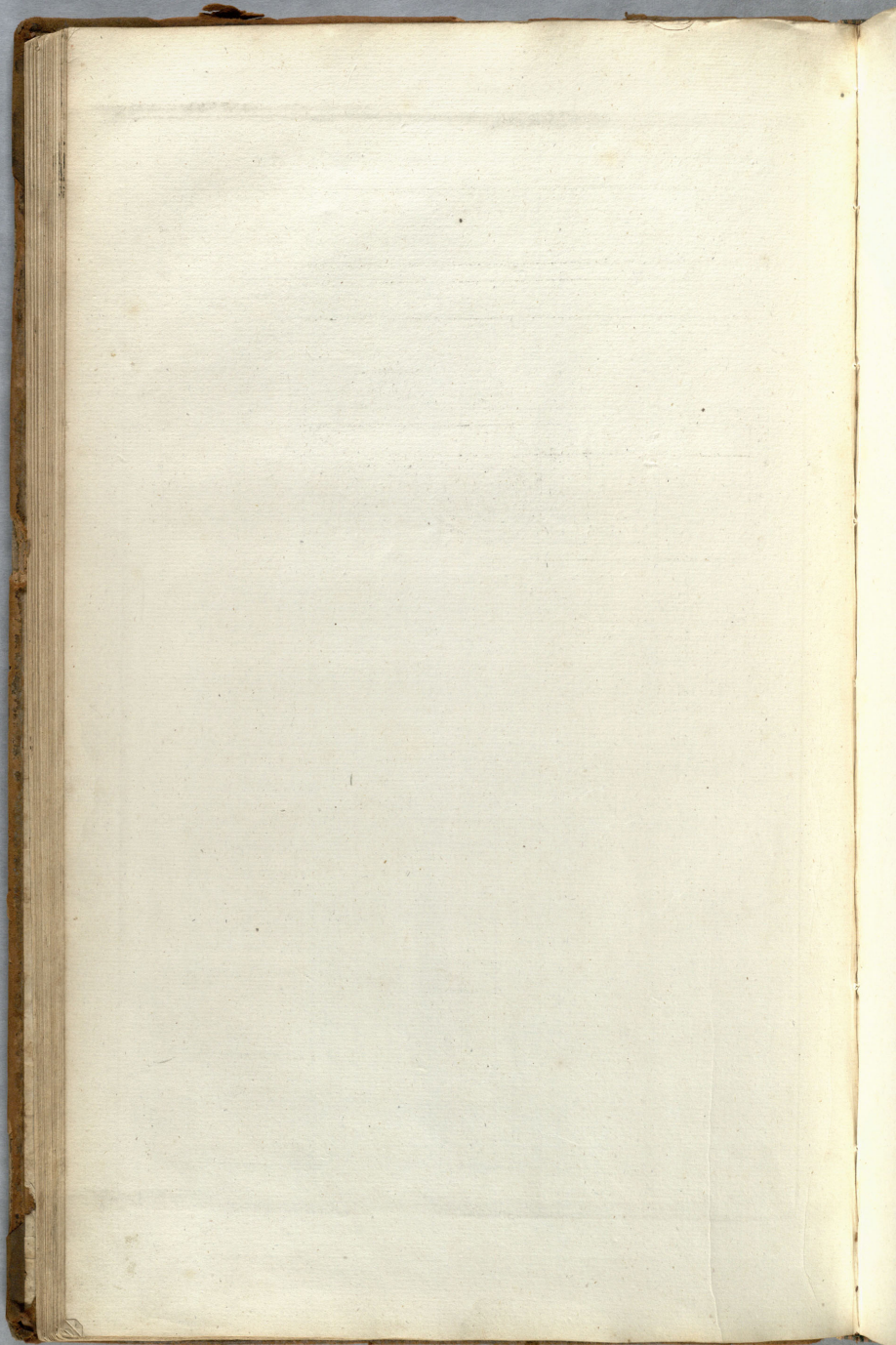
Brooker Sculp.





Al. Swan in 1810

Charles S. S. S.



COMPOSITE Order.

ANY Height being given for this Order,
Let it be divided into twelve Parts, as the
Corinthian, there being no Difference in the *Original* betwixt these two, except in the *Capital*, the
Composite having a proper *Ionic Capital* above the
Leaves: These *Leaves* commonly differ from the
Corinthian, being carved with what is called
Parsley.

There are two different *Cornices*; one of them
has an *Architrave-Modillion*, which *Palladio* and
Scamozzi copied from a *Corinthian Work* at *Rome*,
called the *Frontispiece* of *Nero*, from which they
both took their *Ionic Base*.

PLATE XVI. Shews the Manner of Gluing
and Fluting Columns, which may be useful to those
who have had but little Practice in this Way.

FIG. I. Shews a *Column* in the *Reel*: The Pieces
at each End on which the *Column* hangs, have their
upper Ends left level with the upper Side of the
Column, that when a straight Rule is laid on those
two Pieces, and FIG. VI. placed to the Bottom of
the *Column*, and FIG. VII. to the Top, with the
Flutes and *Fillets* drawn on each of them, then
Lines, drawn by the Rule from the Bottom to the
Top, will swell and diminish your *Flutes*.

FIG. II. Shews a *Pilaster*, with two *Gauges*;
one to gauge from a straight Side, and the other to
gauge one that diminishes: It will be sufficient to
put in *Teeth* for three *Flutes*, and gauge from each
side; for when there are more, it is difficult to run
the *Gauge* true.

FIG. III. Shews two *Ribs* glued together.

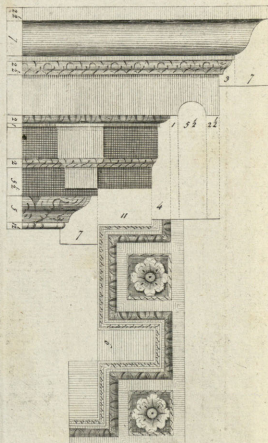
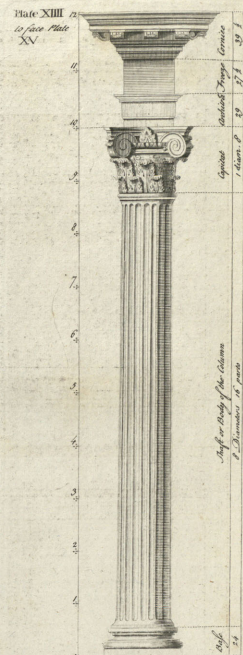
FIG. IV. Shews a *Column* glued up.

FIG. V. Shews the Rule for diminishing the
Ribs, before they are glued together. Sometimes
when the *Stuff* is thin, each *Rib* is fixed to a *Tem-
plet*, and bent near to the swelling of the *Column*,
and so glued two and two together. To diminish
the *Column*, divide the Height into seven Parts;
at two of those Parts strike a Semi-circle; then
draw the dotted Lines from the Neck of the *Co-
lumn* to the Semi-circle; divide the remaining
Part of the Semi-circle into four equal Parts;
where these cut the Semi-circle, they will give the
diminishing Parts, as is shewn up the Side of the
Column, by the Figures 1, 2, 3, 4.

FIG. VI. Shews the *Splaying Mould* of the *Ribs*
and the *Backing Mould*.

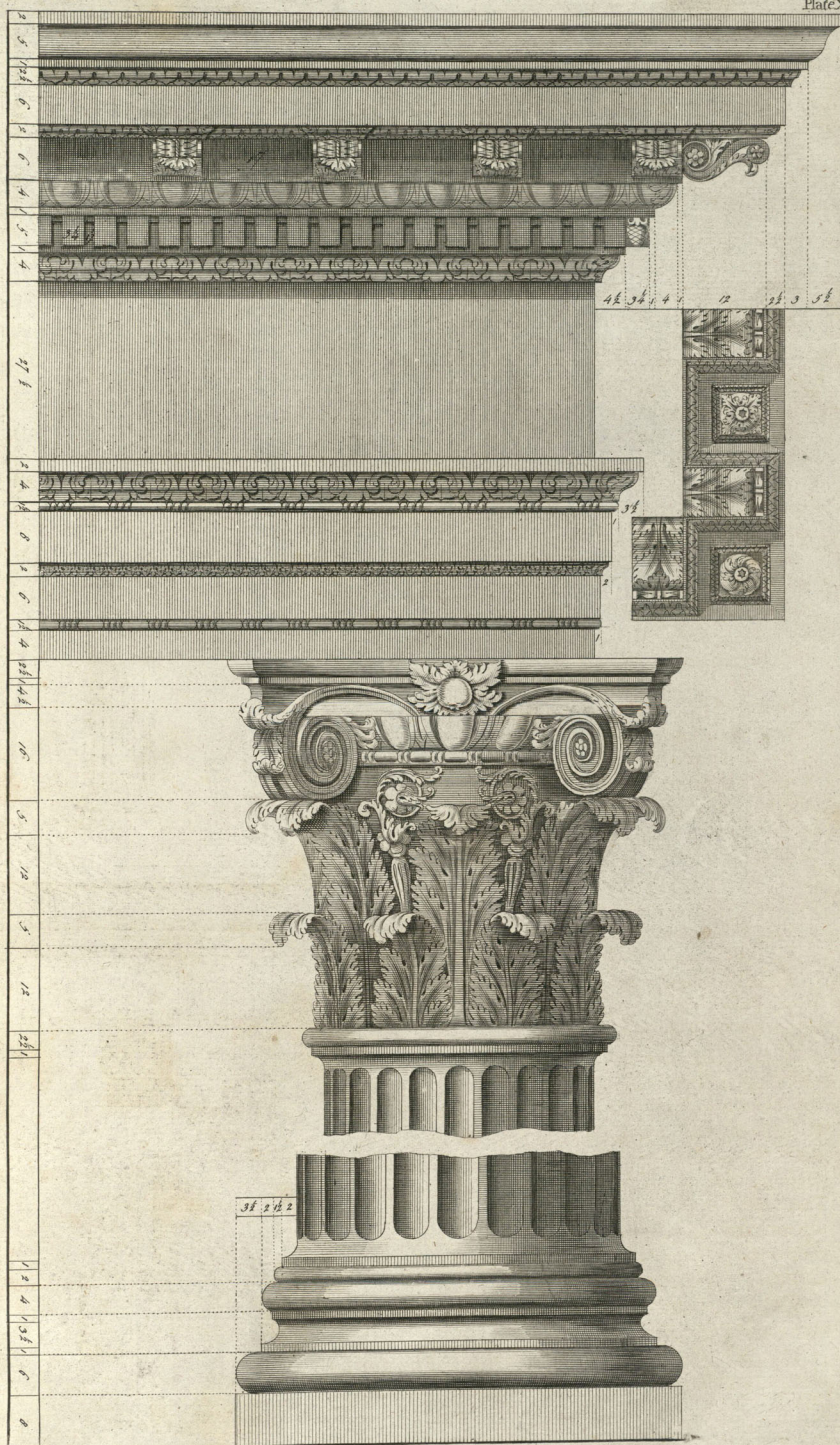
FIG. VII. Shews two *Flutes* in a *Rib*. You are
always to observe, that the *Flutes* happen not in the
Joints.

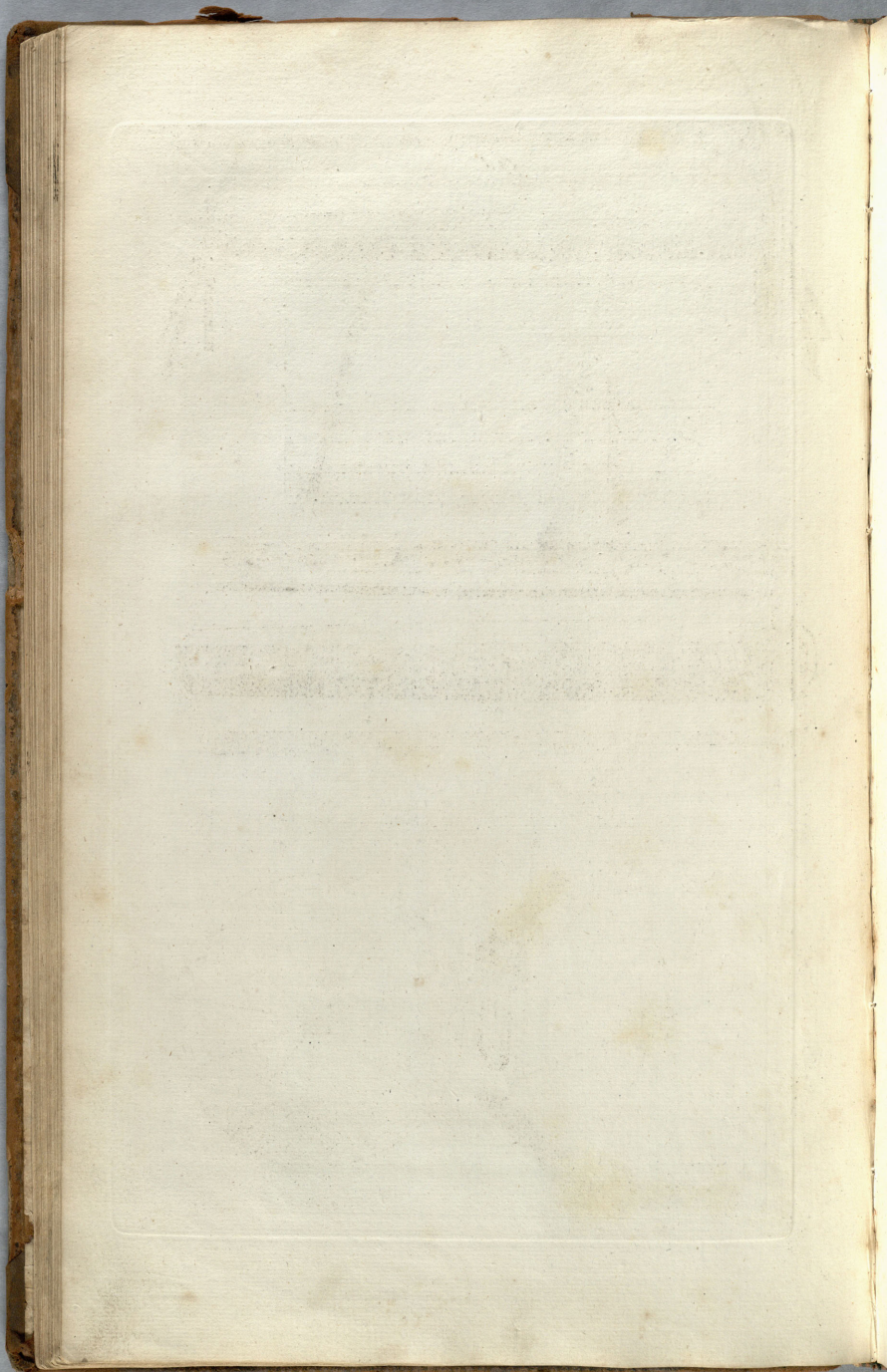
Plate XIII
to face Plate
XV

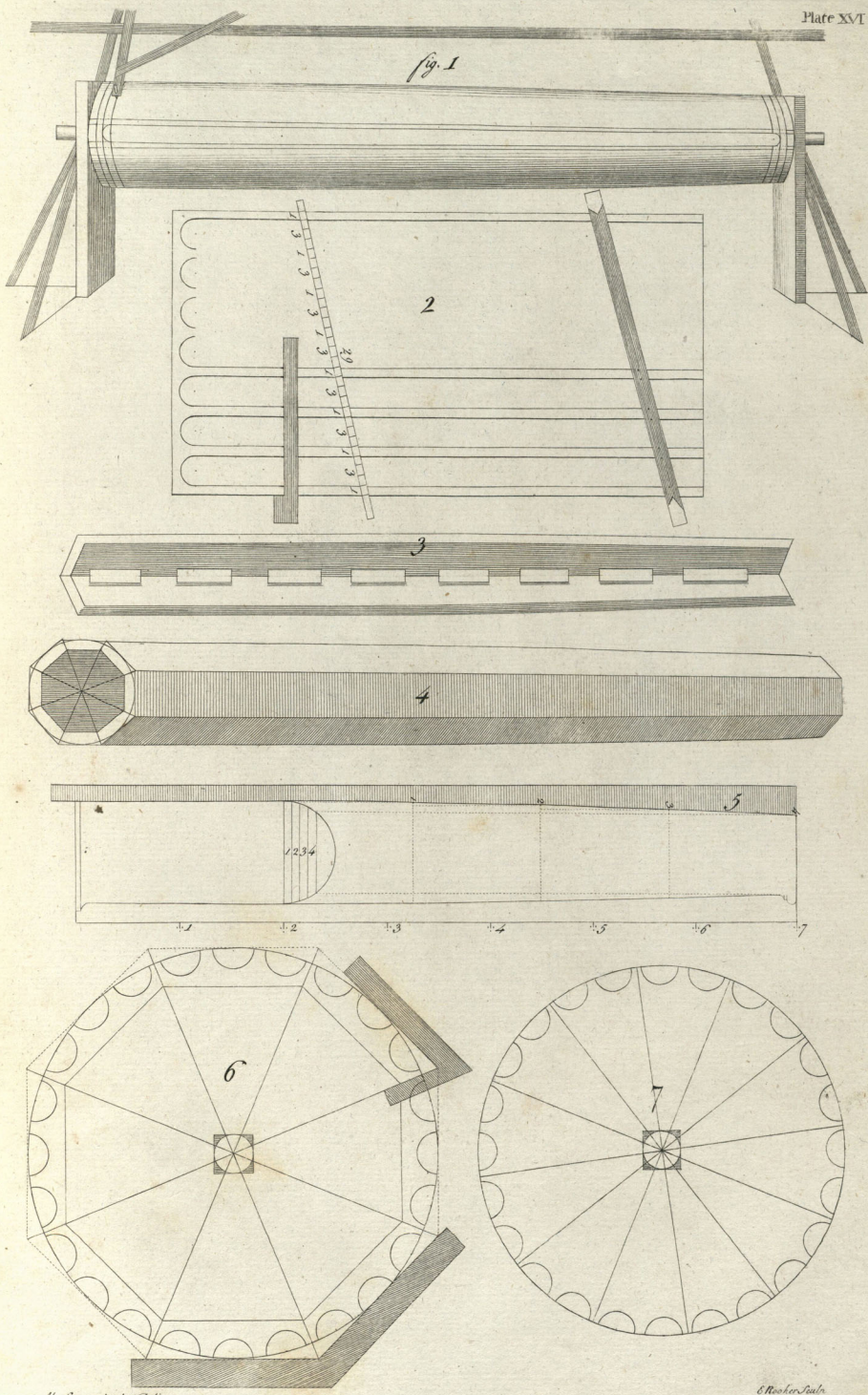


At Seven and a half

Chairs

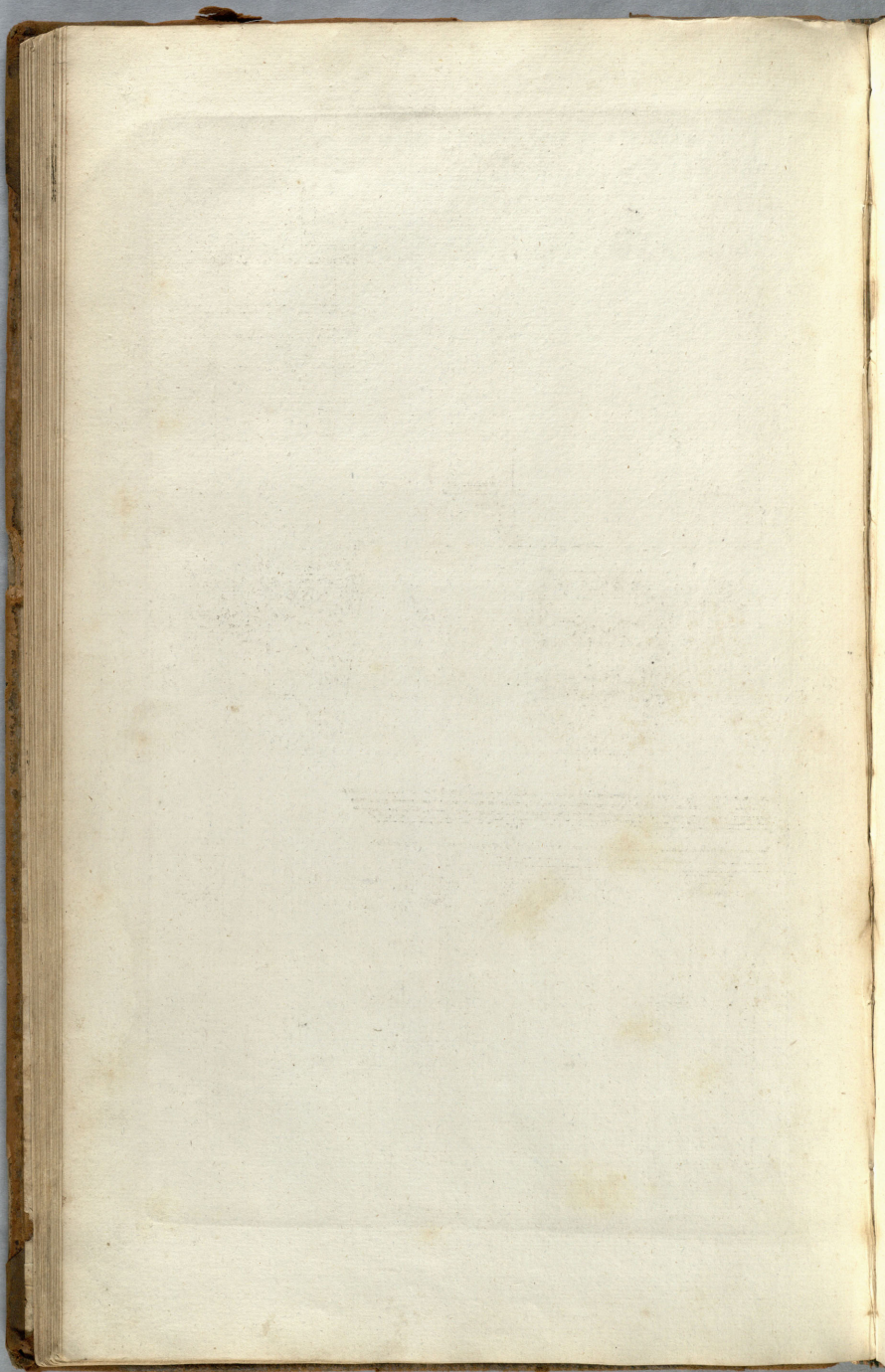


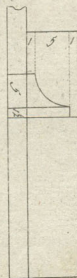
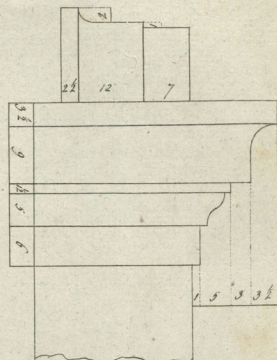
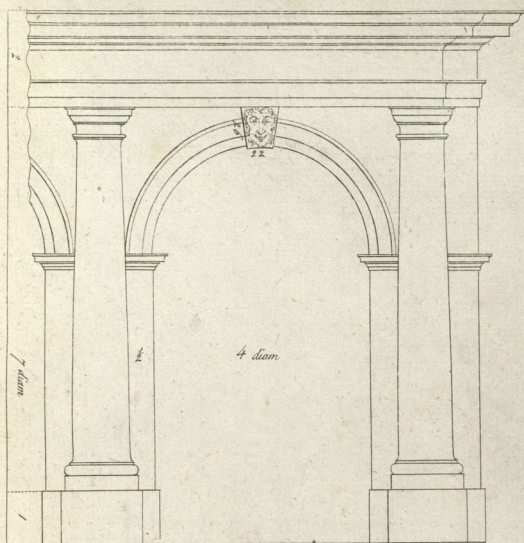


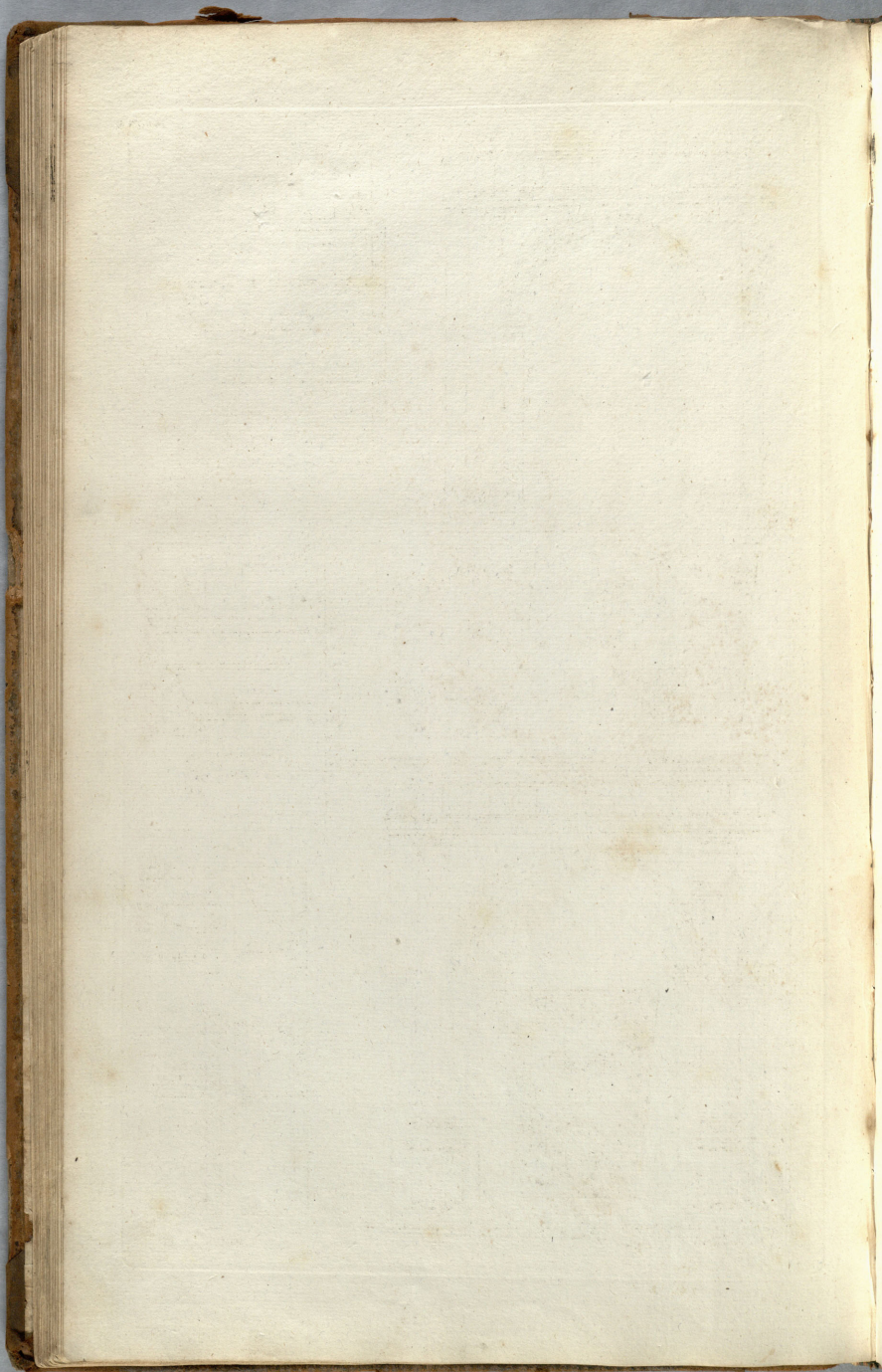


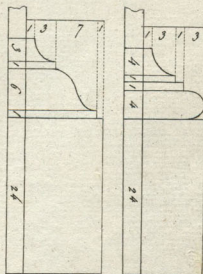
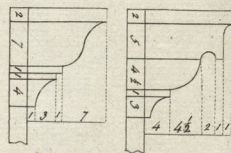
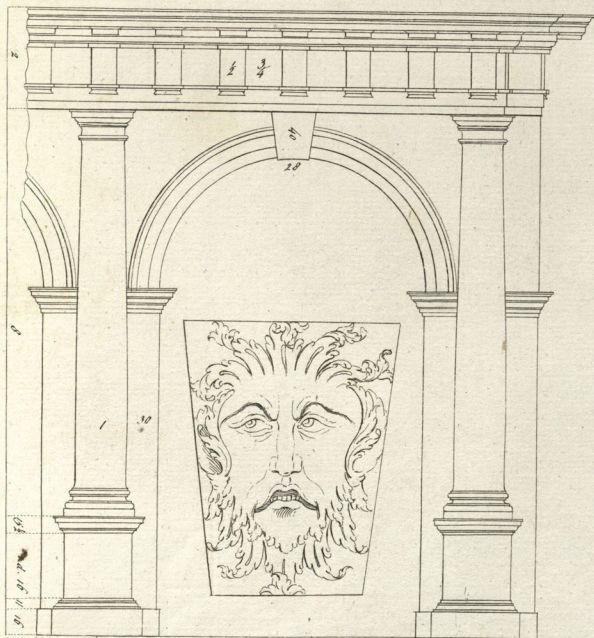
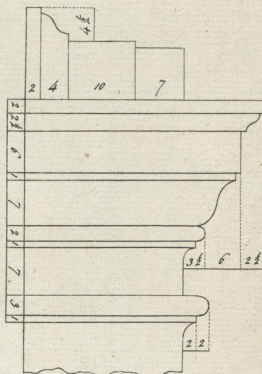
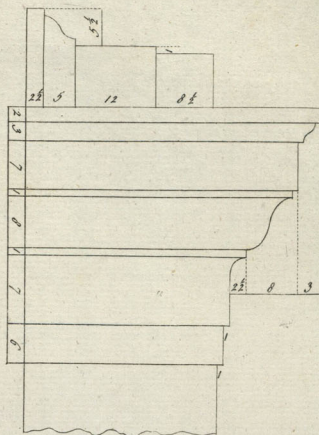
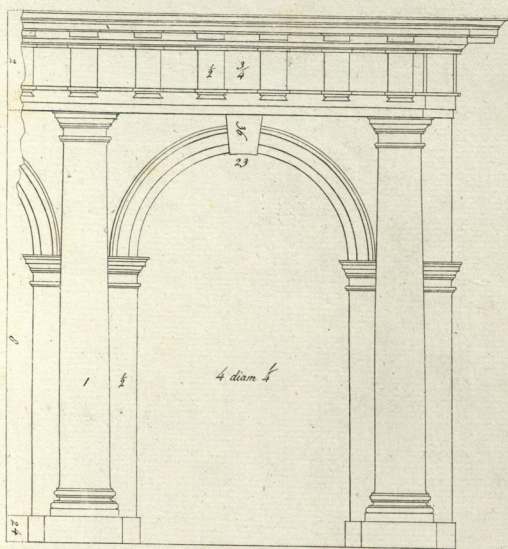
M. Swan inv. et Delin.

W. Woodcut.





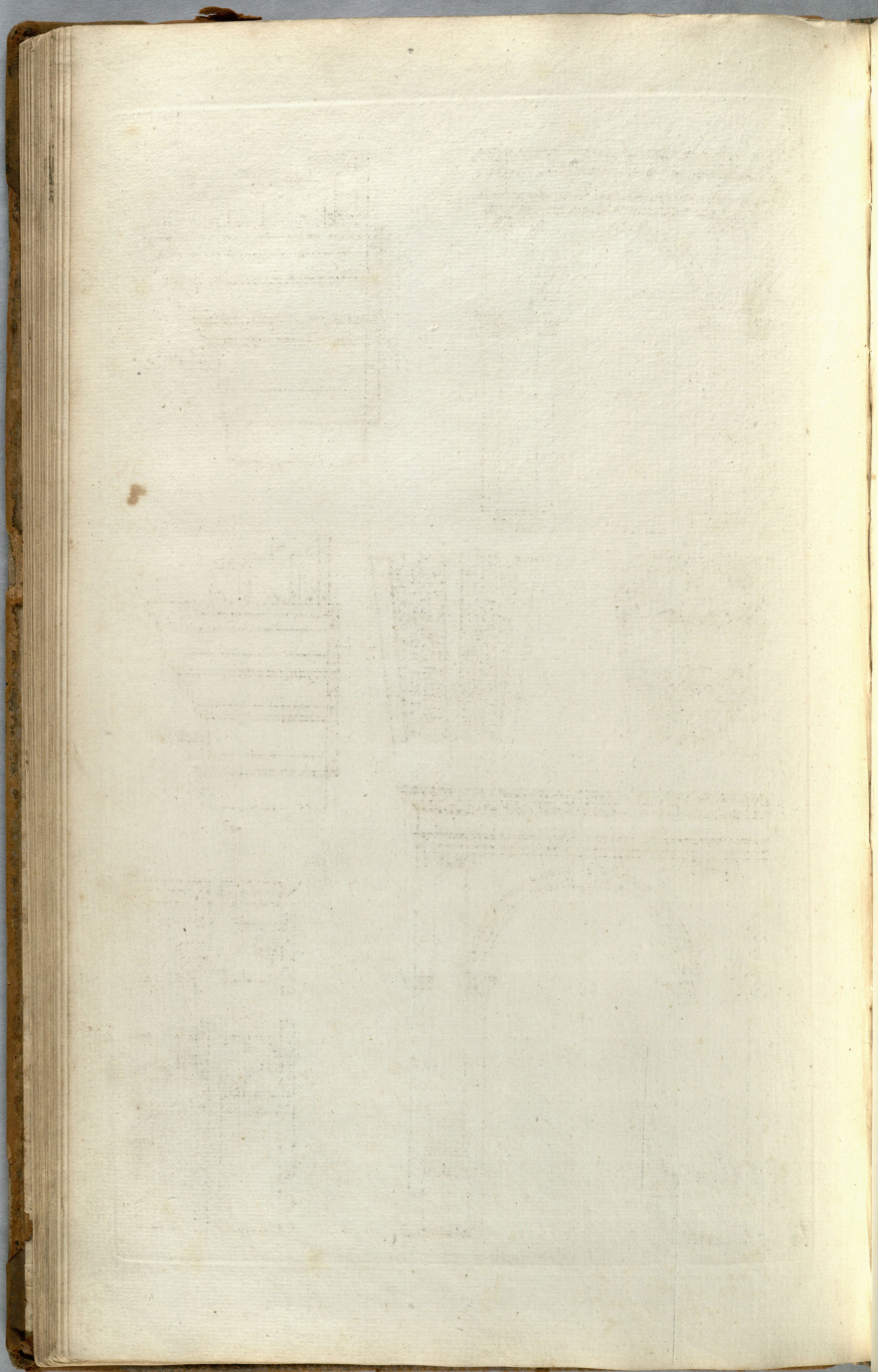


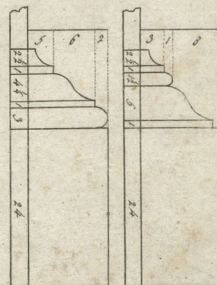
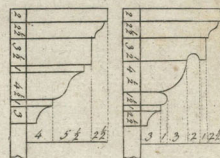
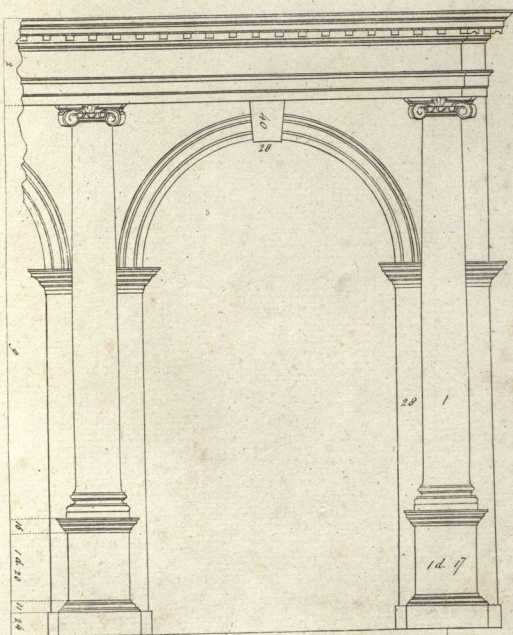
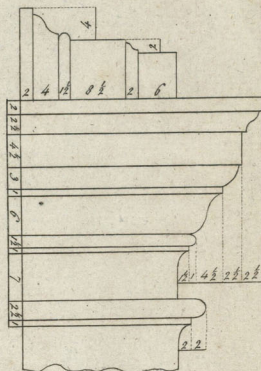
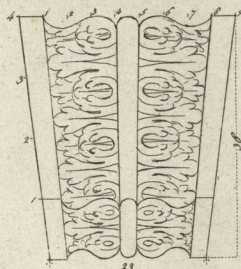
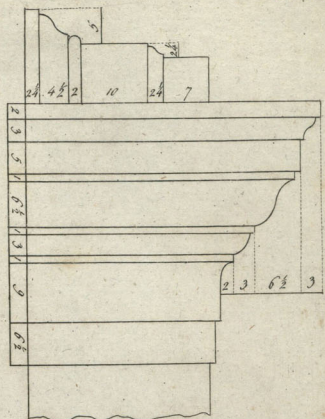
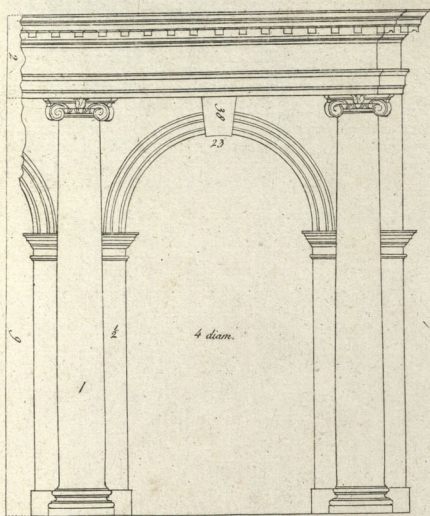


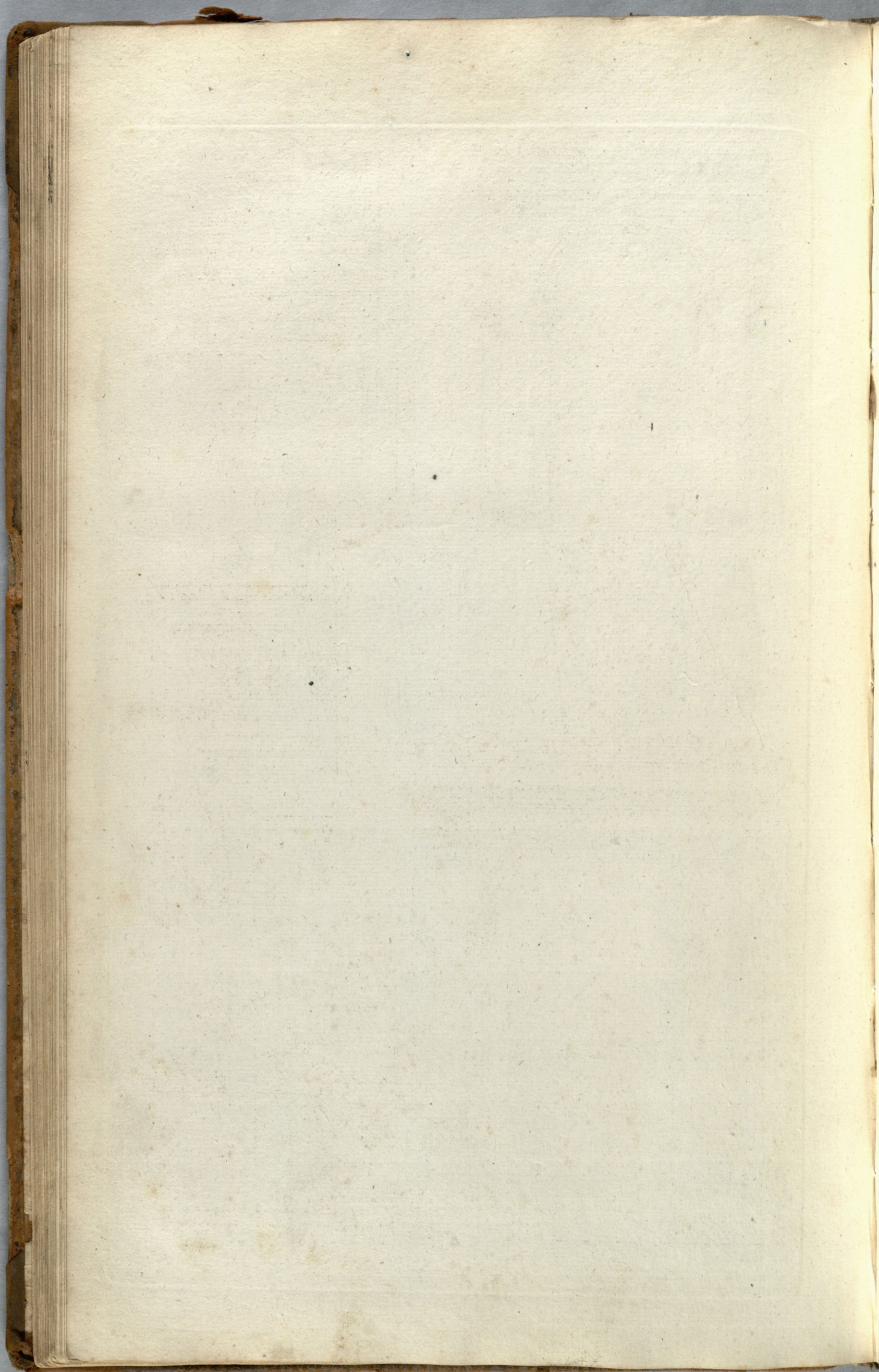
Al. Trevi in et de.

