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E. ALBIN
NAT. HIST
OF
SPIDERS.



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MITE S.



J. Scottin Sculp

A
NATURAL HISTORY
OF
SPIDERS,
AND OTHER
Curious INSECTS,
BY ELEAZAR ALBIN.

Illustrated with *Fifty three* COPPER PLATES,
Engraven by the Best Hands.

L O N D O N :

Printed by JOHN TILLY, for R. MONTAGU in *Great-Queen-Street*, near
Drury Lane; J. BRINDLEY at the *King's Arms* in *New Bond Street*;
O. PAYNE at *Horace's Head* in *Round-Court* in the *Strand*; J. WORRALL
at the *Dove* in *Bell-Yard* near *Lincolns-Inn*; T. WORRALL at the
Judge's Head in *Fleetstreet*; T. BOREMAN near *Child's-Coffee-House* in
St. Paul's Church-Yard, and C. CORBETT at *Addison's Head* against
St. Dunstan's Church in *Fleetstreet*. M.DCC XXXVI.

NATURAL HISTORY

OF

SPIRITS

720305
OF THE R

CURIOUS INSTINCTS

BY ELE ALBIN



Illustrated with
Engraven by the Best Hands.
COPPER PLATES

L O N D O N :

Printed by John Tilly, for R. Montagu in Great Queen Street, near
St. Paul's Church-yard; and C. Cornish at Adolphus's Head, against
St. Paul's Church-yard, and C. Cornish at Adolphus's Head, against
St. Paul's Church-yard; T. BORMAN near CHURCH-LANE in
the Strand; J. WOODALL near King's Arms; T. WOODALL at the
O. PARKS at Horse's Head in Round-Court in the Strand; J. WOODALL
Printed by J. B. Brindley at the King's Arms in New Bond Street;
Printed by John Tilly, for R. Montagu in Great Queen Street, near

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To the LEARNED

Doctor *M E A D*,
FELLOW of the Royal College of
Physicians of *L O N D O N*,
AND
Physician to *H I S M A J E S T Y*.



OUR approbation of this little work
is sufficient to make it favourably re-
ceived in the world.

FOR as your treatise on poisons has given
the learned a universal esteem of your most nice
judgment in the works of nature, so, this being
introduced to them under your auspicious pro-
tection must necessarily recommend it to the ac-
ceptance of the publick.

DEDICATION.

THIS, SIR, compleats my ambition from those labours, which I have designed for the general improvement of mankind, in the many various intricacies in nature, concerning that insect, the Spider, of which the philosophical transactions of the year 1671 mention thirty three different sorts to be found in *England*, but this falls far short of the real number that nature has produced of this insect; for, here in this treatise, near two hundred different sorts of Spiders are described. Permit me, to express myself, with the profoundest respect,

HONOURED SIR,

Your most humble,

and obedient Servant,

Eleazar Albin.



TO THE

READER.



HE great Mr. *Addison* in his *spectator*, N^o, 121. speaking of those whose genius and talents carry them toward natural history, says thus.

“ I COULD wish that out of several writers,
“ some one would take each his particular spe-
“ cies, and give us a distinct account of the frame,
“ and texture of its parts, and particularly those
“ which distinguish it from other animals. This
would

To the *R E A D E R*.

“ would be one of the best services their studies
“ could do mankind, and not a little redound to
“ the glory of the all wise creator of them.”

I AM proud to own that this sentiment of this great man has, in conformity to his wish, led me to the compiling of this treatise on that one particular animal the Spider.

BUT as the world, in intricacies of nature are commonly dubious of the facts related, I assure the reader, that the accounts I have here given have been from my own ocular observation, having made it my particular care to be extraordinary exact in the collections and observations I have made concerning this Insect.

ON this useful wish of Mr. *Addison*, I have raised this building, and shall account myself very happy, if, among the several kinds and species of this insect, I shall here deliver any thing so new and useful, as shall be worthy the
notice

To the READER.

notice of the curious, and will be an encouragement to me to proceed, perhaps, farther in other productions of nature, no less curious than is this of the Spider. The particular advantages, which an acquaintance with the wonderful productions of nature bring to us, are to instruct our understanding, and gratify our commendable curiosity; both which ends I have endeavoured to answer in this treatise, in respect of all those curious priors into nature, whose desire leads them to be informed concerning the Spider.

EACH particular species of this little insect (of which I have with great pains and labour collected near 200) is here represented, and (for such as desire it) beautified in its proper colours, that the reader may have his curiosity satisfied at one view, by what has taken me up a great deal of time and labour, to put so exactly together.

AND since general enquiries into the works and productions of nature have been a study so agreeable

To the READER.

agreeable, that it has been the pursuit of the finest genius's in all ages, I cannot help flattering myself, but that this my particular enquiry into the nature of the Spider will be no less agreeable than useful to the publick in the cure of intermitting fevers; see description N^o. 8. of the House Spider.

N. B. In the account of those insects, found on the bodies of birds, &c. contained in the three last pages of this work, they are in conformity to the learned author from whence they are taken, there call'd fleas; yet I cannot help differing from that curious gentleman, that those he has delineated have not the properties of the flea kind, but rather of the lice.

E. A.



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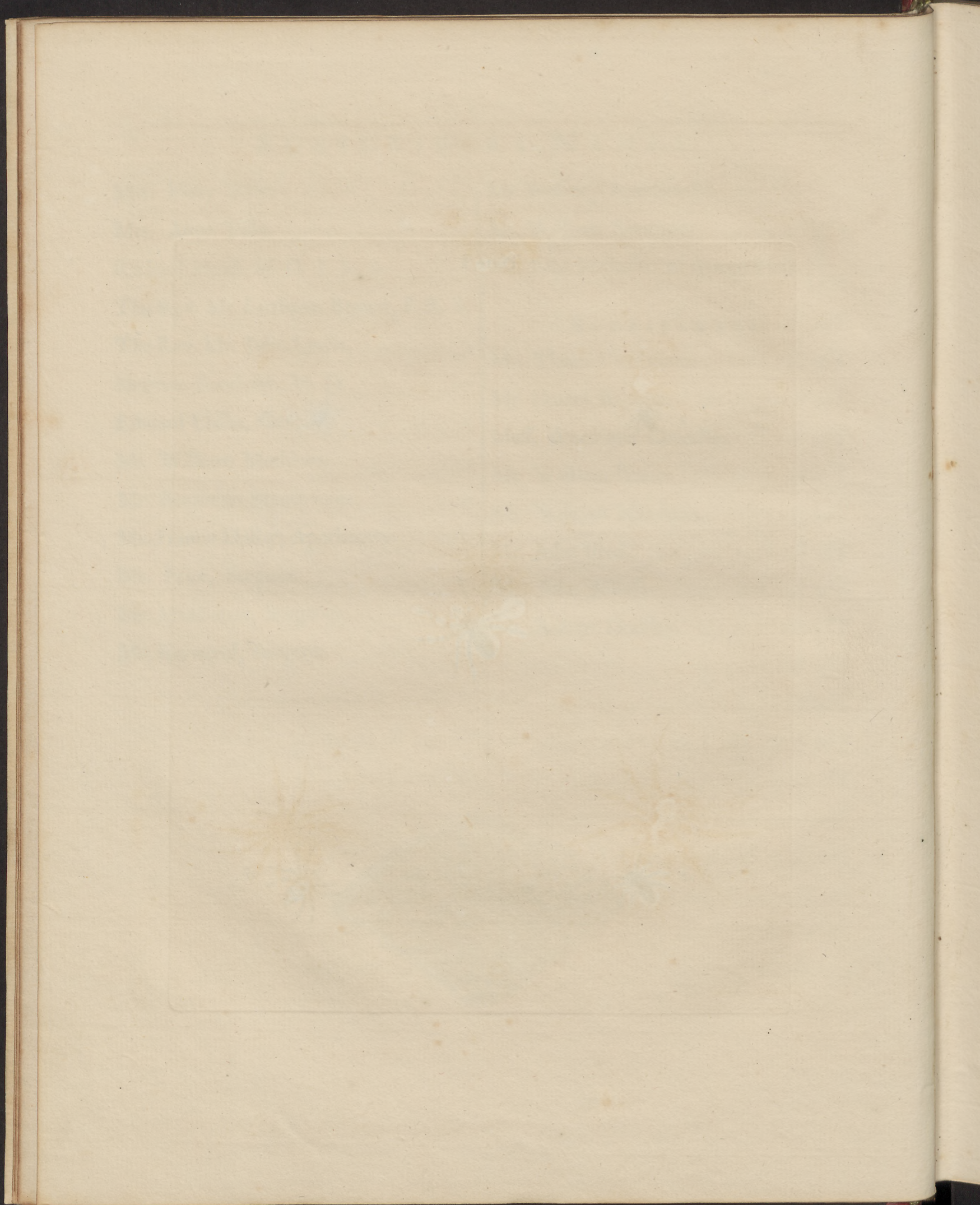
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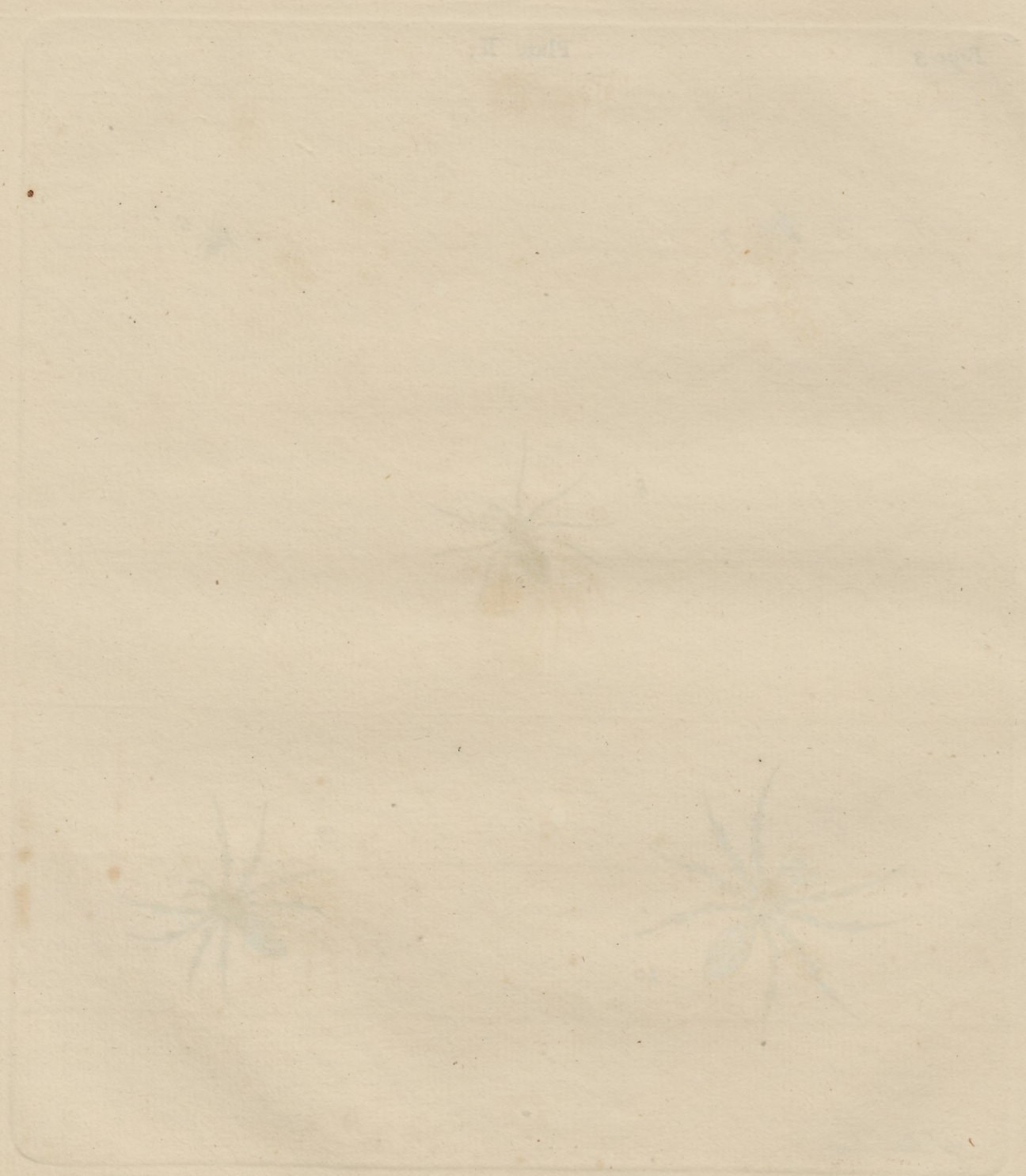
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Plate I.