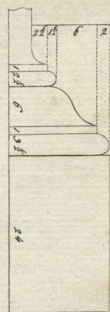
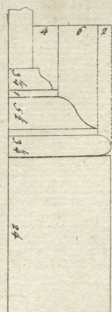
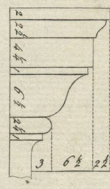
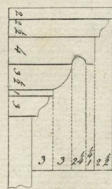
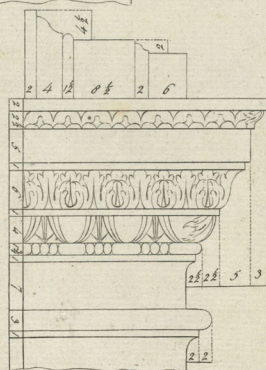
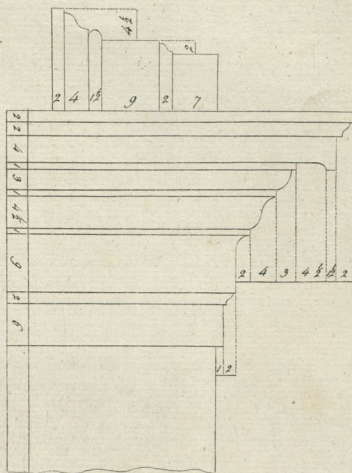
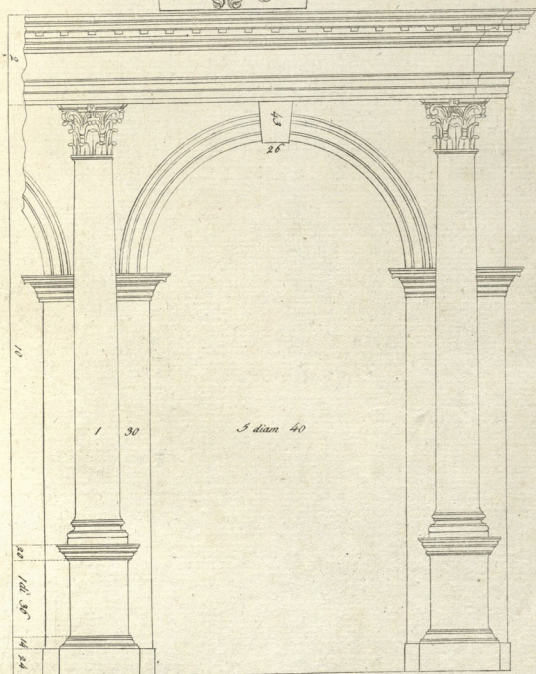
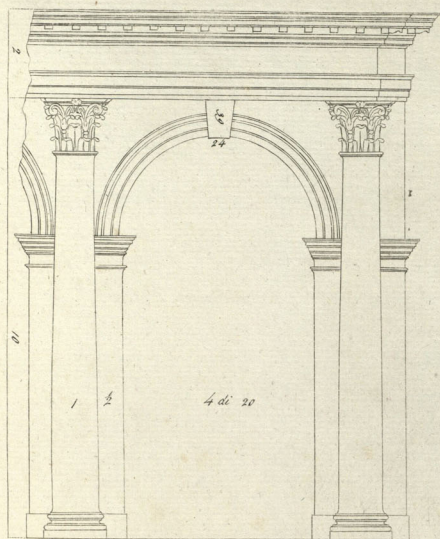
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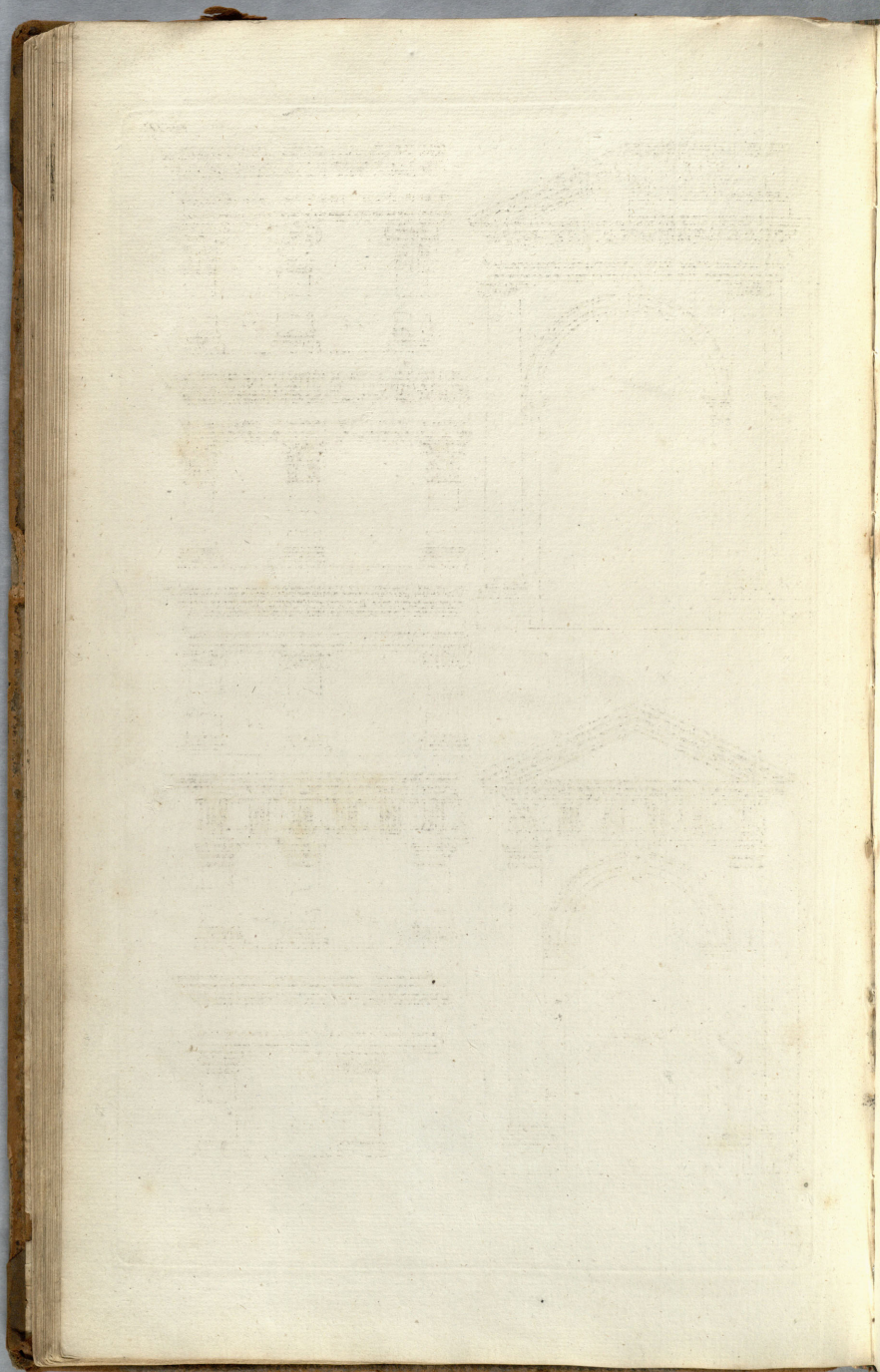
Mod. 10.

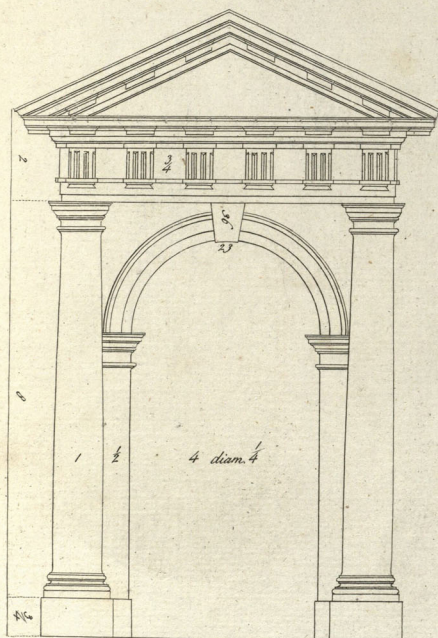
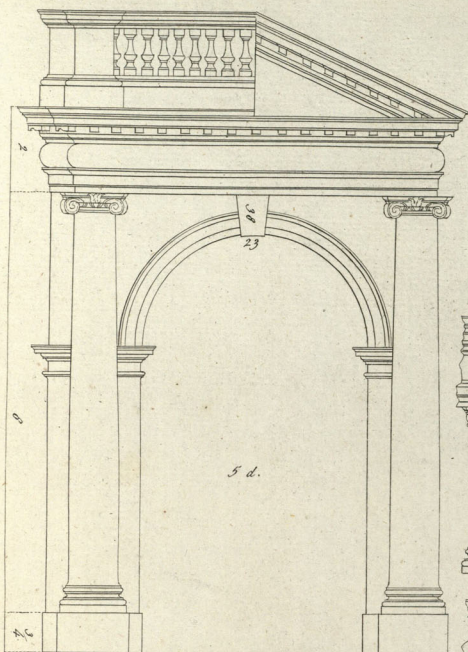




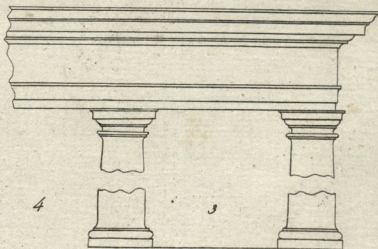
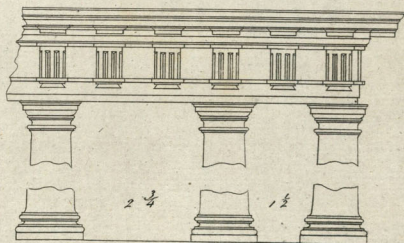
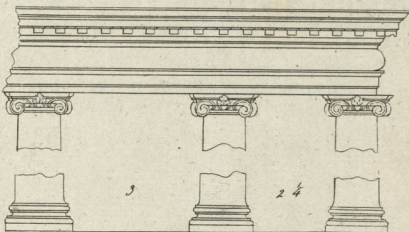
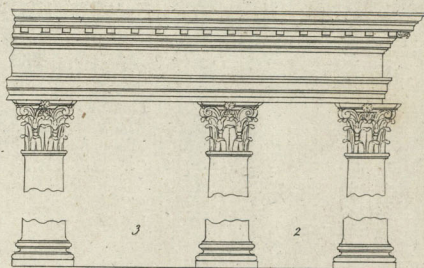
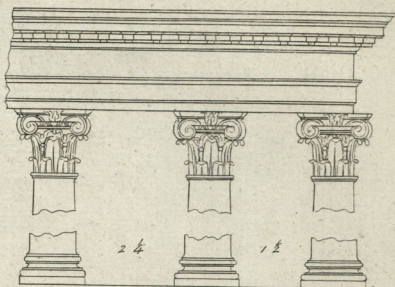




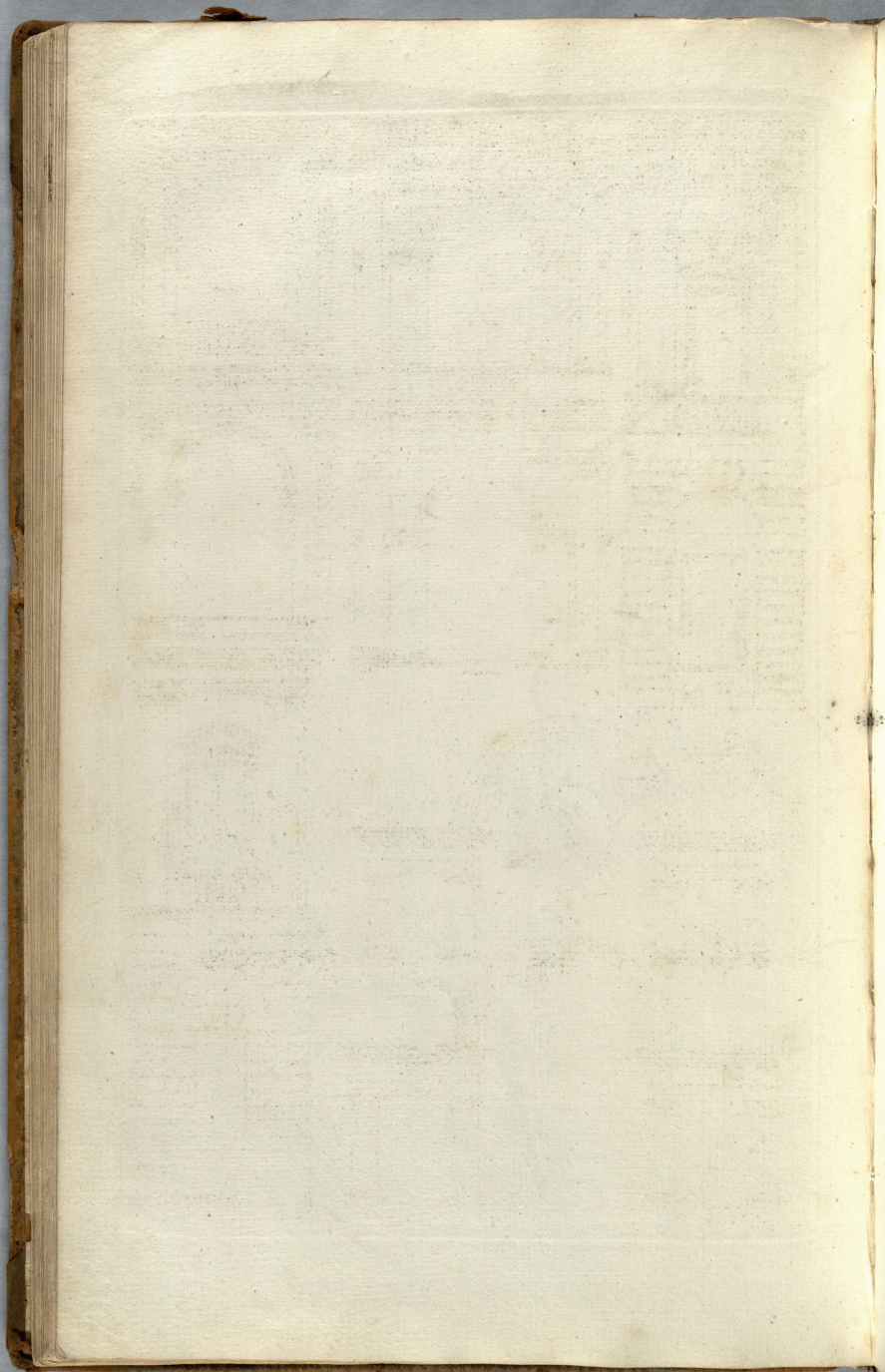


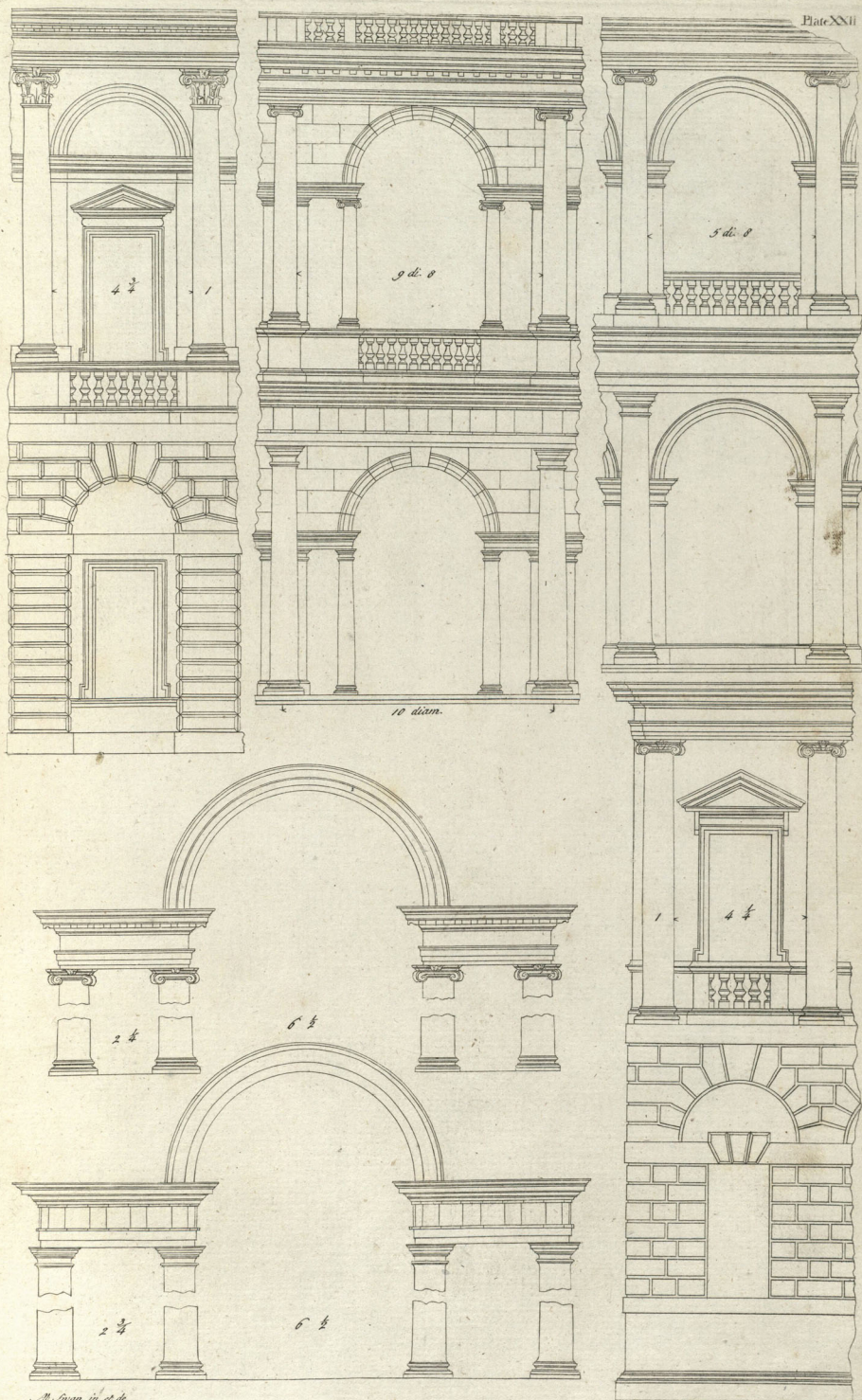


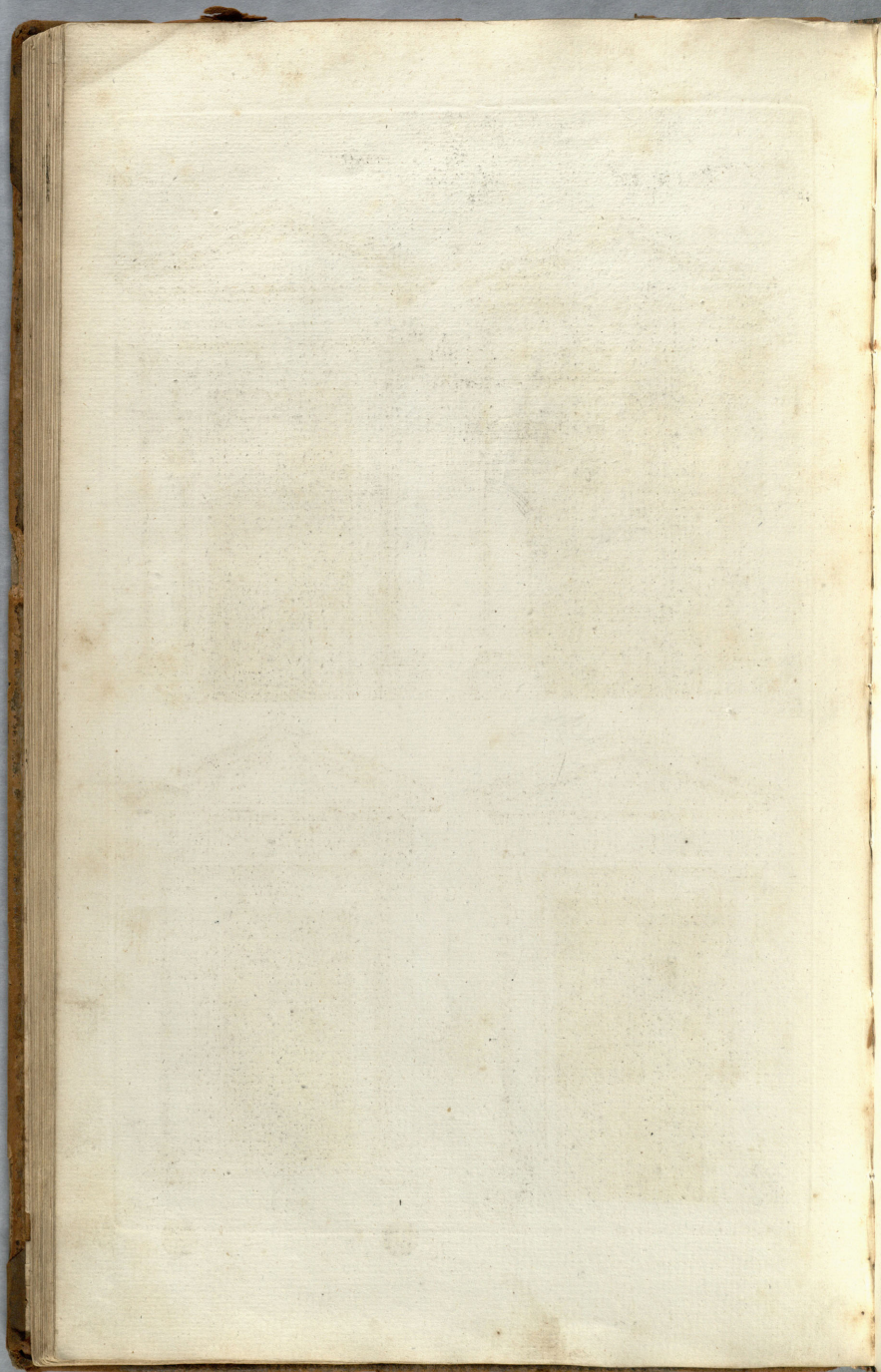
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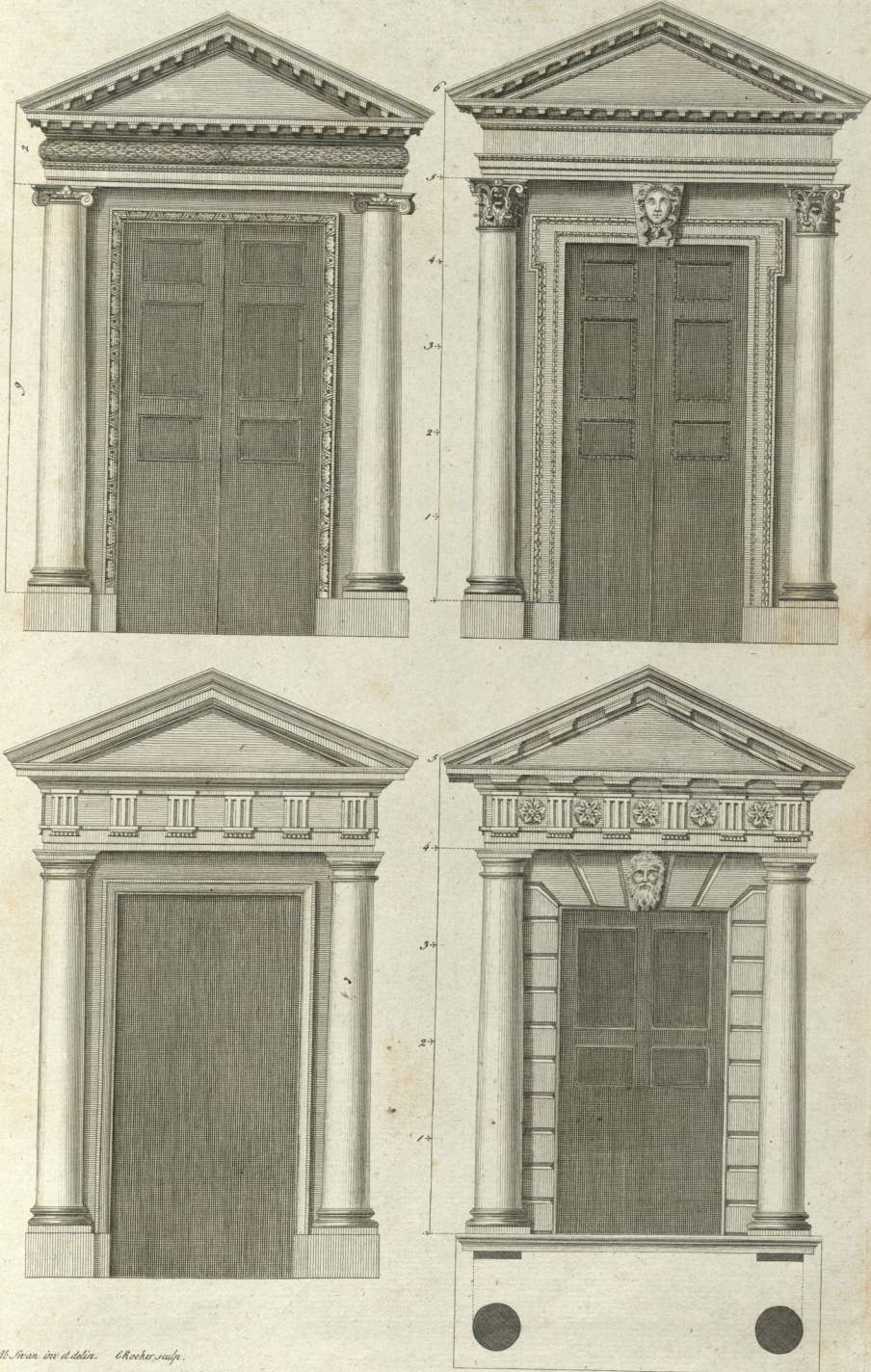


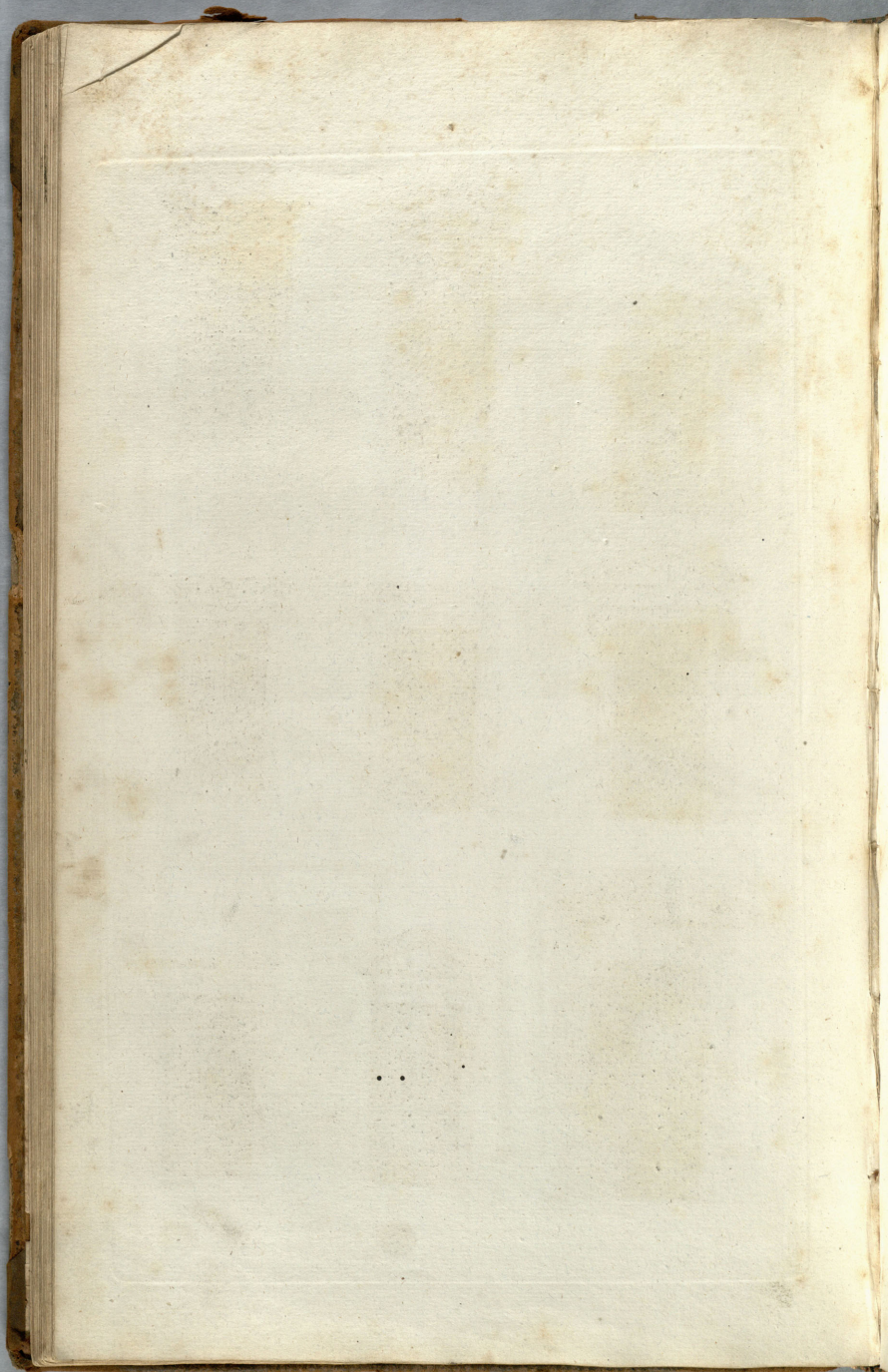
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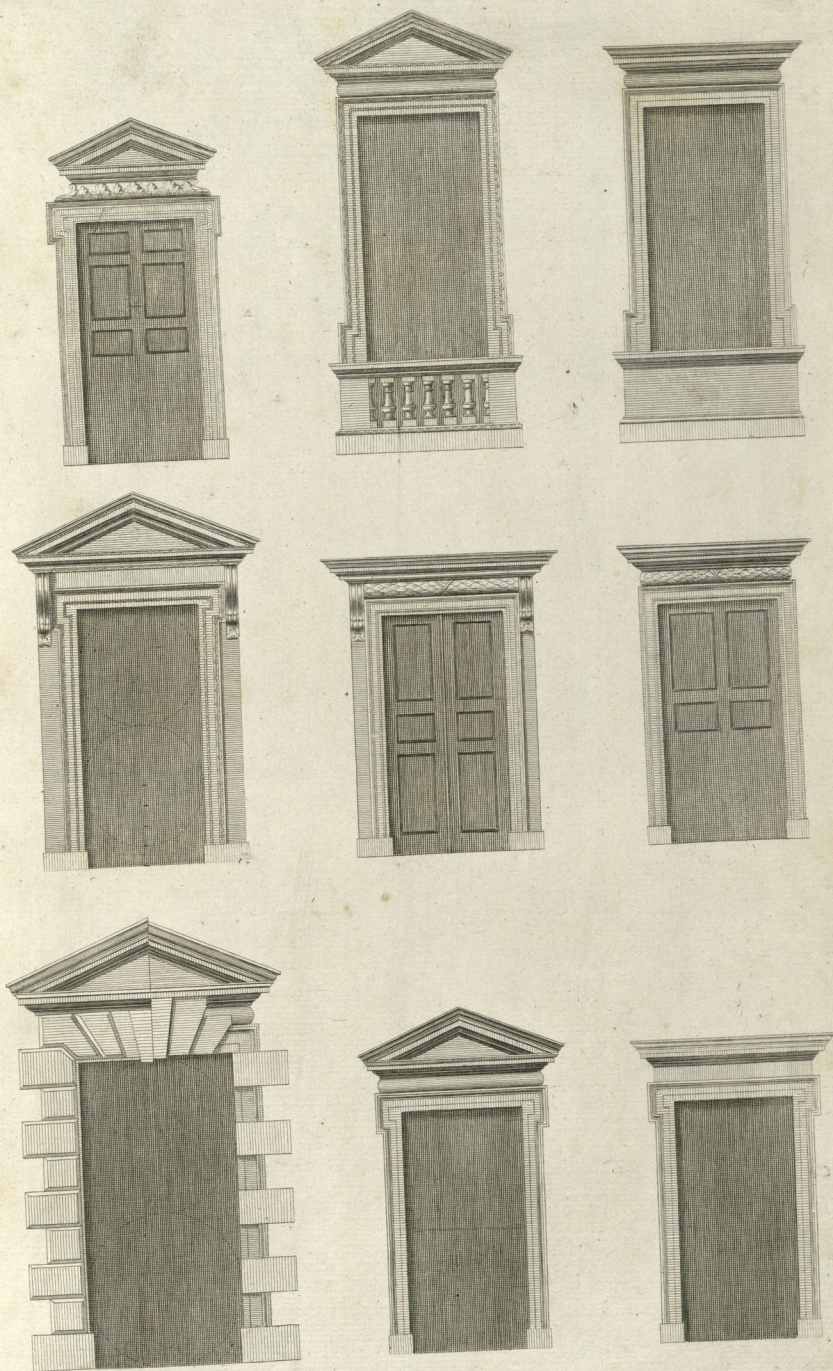


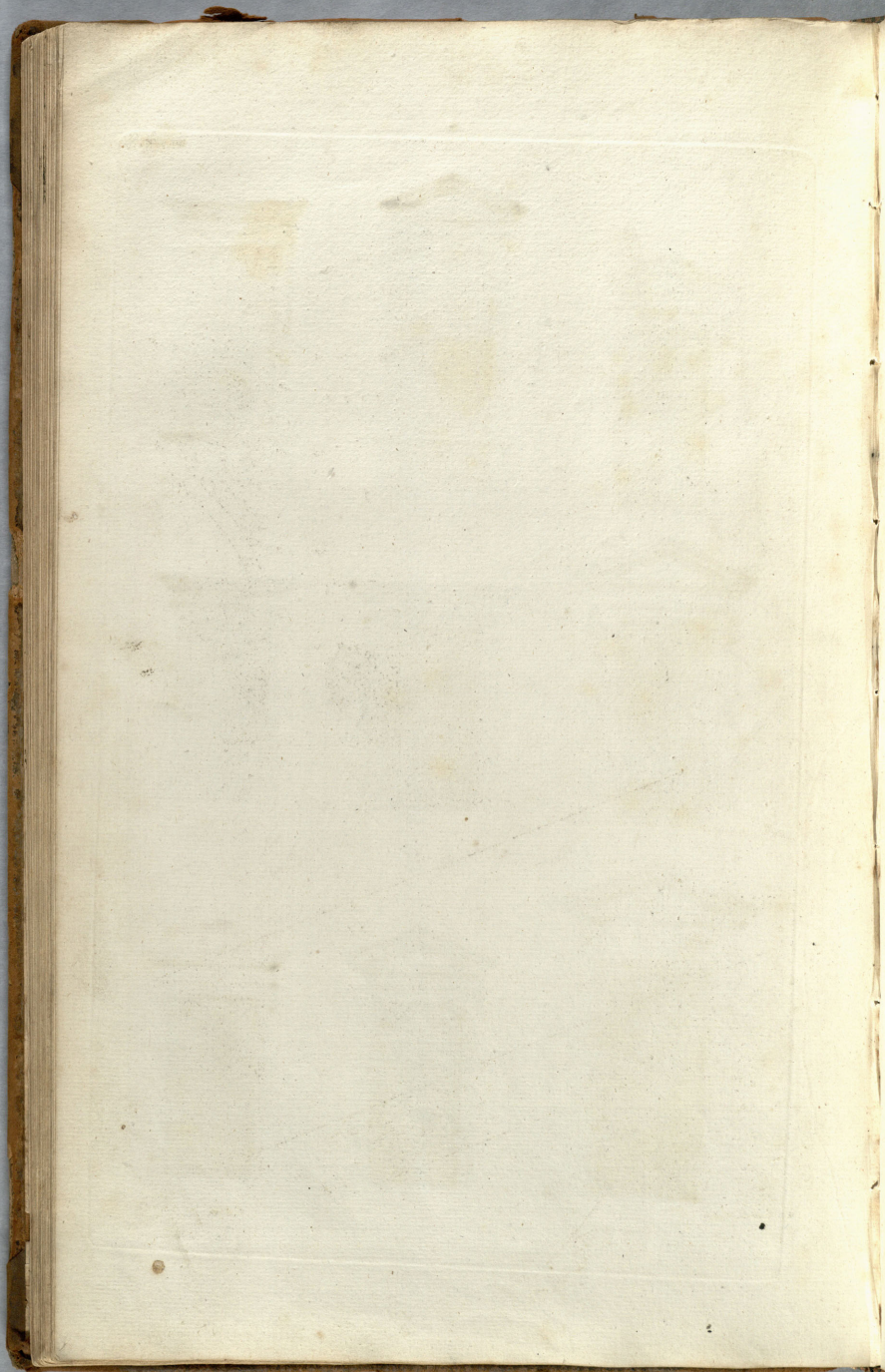


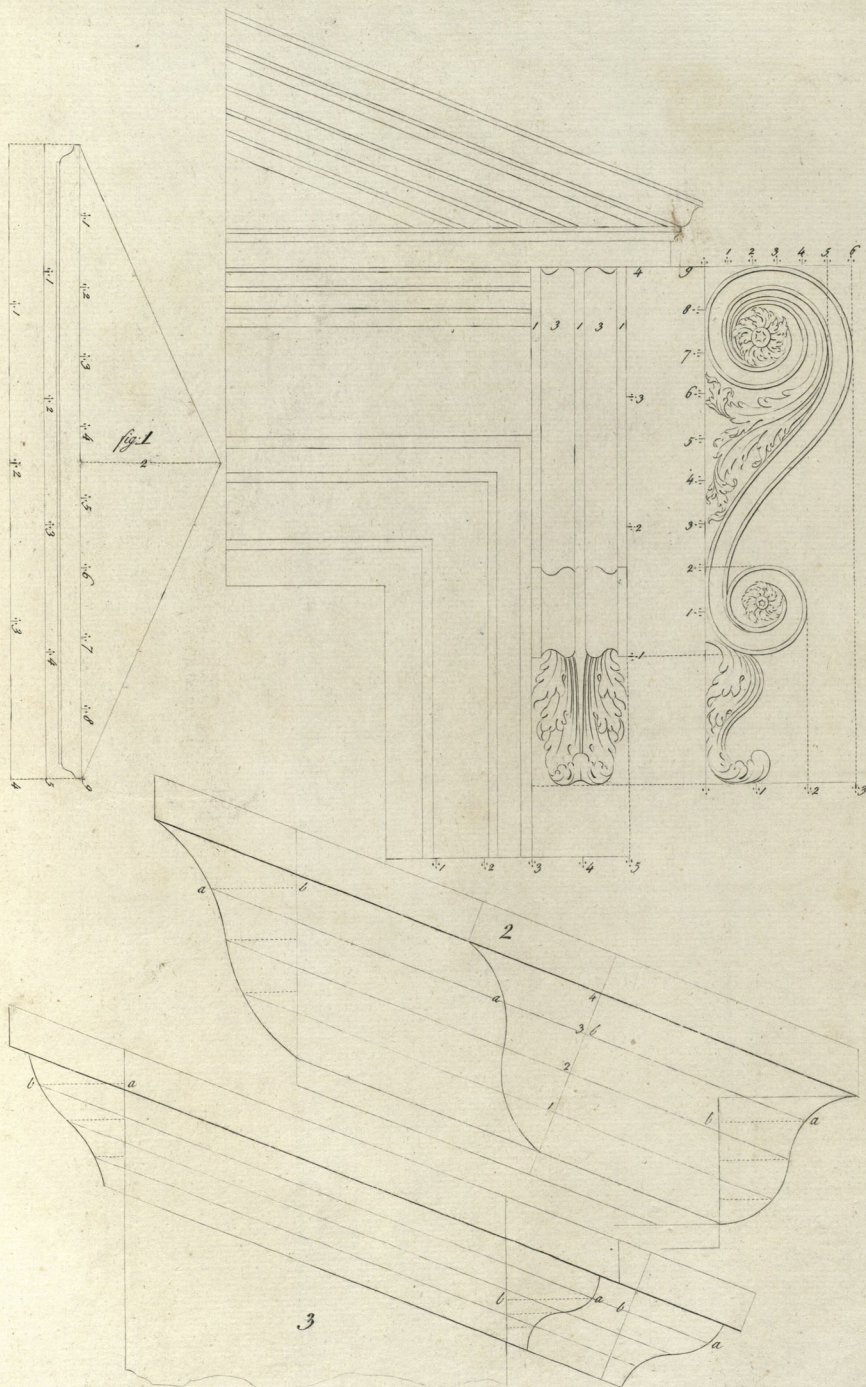






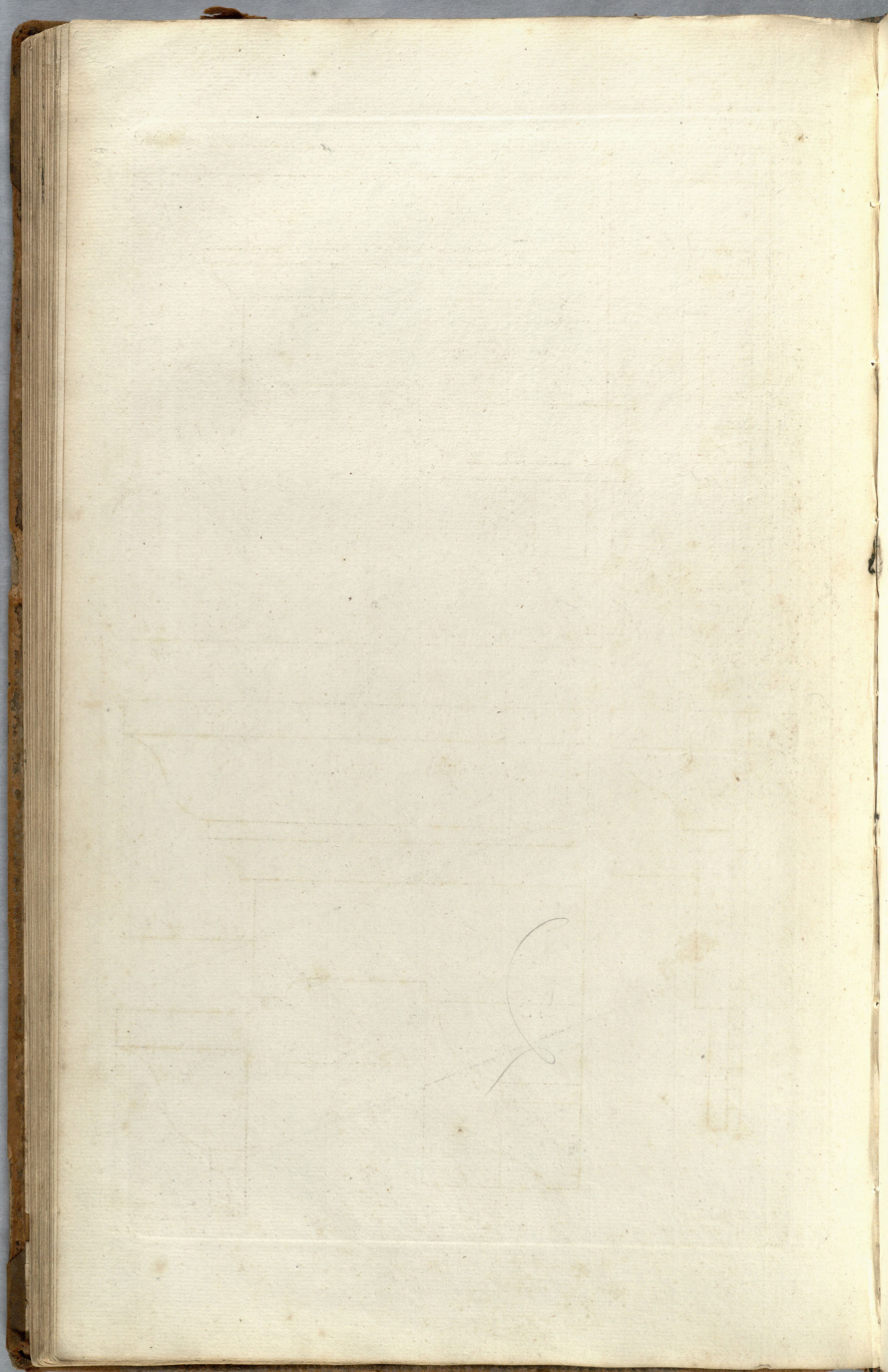


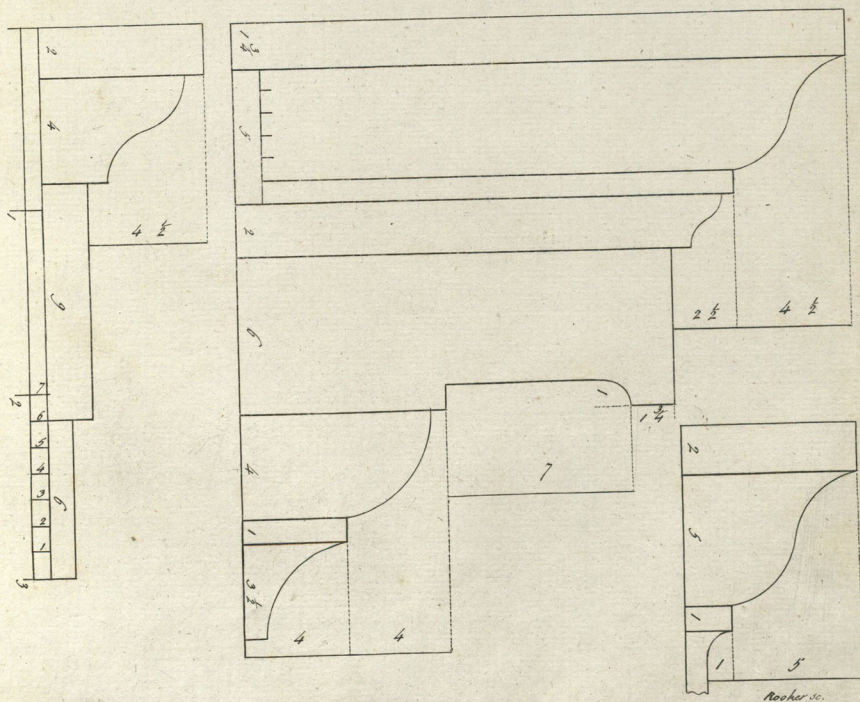
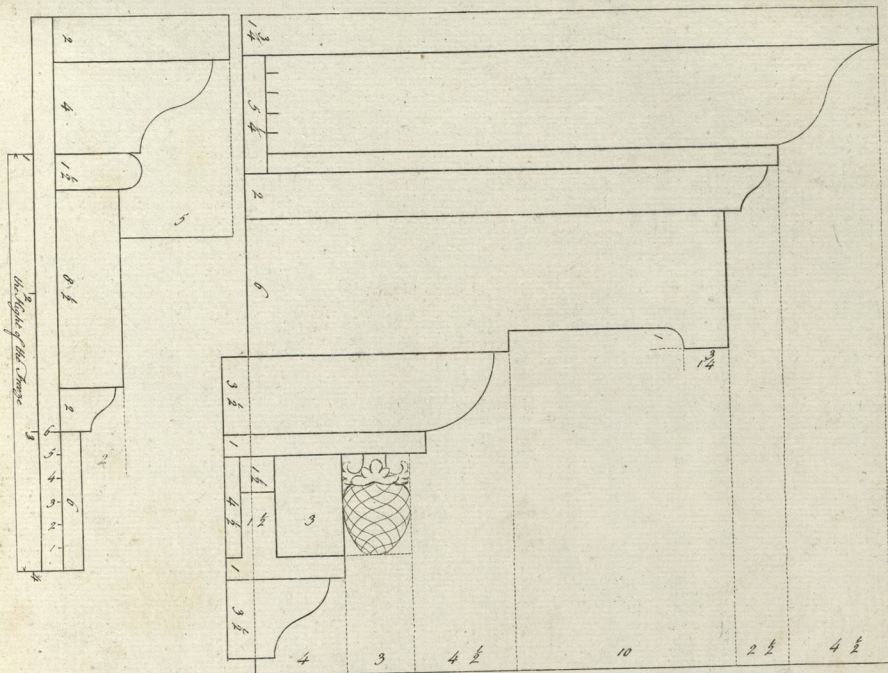


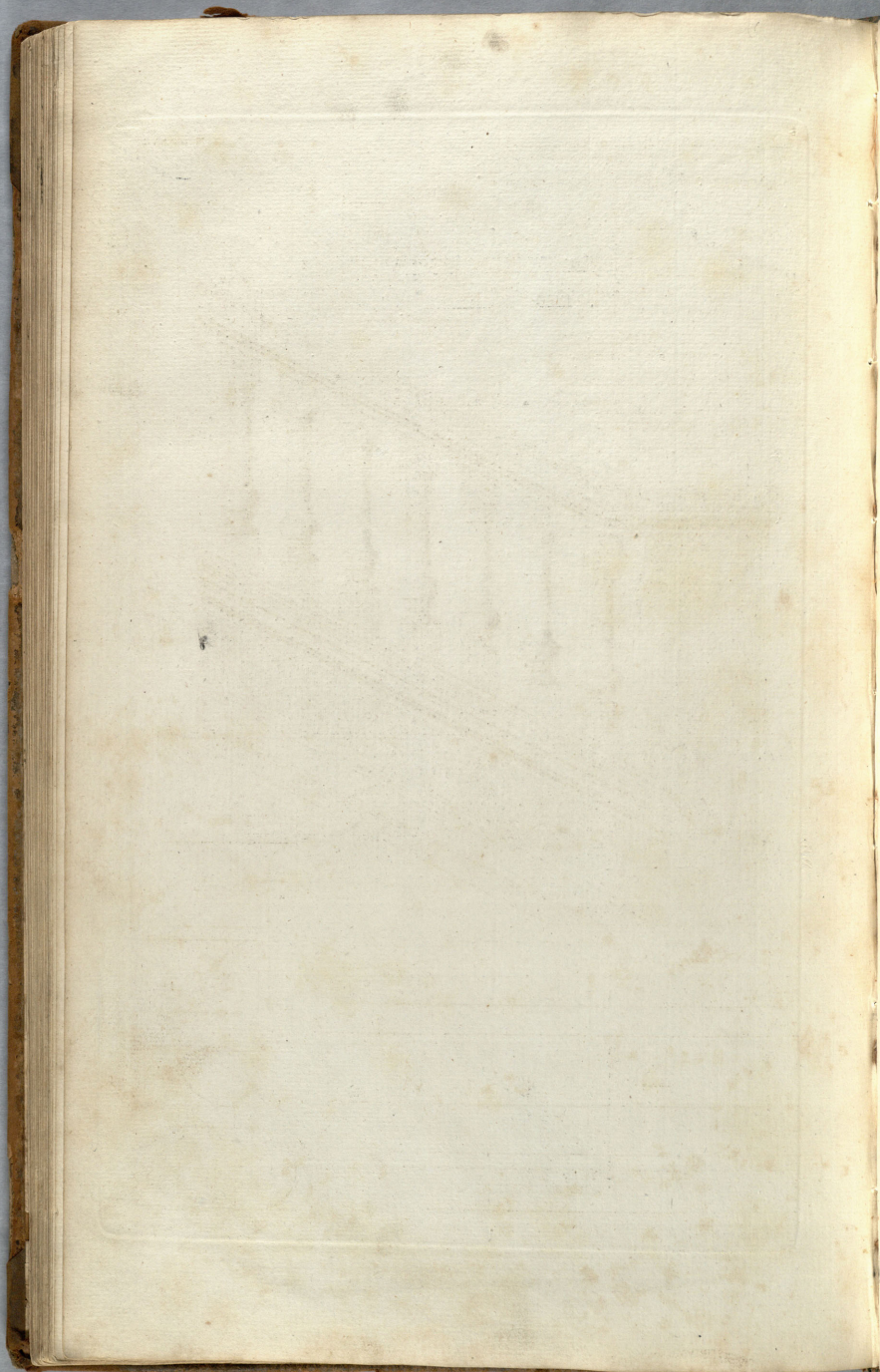


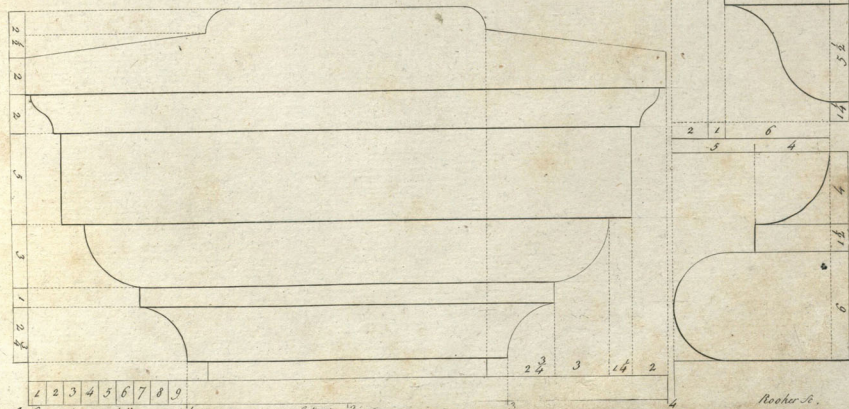
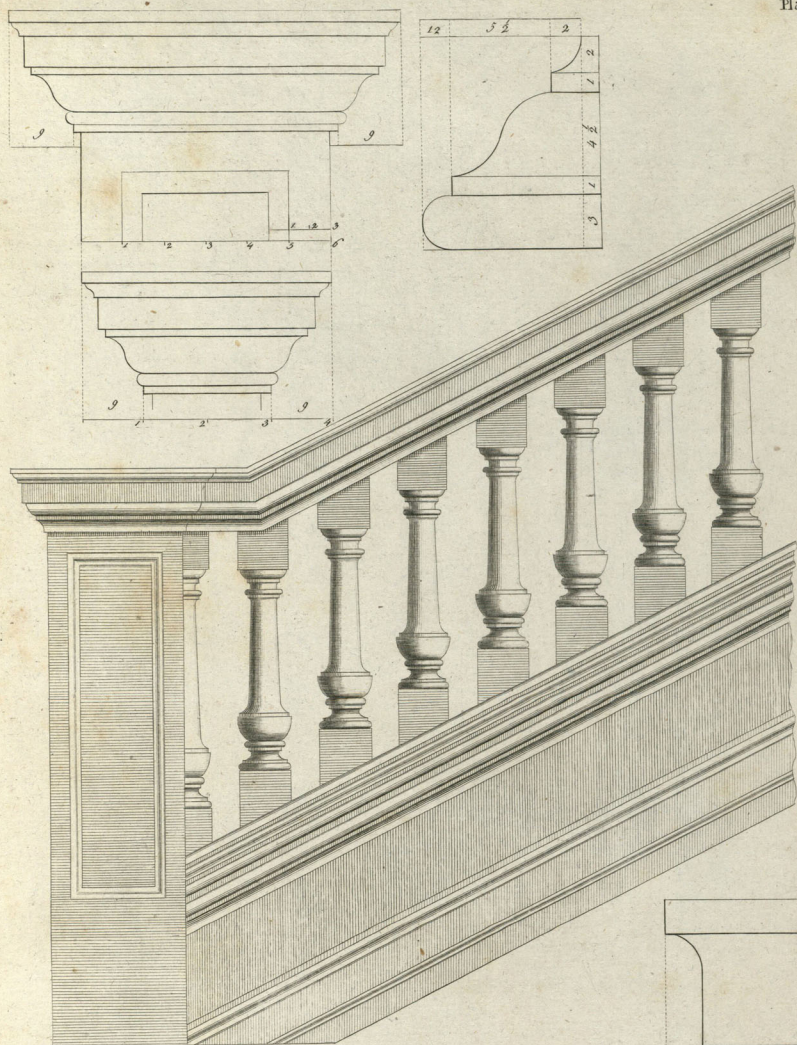
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C. Rooker sc.



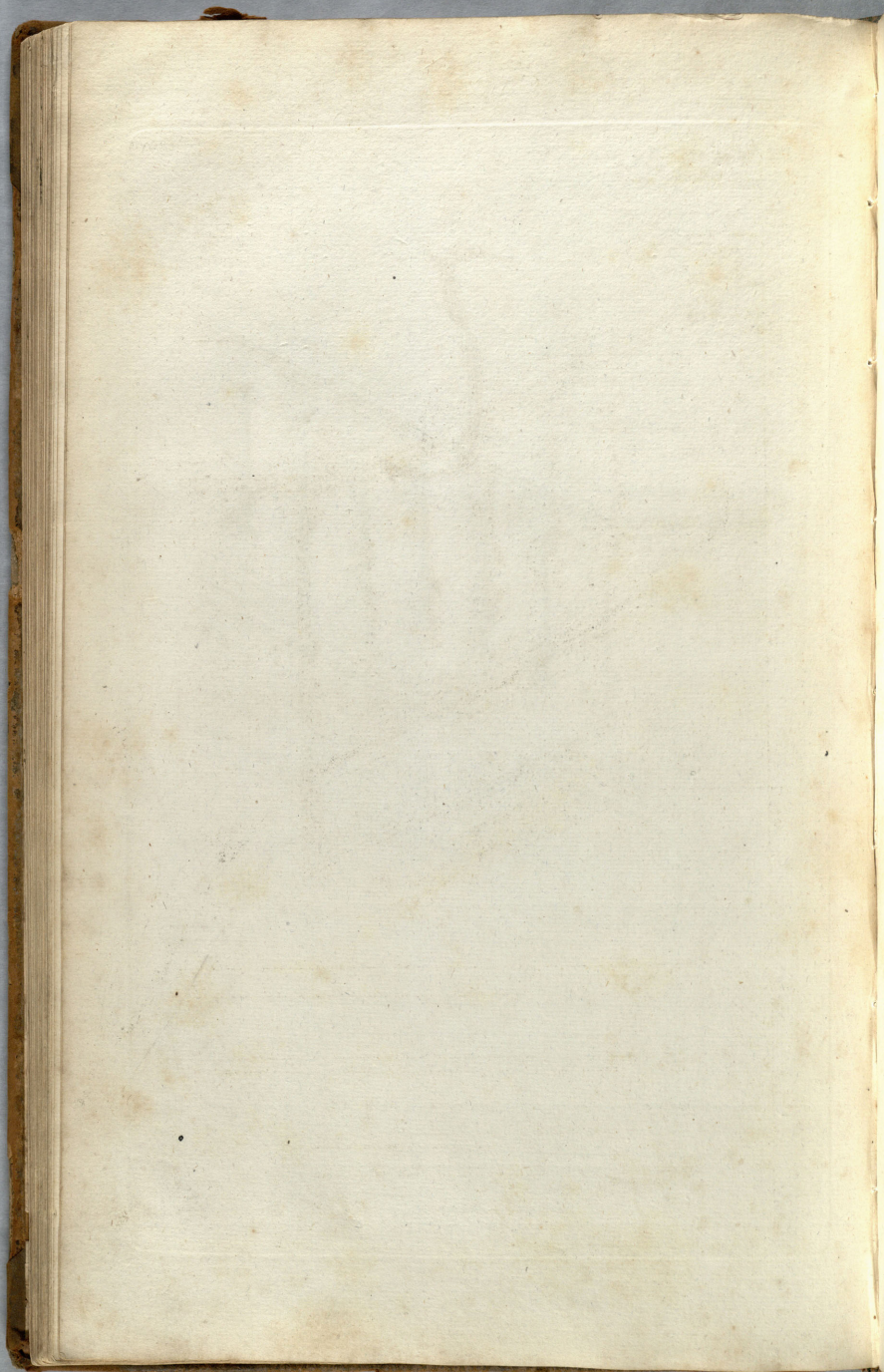


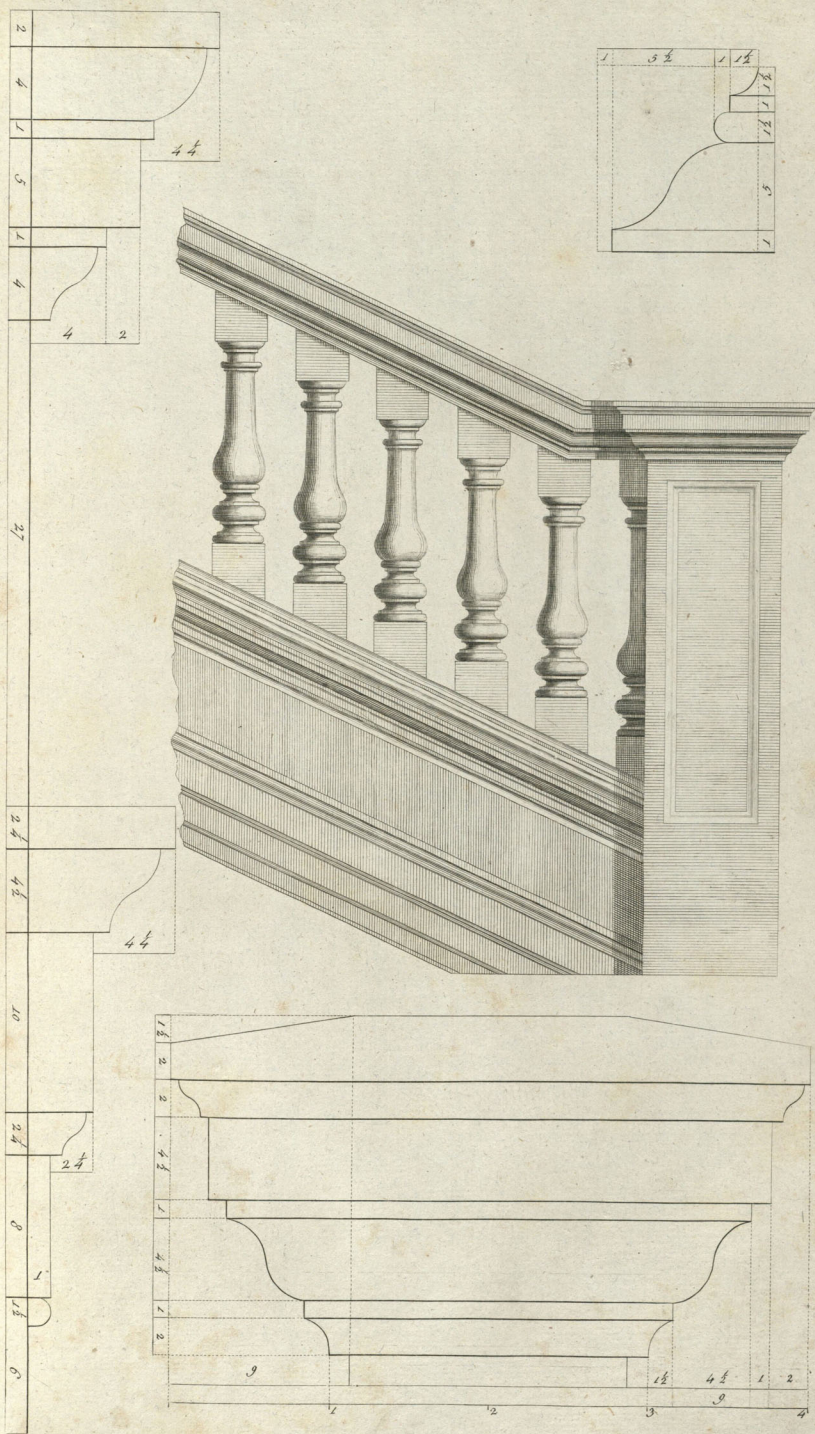


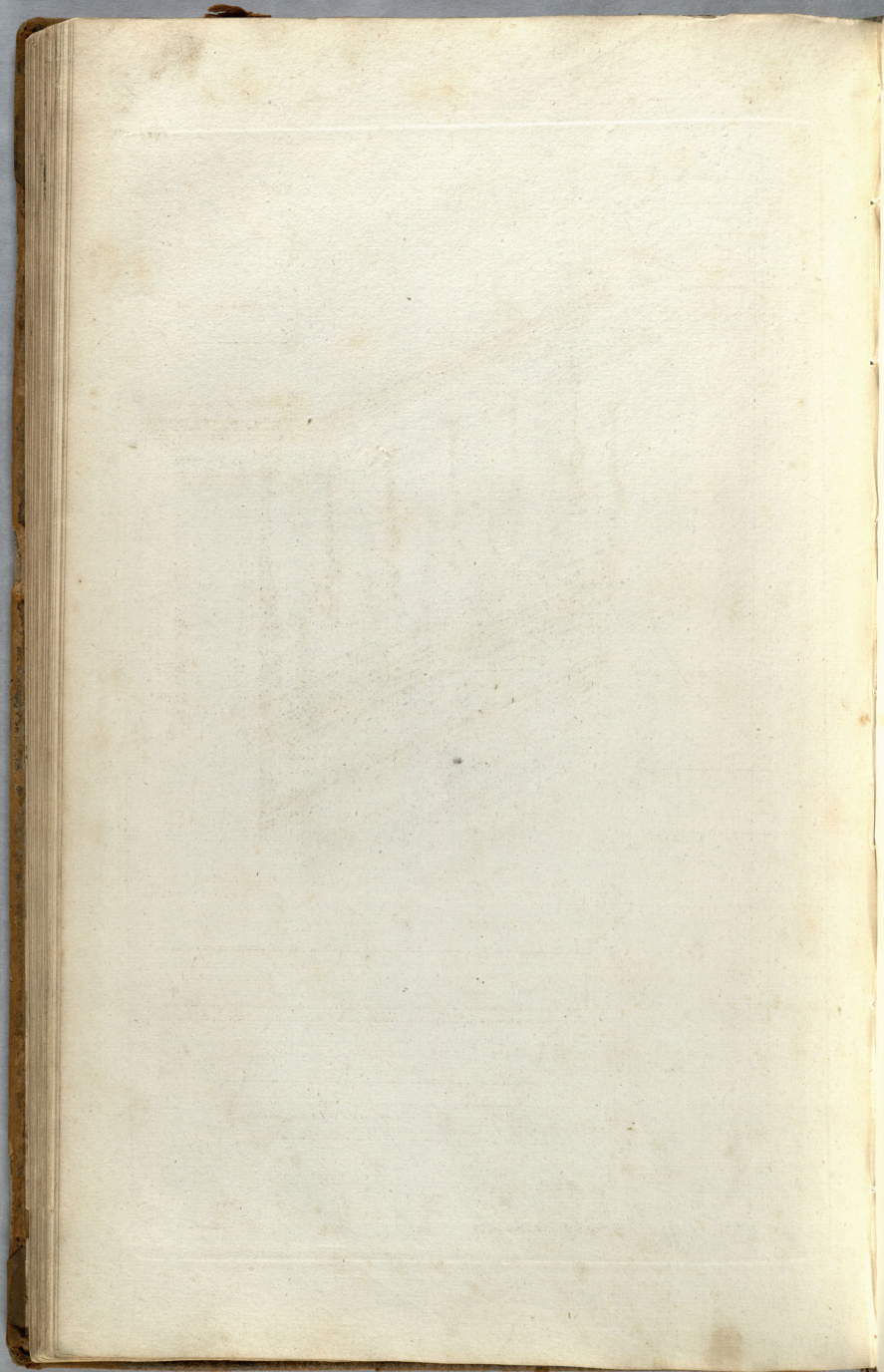


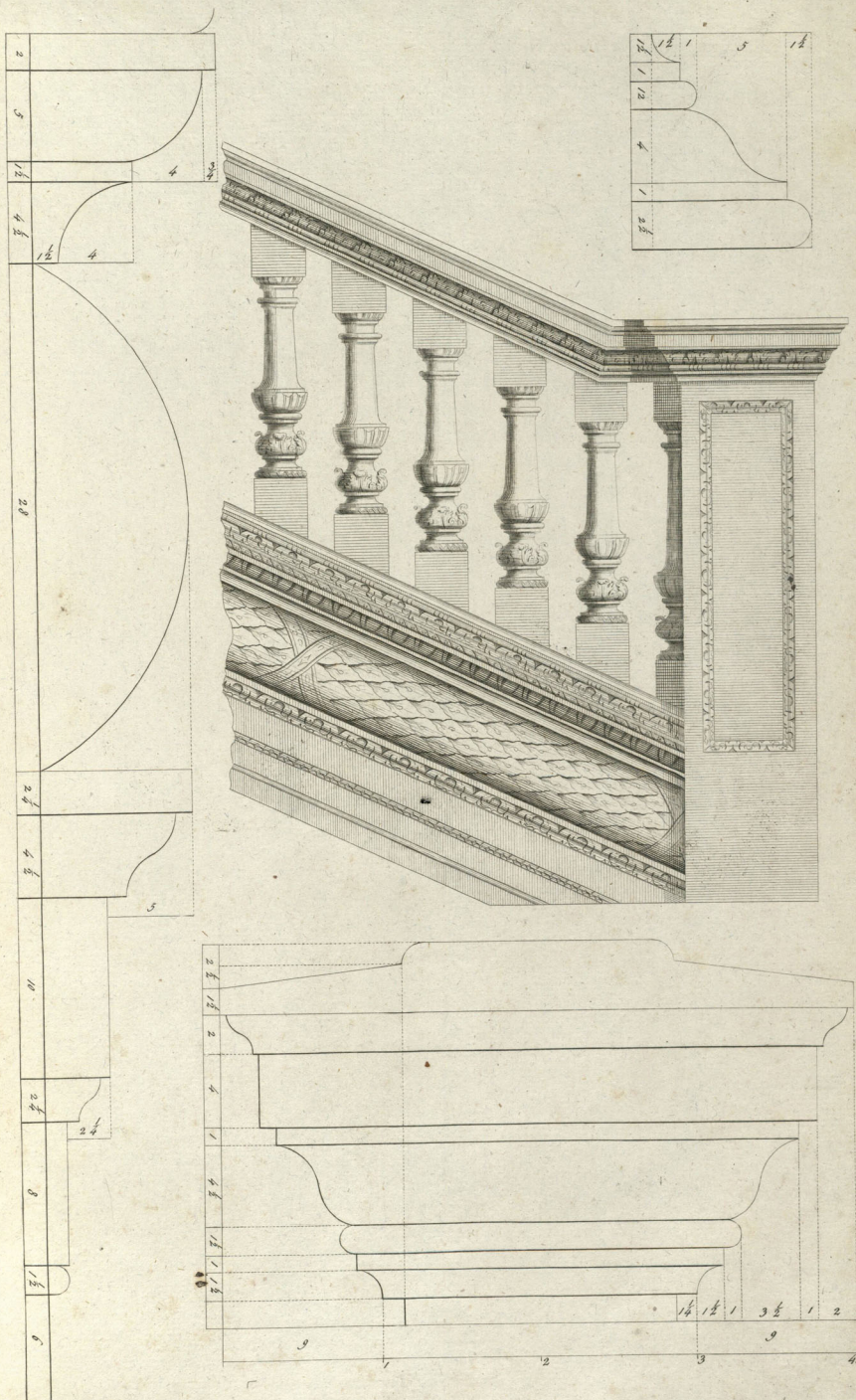
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Recher. 6.