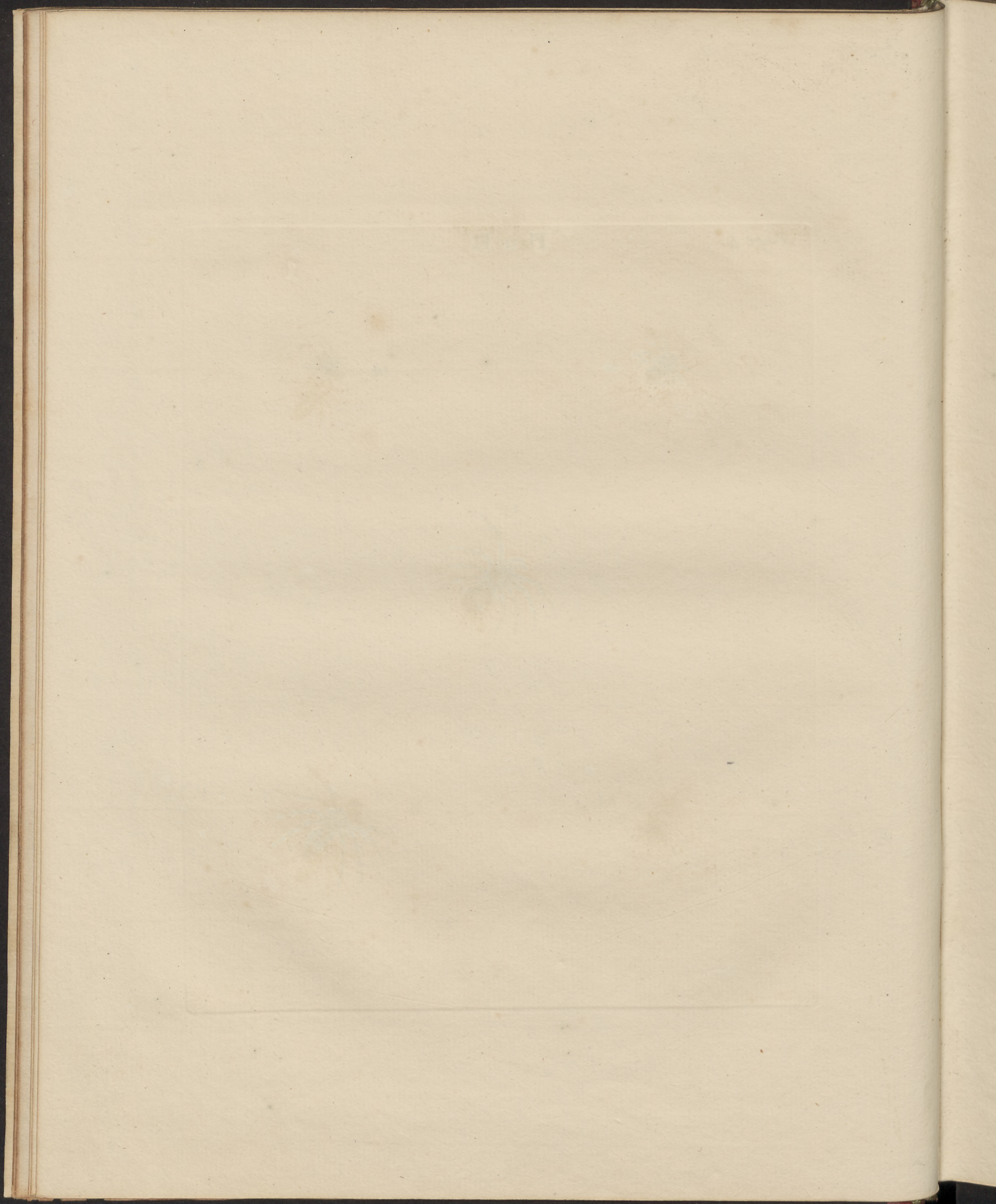






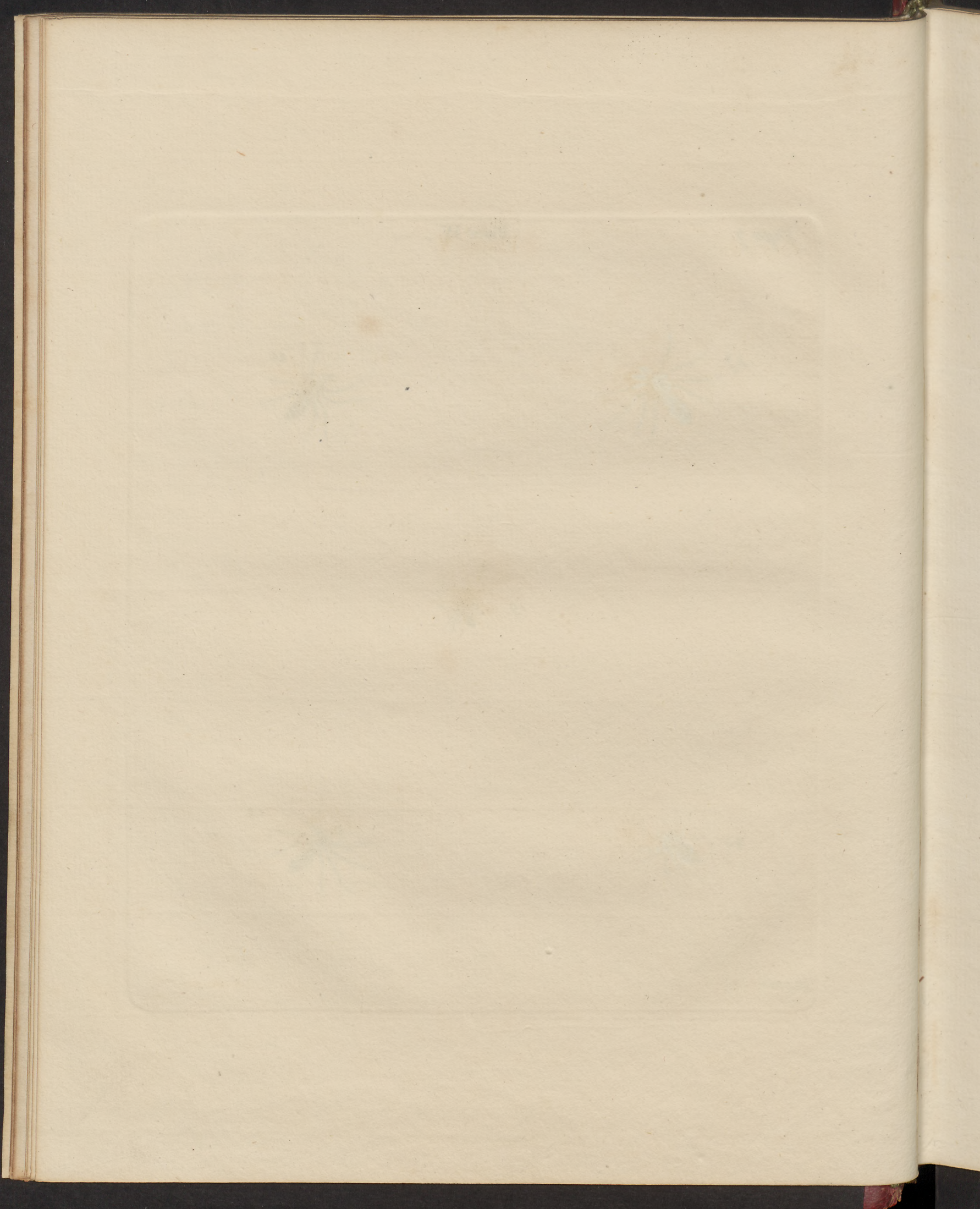




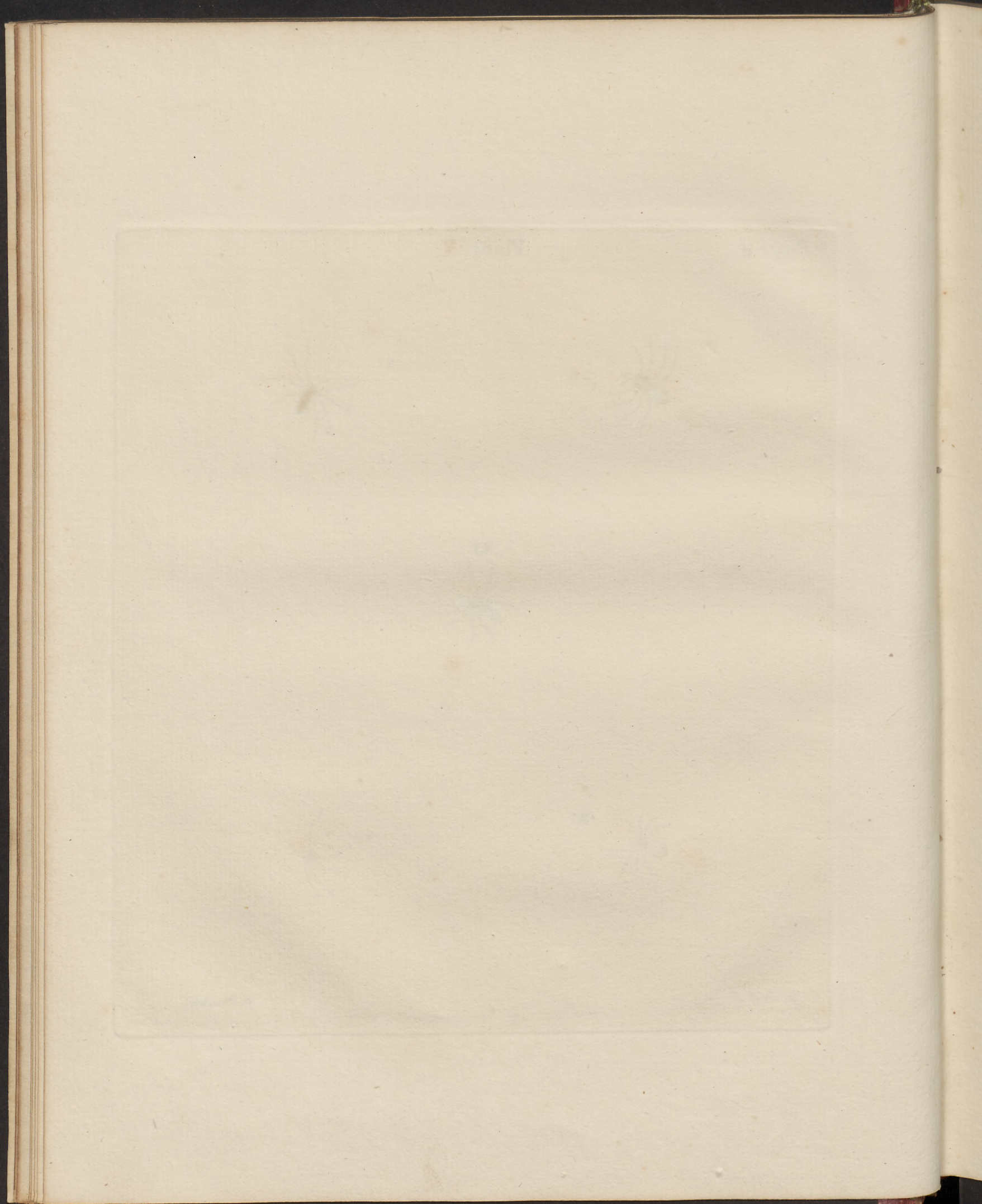




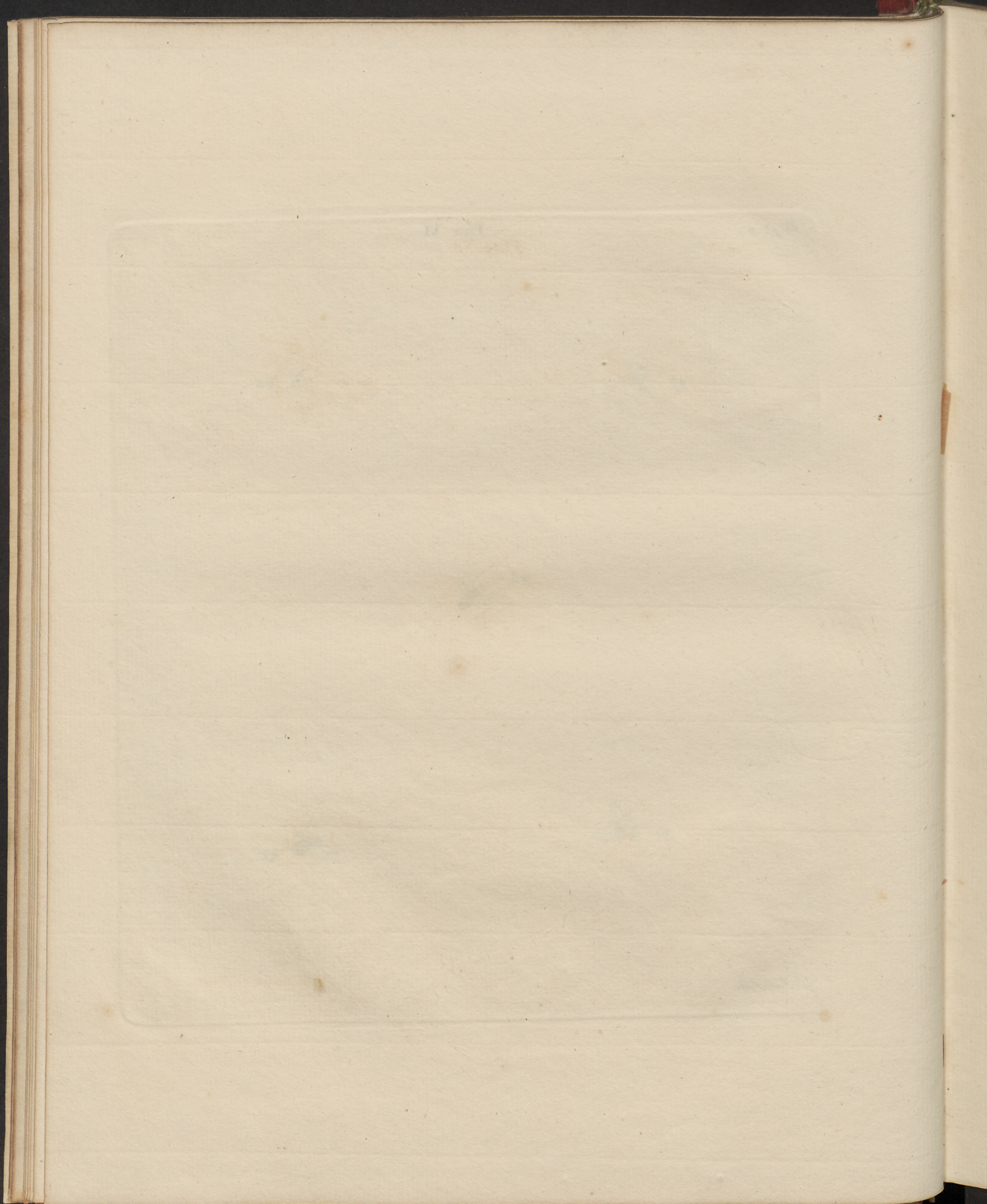
Jas. Smith Sculp.









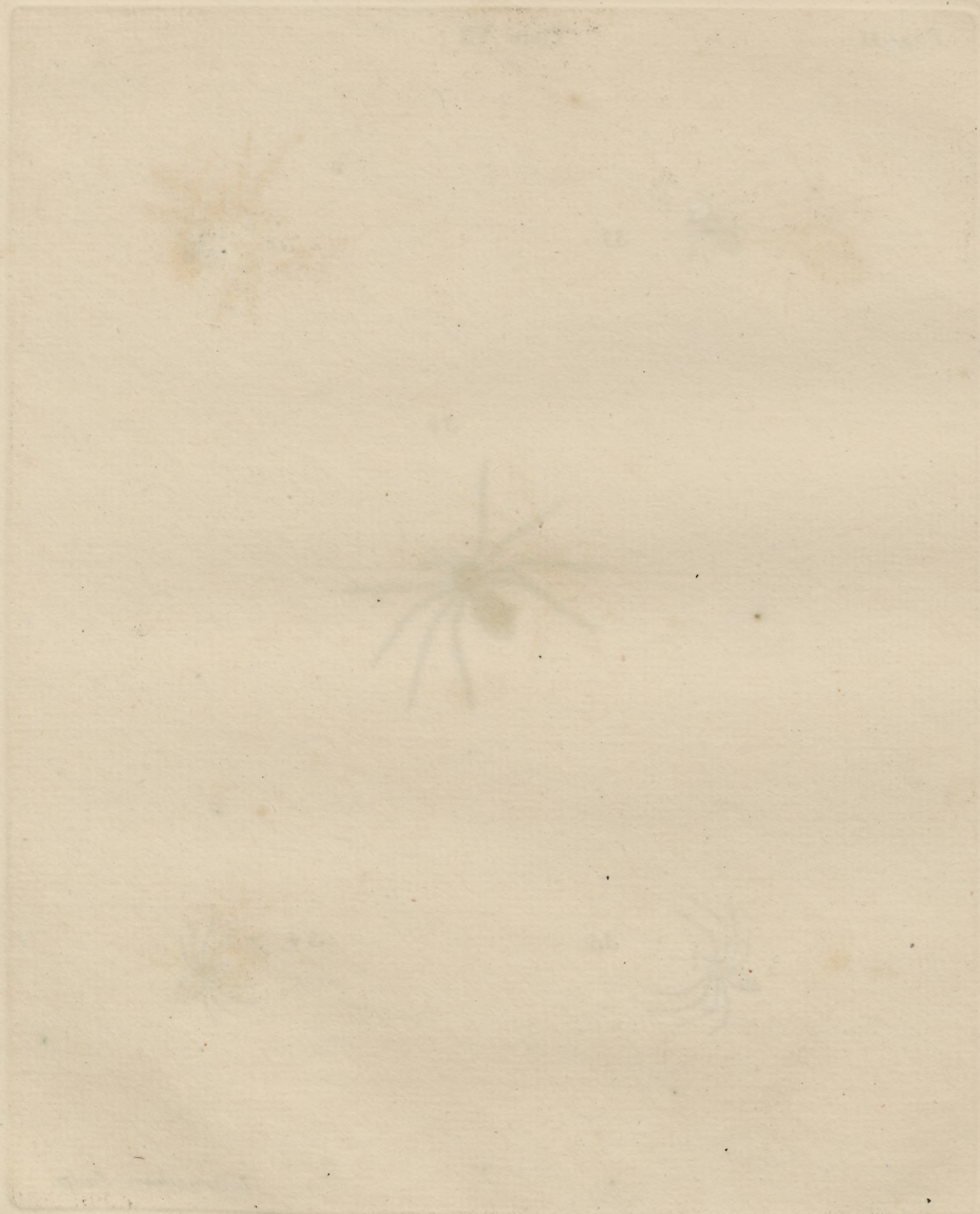




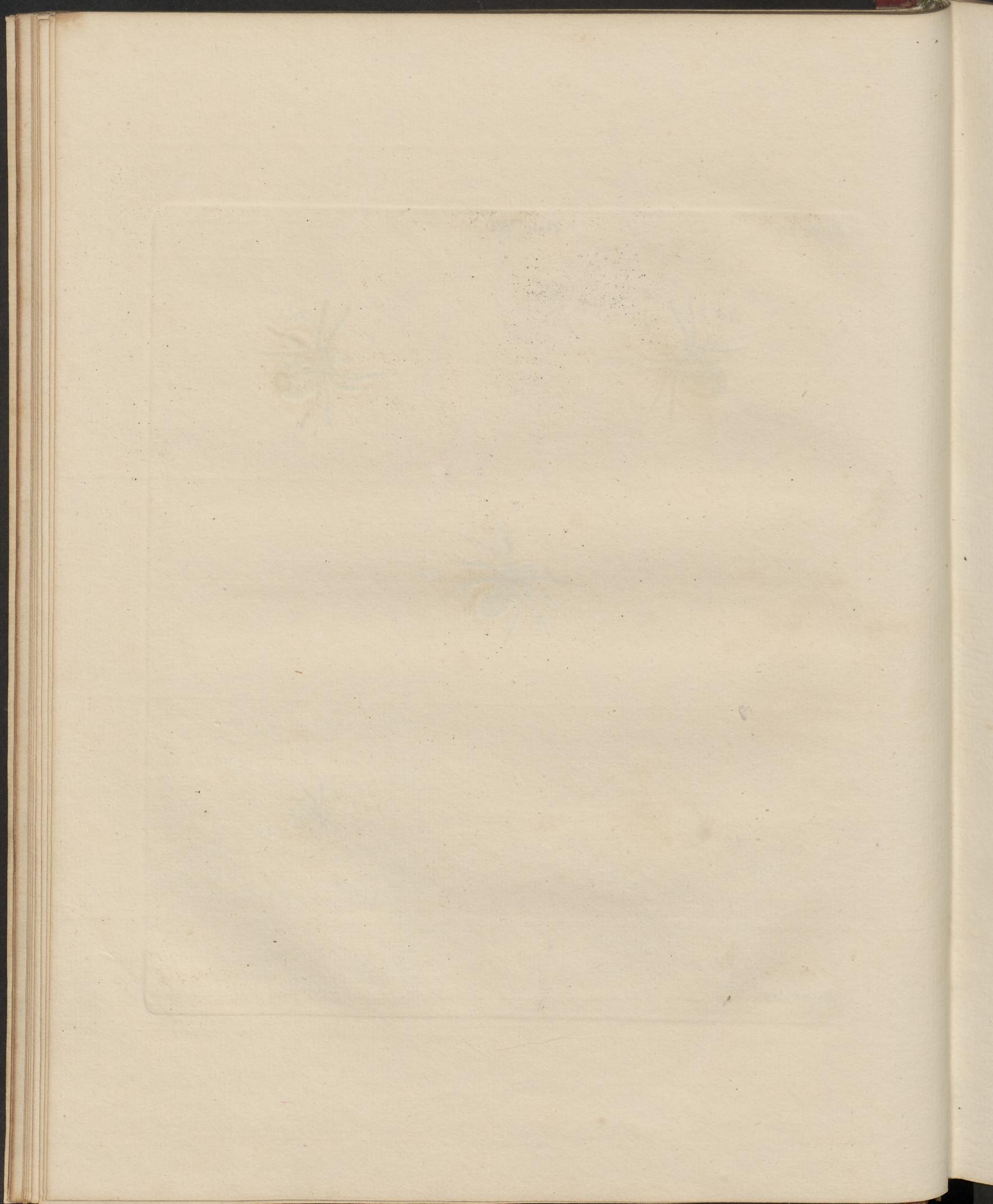
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I. Carnitham Sculp.