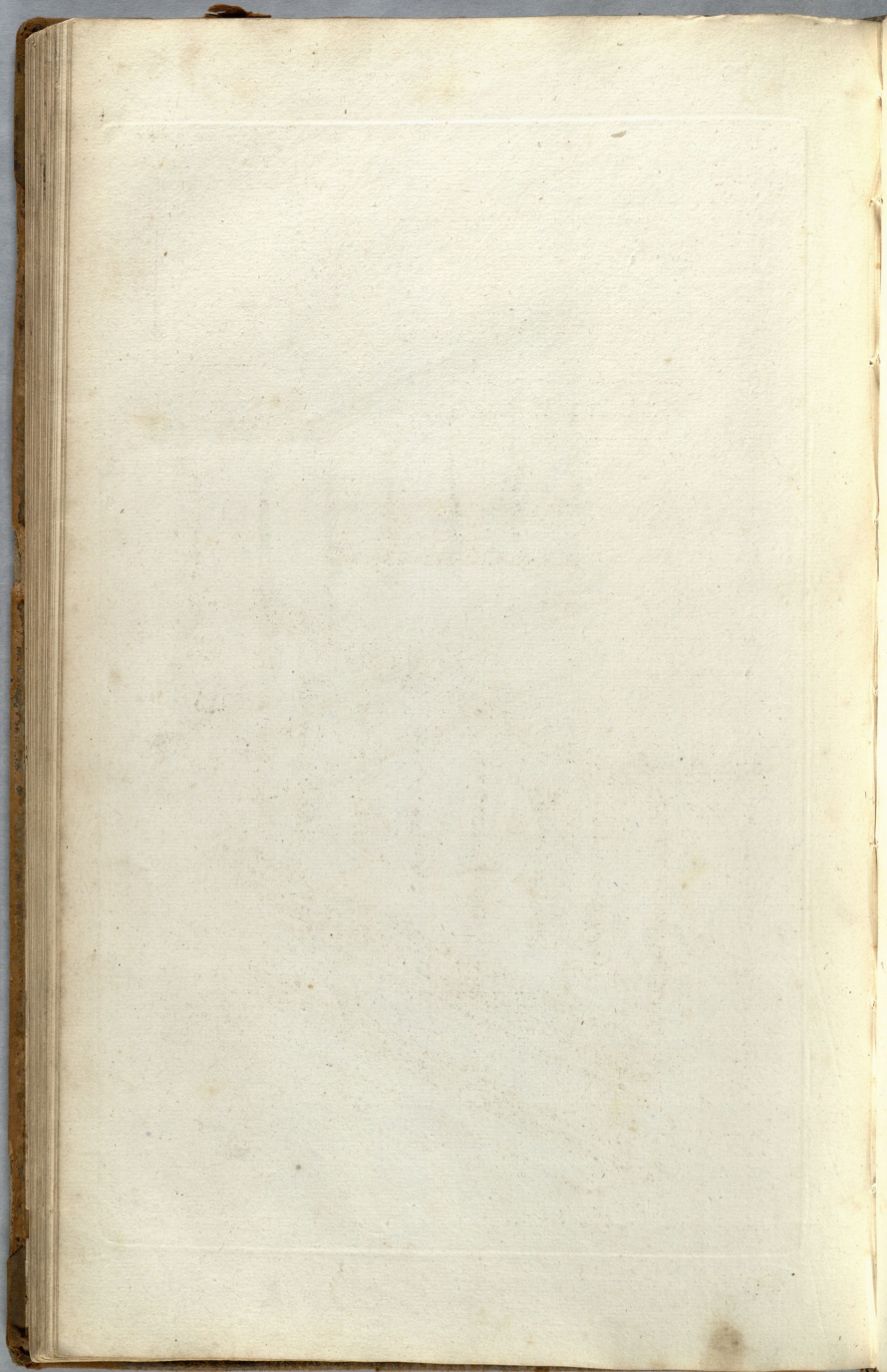


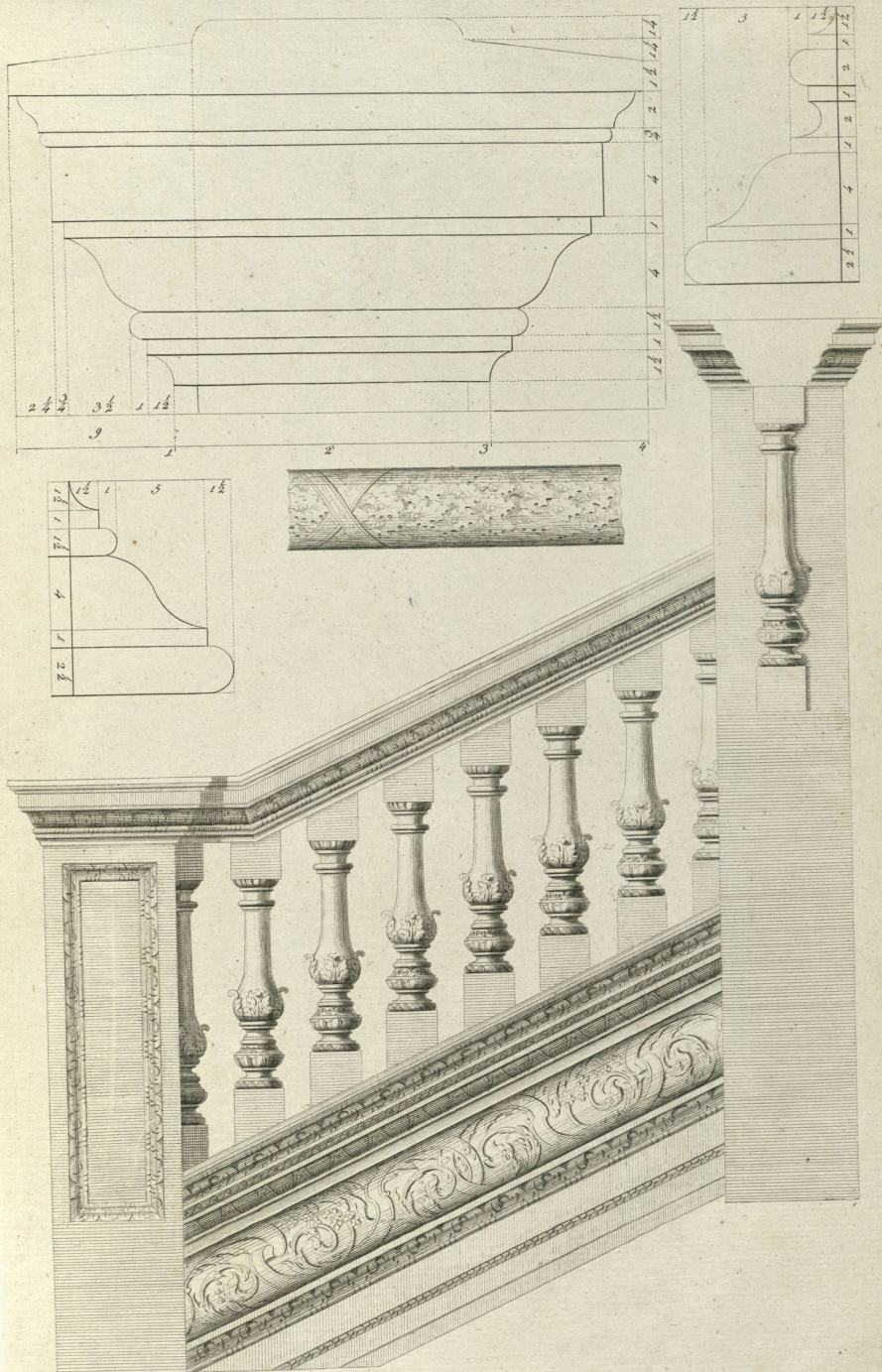




A. Swan, inv. et delin. Pub. according to the of Nathaniel.

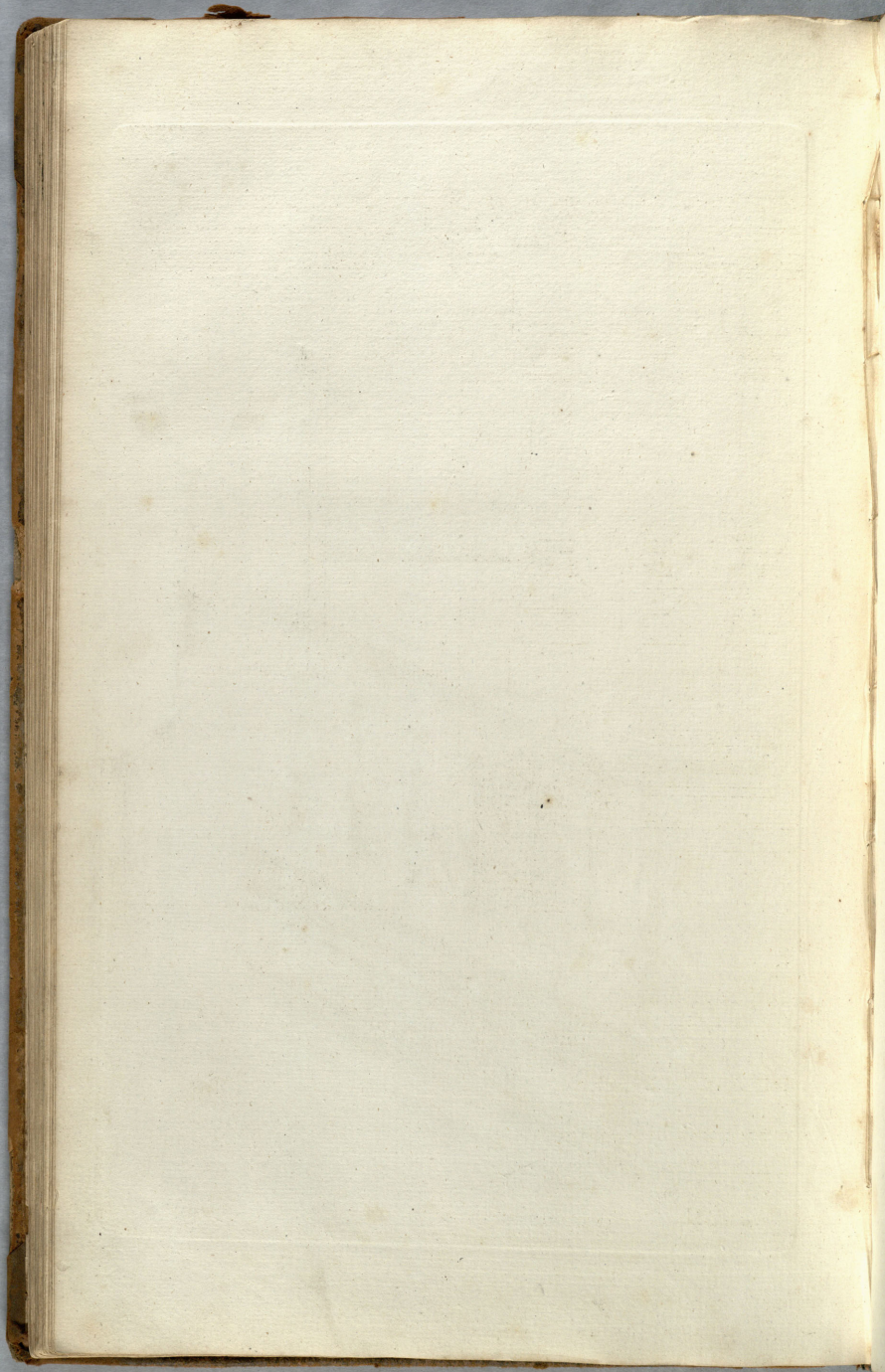
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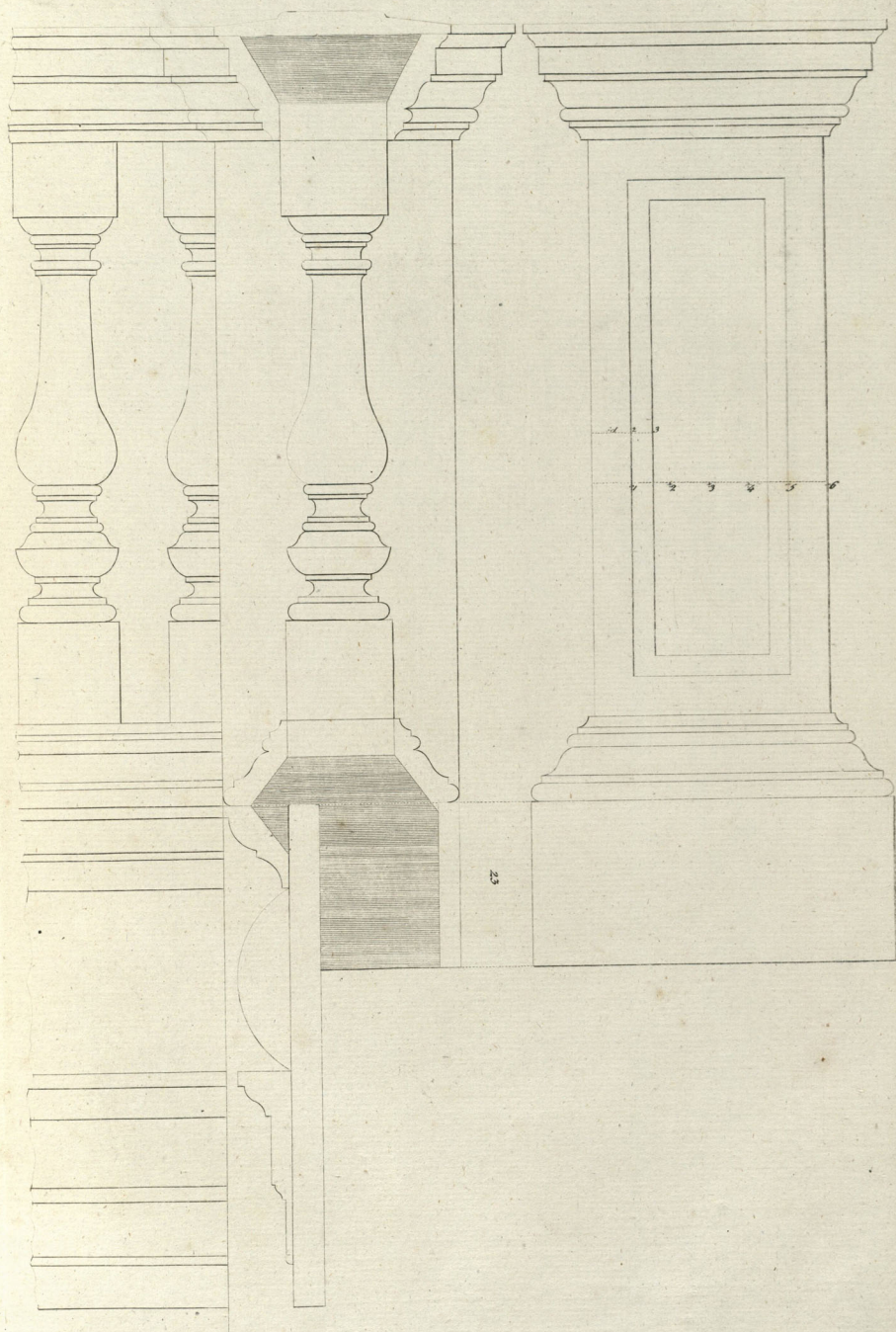


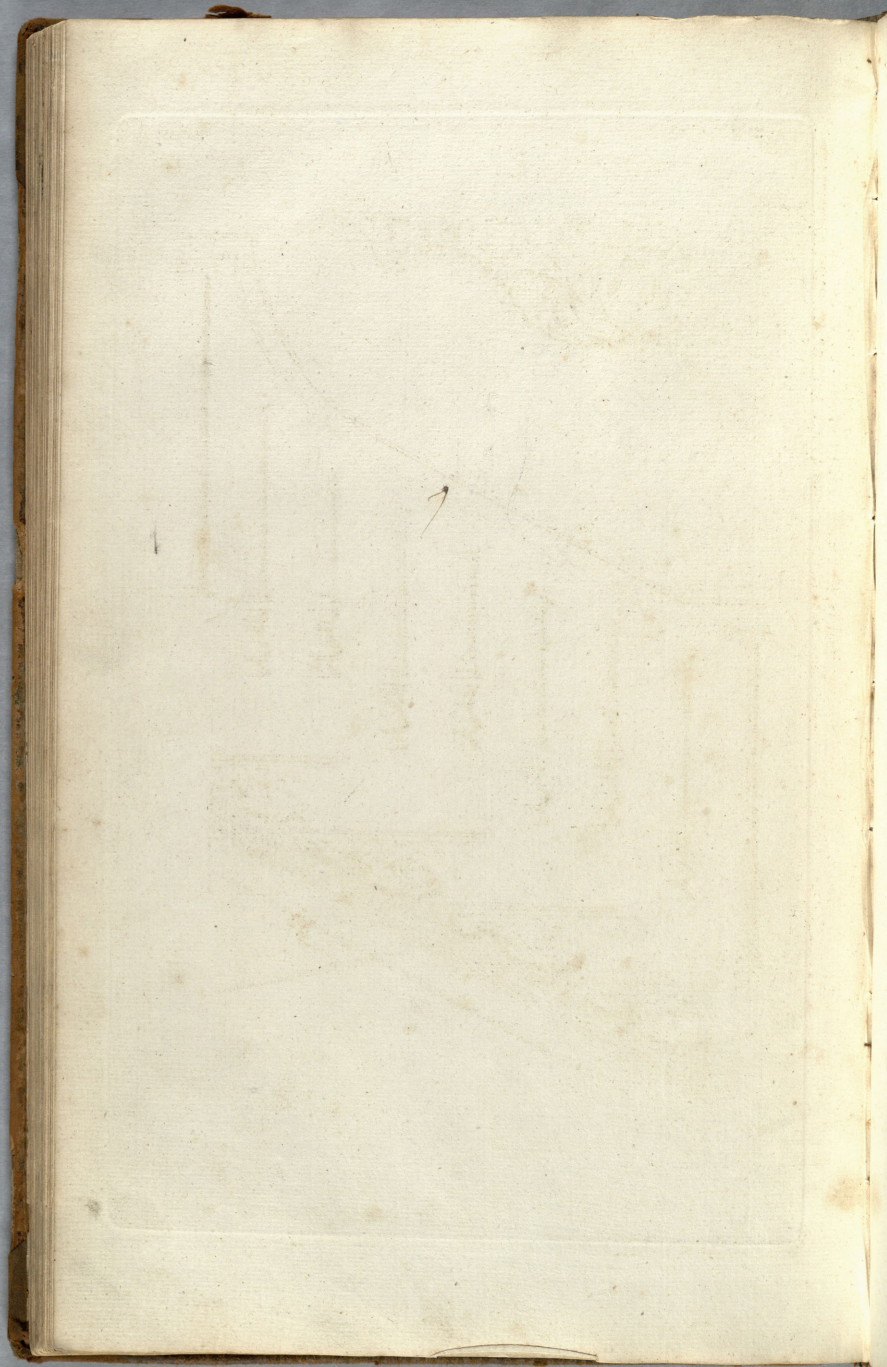


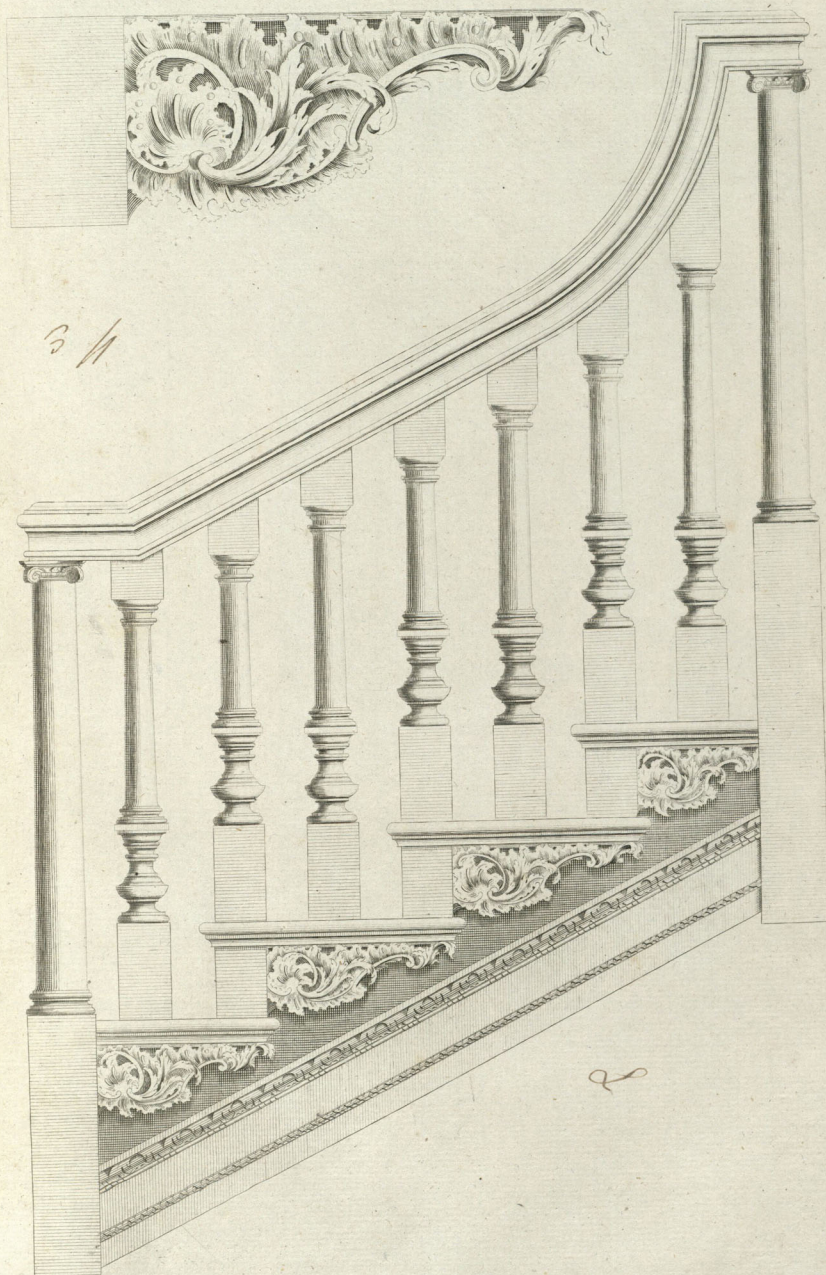
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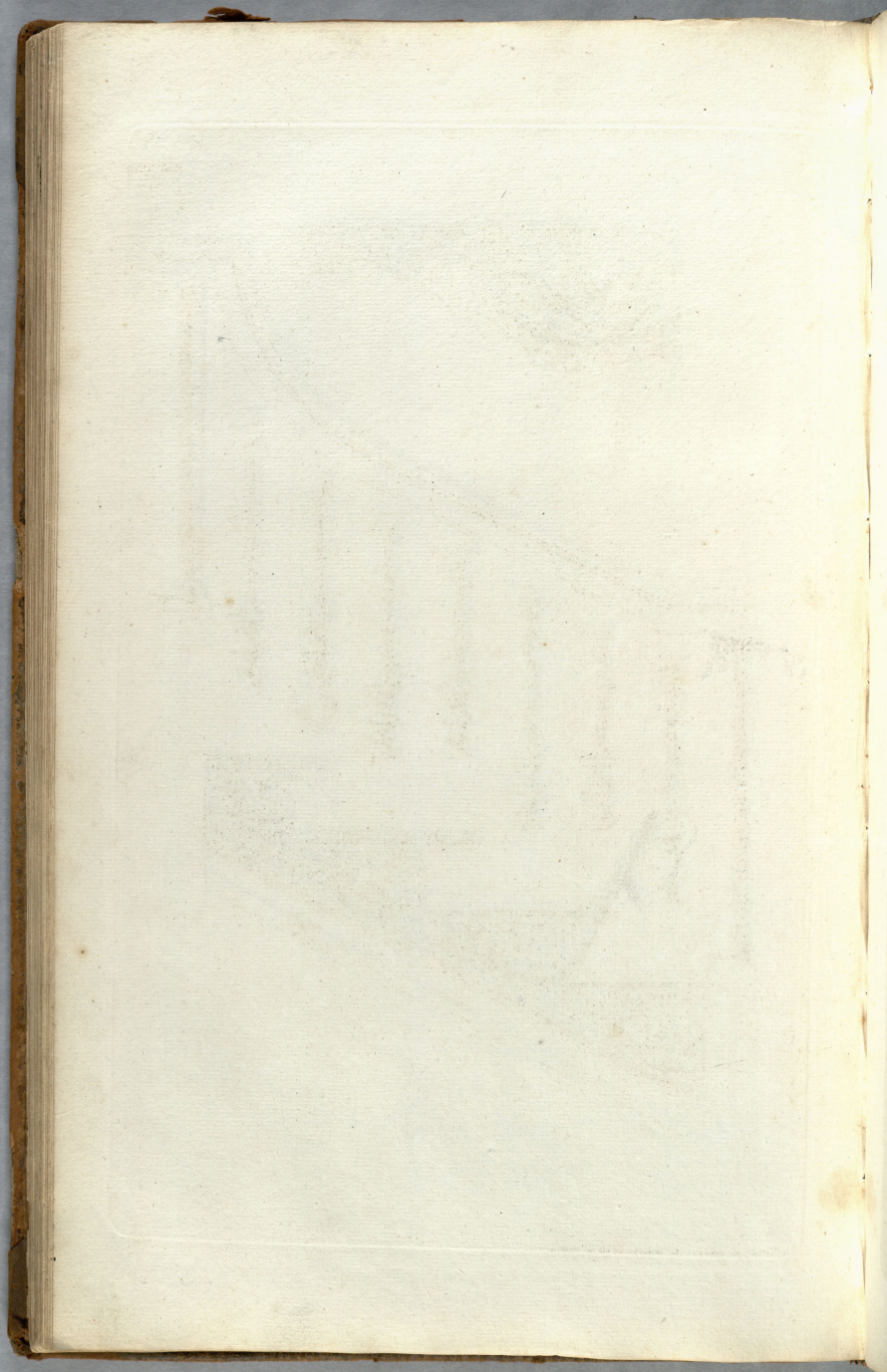
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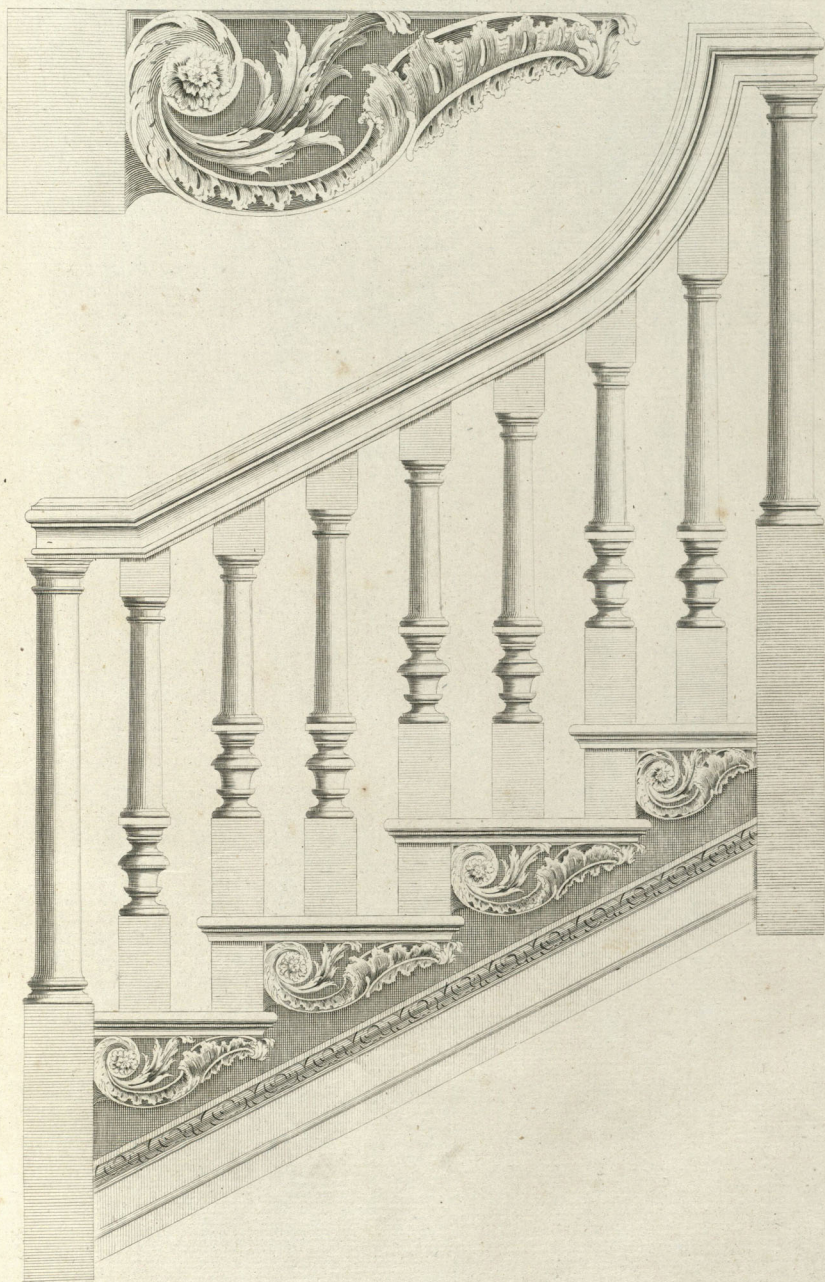


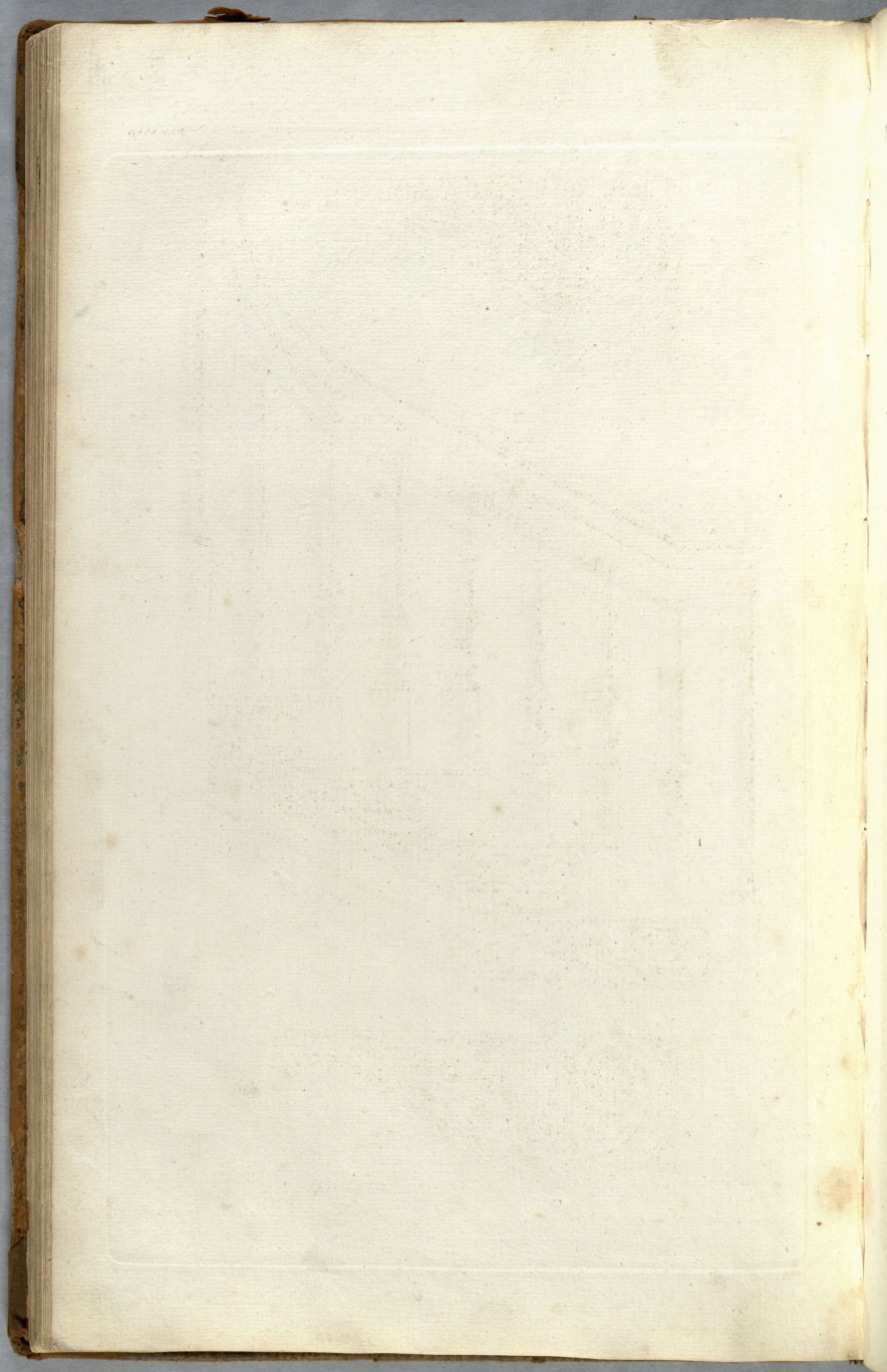


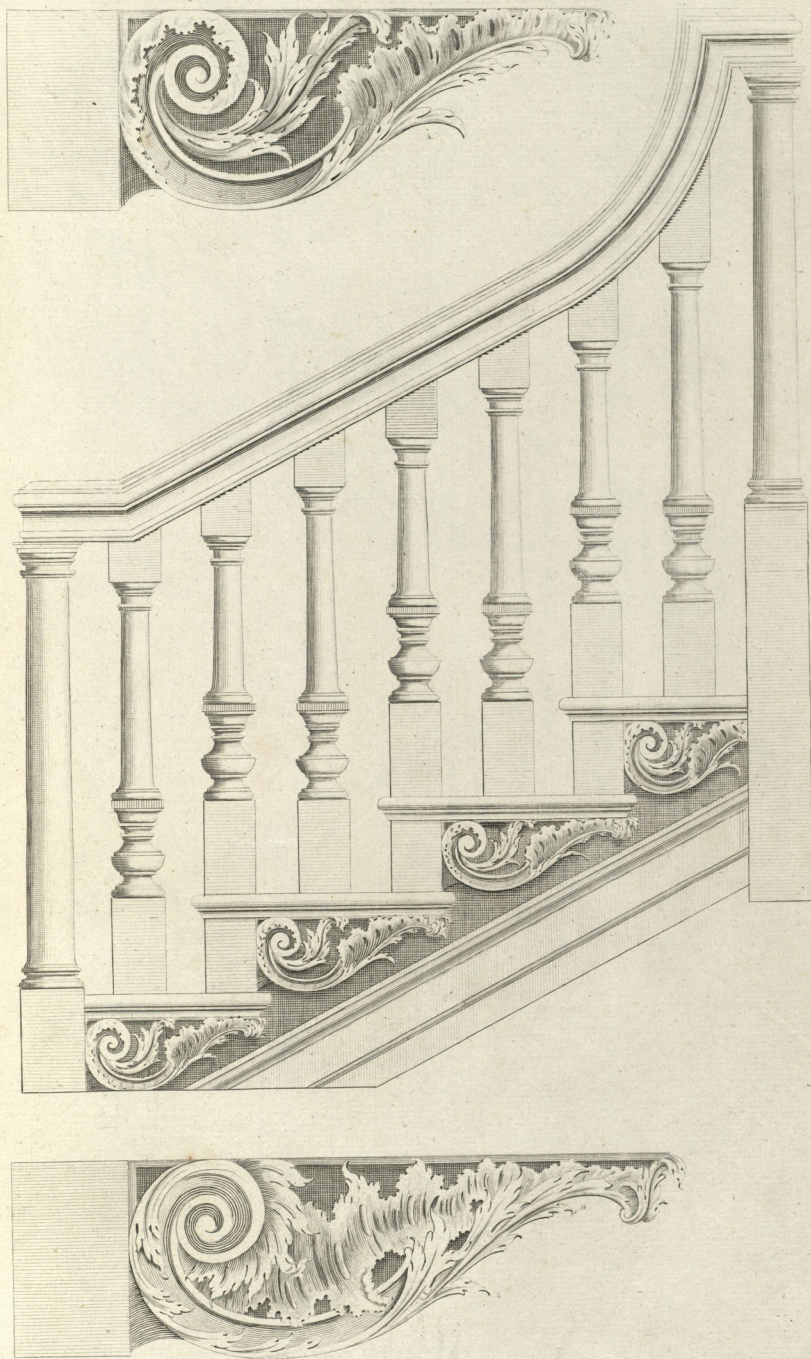






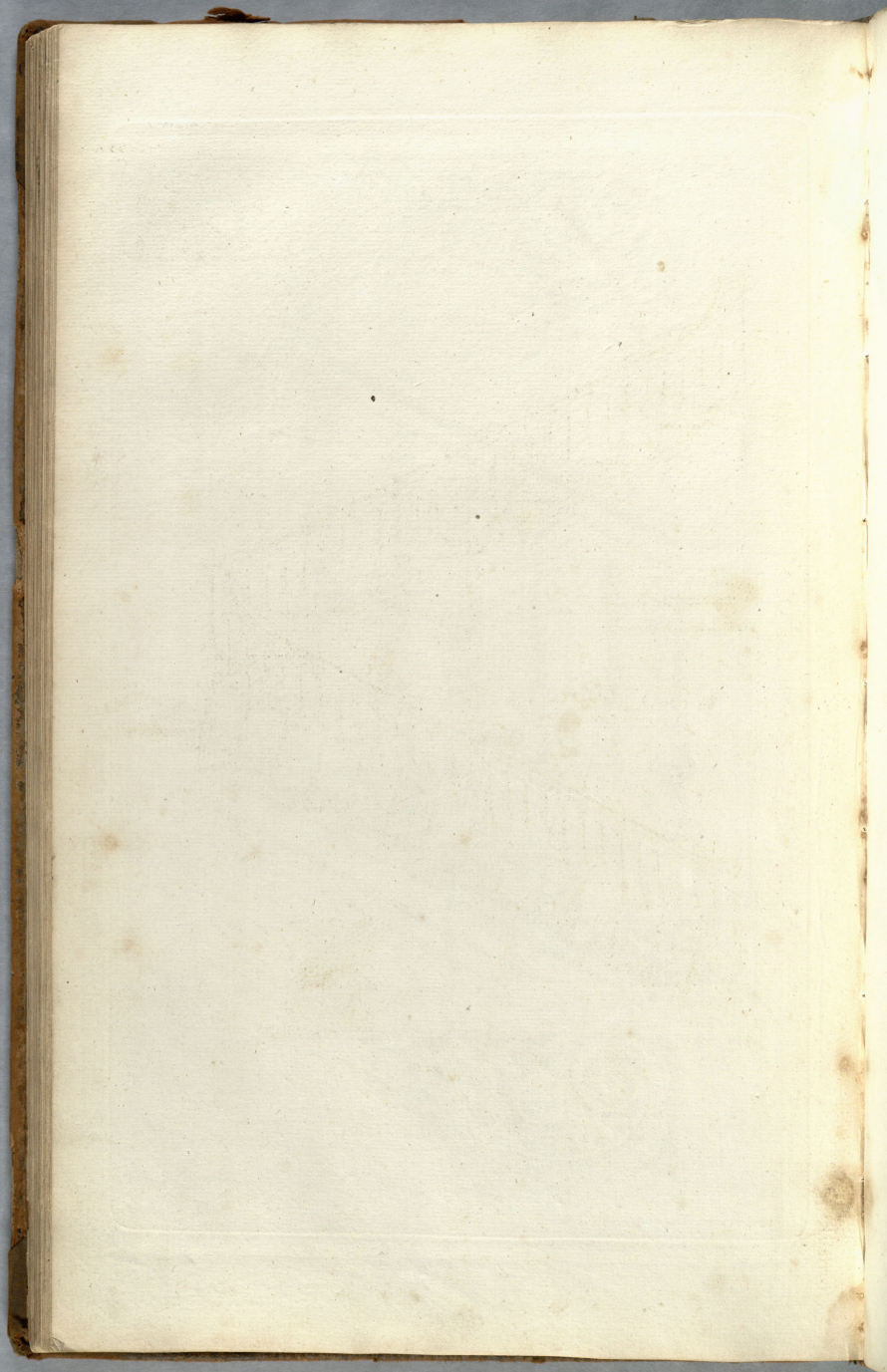


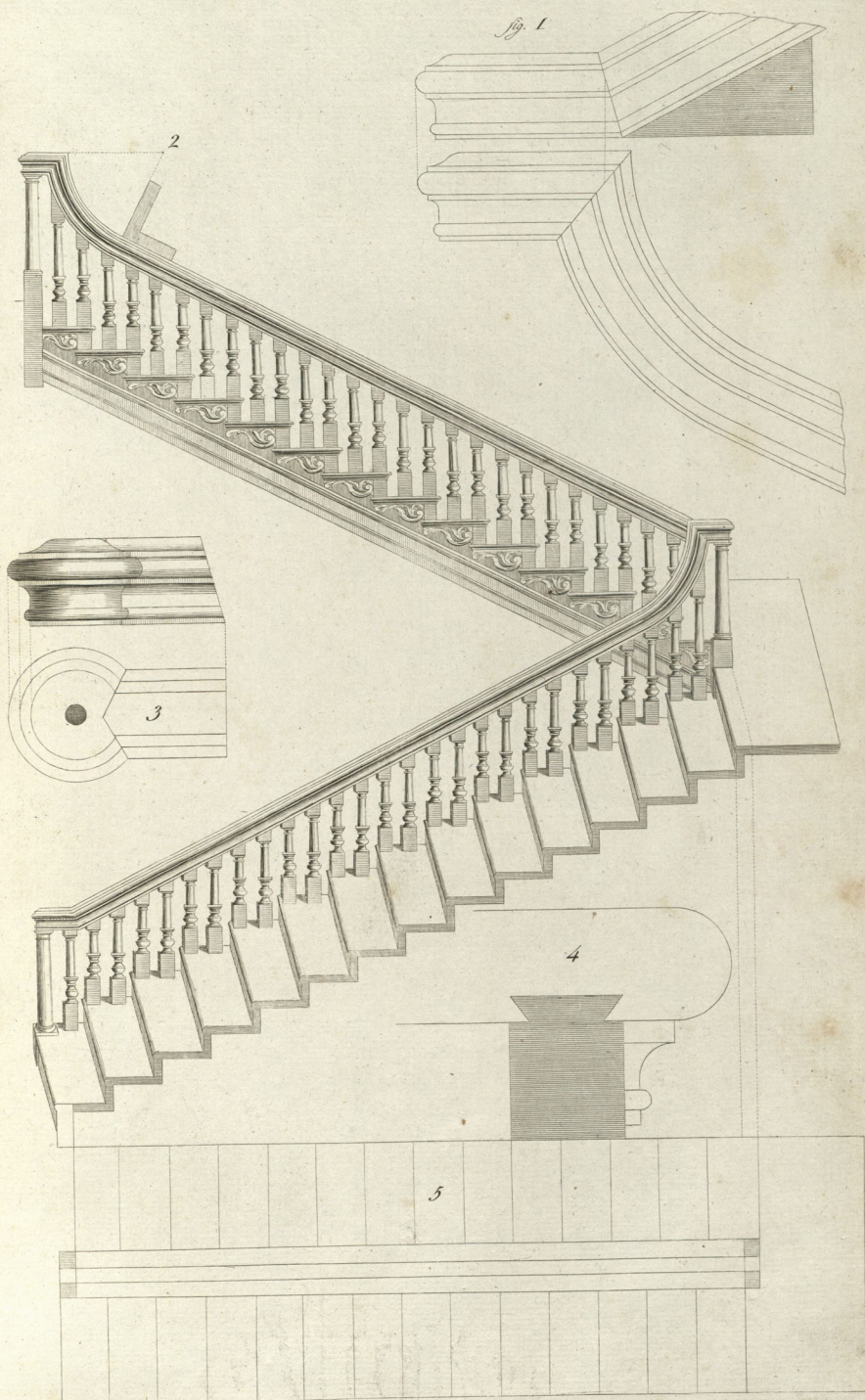


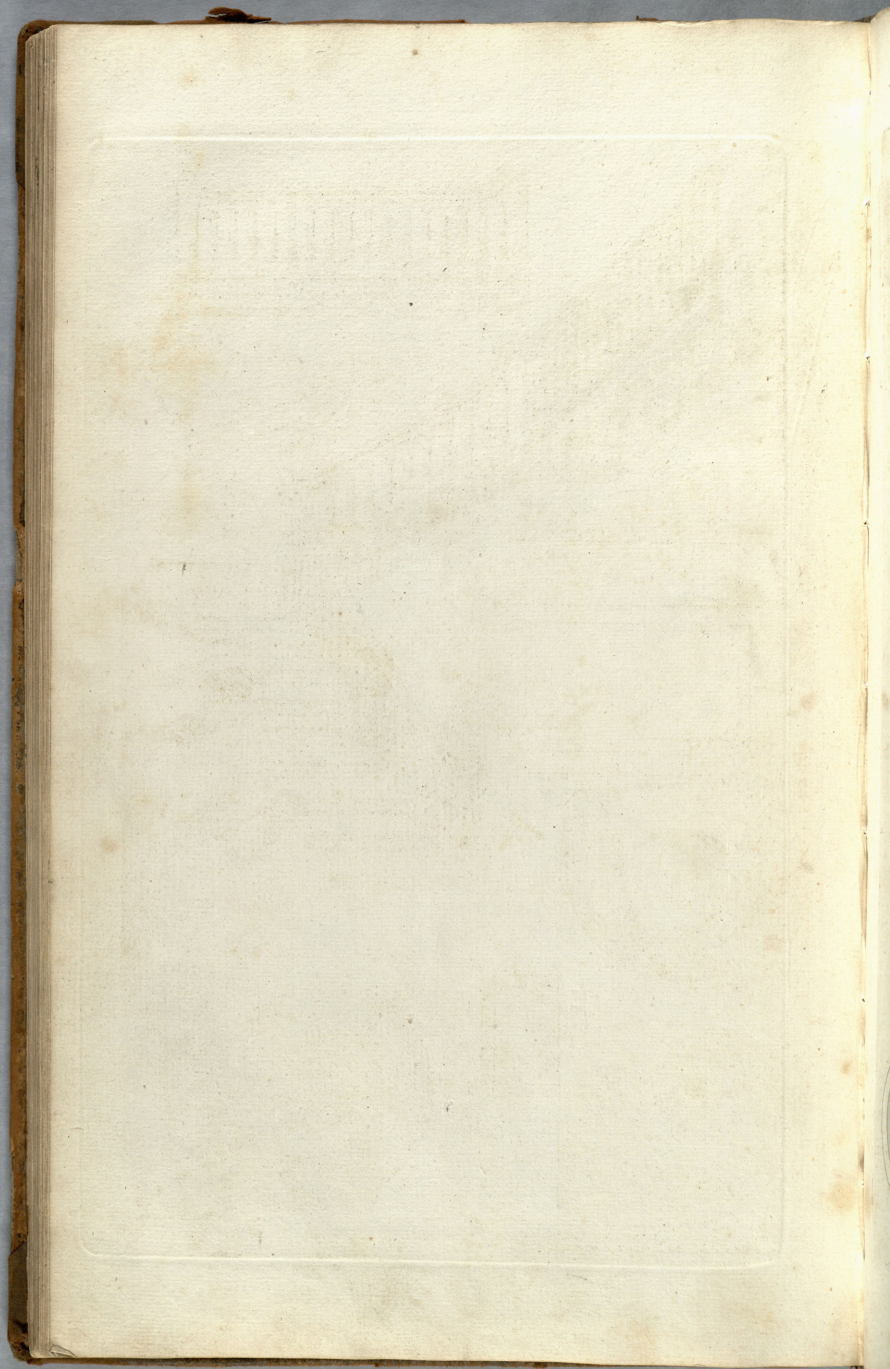


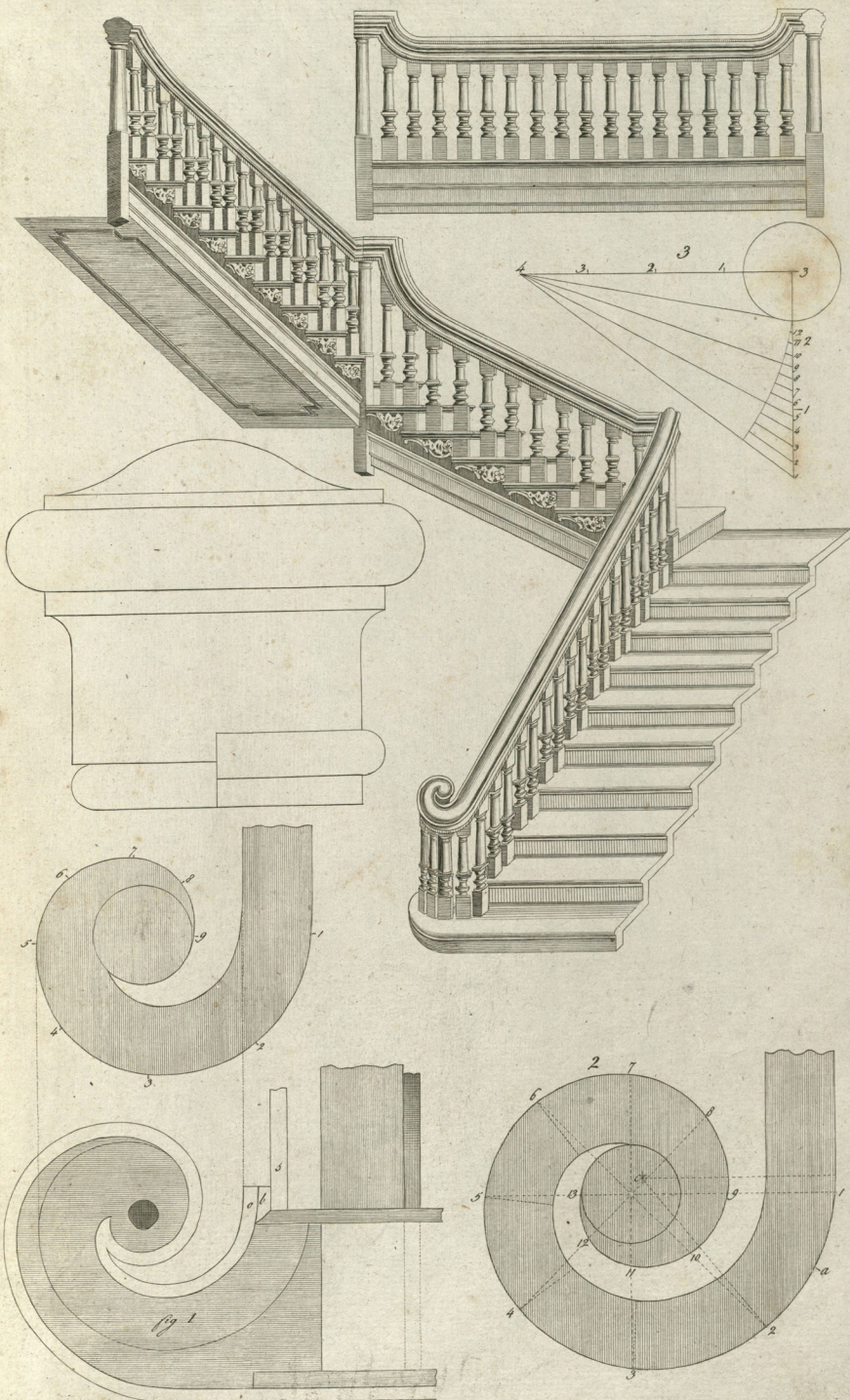
A Swan, ins d dda. Pub. according to Act of Parliament

Chubb's sculp.