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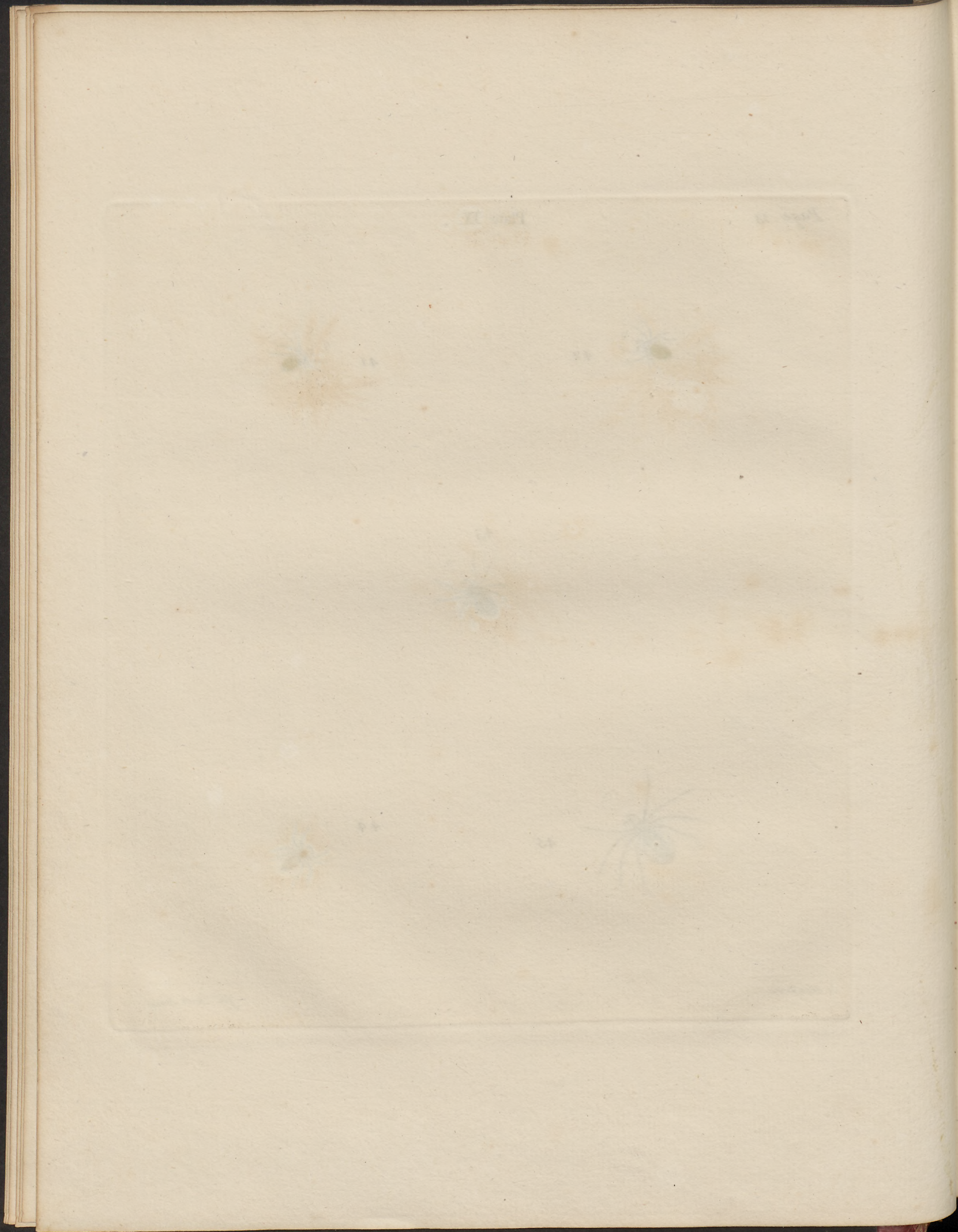
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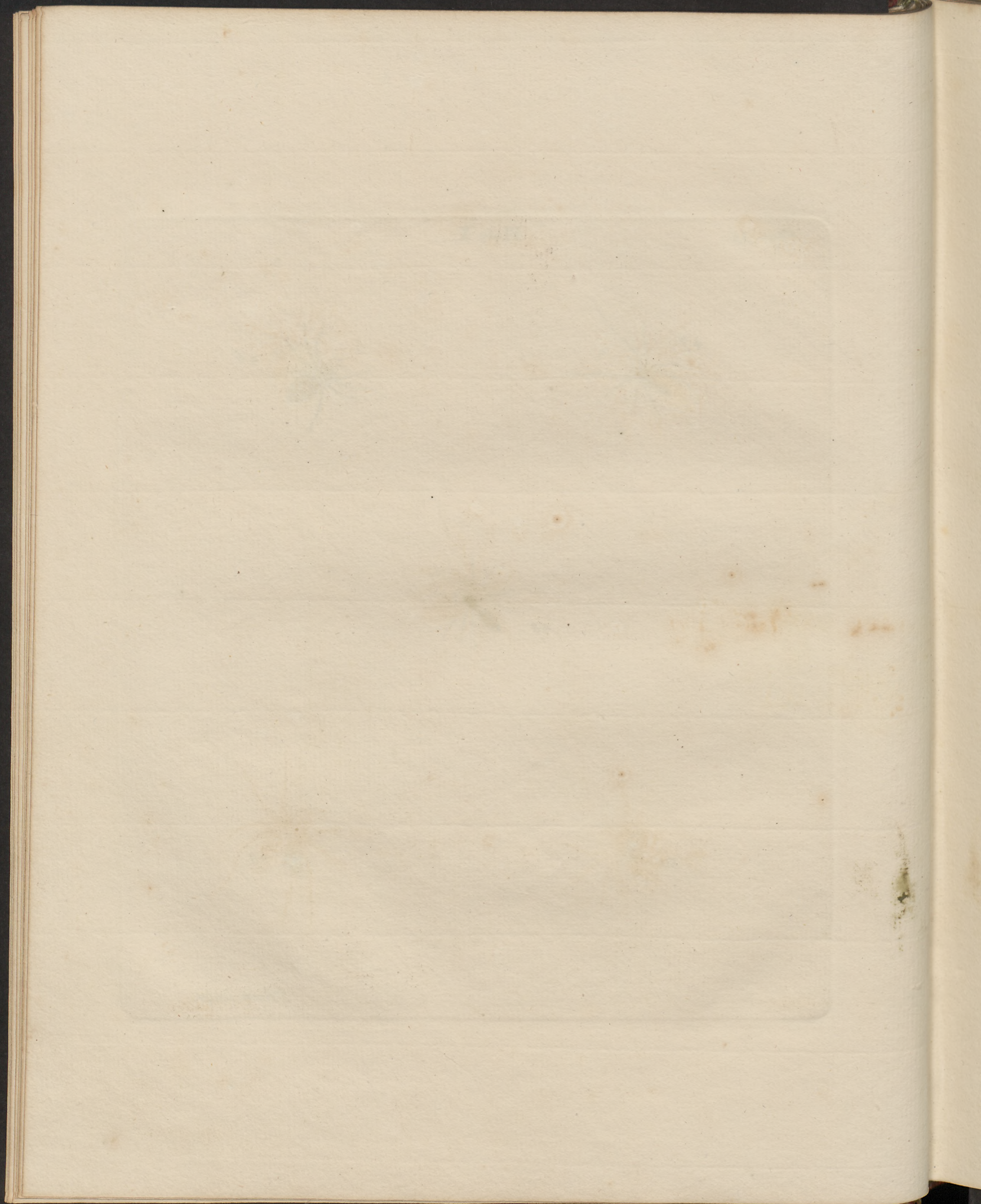
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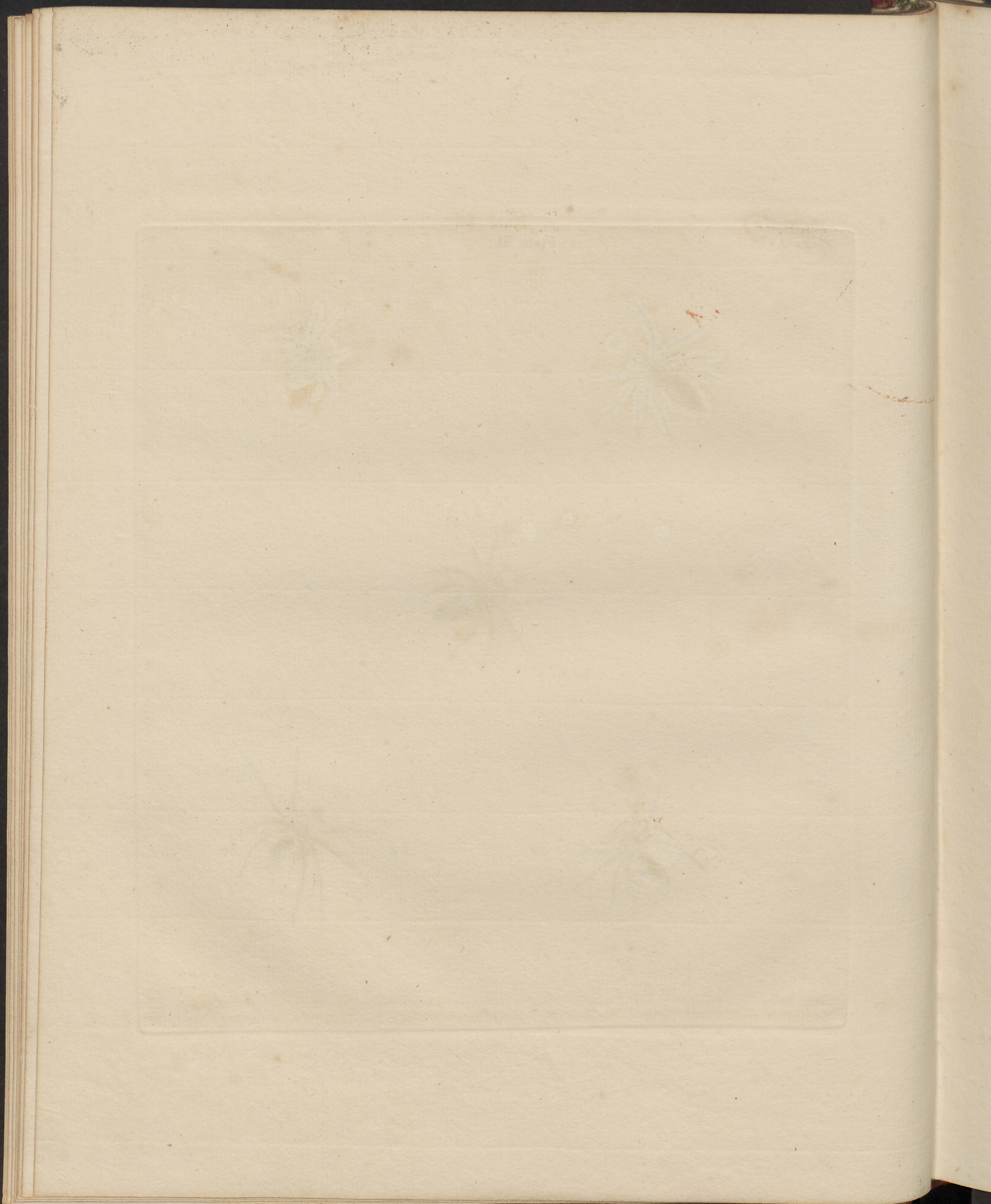
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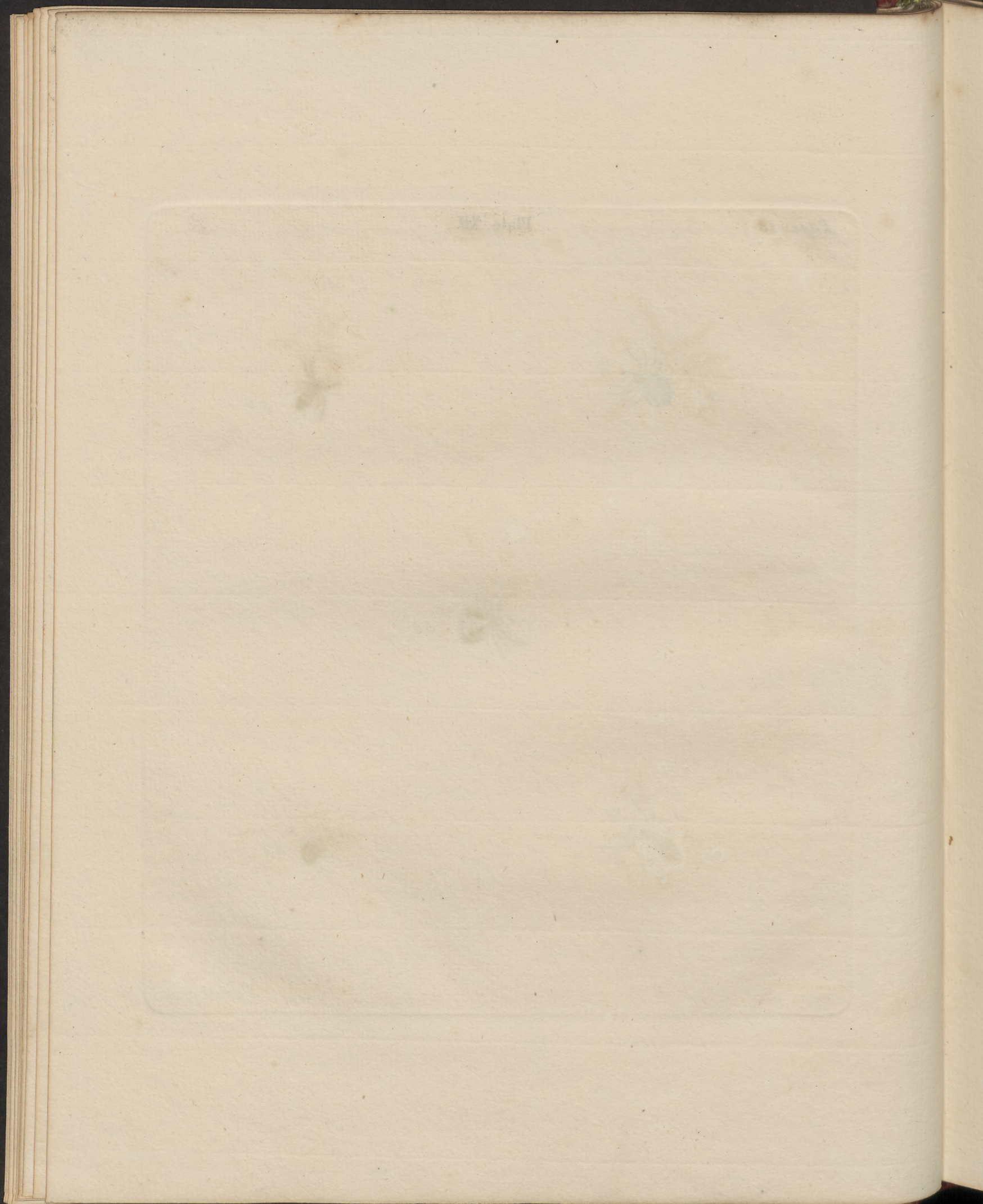
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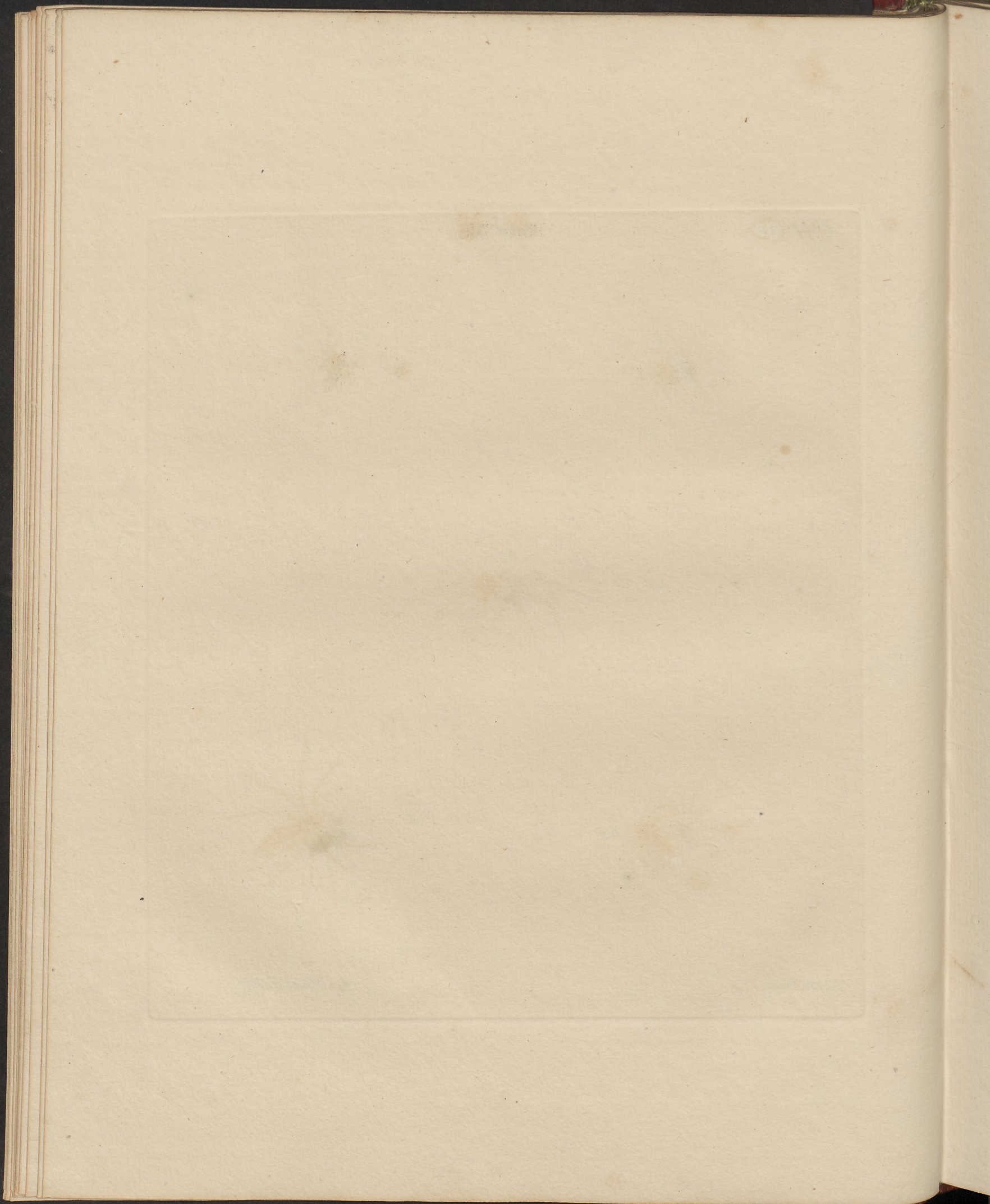
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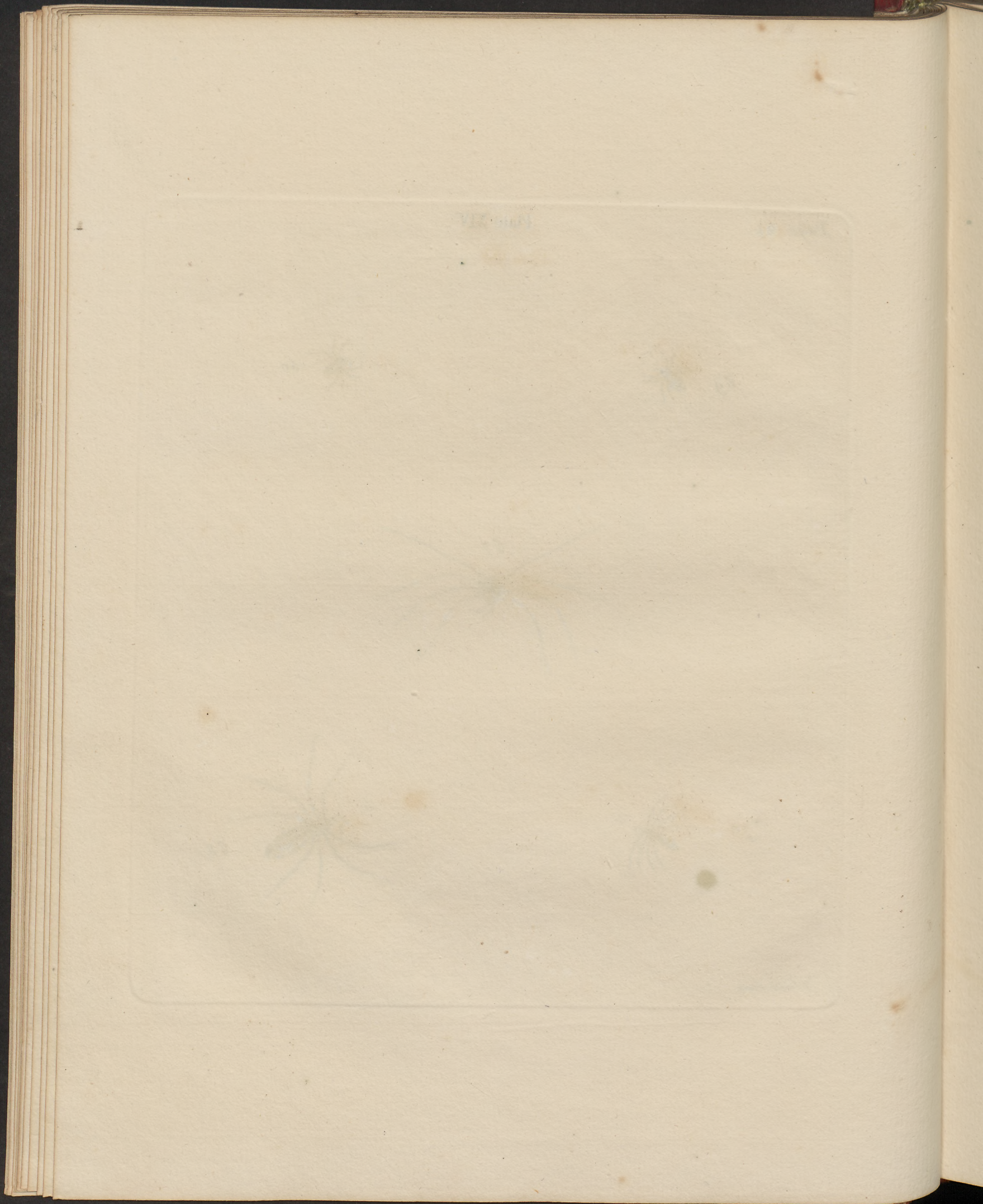
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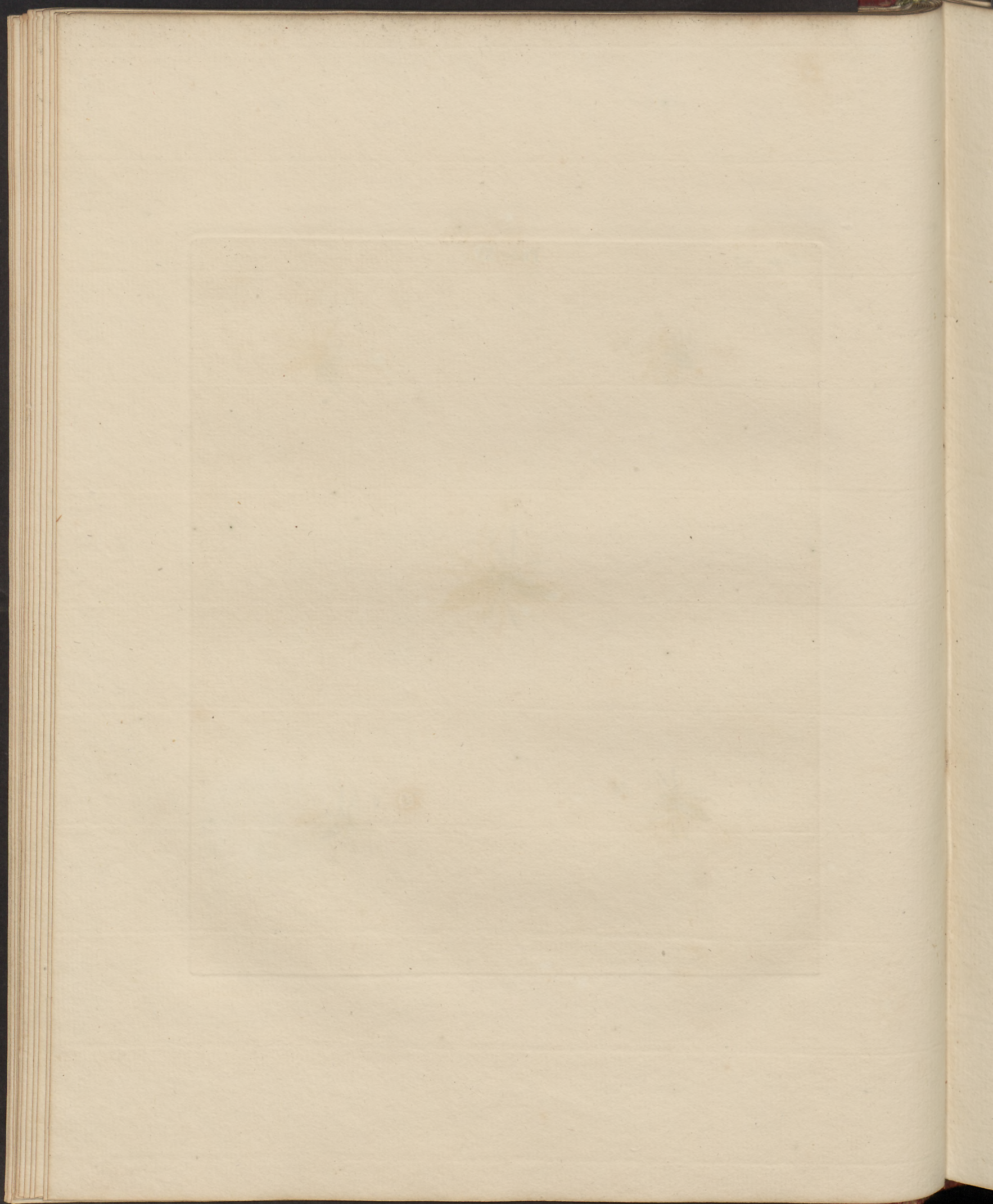
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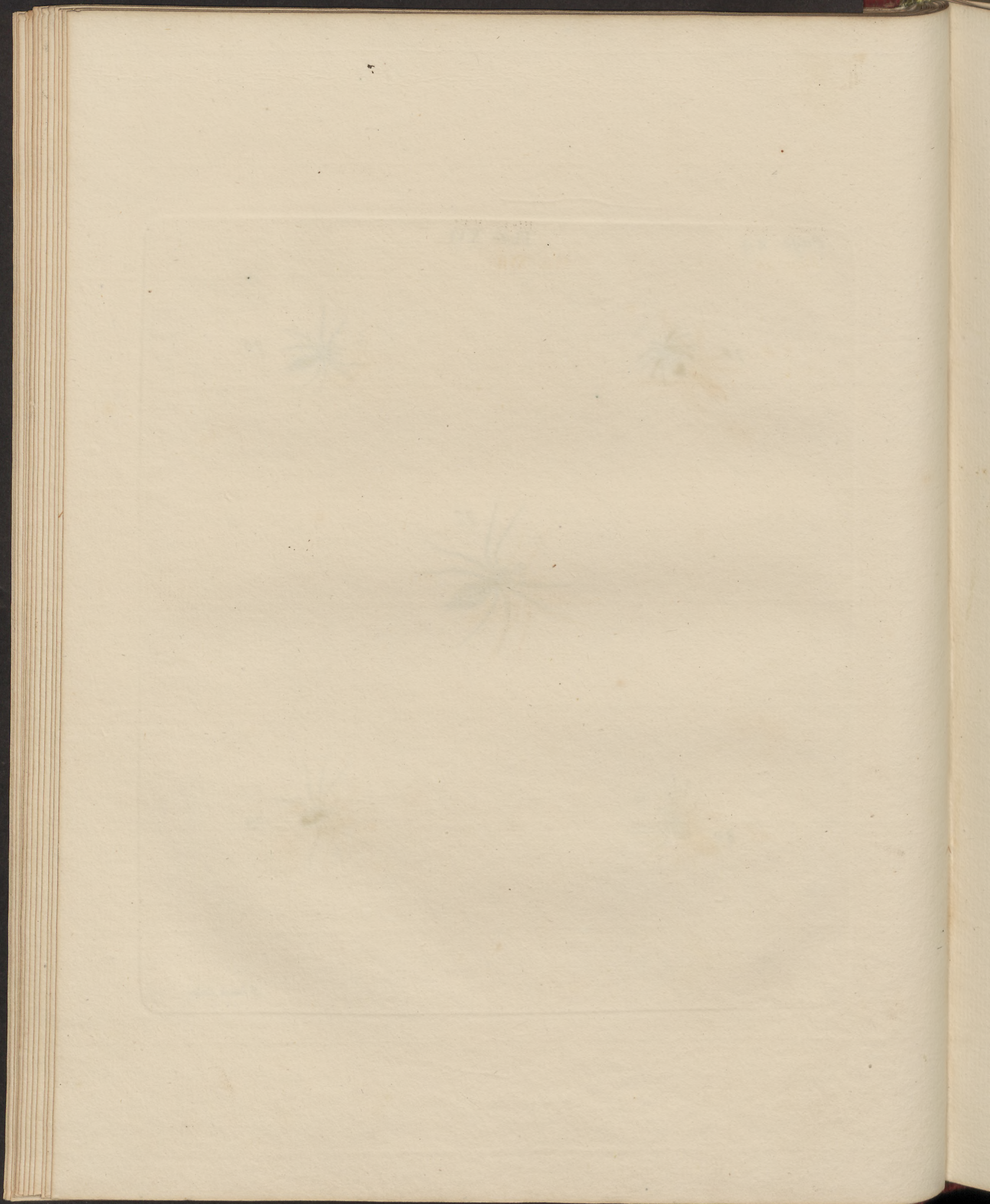




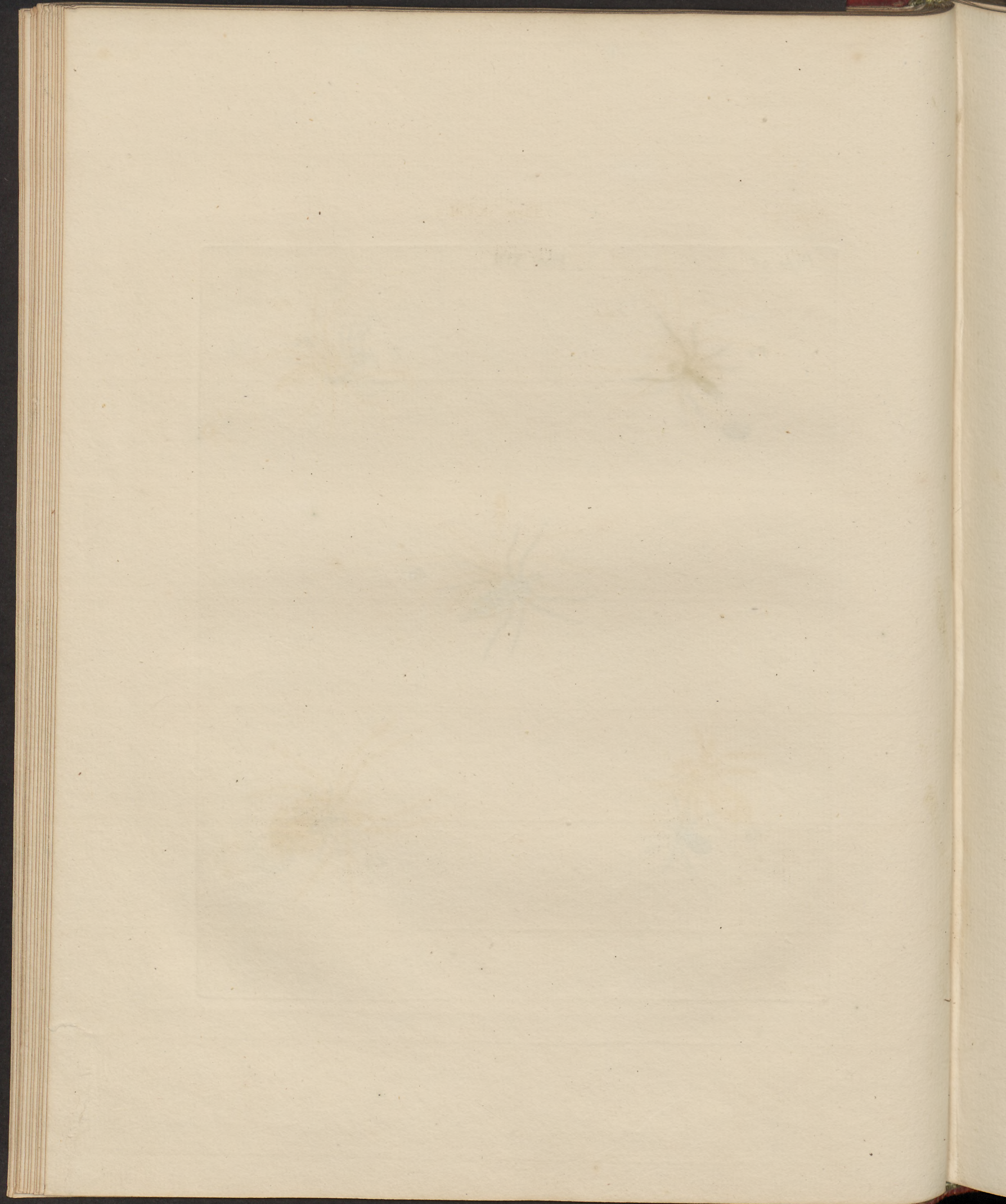




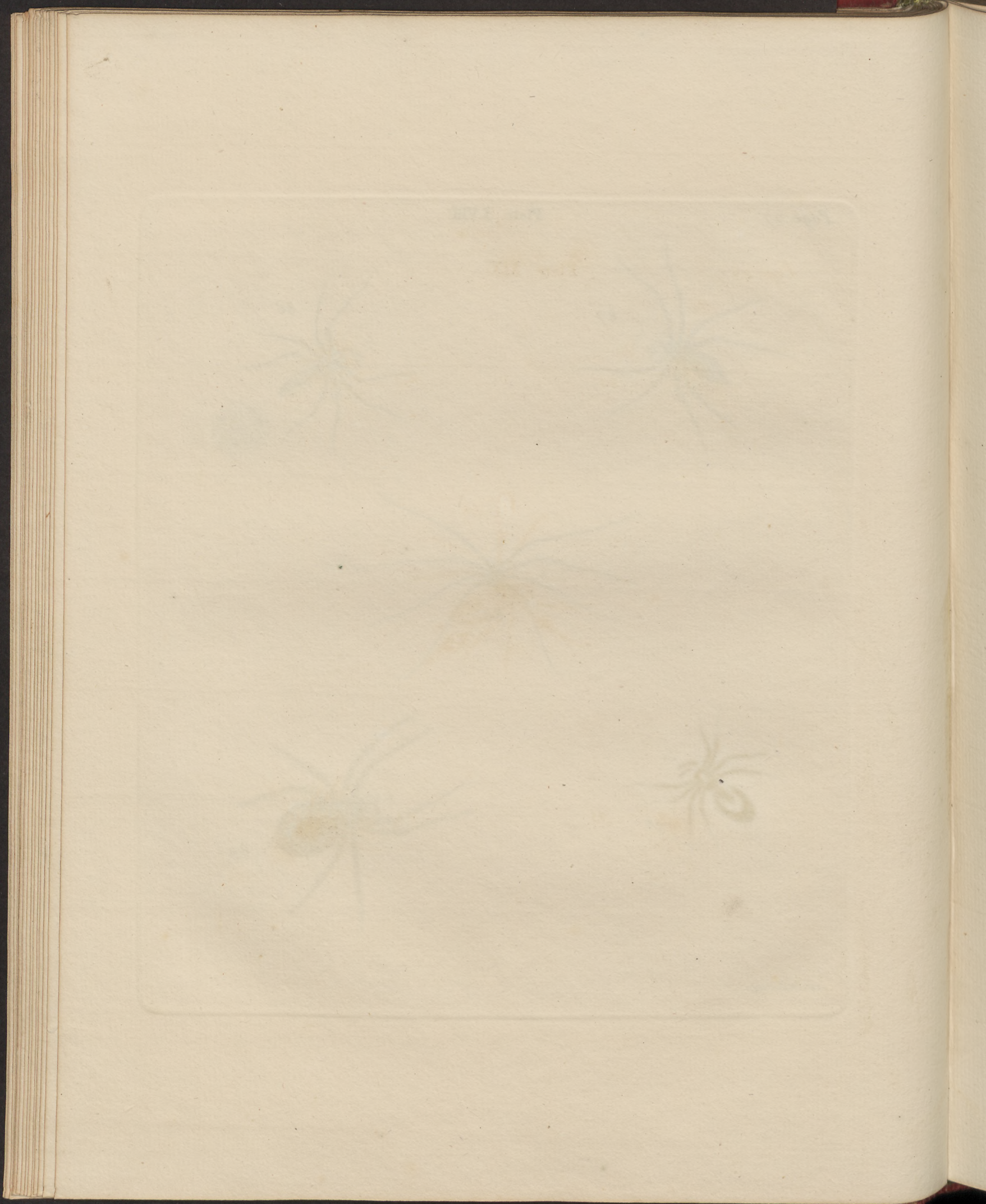














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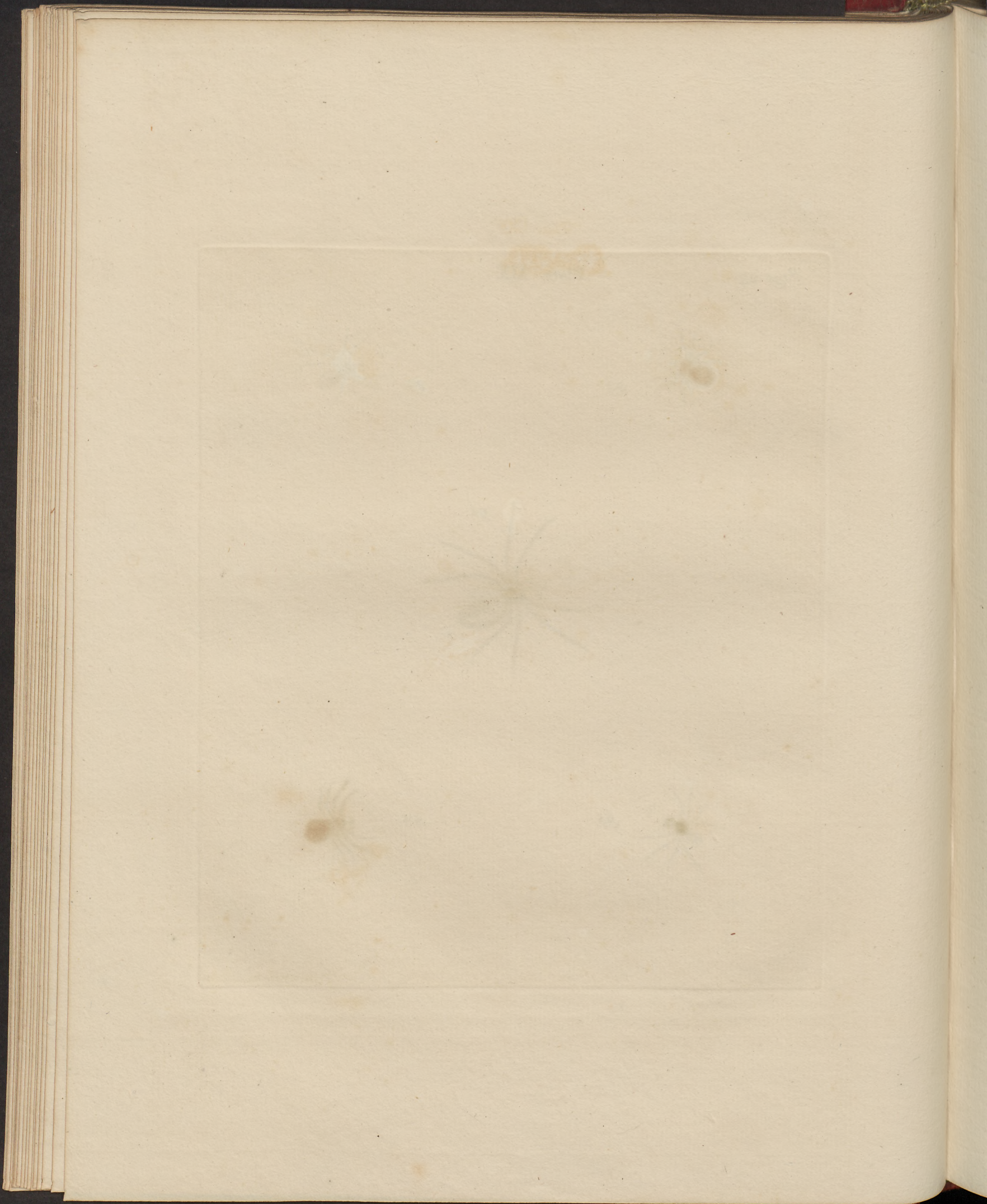
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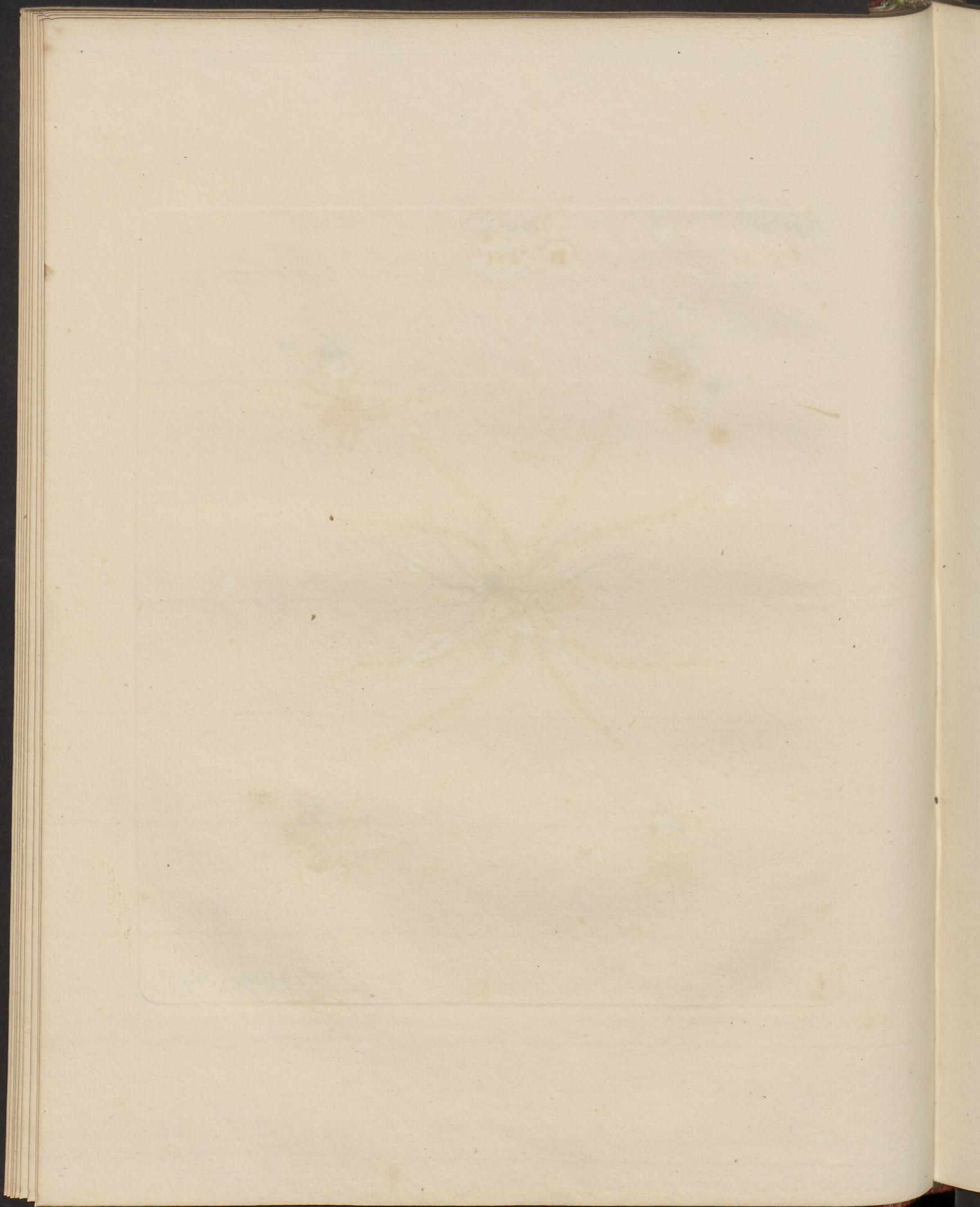