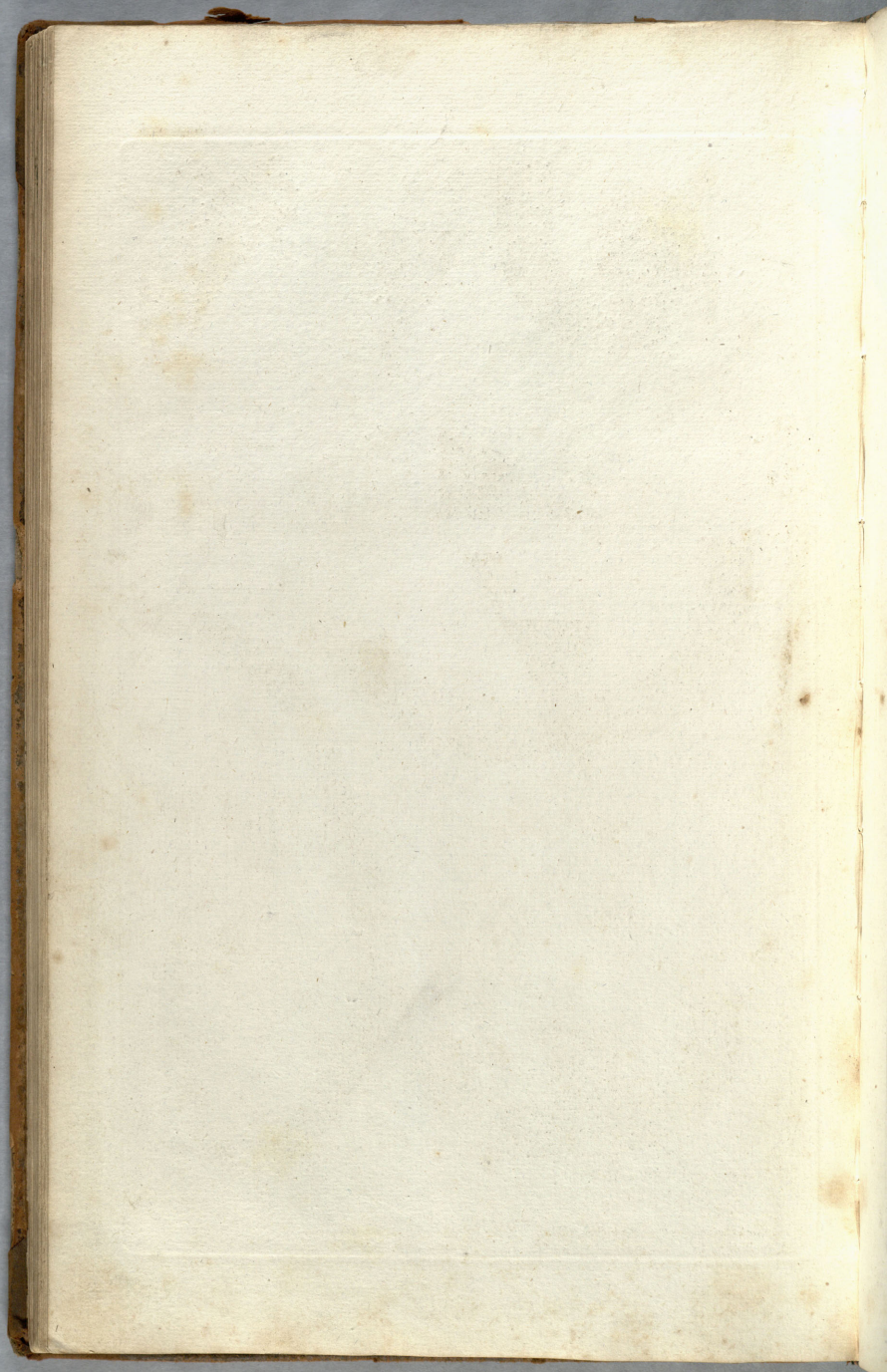
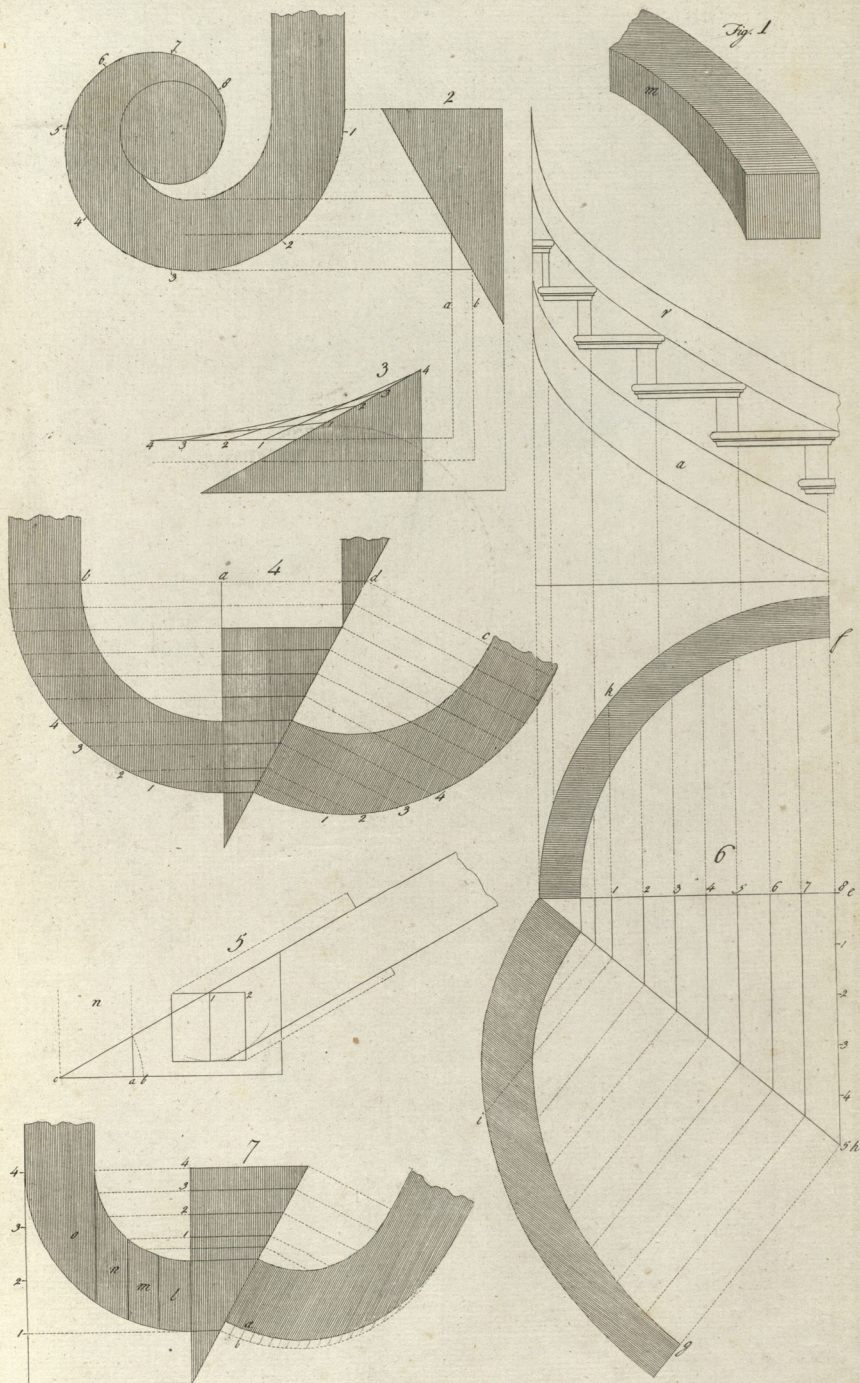
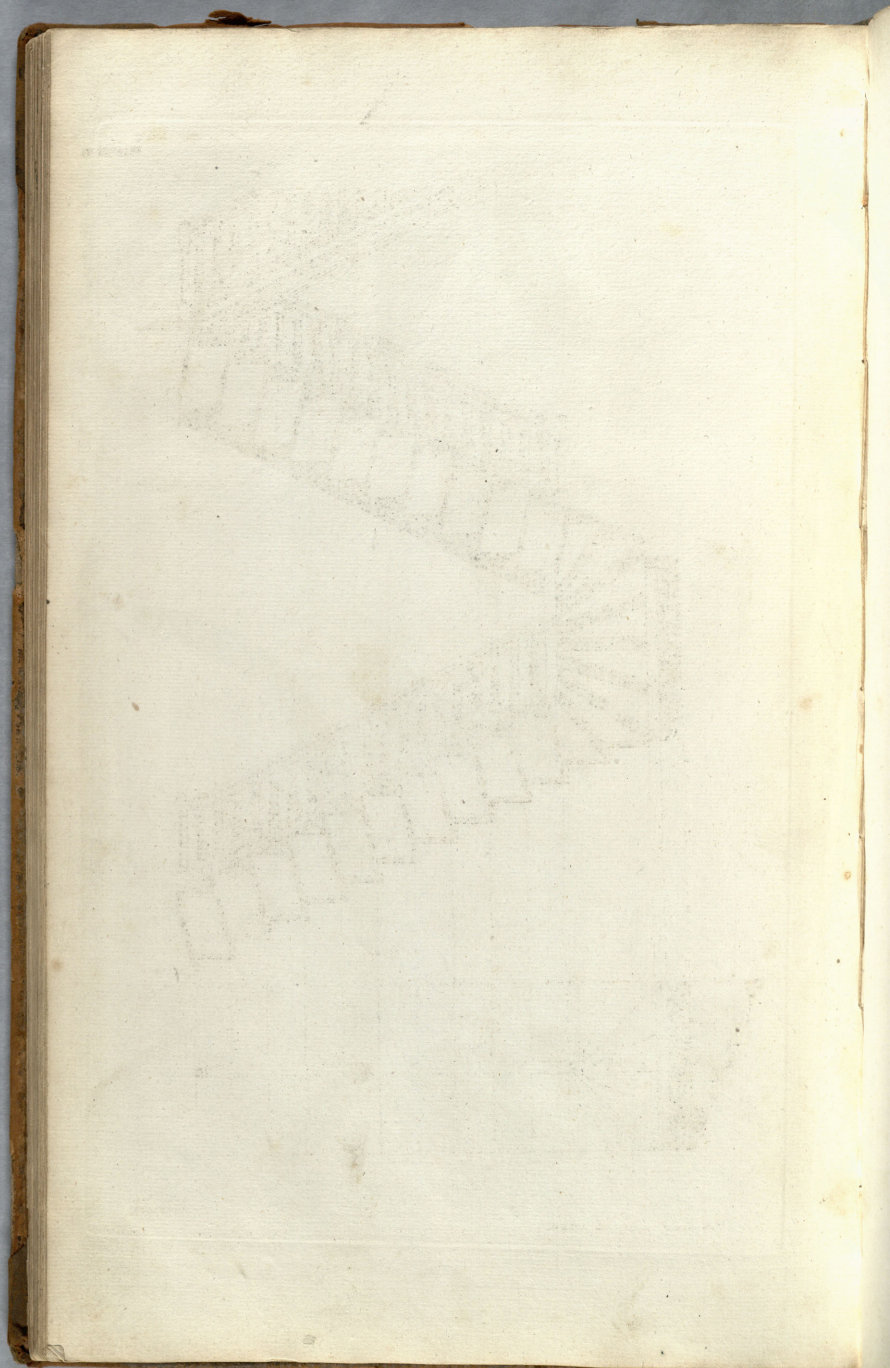


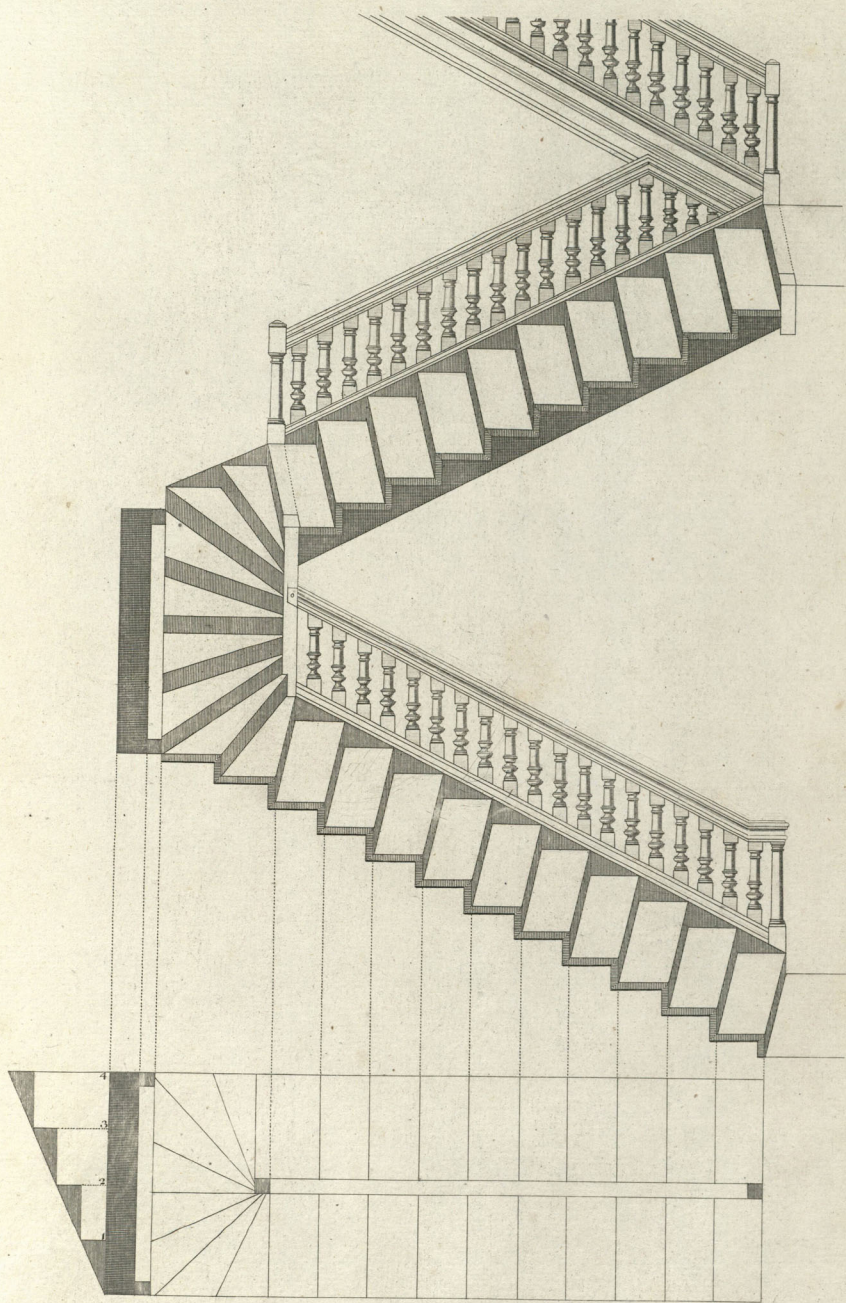
Fig. 1

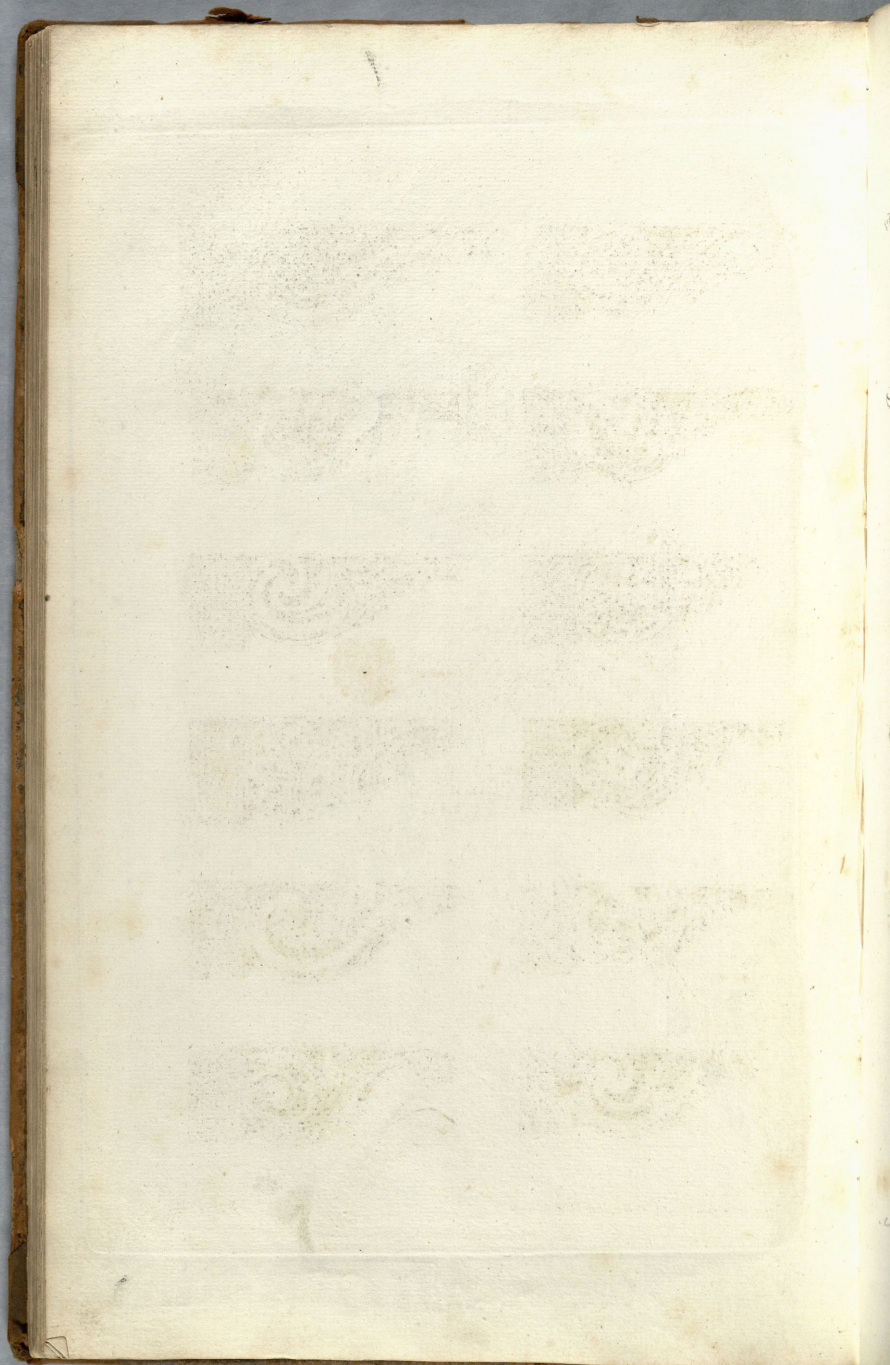


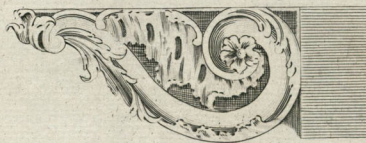
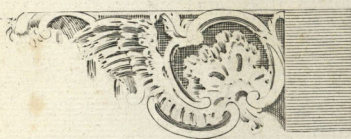
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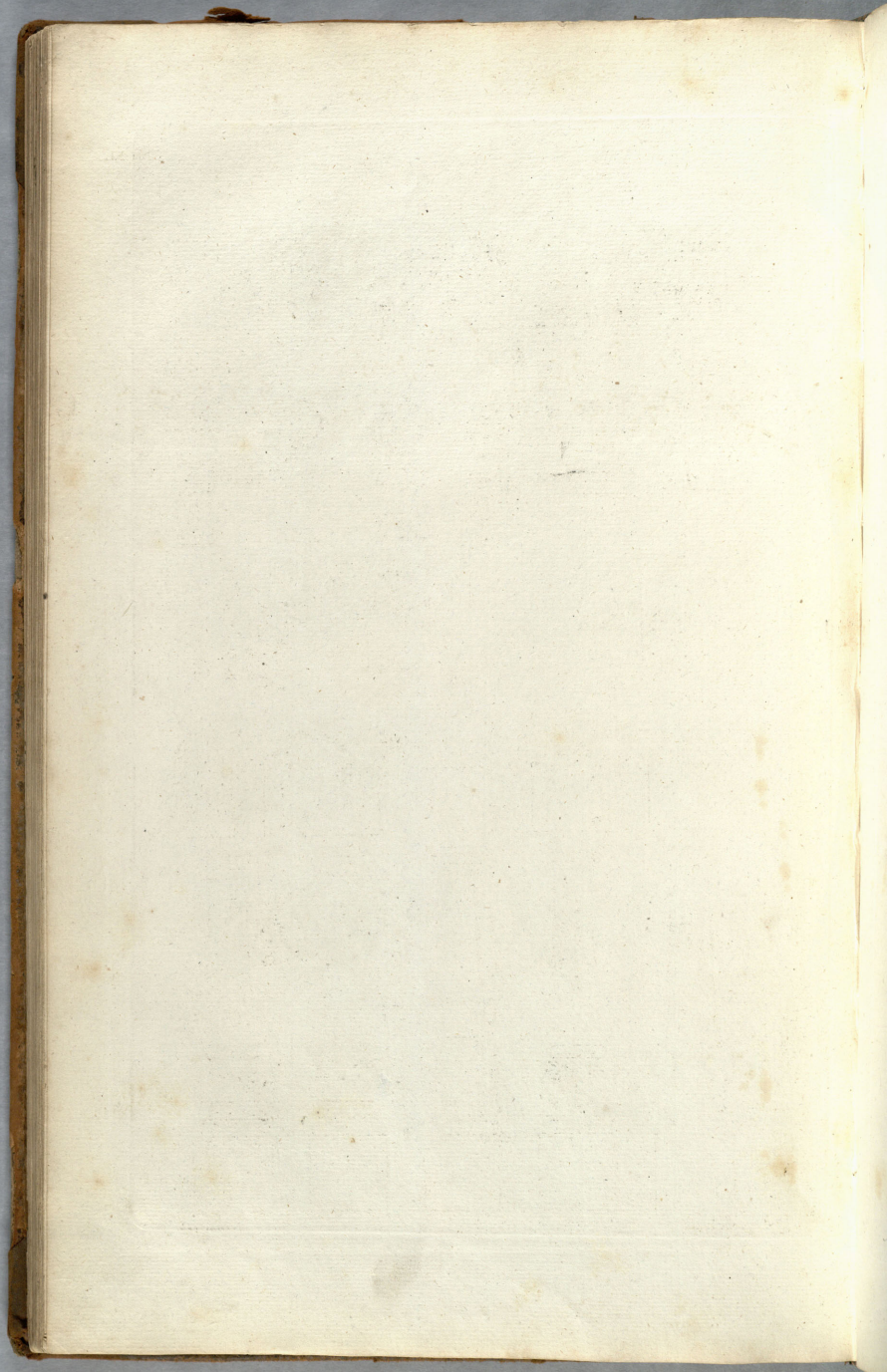
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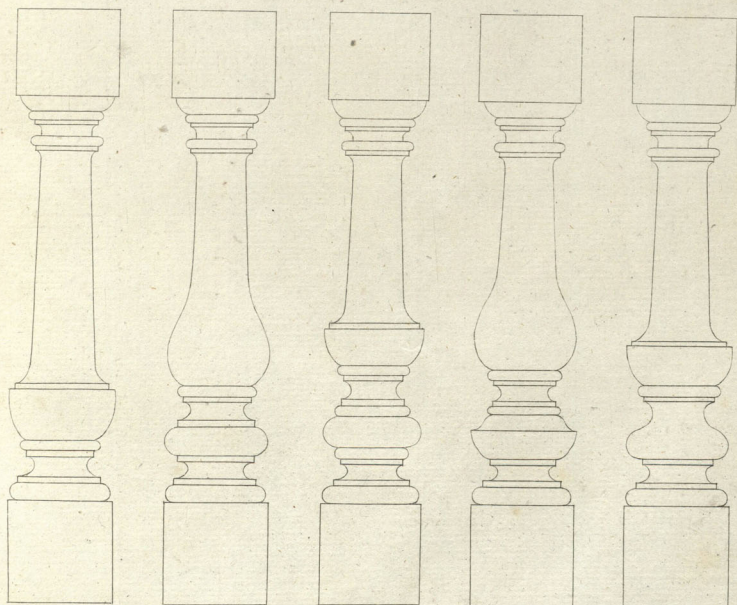
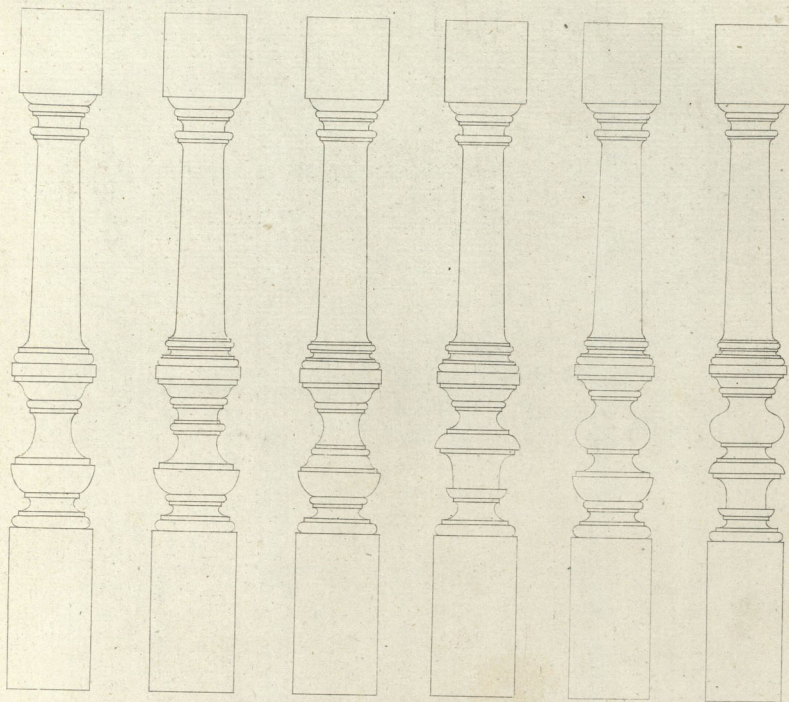






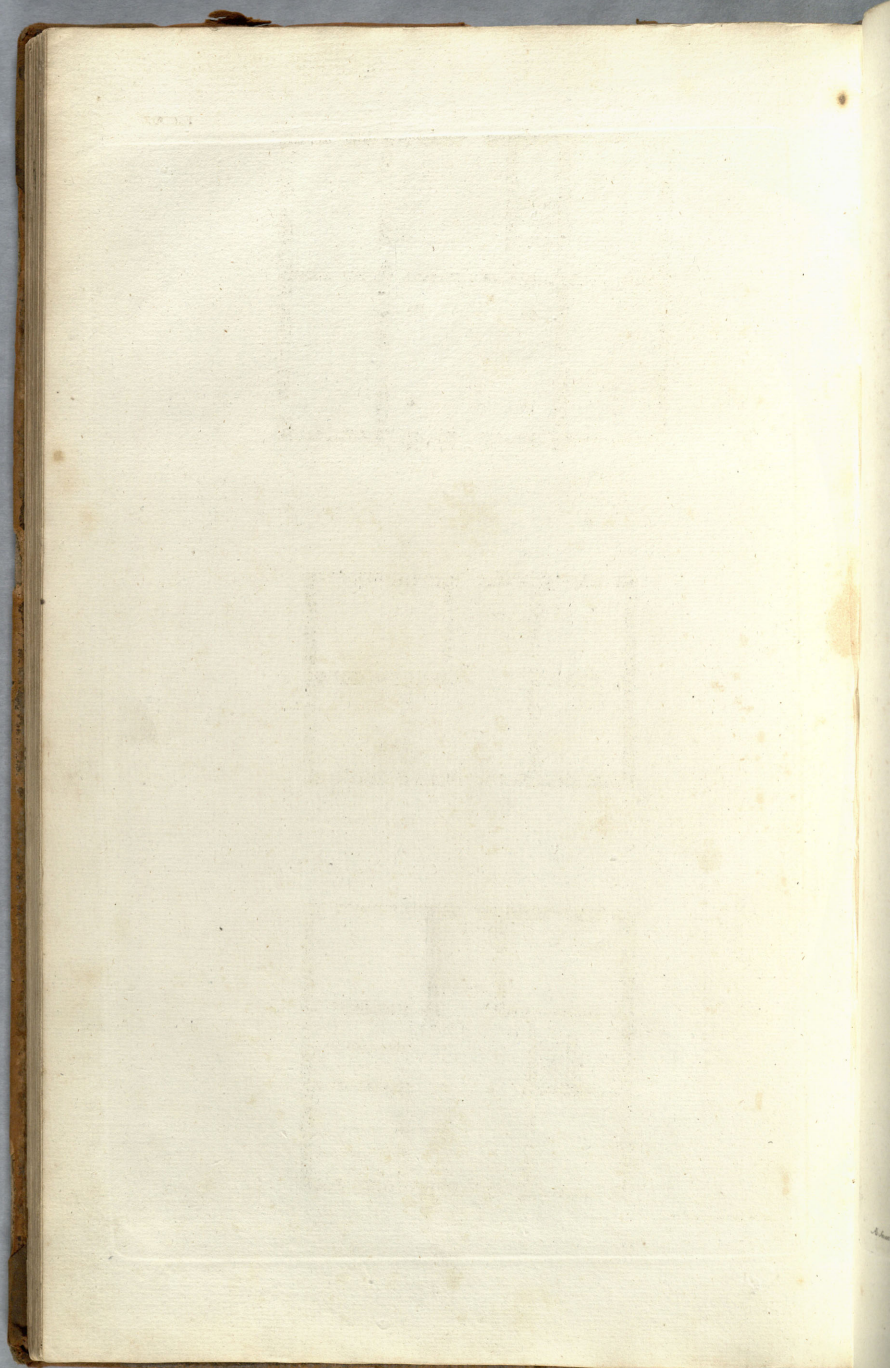


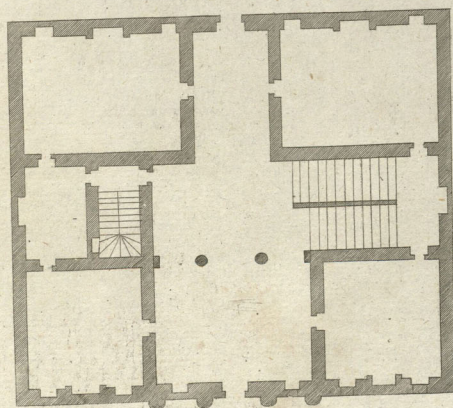
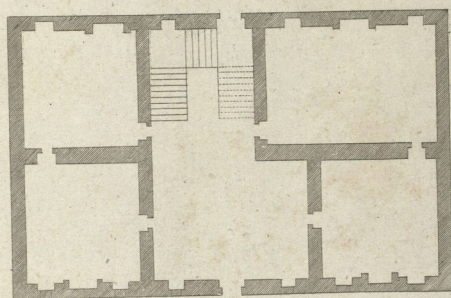
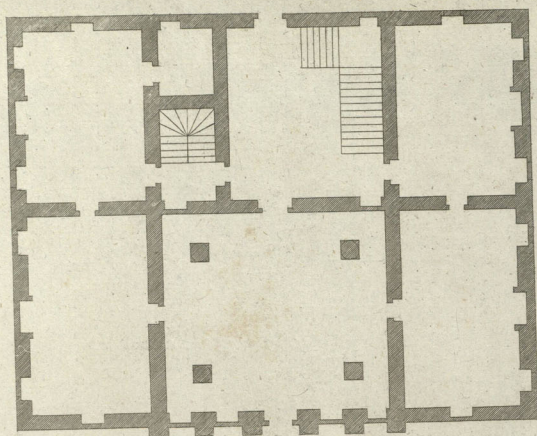


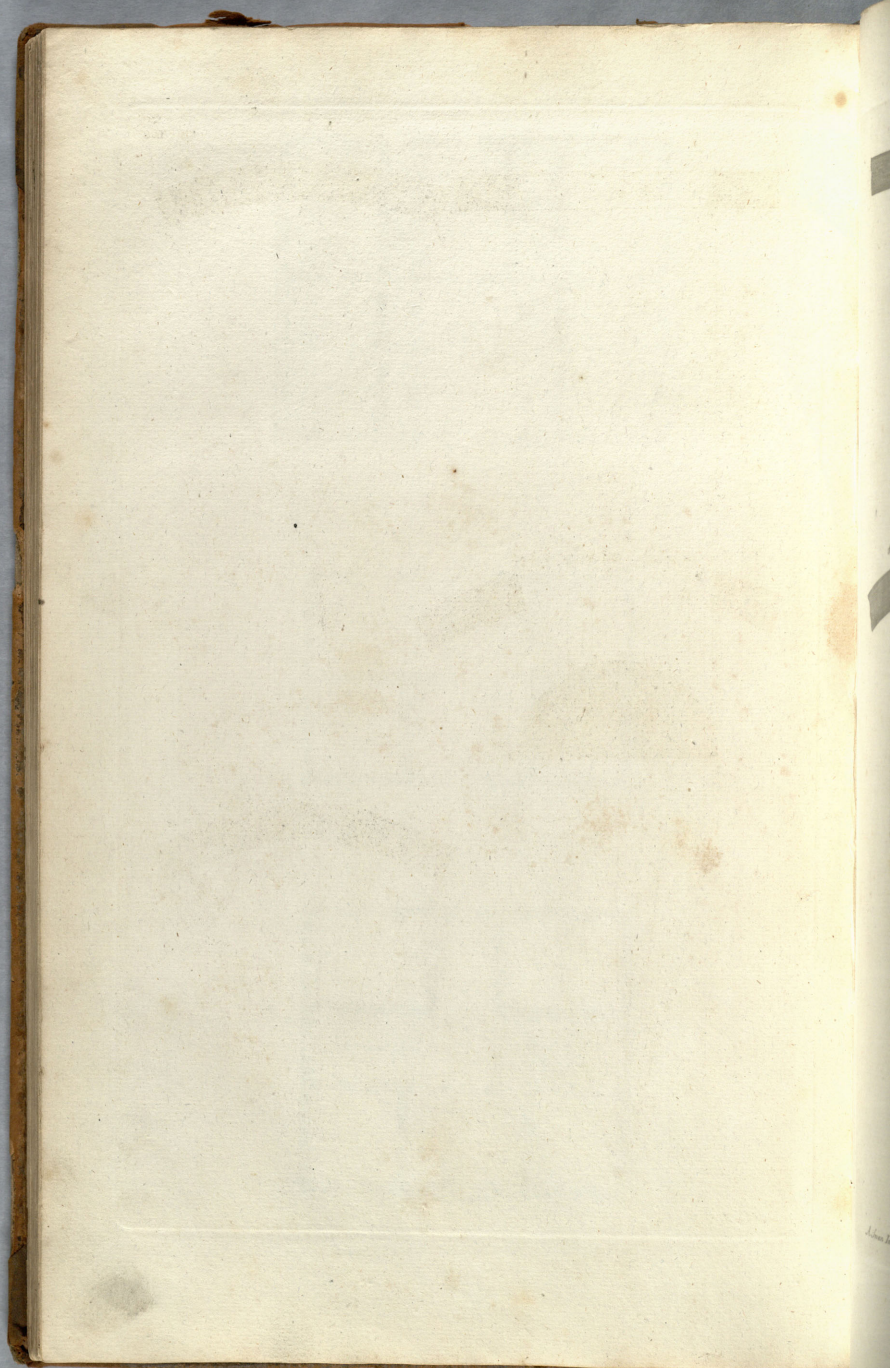


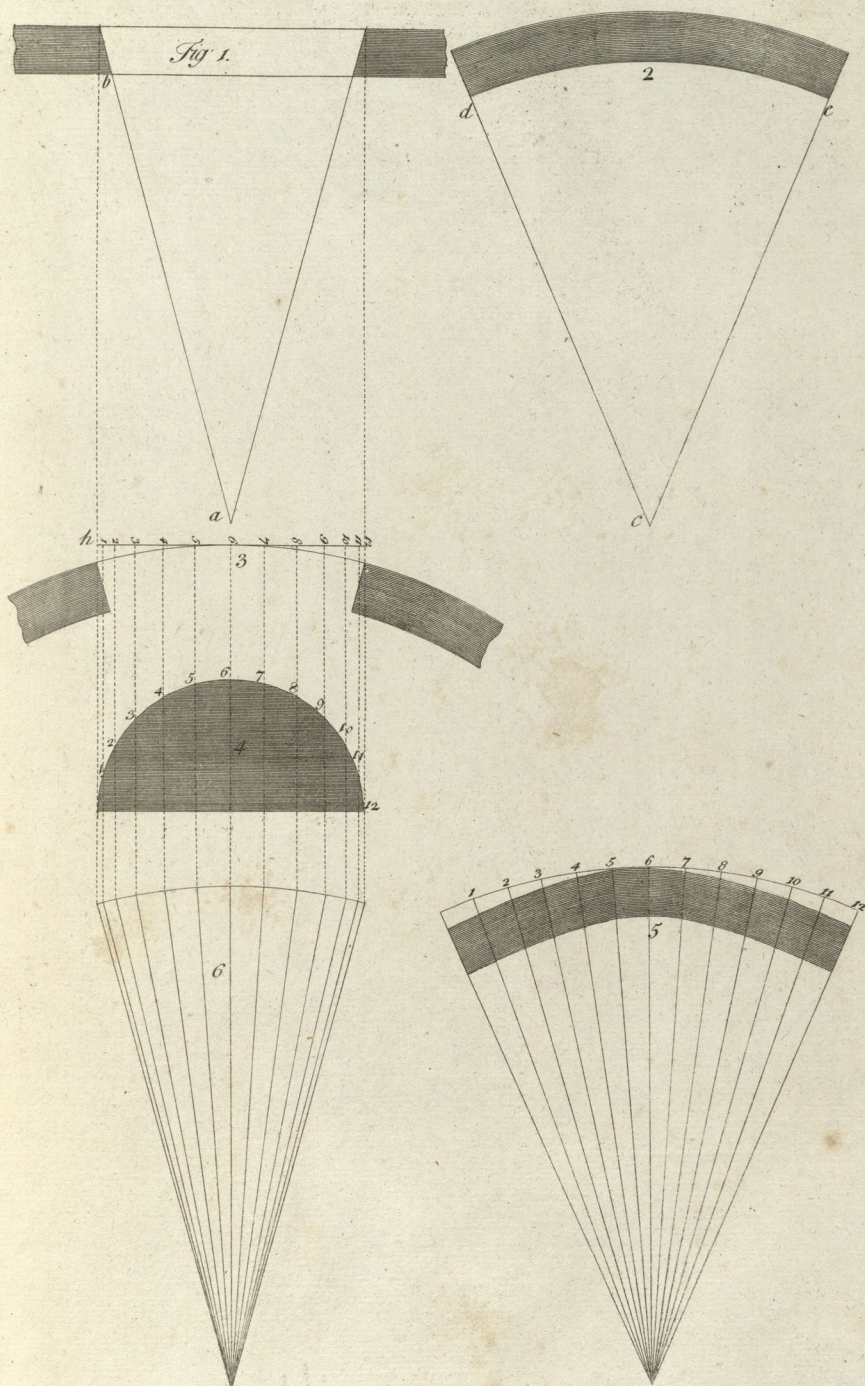
Al. Swan. in et dala.