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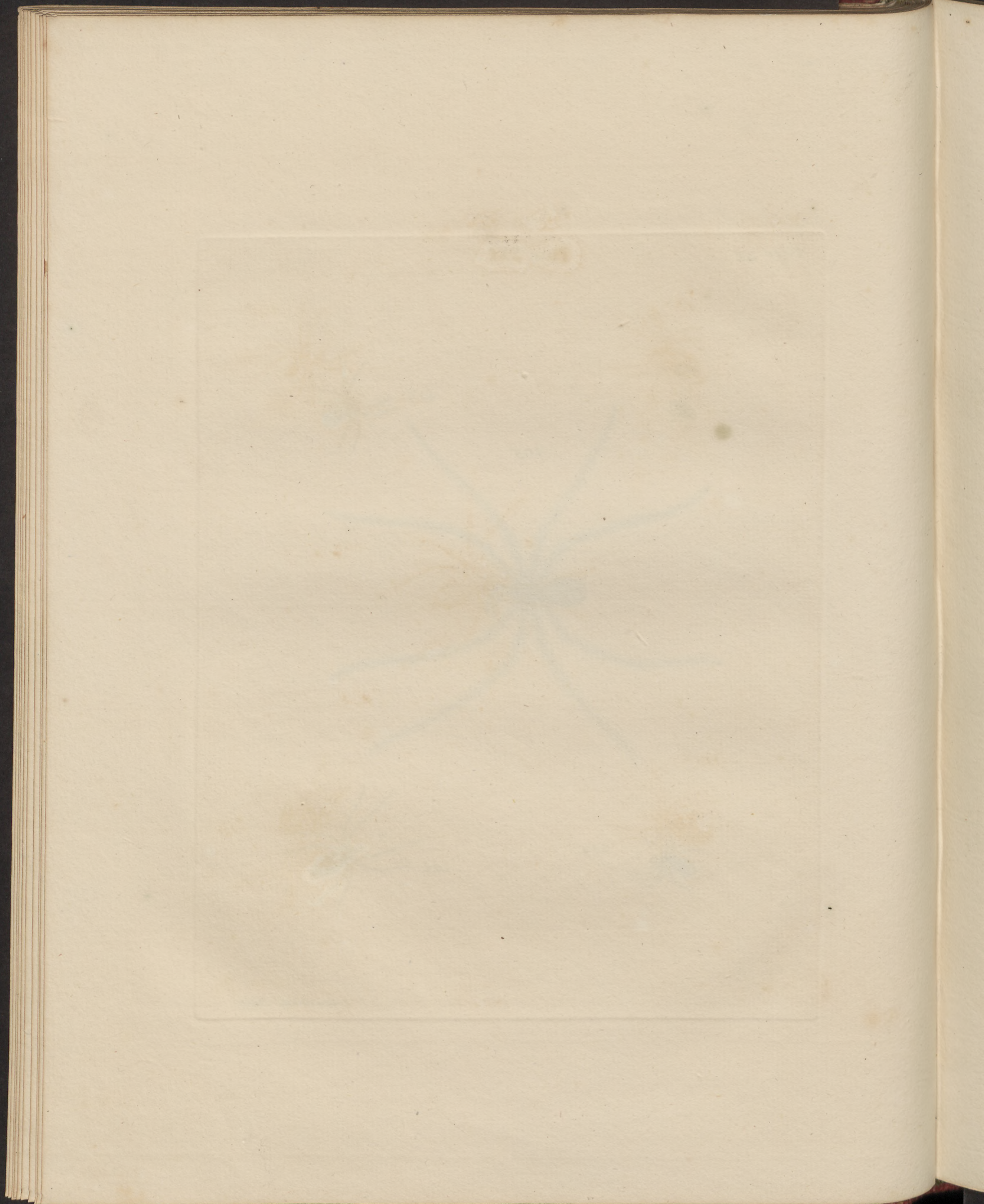


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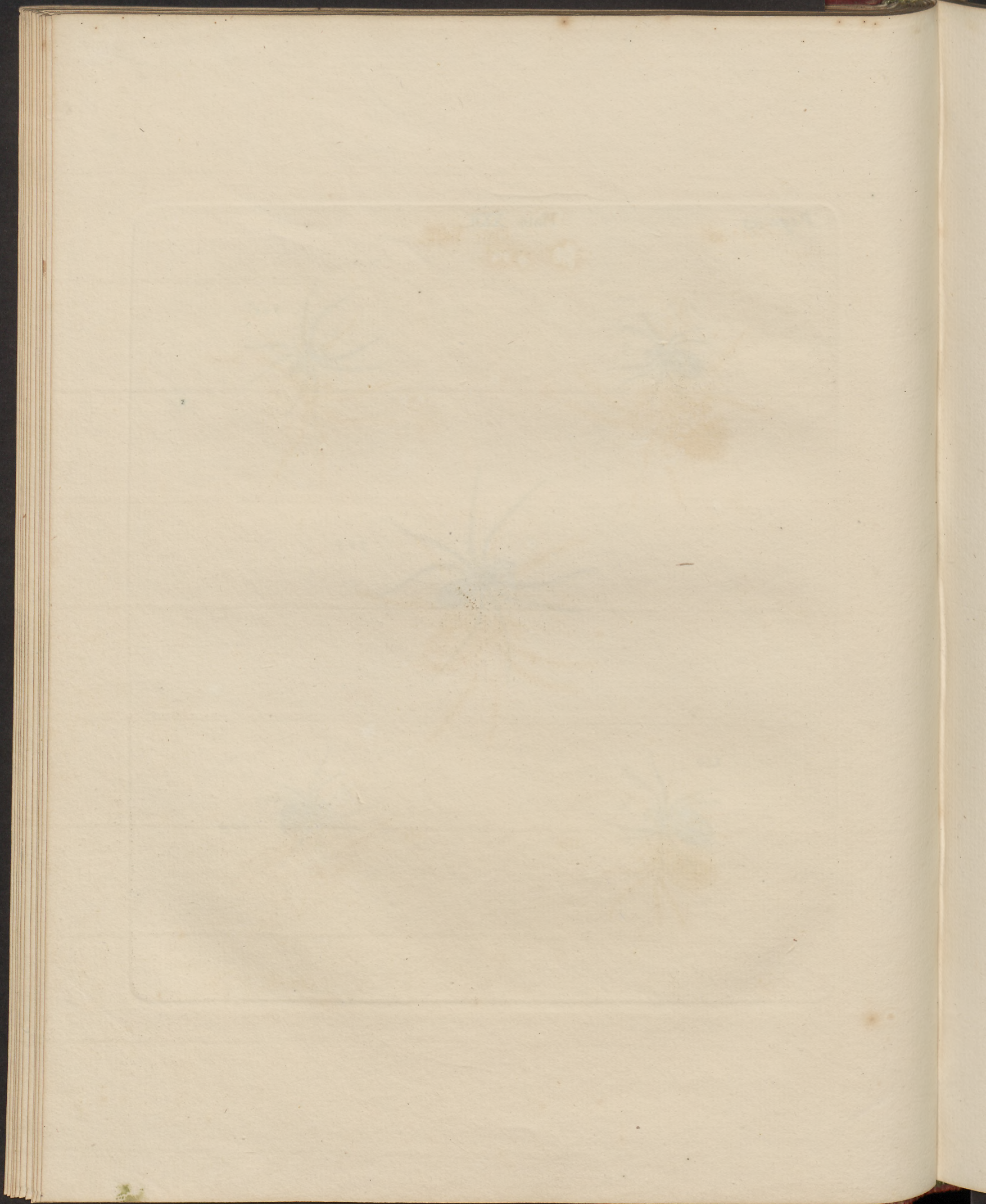




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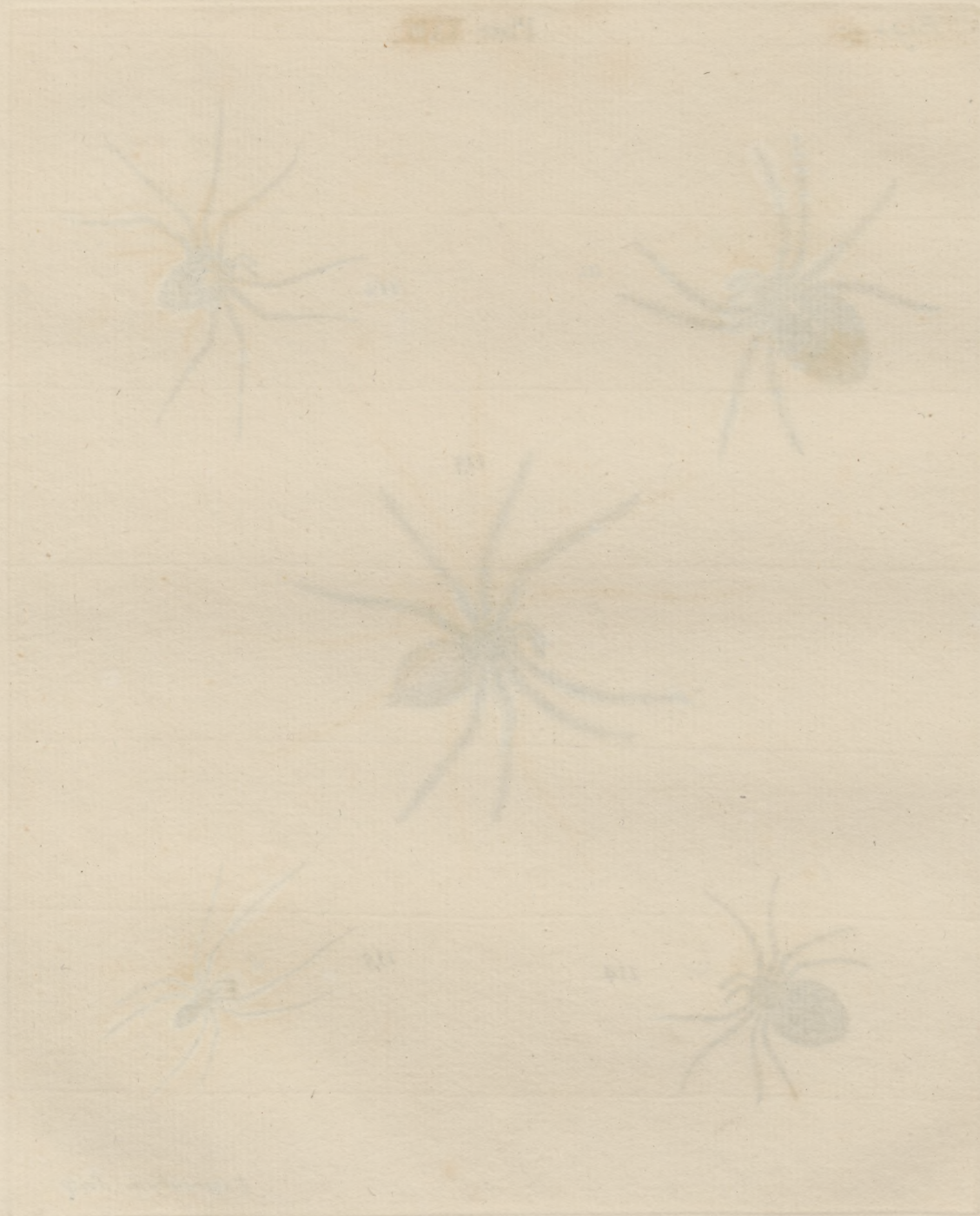


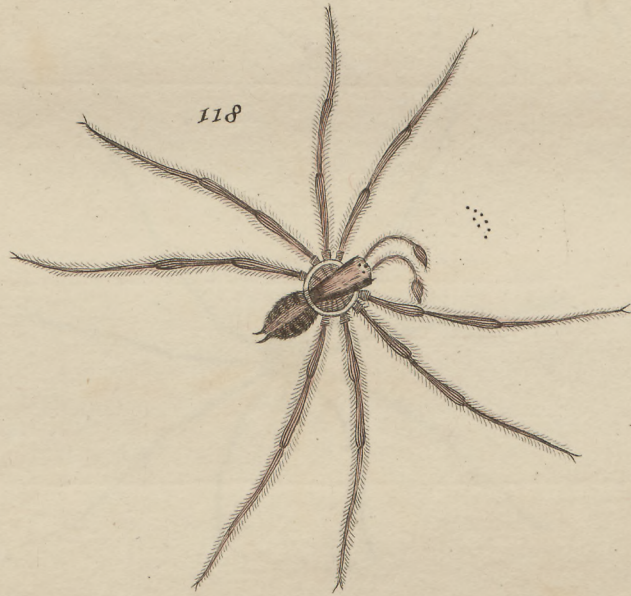


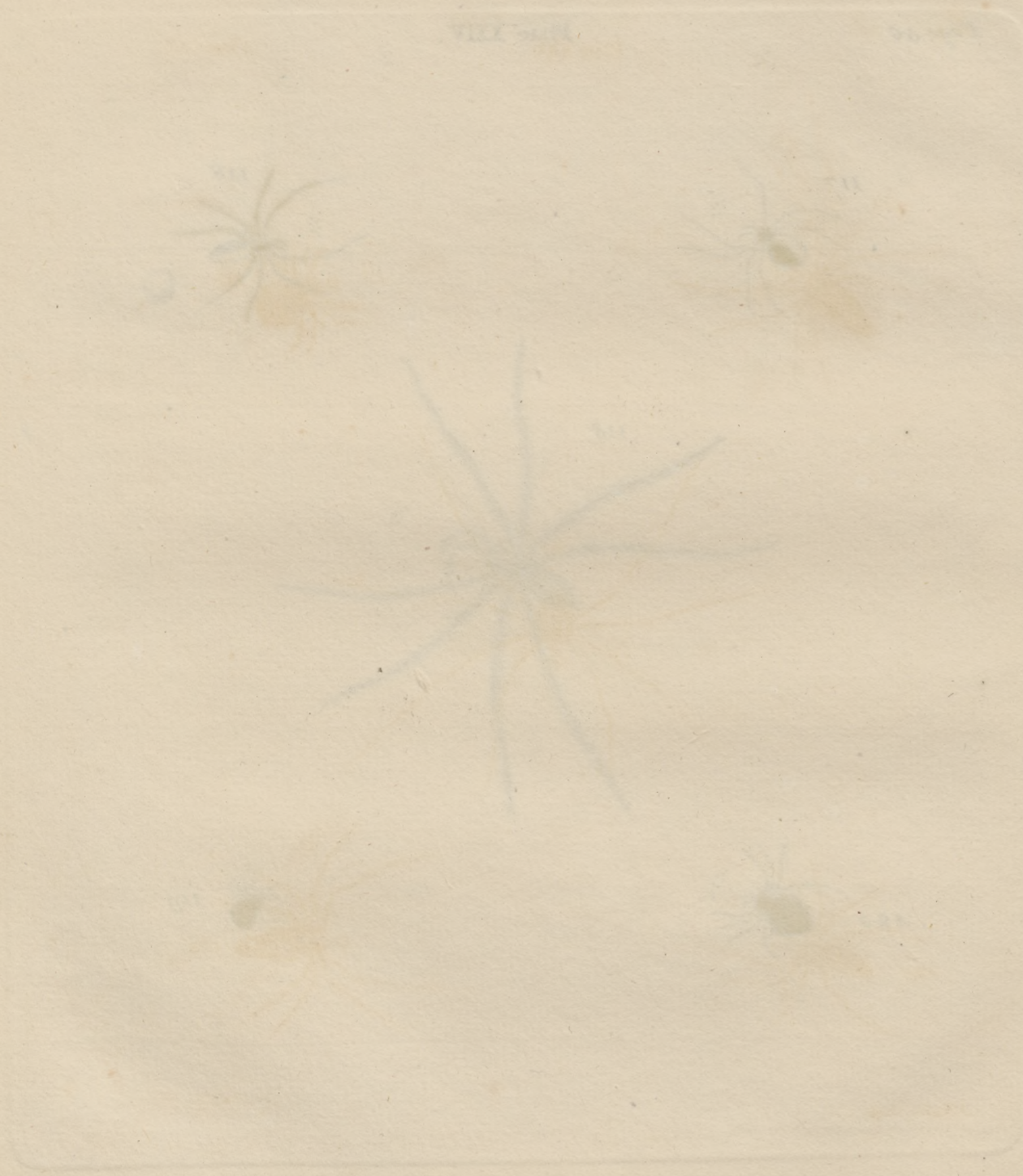


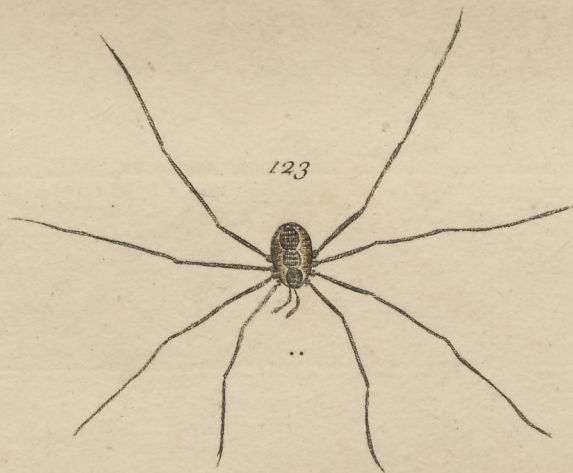


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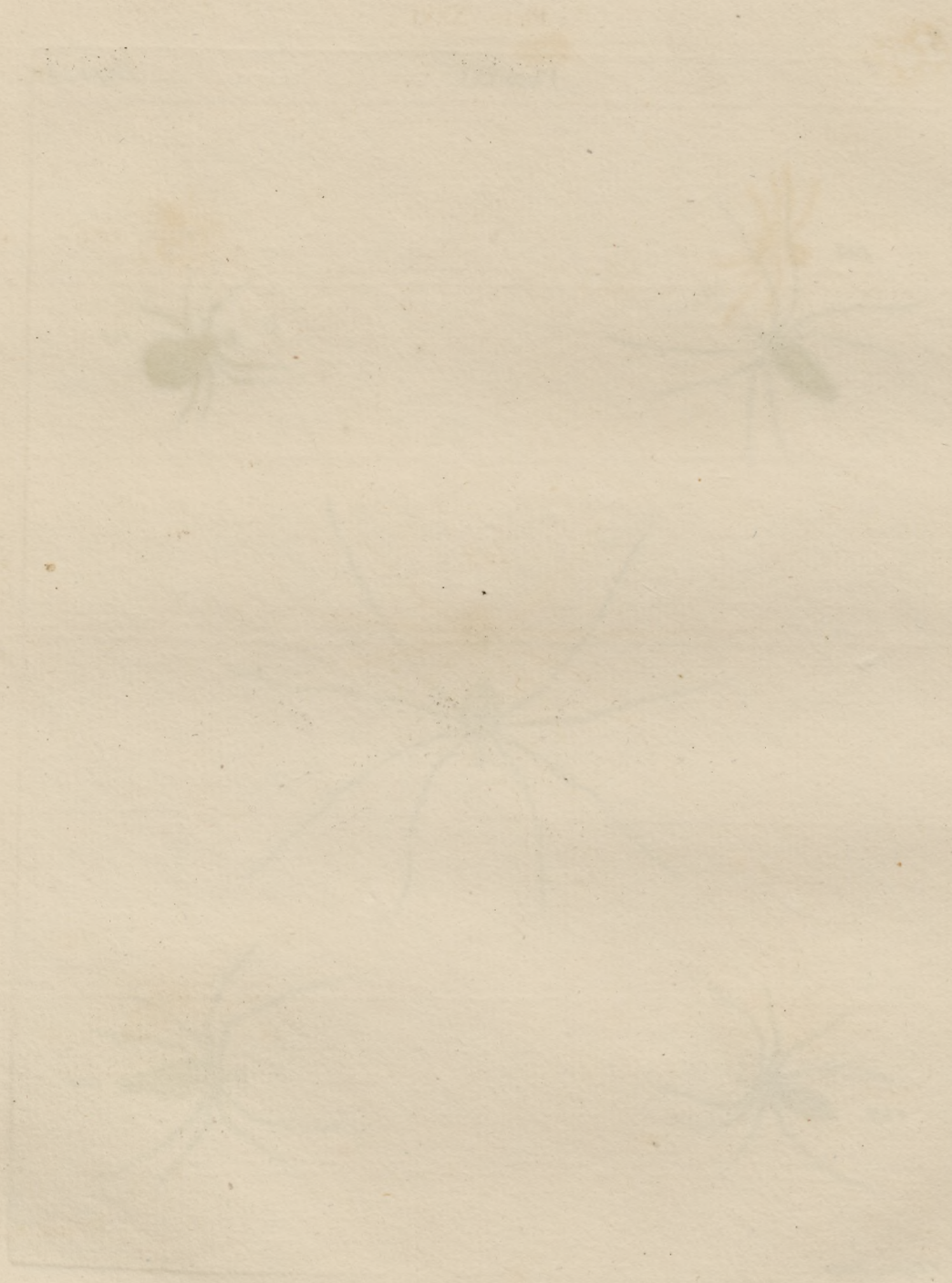


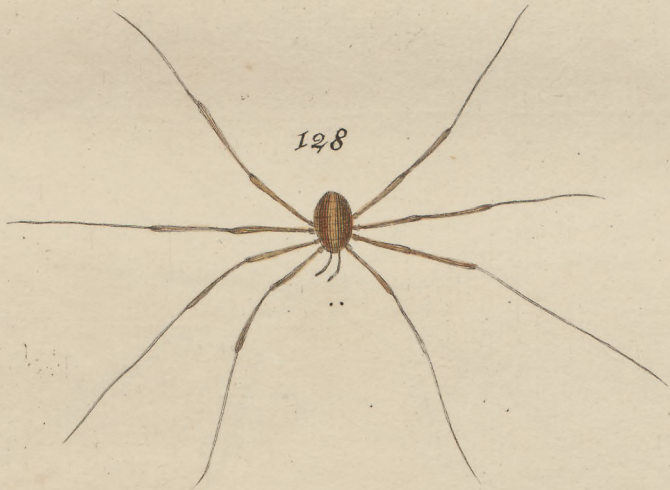




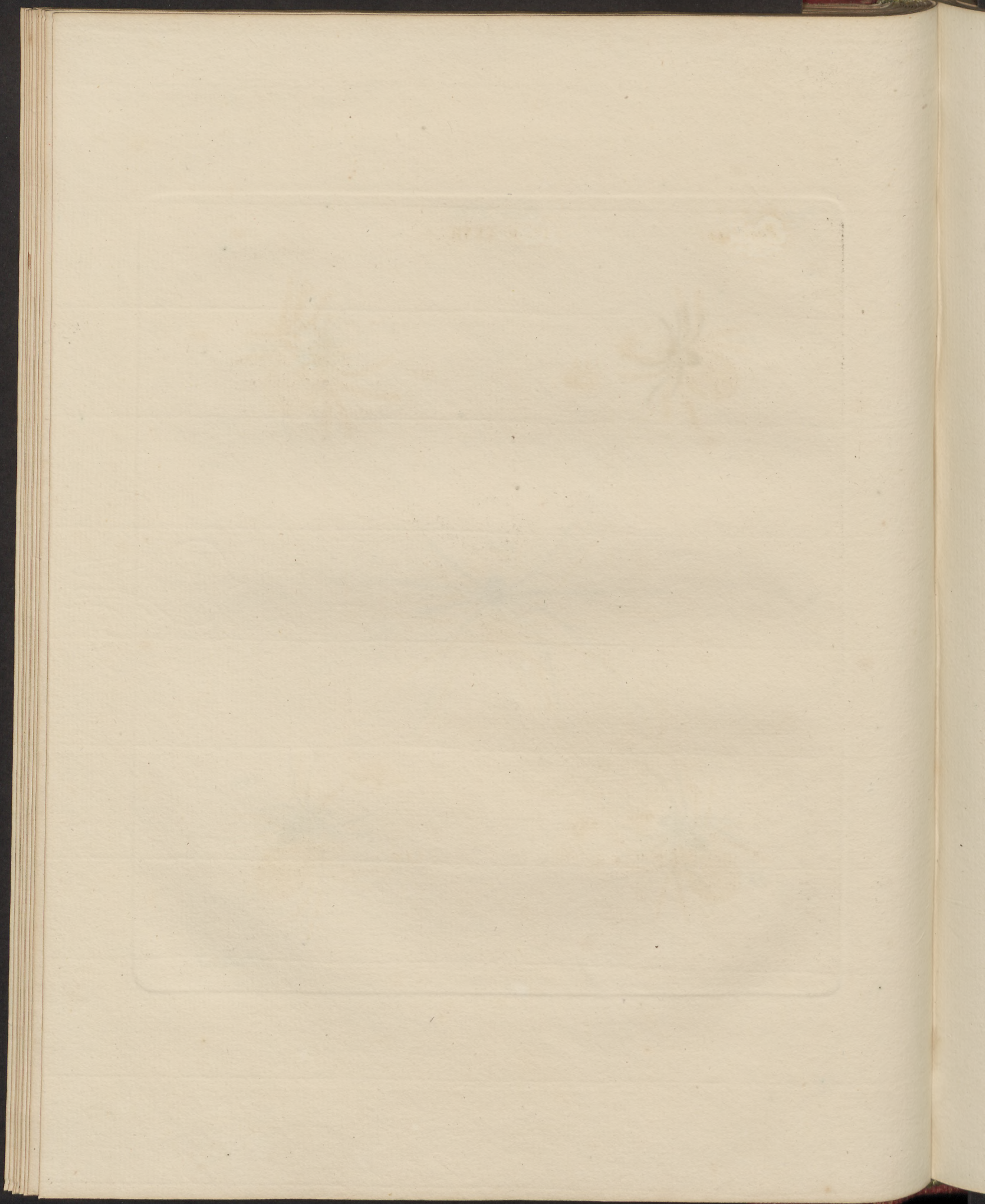


J. Bafire sculp





J Smith scul

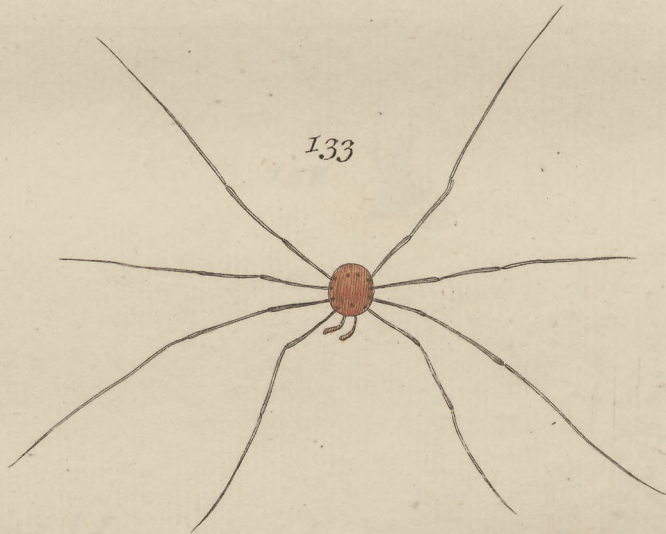




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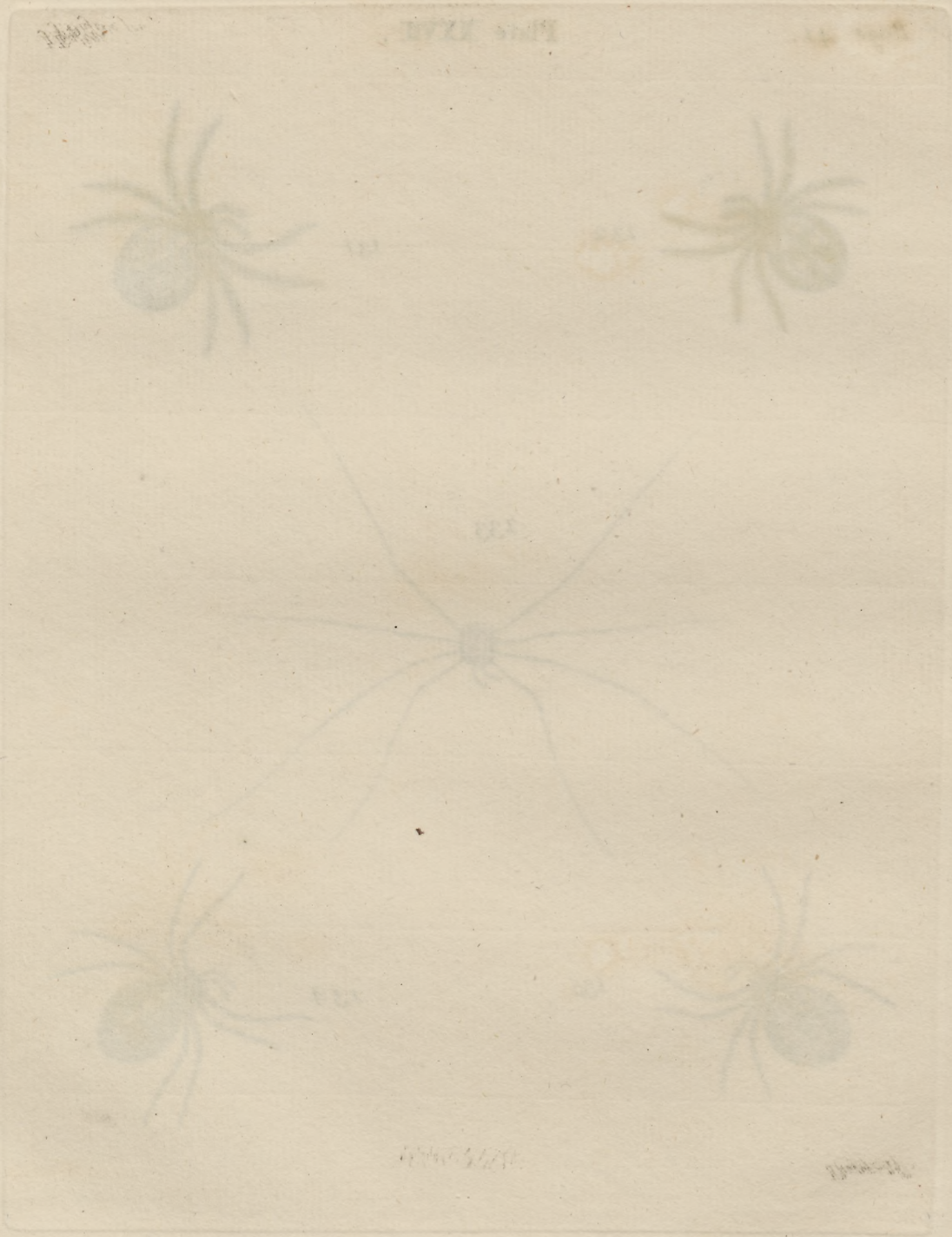
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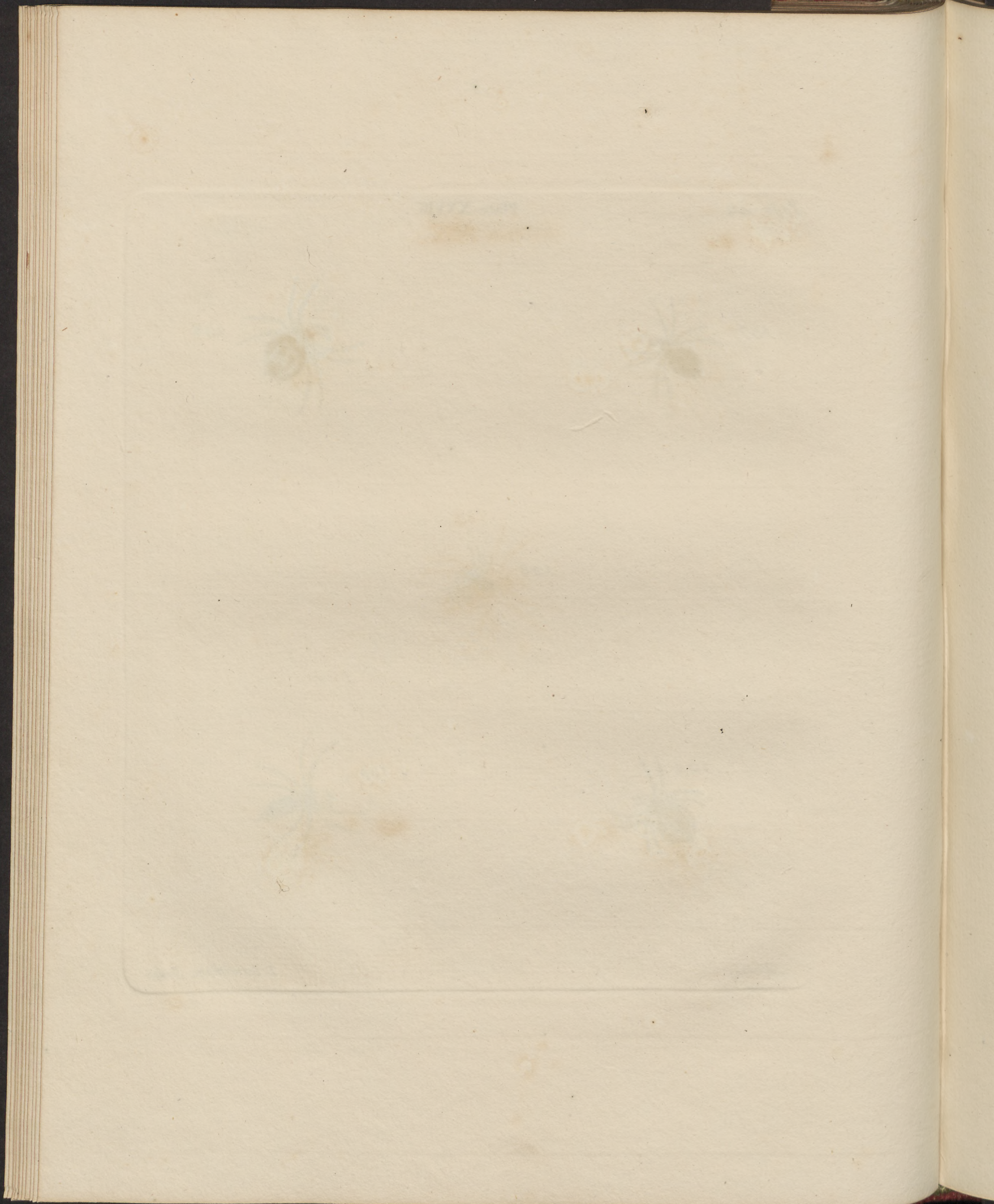