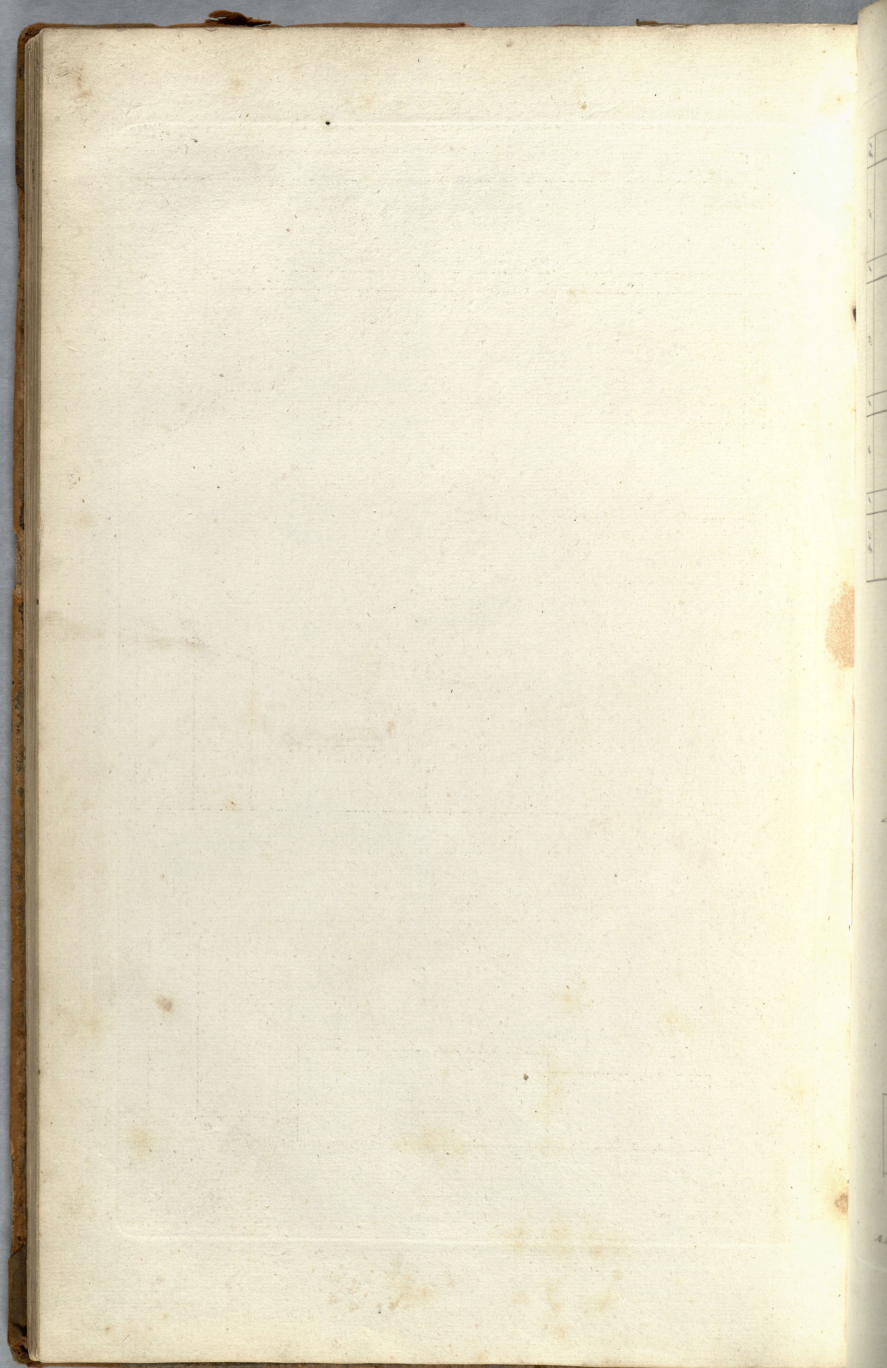
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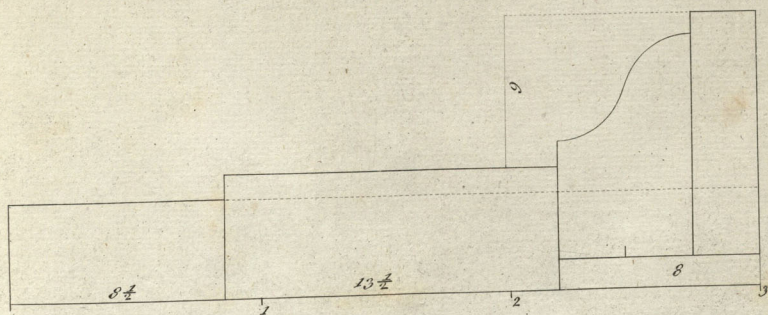
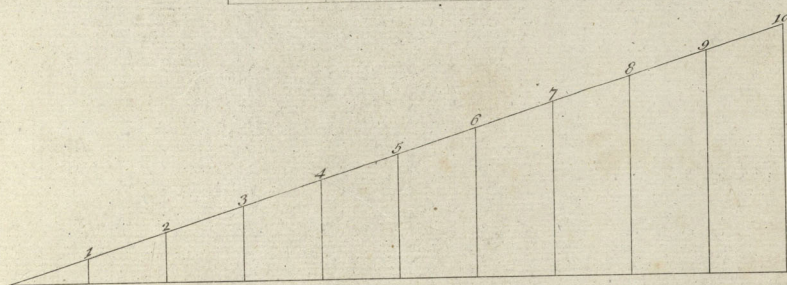
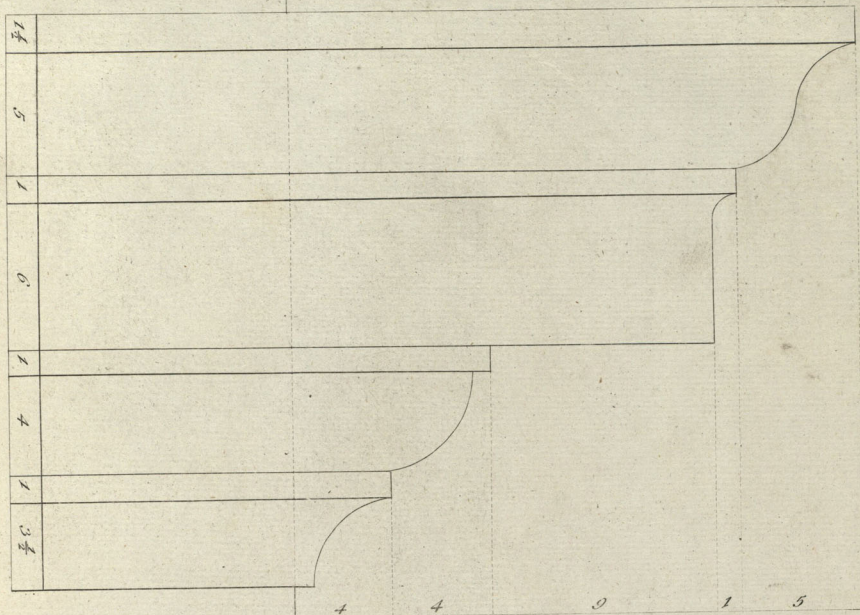




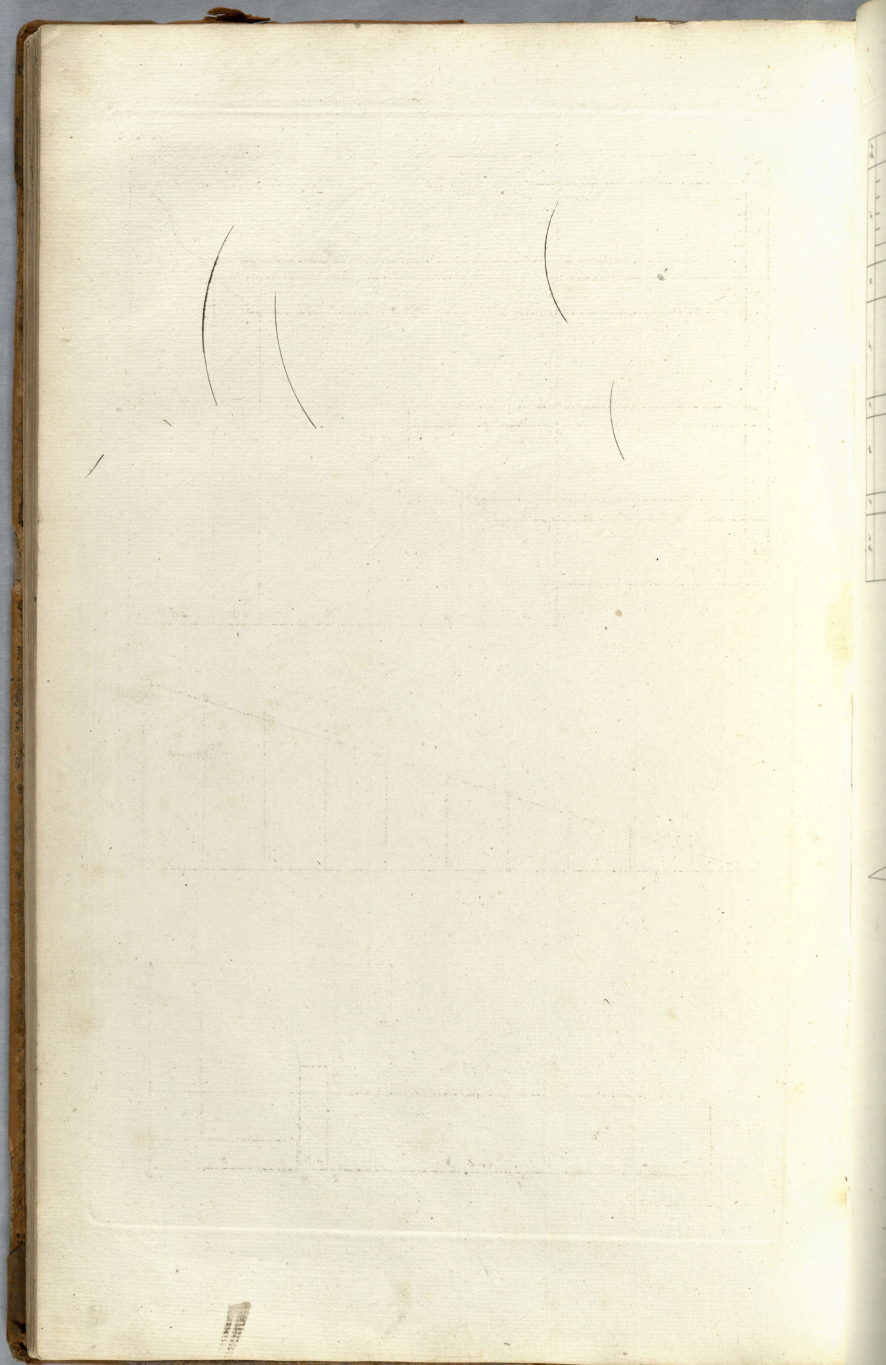


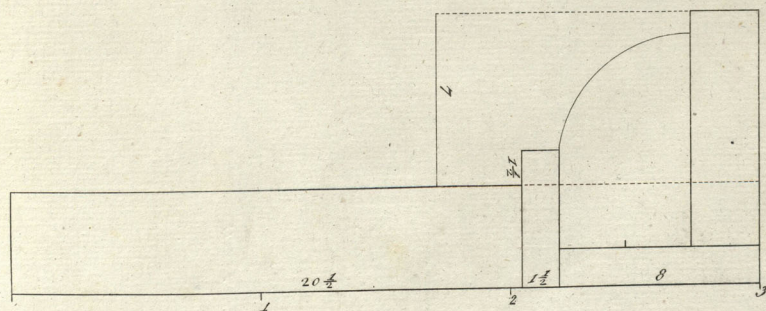
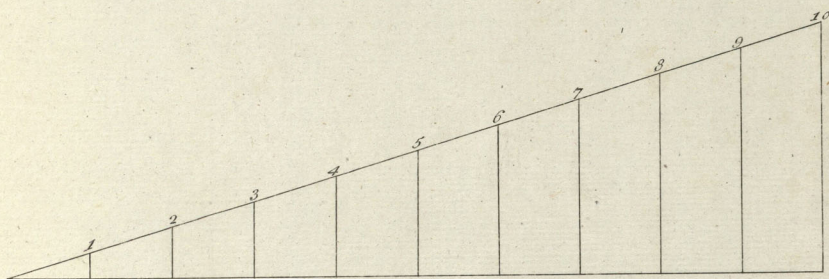
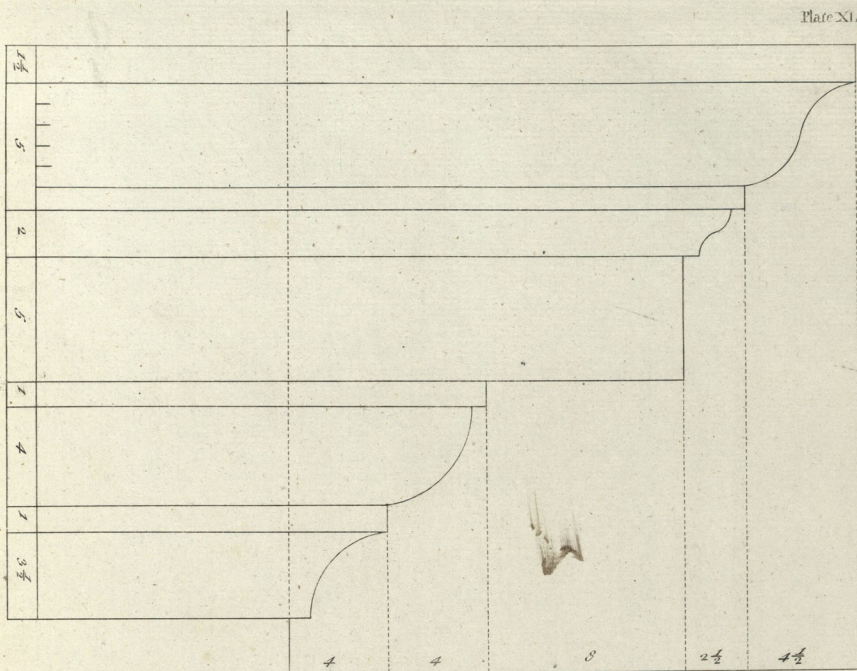






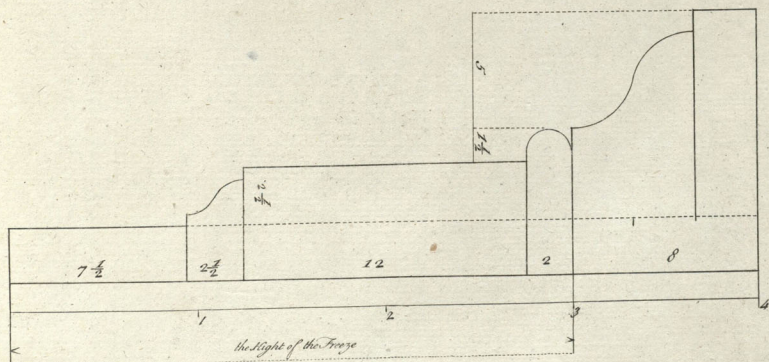
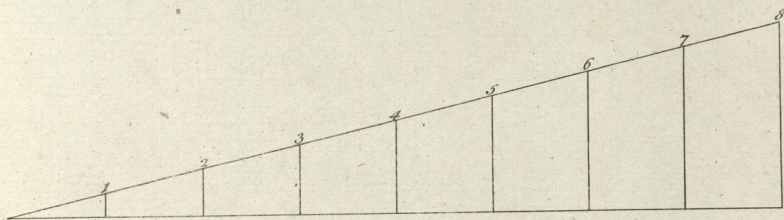
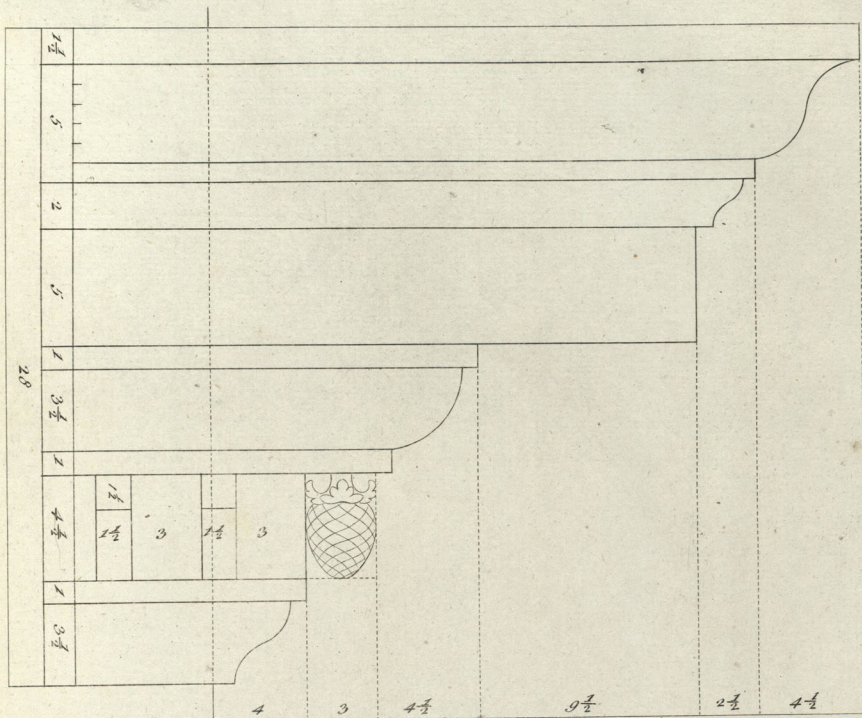
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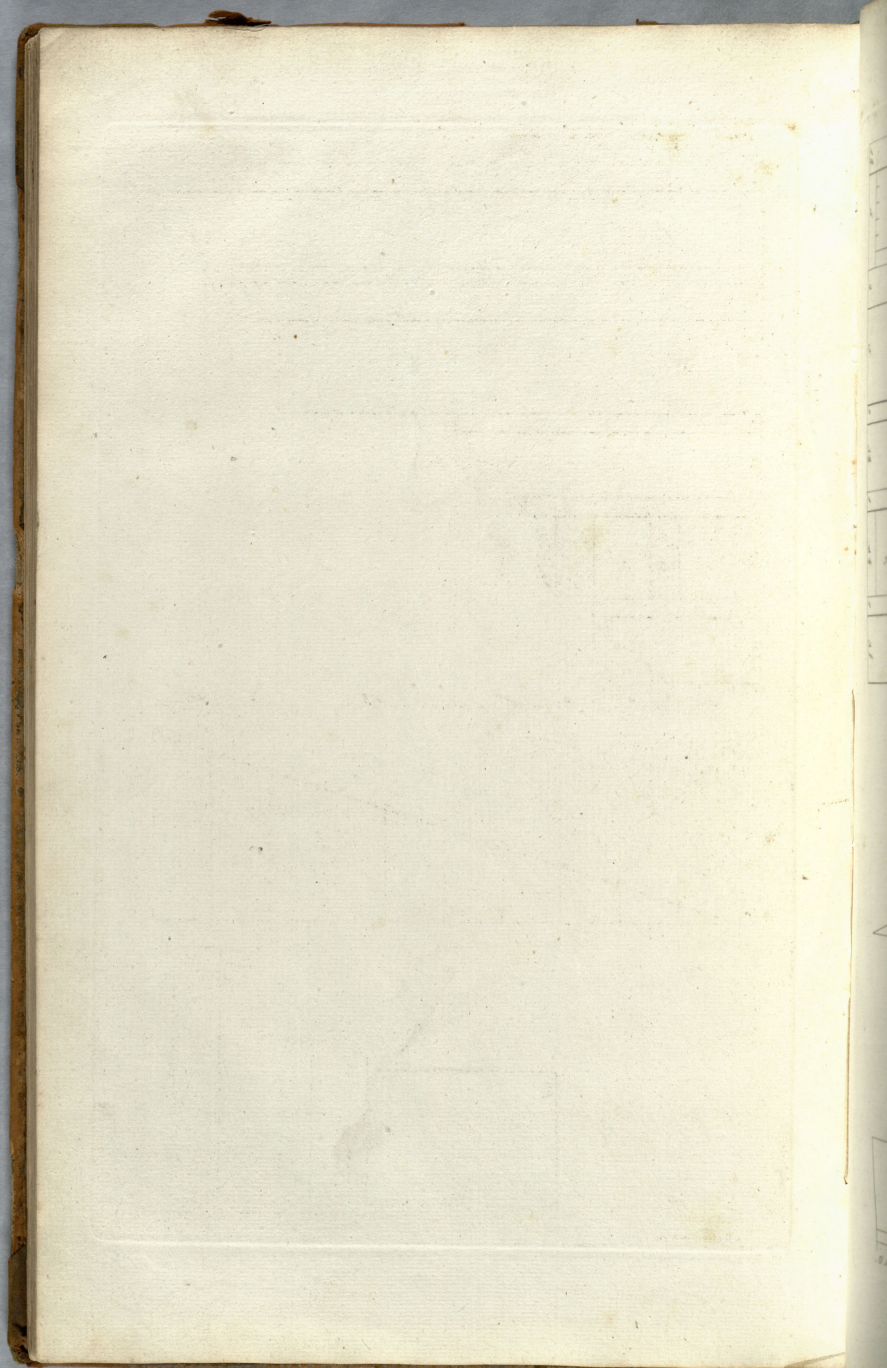


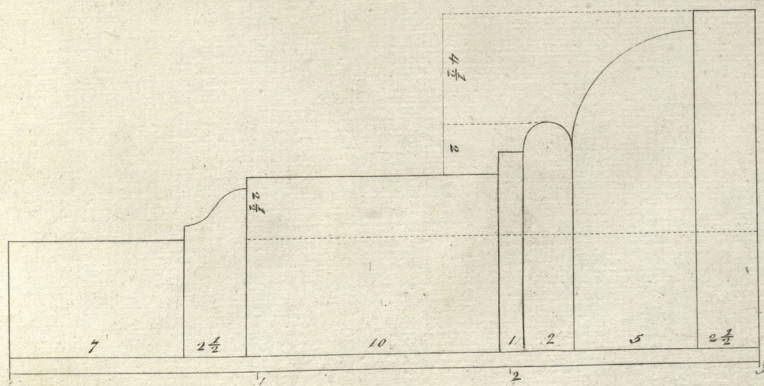
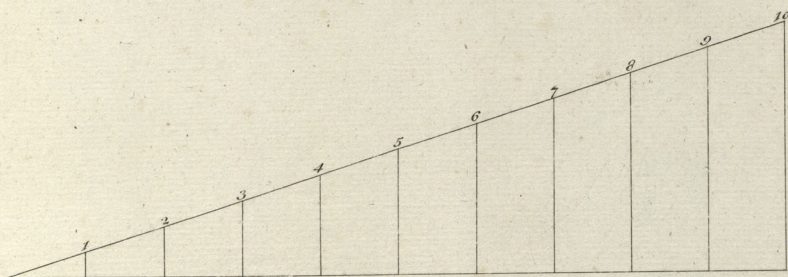
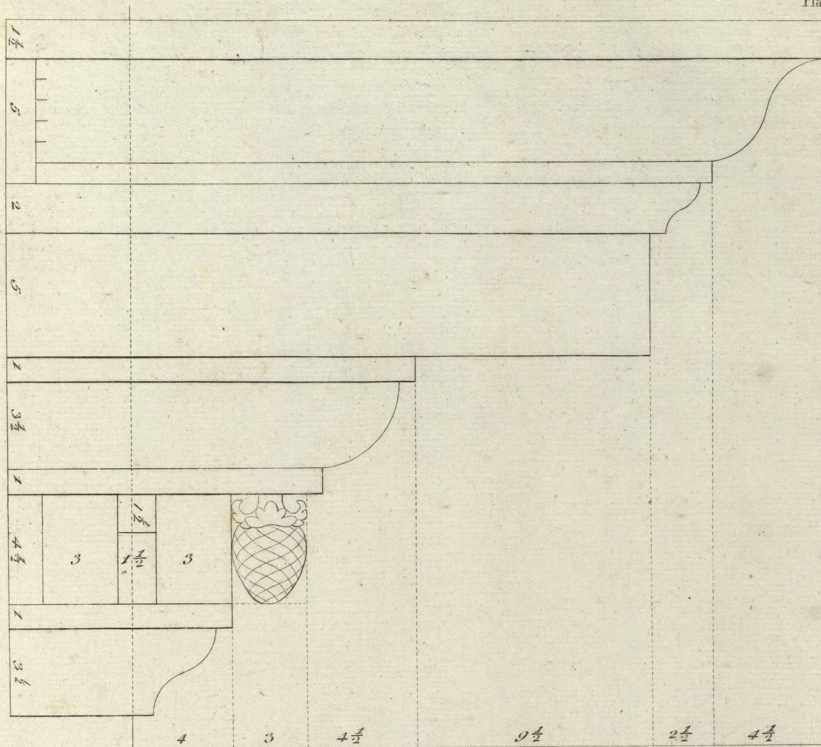
All Swan in side

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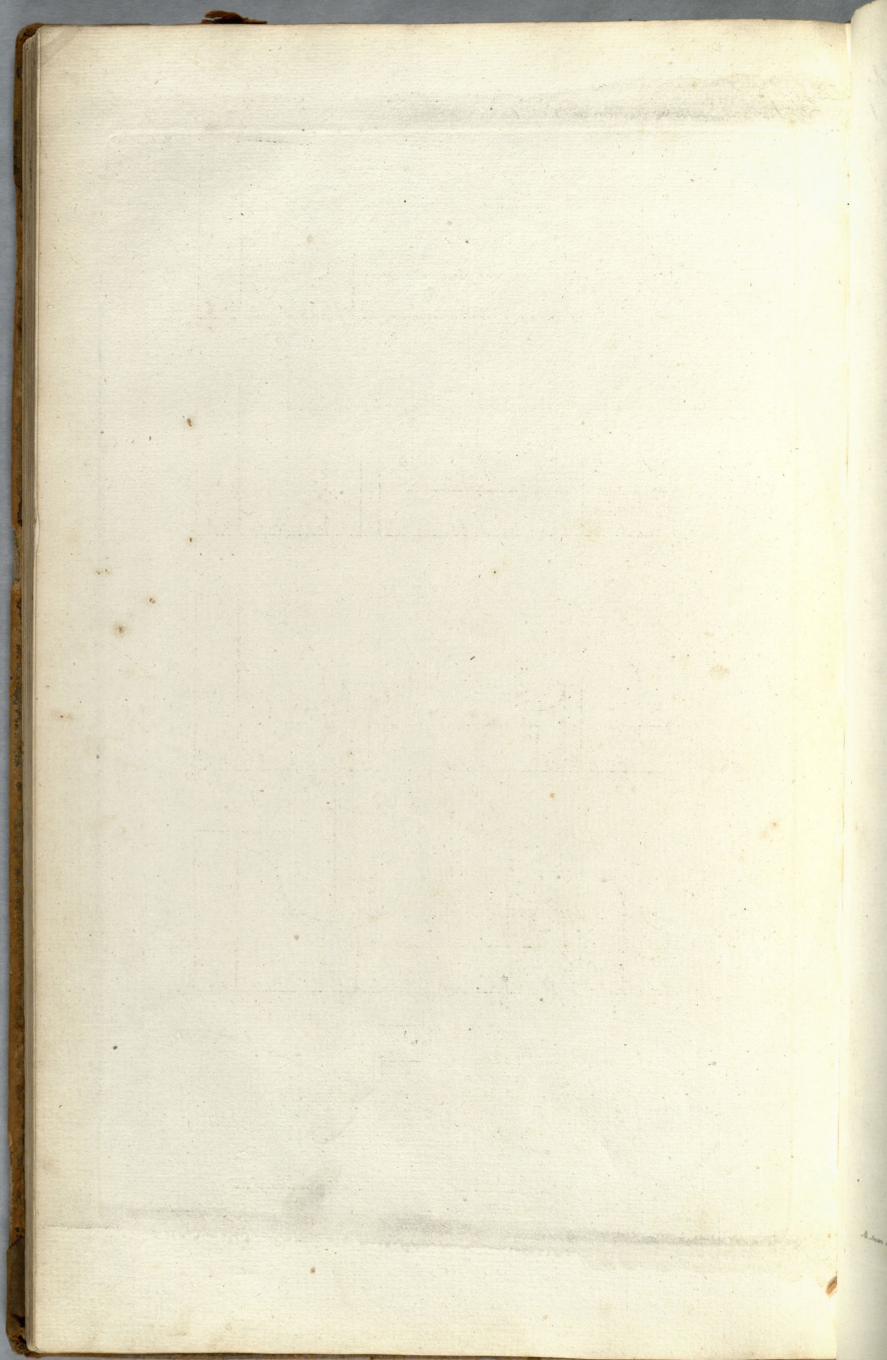


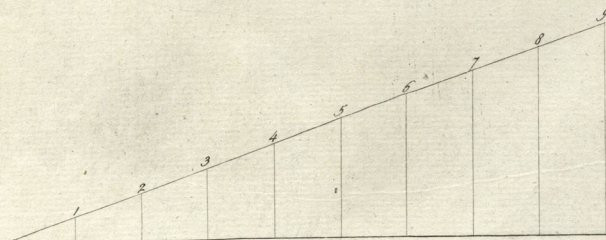
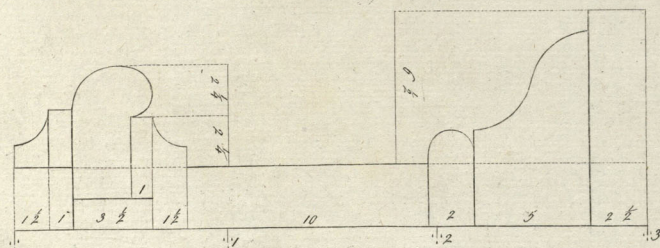
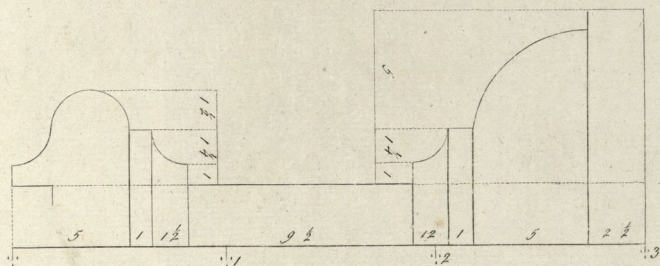
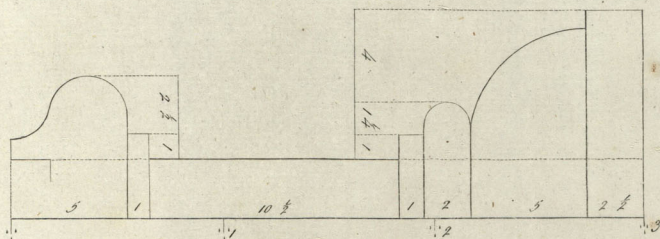
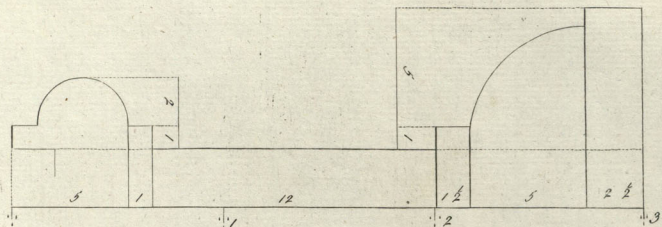
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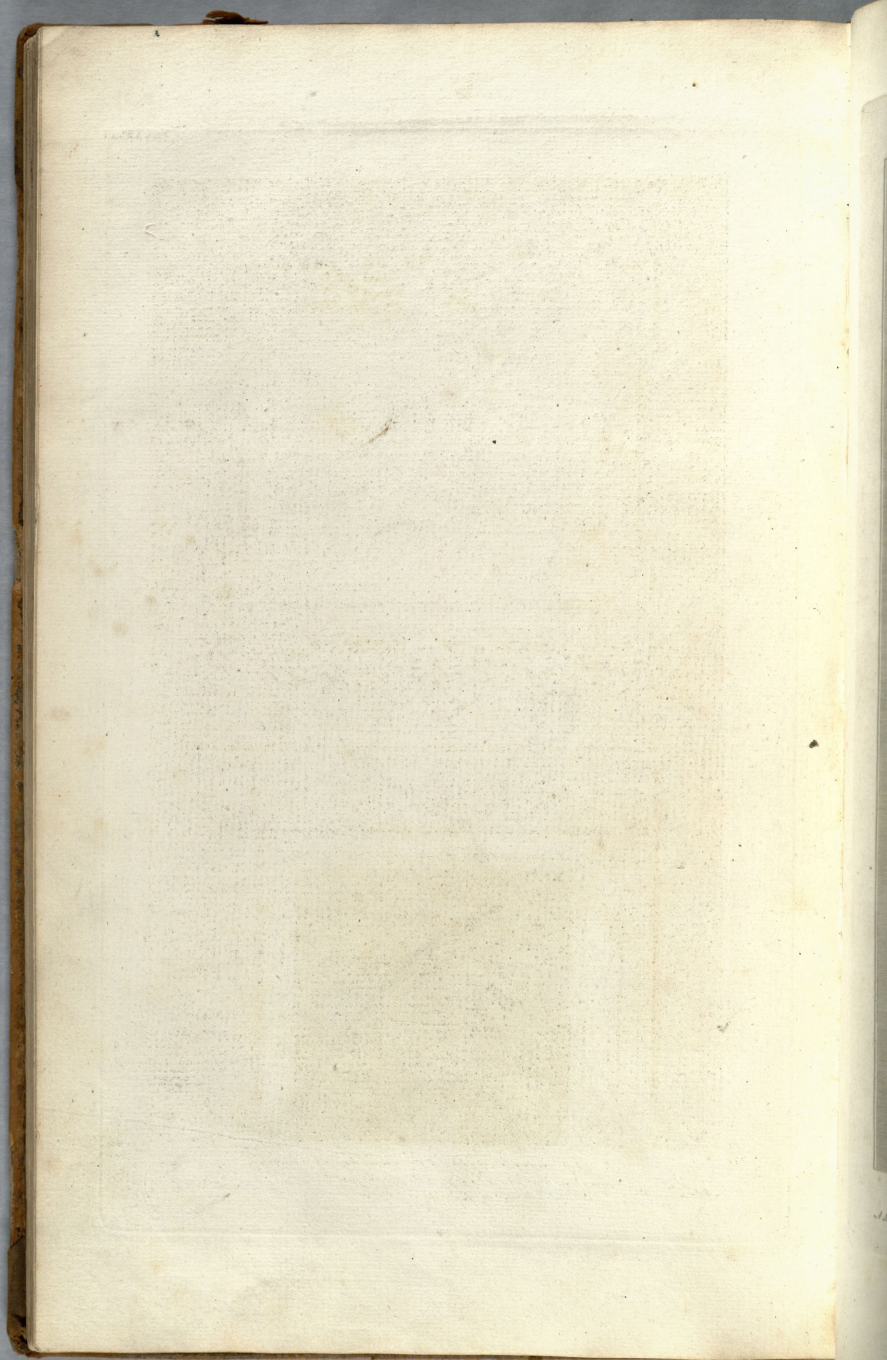


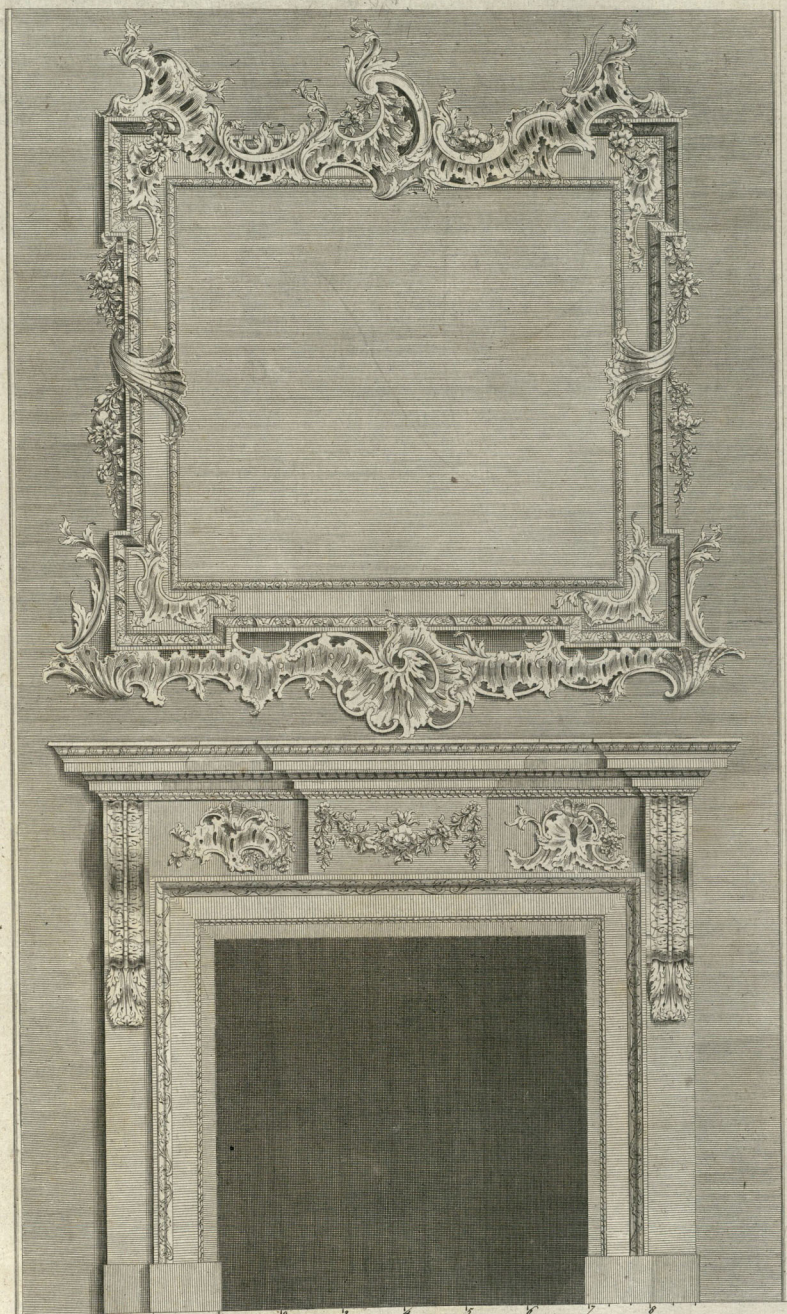


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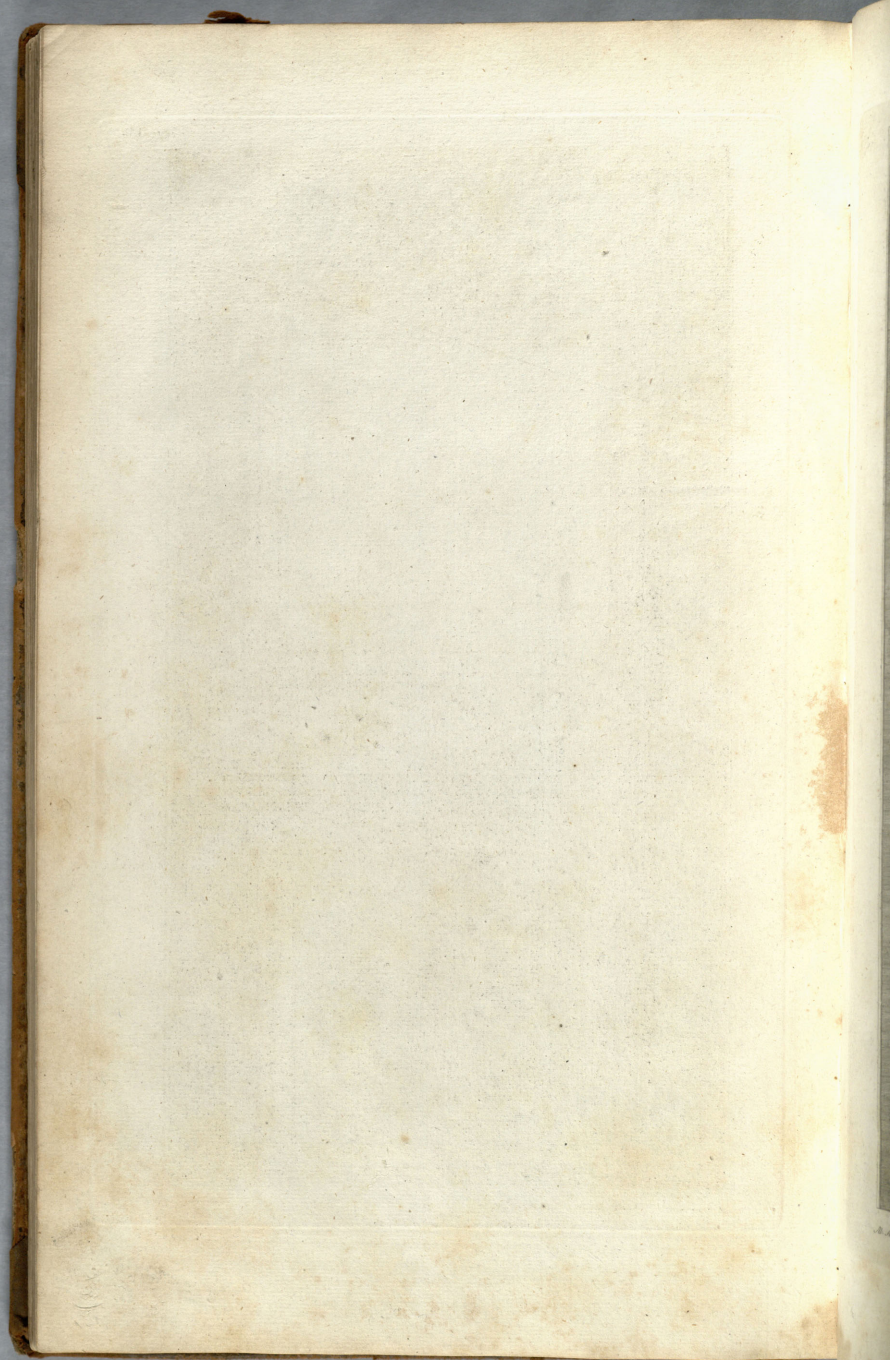


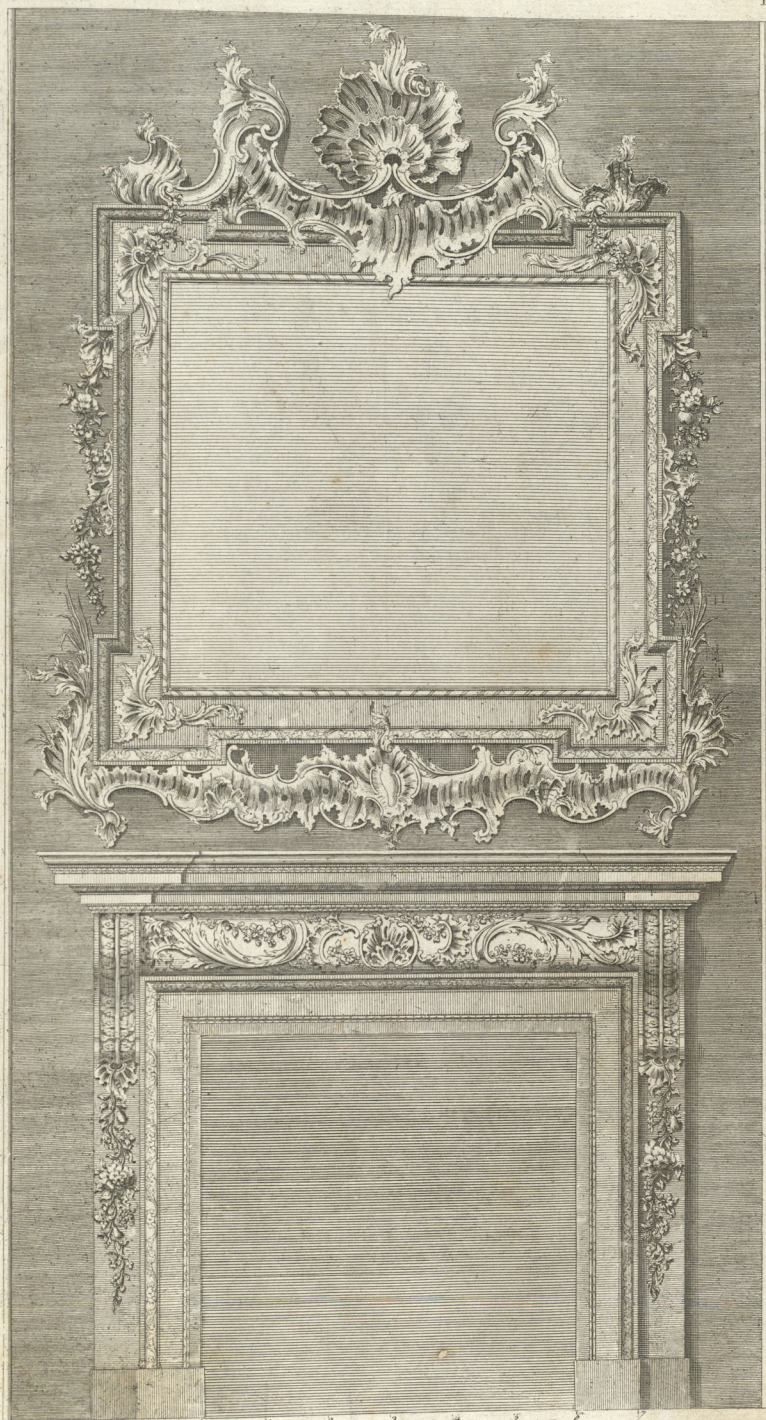


*It Would be Needless to lay down all the Particular Measures of these Chimneys,
They being Better Describ'd at large on the five foregoing Plates.
Publish'd According to Act of Parliament*

A Swan in' et delin.

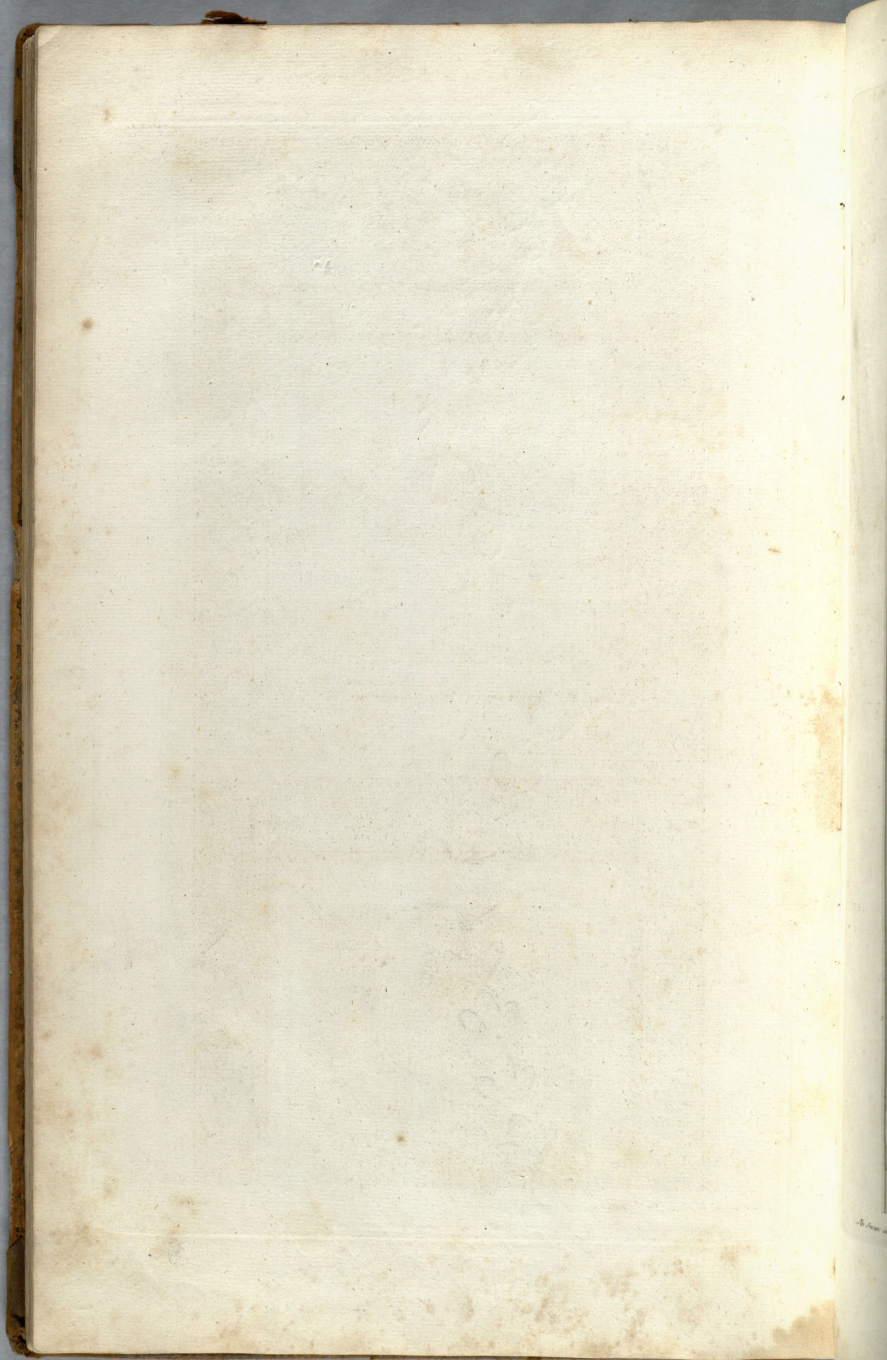
C. Roemer sc.

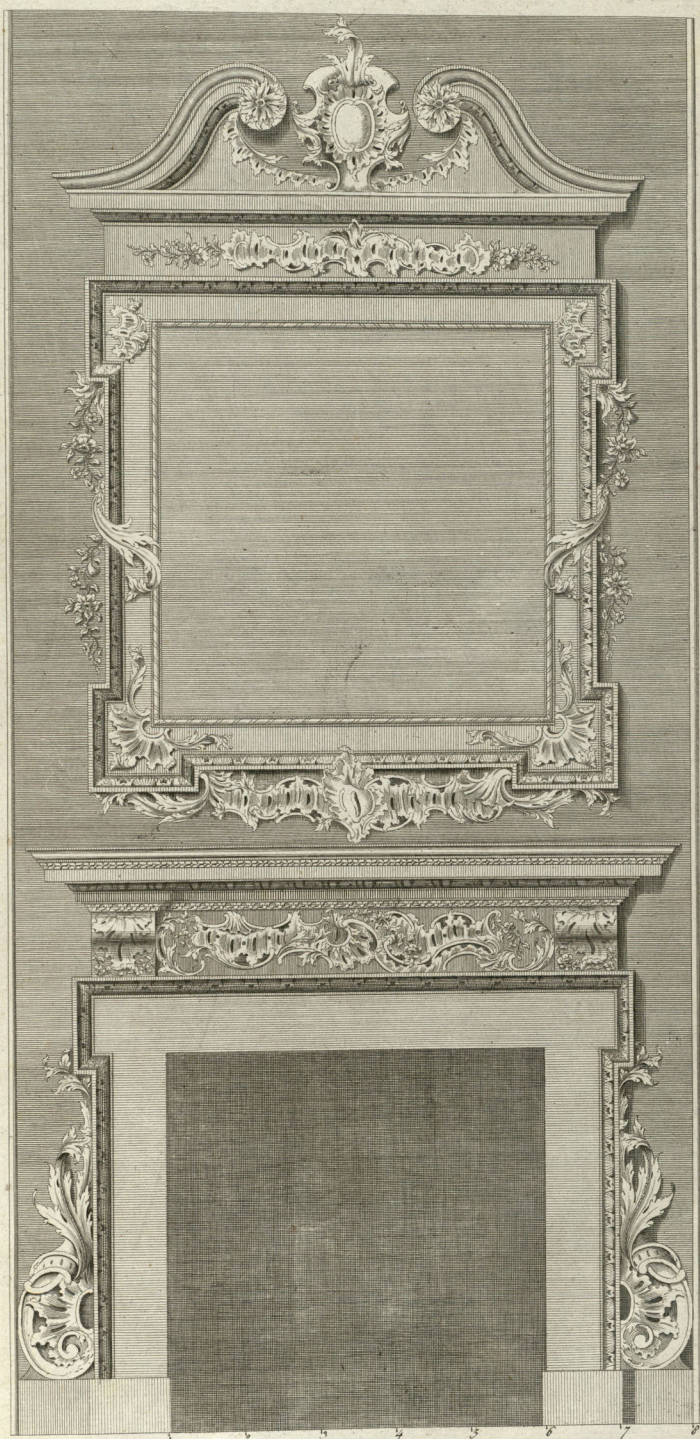




Mr. Owen in a do. published according to the Act of Parliament.

Printer.

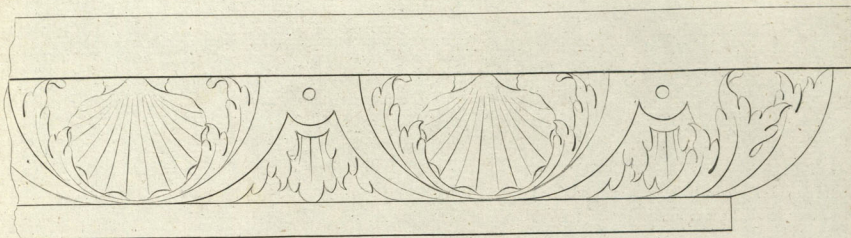




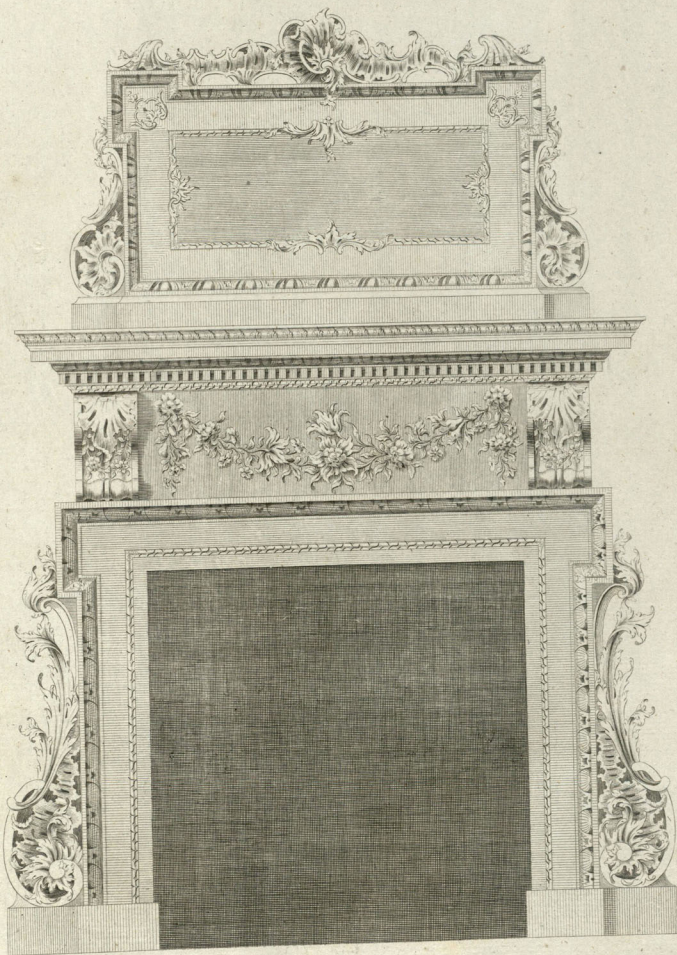
At. Swan in et de. Pat. 3 according to list of Parliament.

Proctor sc.

Handwritten text in a cursive script, likely a list or inventory, running vertically down the center of the page. The text is faint and appears to be written in ink on aged paper. The script is highly stylized and difficult to decipher, but it seems to consist of several lines of text, possibly names or descriptions of items.

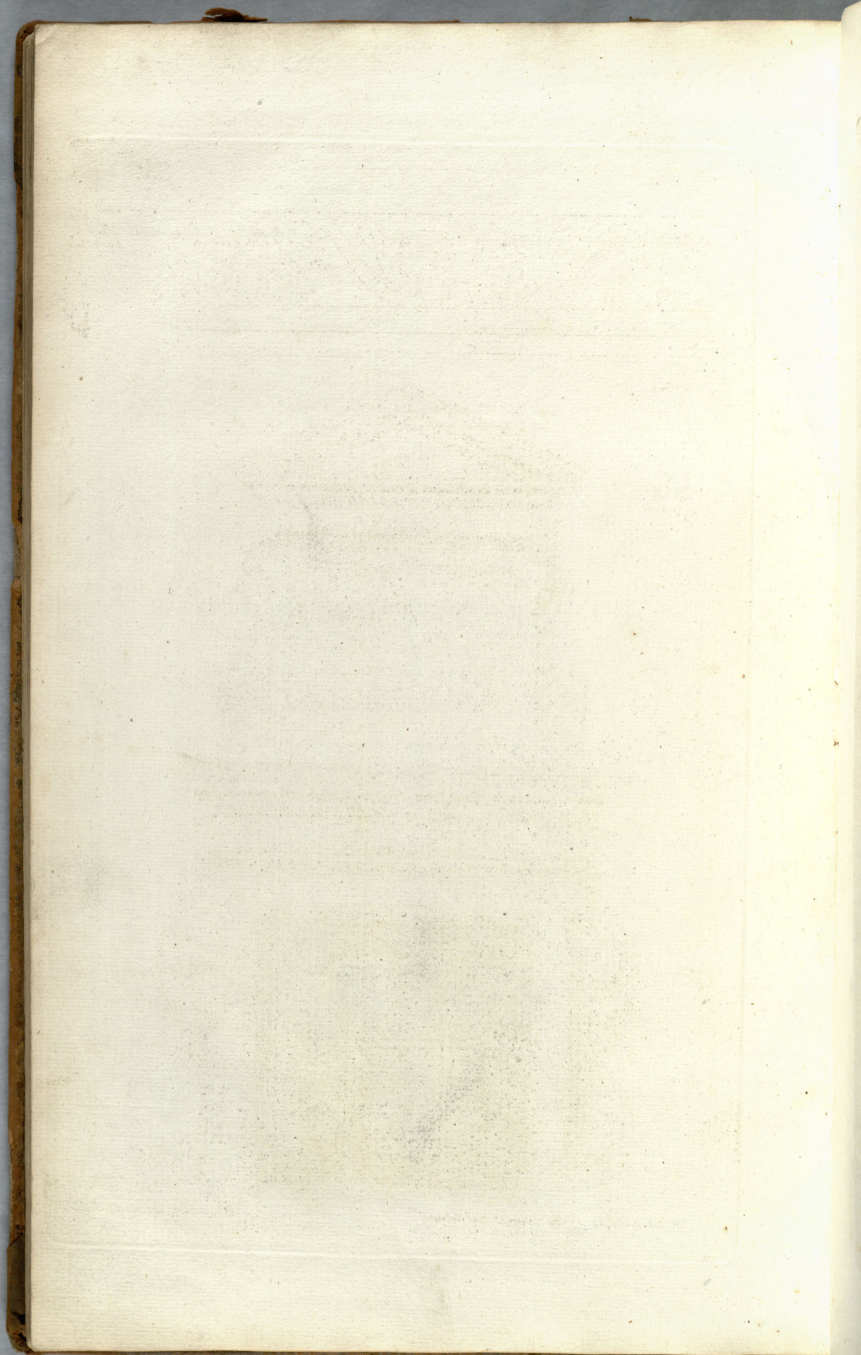


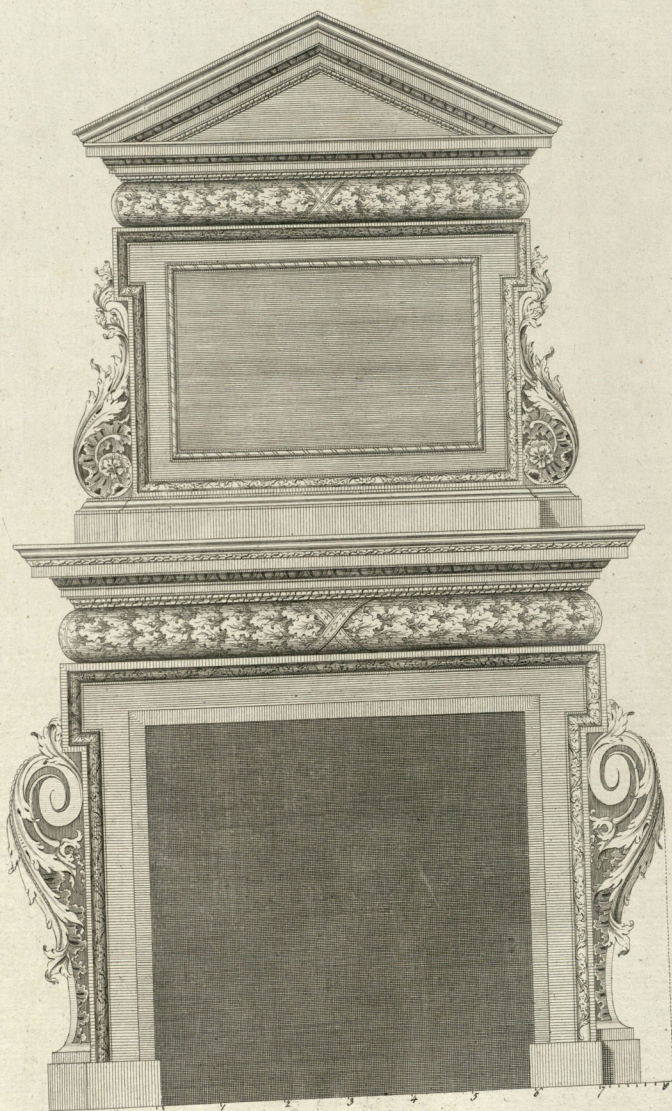
*This Plate Shows how any of the fore going Chimneys
May be Shortened if Required.*



Ab. Swan inv et del. Pub. according to Act of Parliament.

Edw. Hooker sculp.

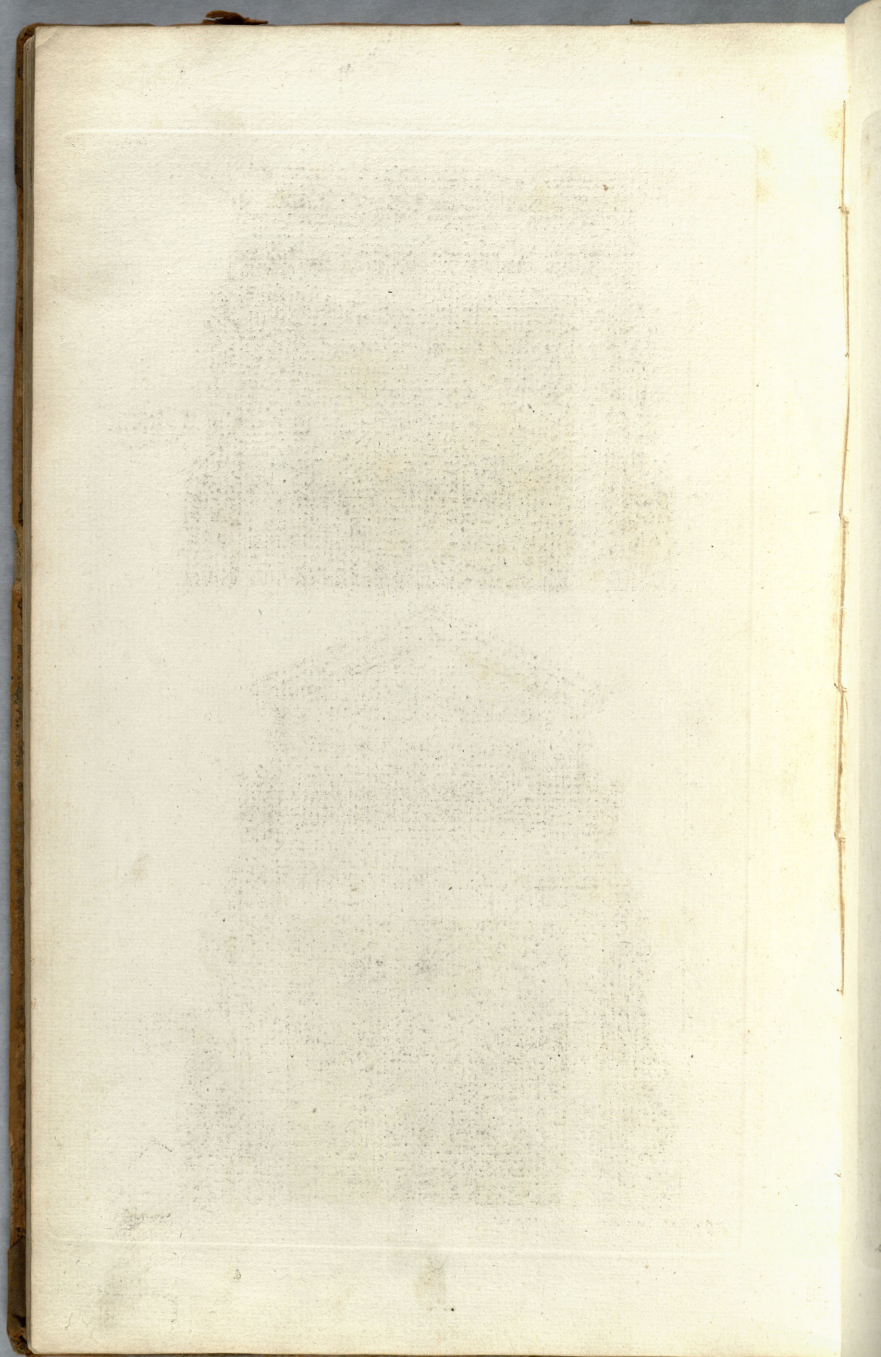


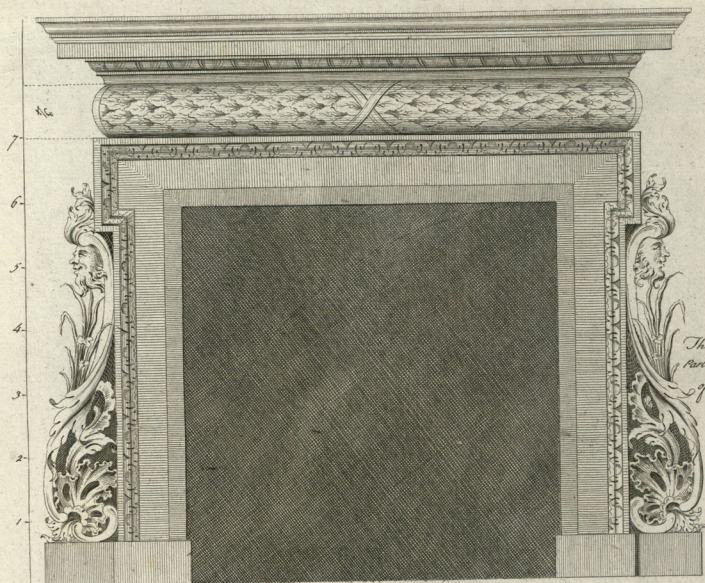


Alt. Swan inv et del.

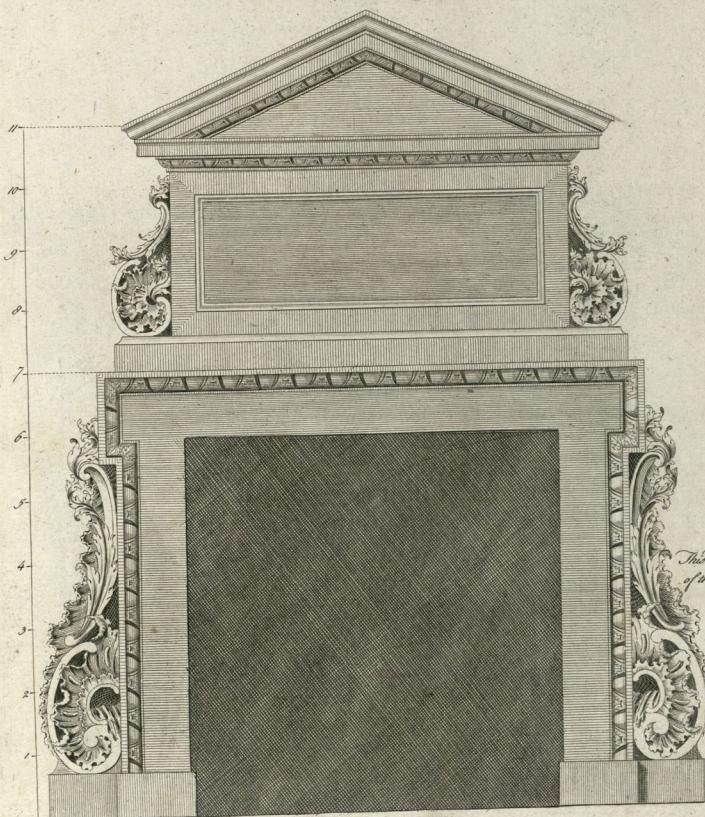
Pub. according to list of Parliament.

Edw. Roemer sculp.

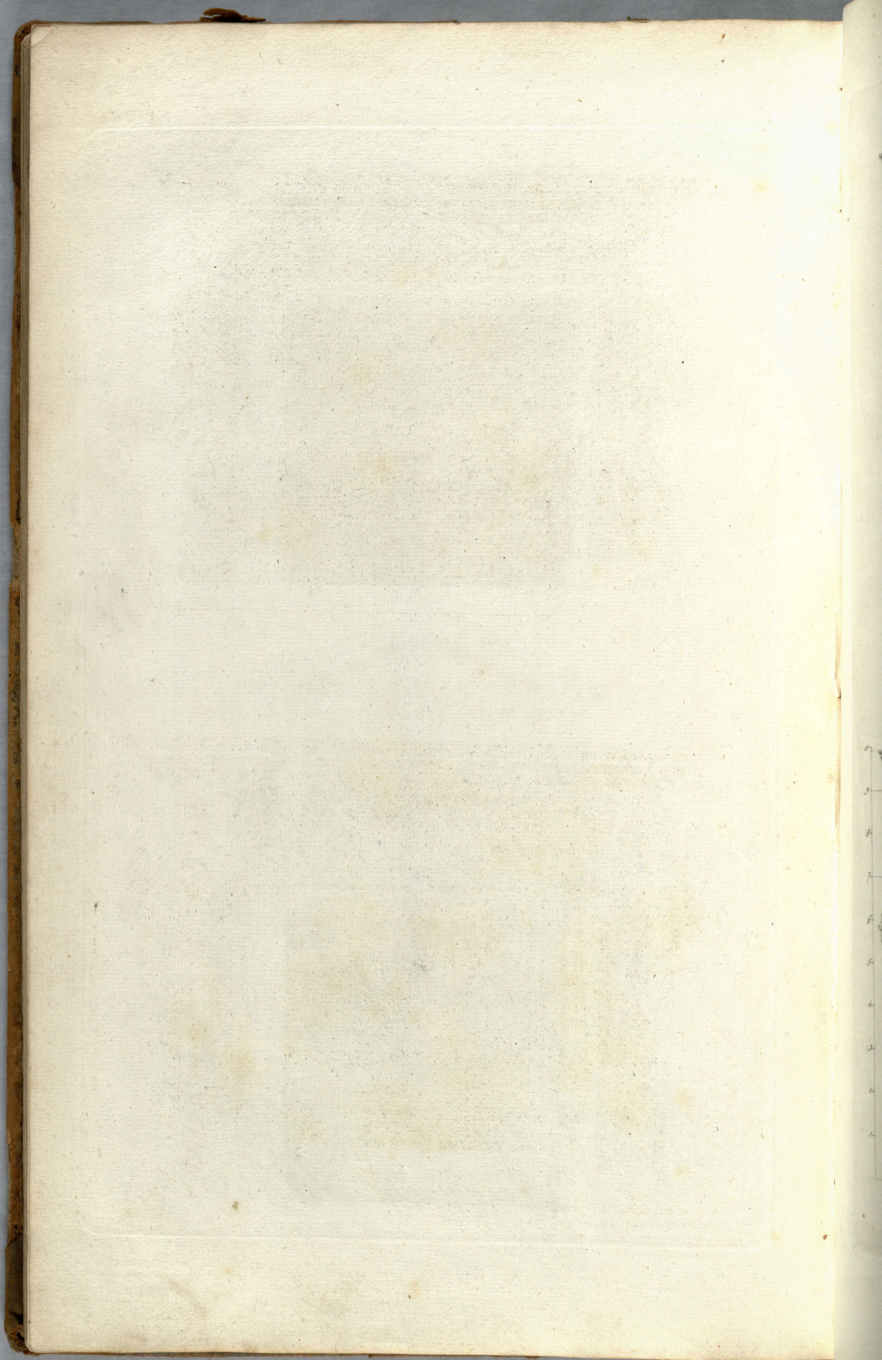


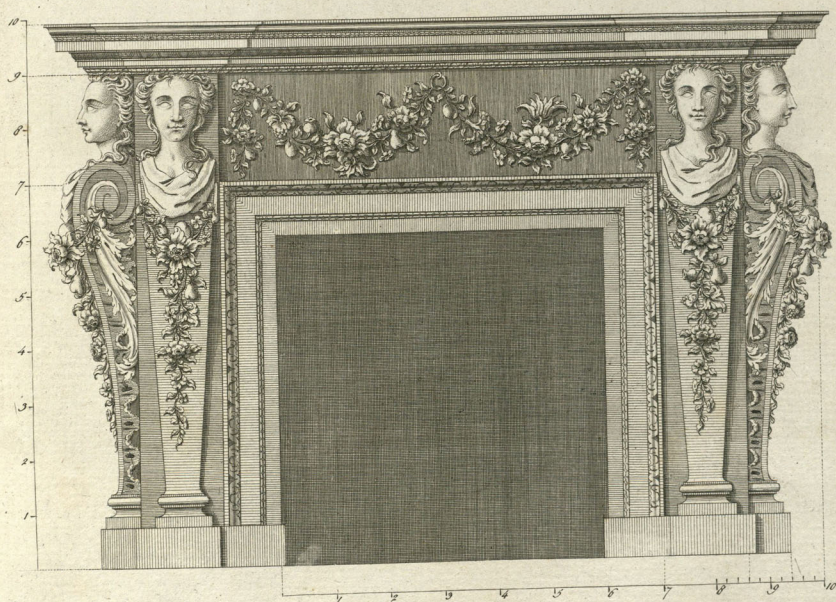
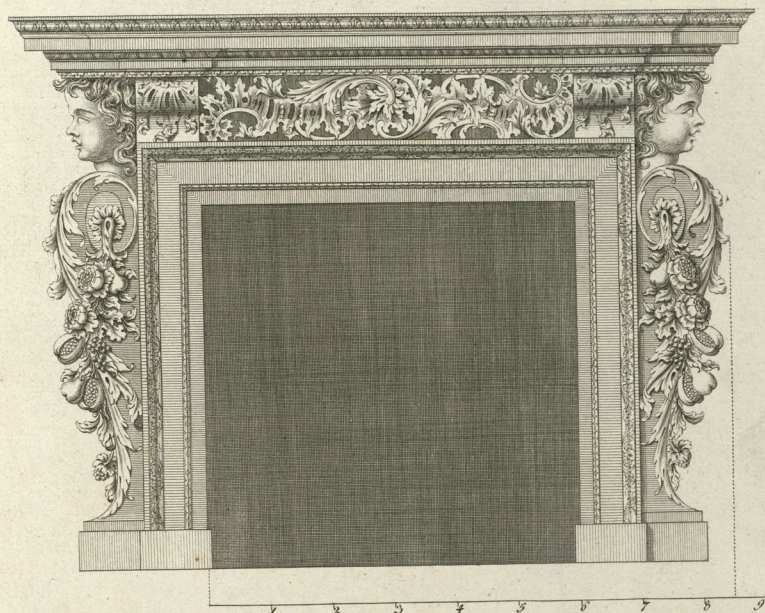


*This Truss is one 5th
Part of the Opening
of the Chimney.*



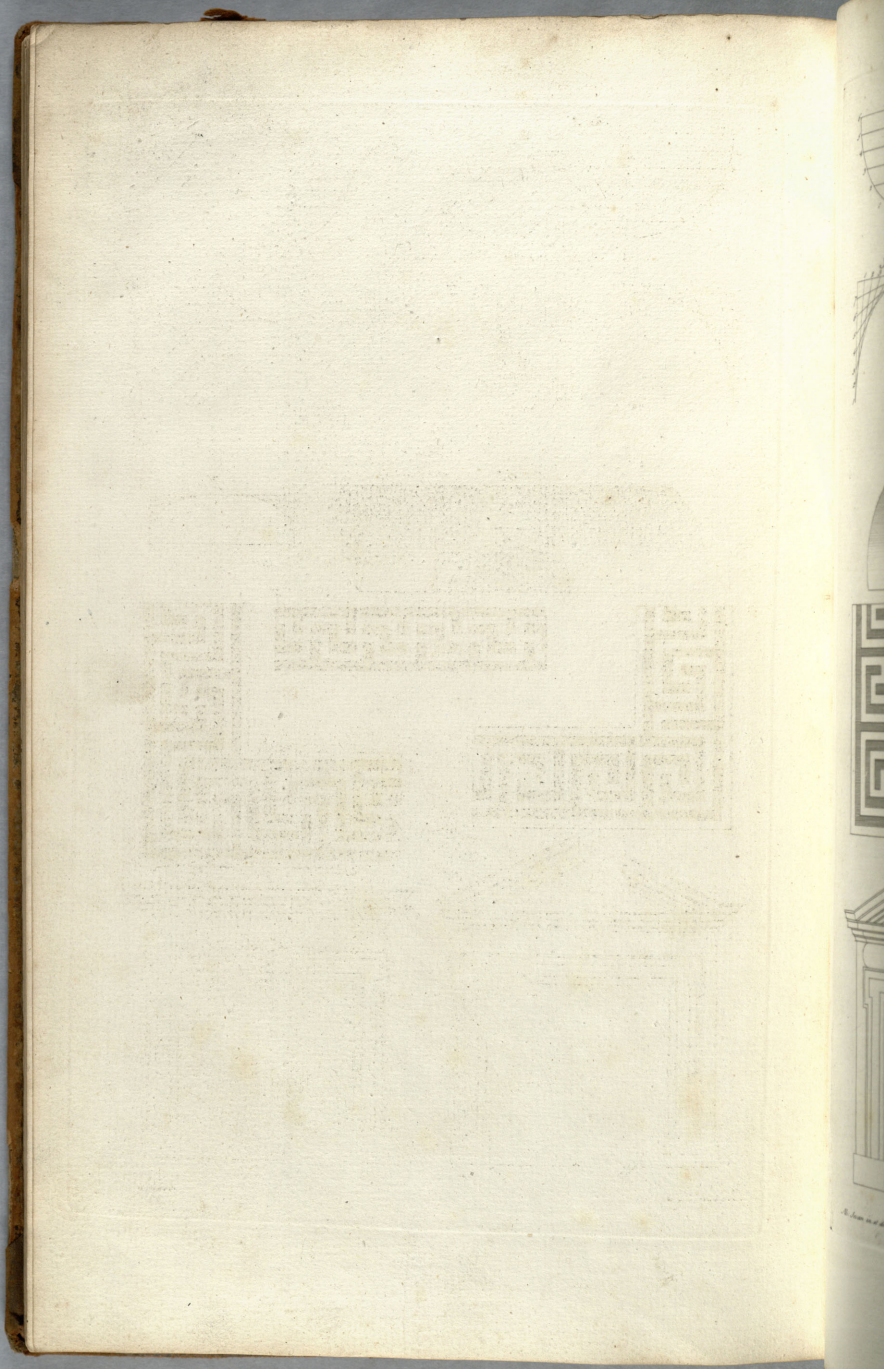
*This Truss is two 3^{ths}
of the Opening of this
Chimney*

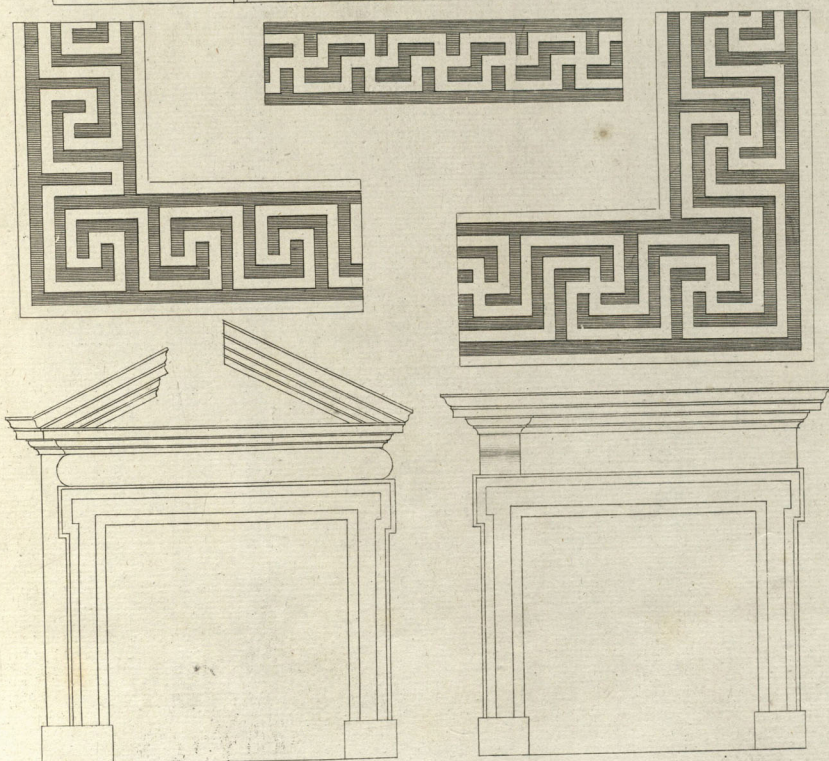
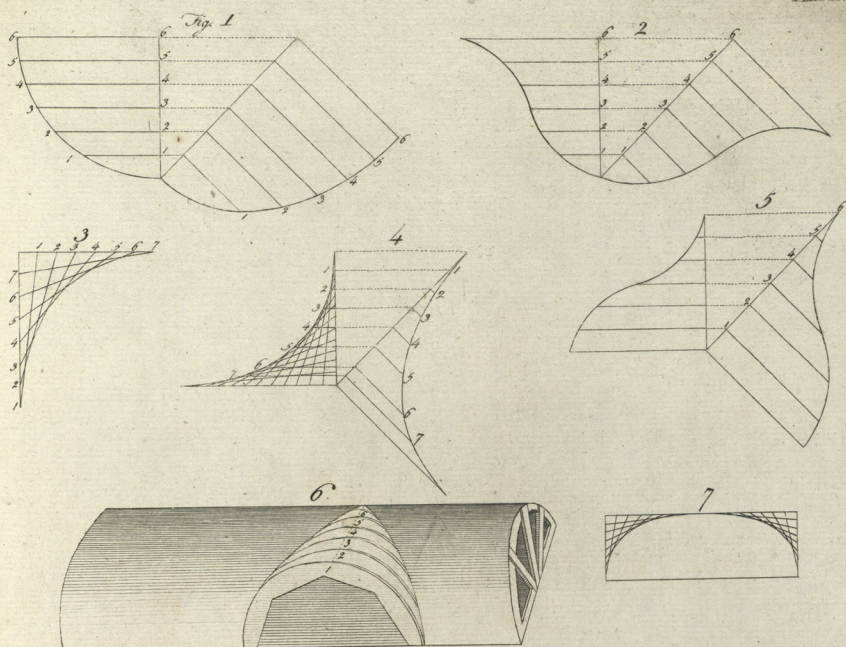


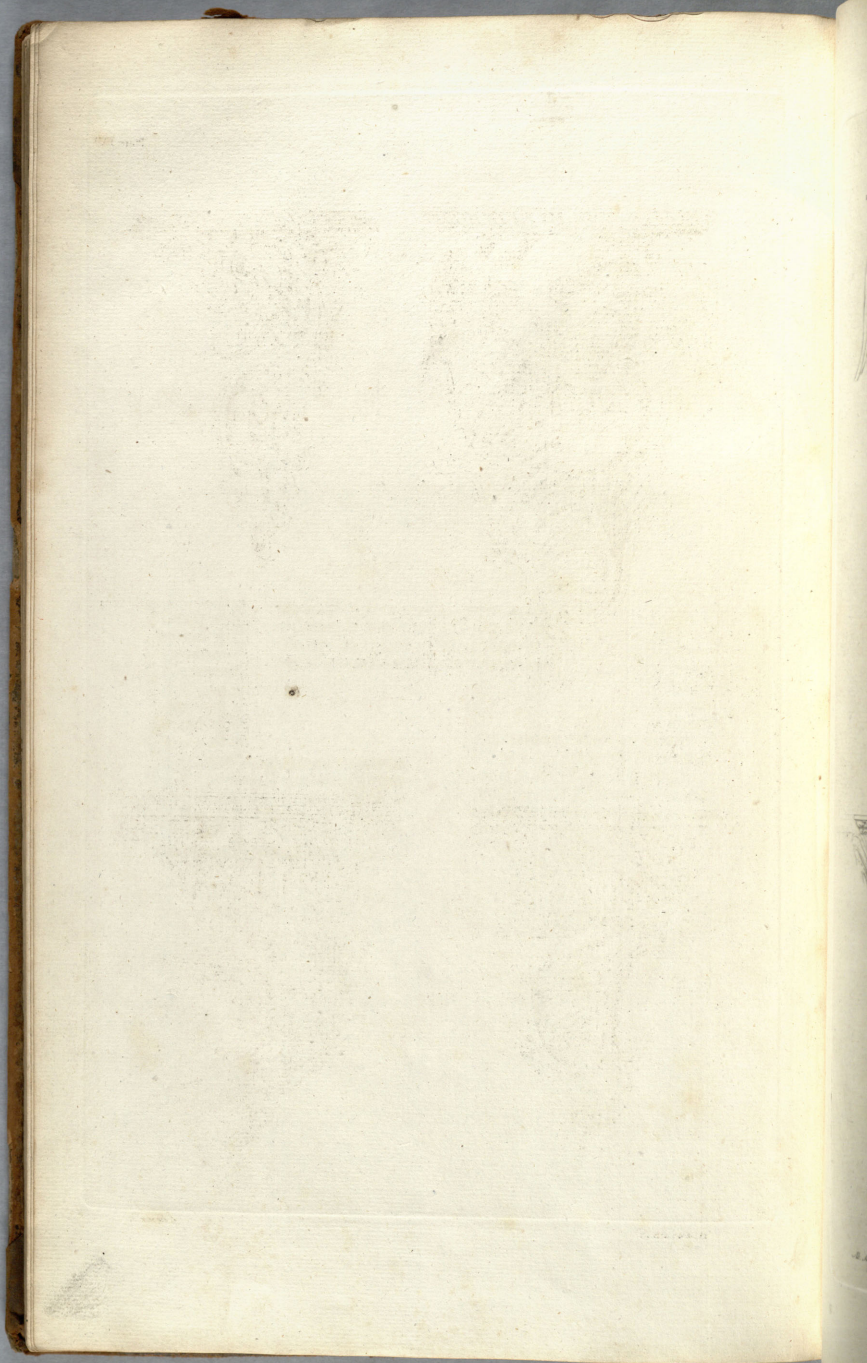


As shown in et de Pub. According to Act of Parliament

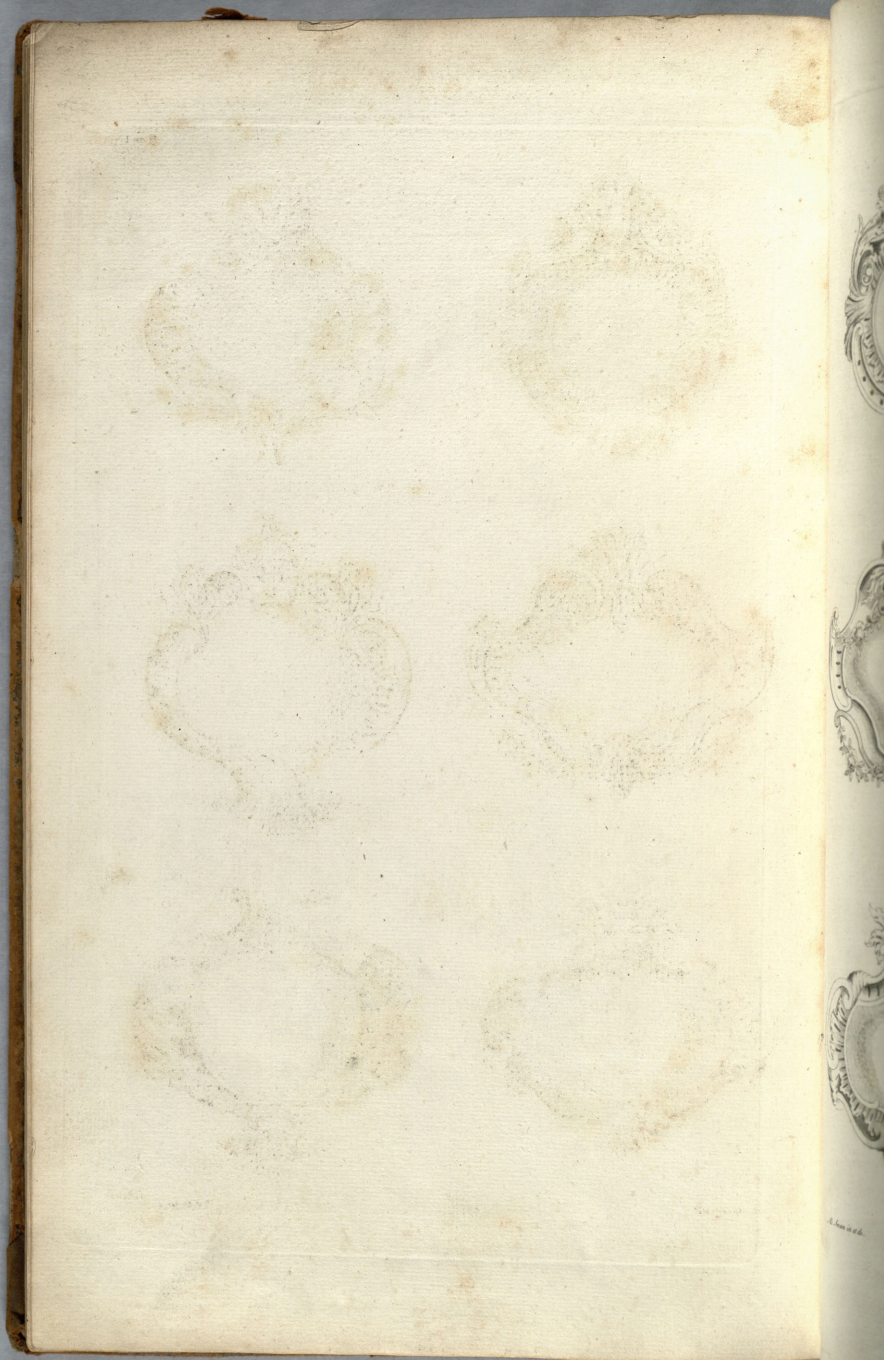
Reverberating

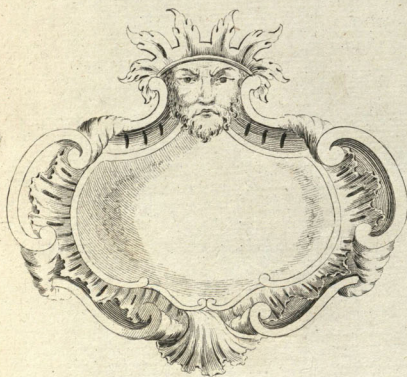
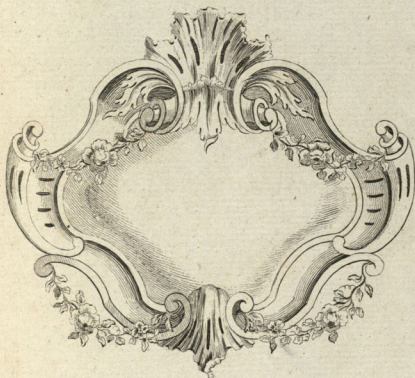


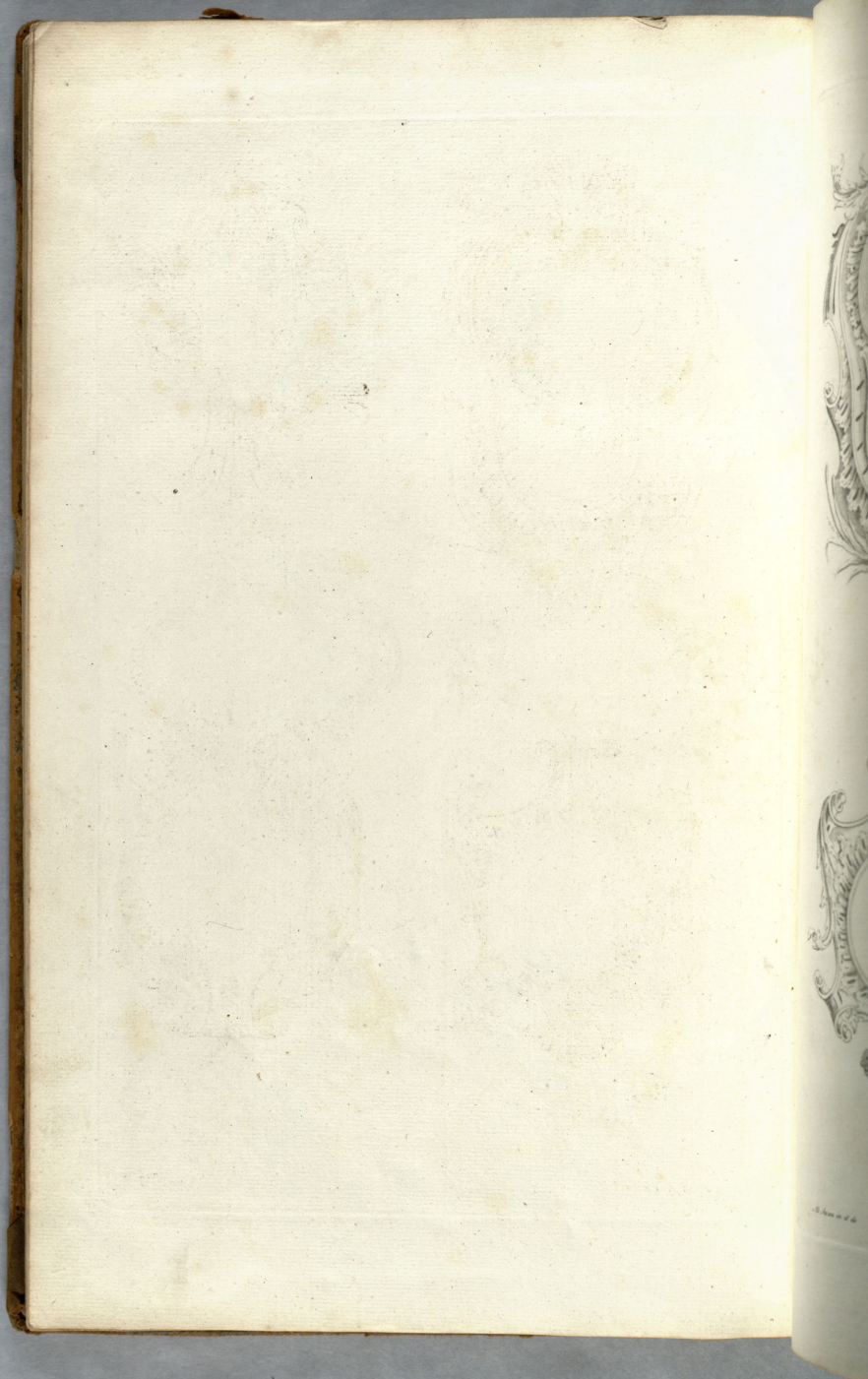


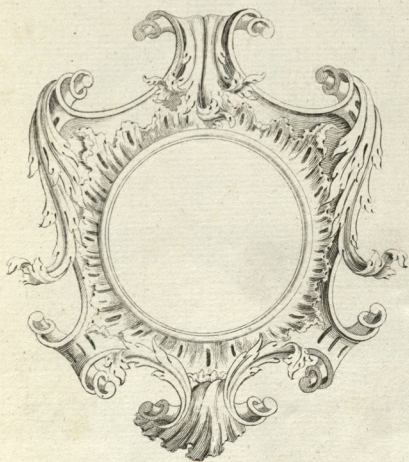
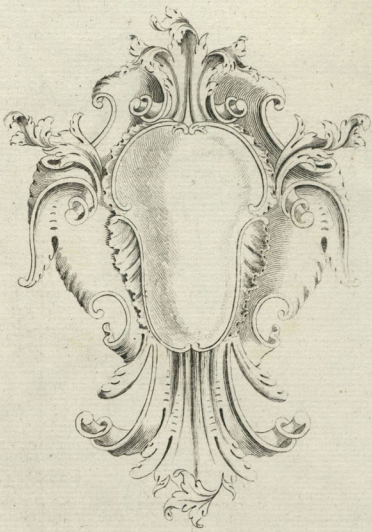
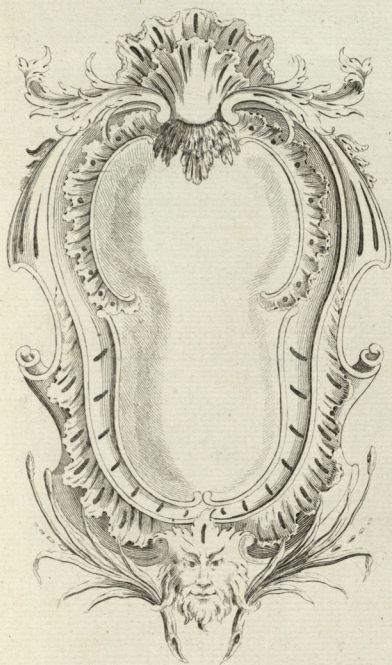


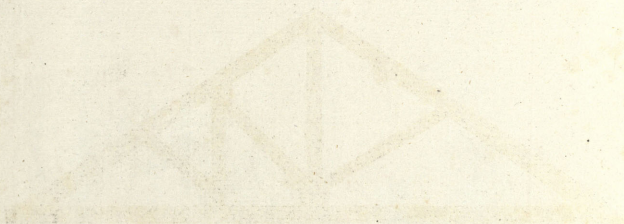






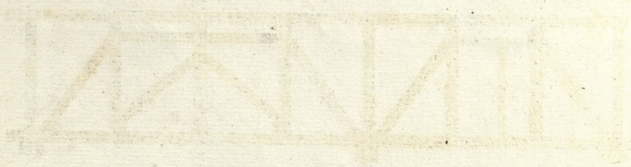






Faint, illegible text or labels, possibly describing the structures above.

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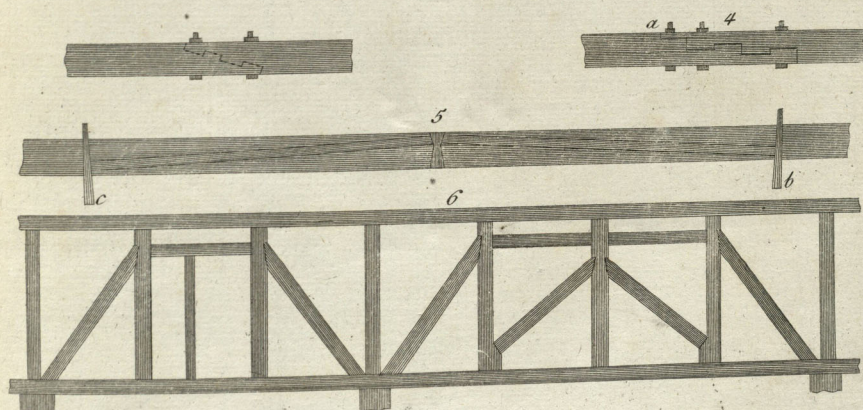
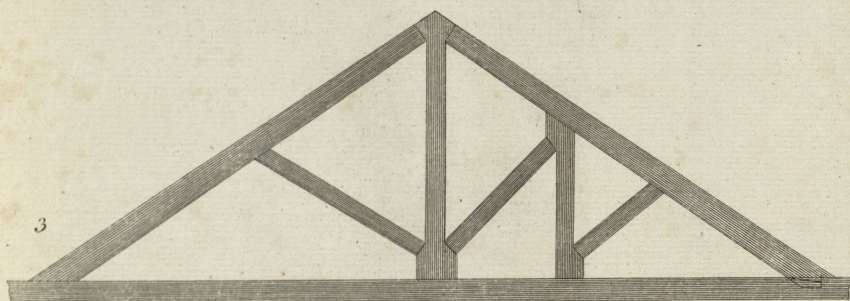
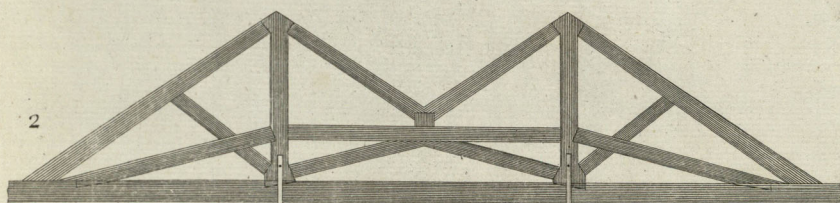
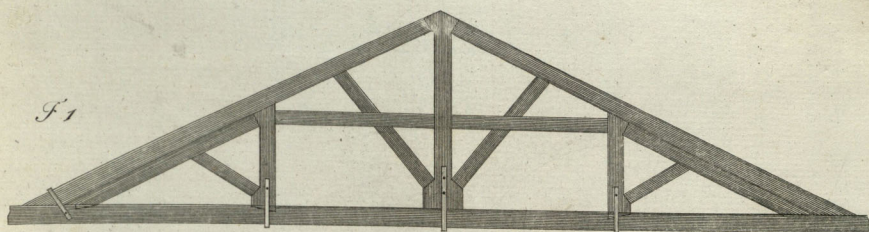


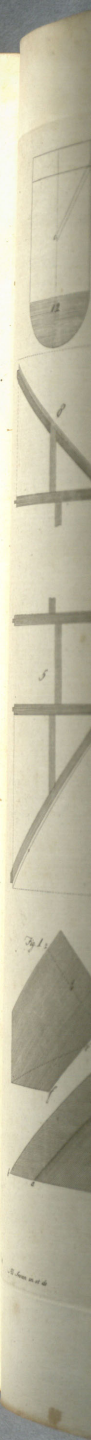
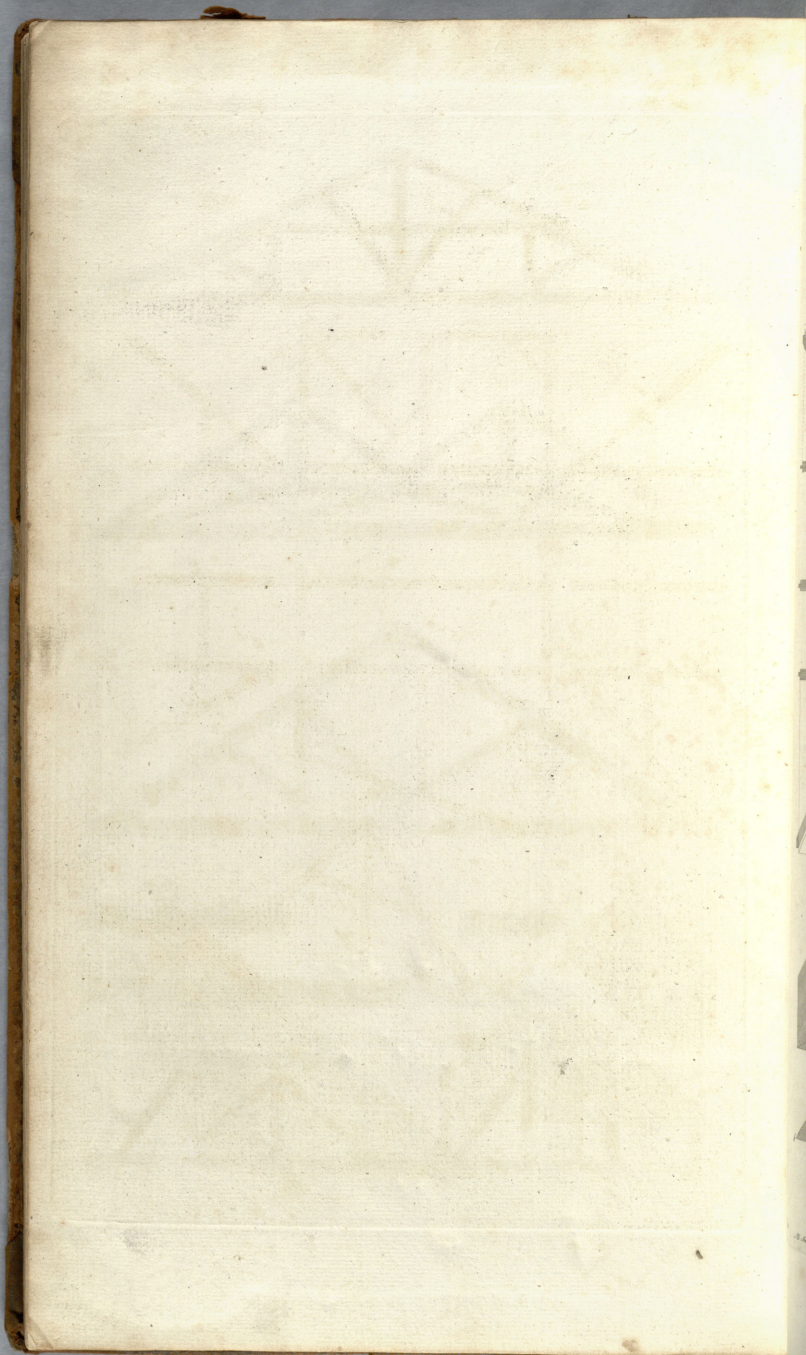
31

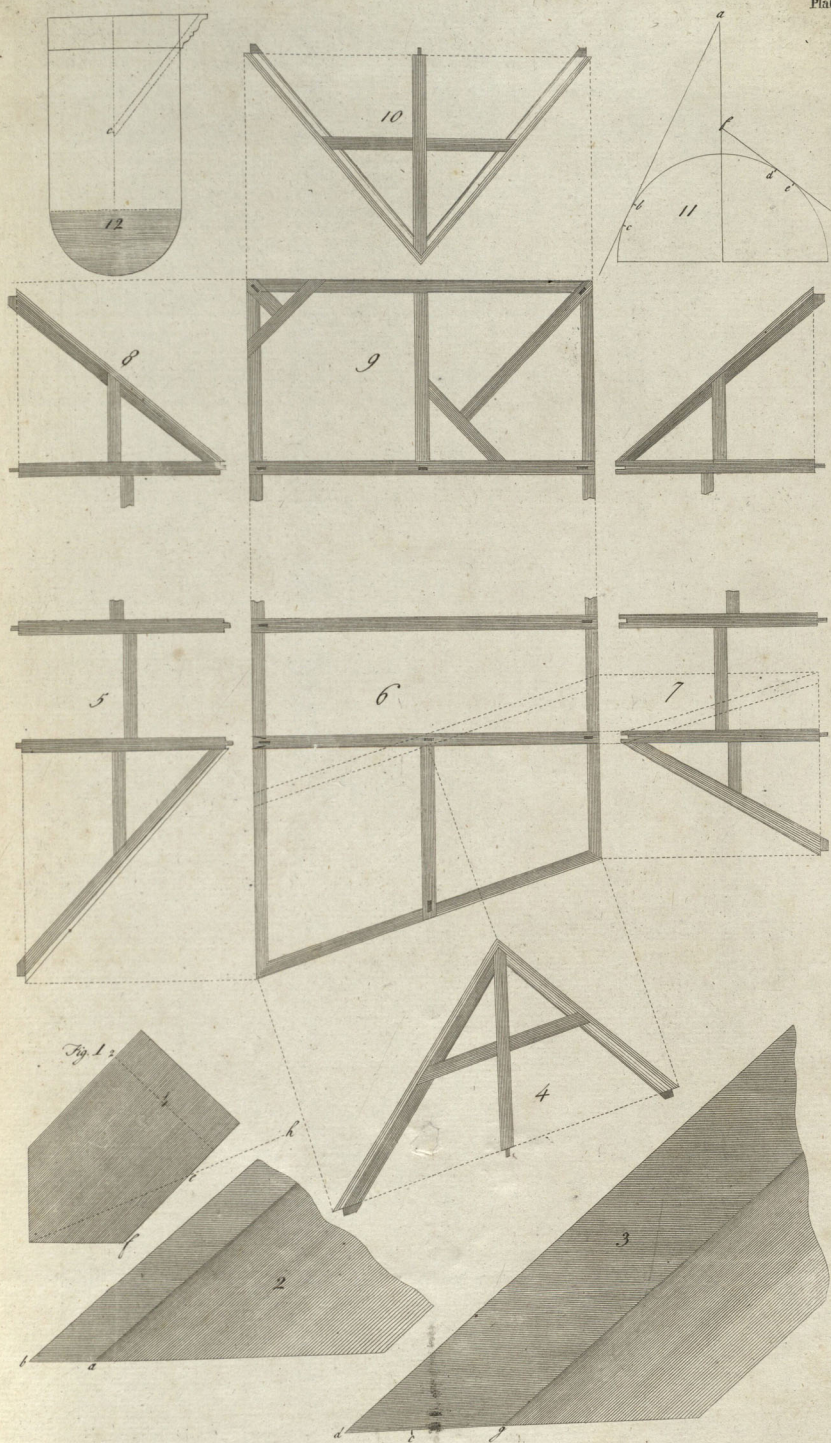
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3

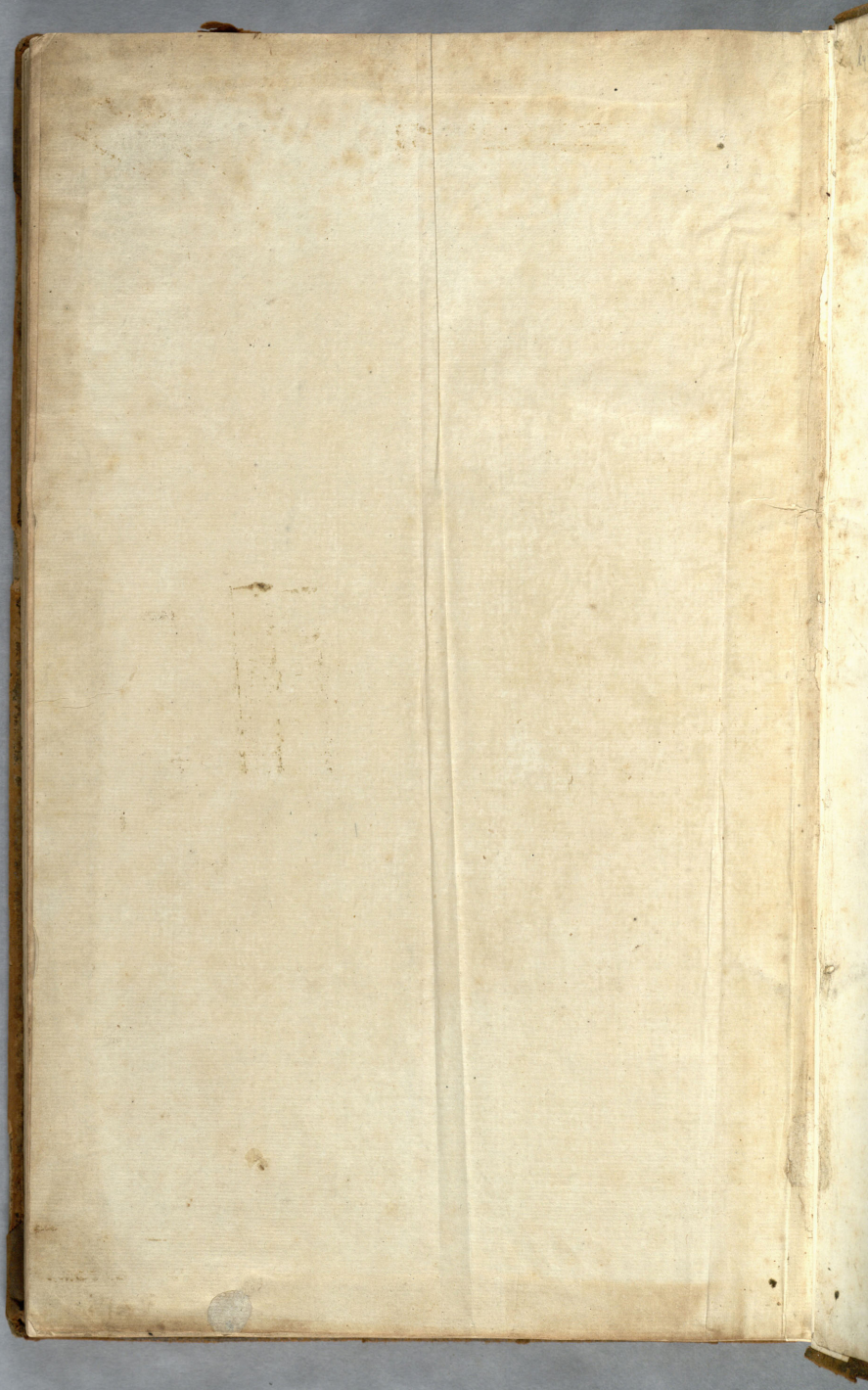
John Doe











89/35
55. INTERIOR WOODWORK. SWAN [ABRAHAM]. The British Architect
of the Builders Treasury of Staircases. With upwards of 100 de-
signs and examples on 60 folio copperplates. Folio, full unfinished
calf [worn].

A VERY SCARCE ARCHITECTURAL TREATISE, showing designs of staircases,
arches, doors, windows, chimney-pieces, etc.
London [1780]

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AMERICAN ART
GALLERY, N.Y.
4/24/29