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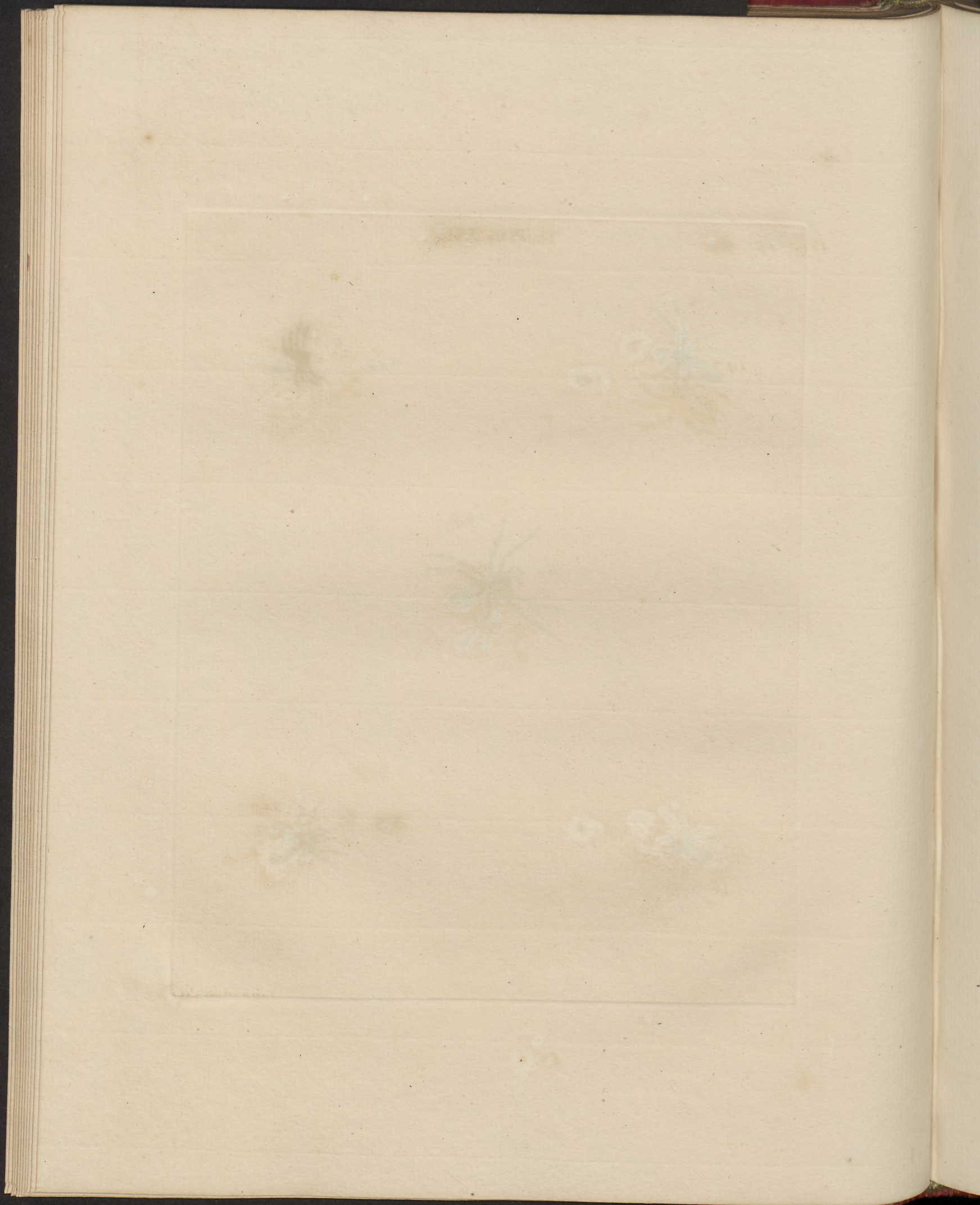




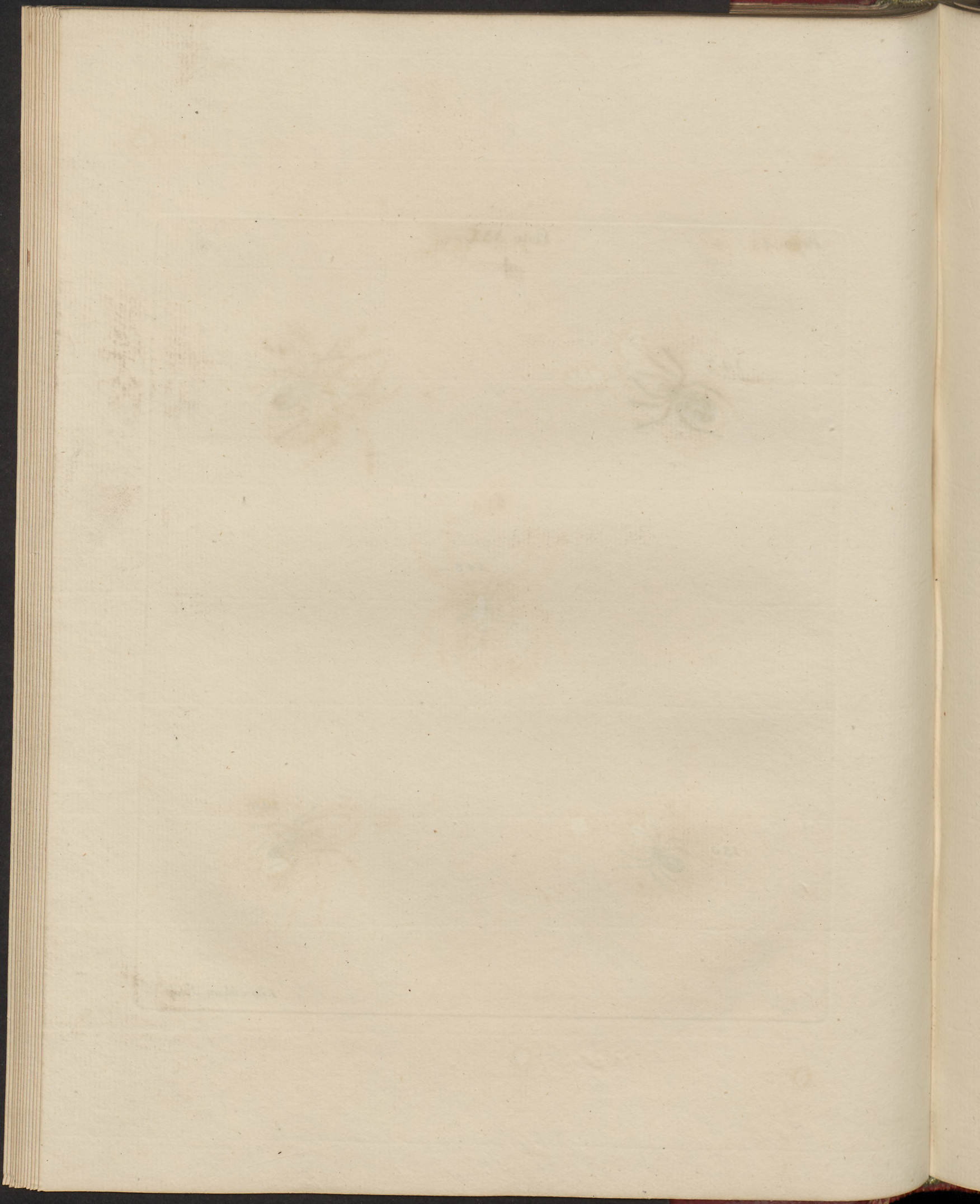
I. Carwitham Sculp.











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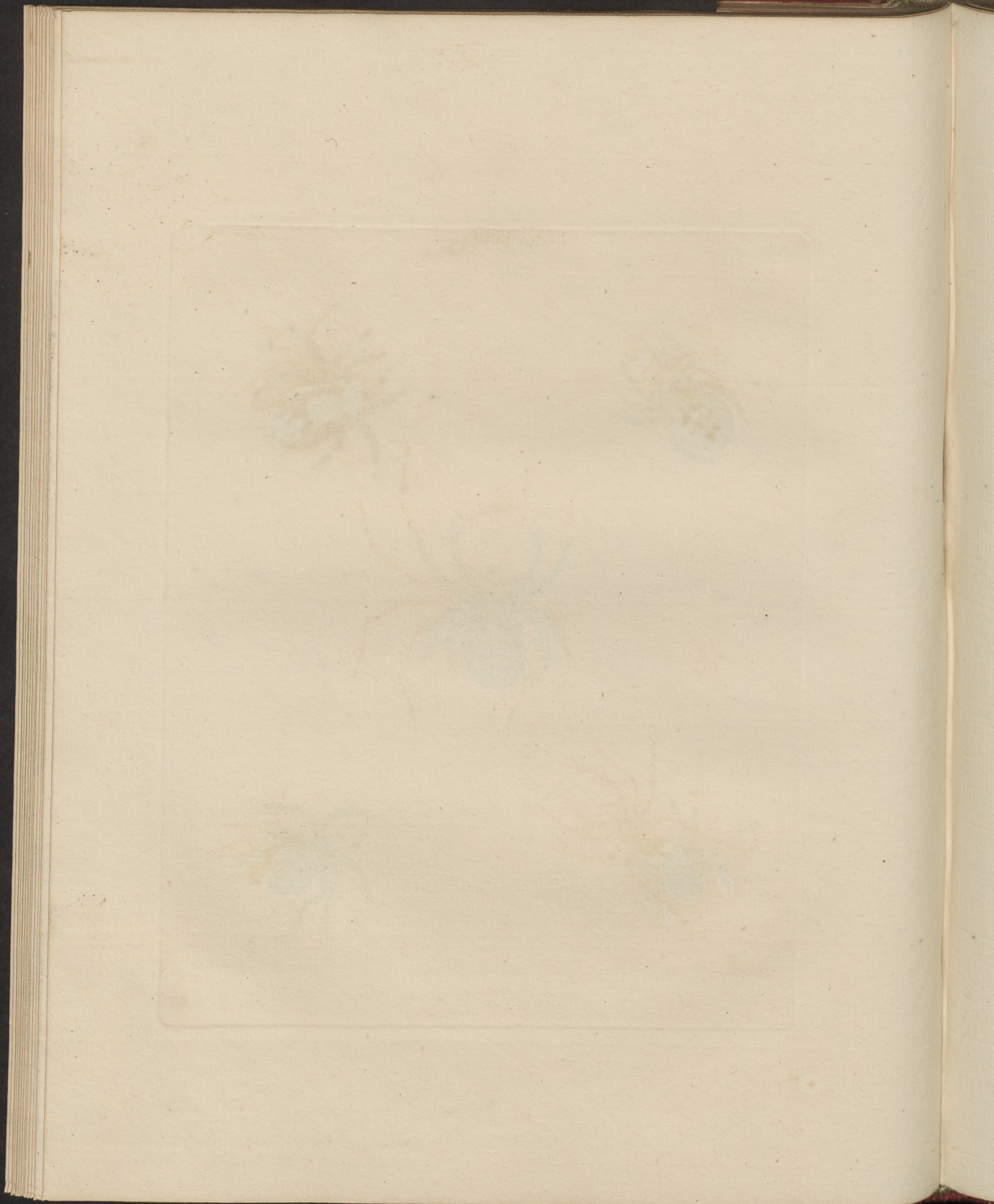


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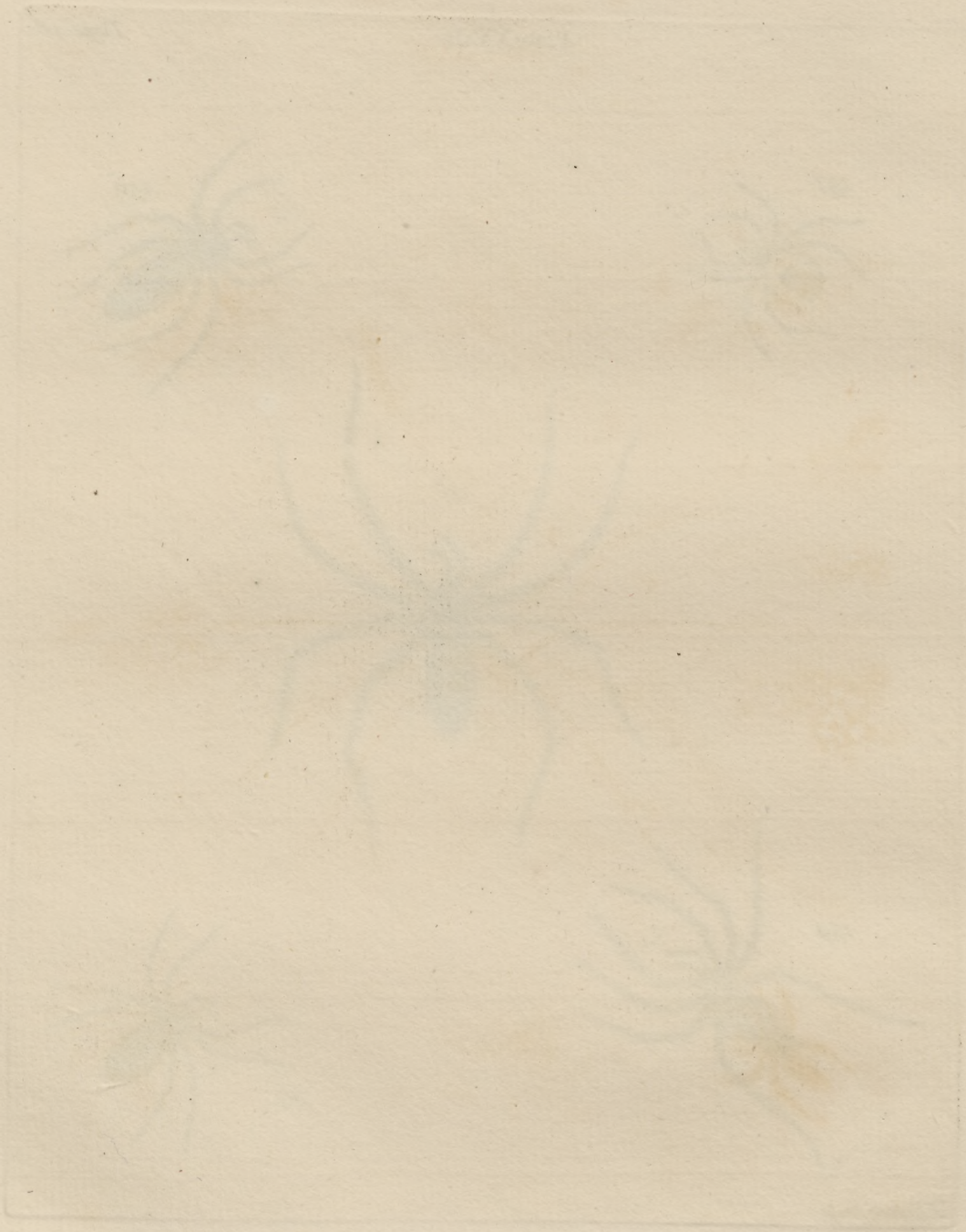
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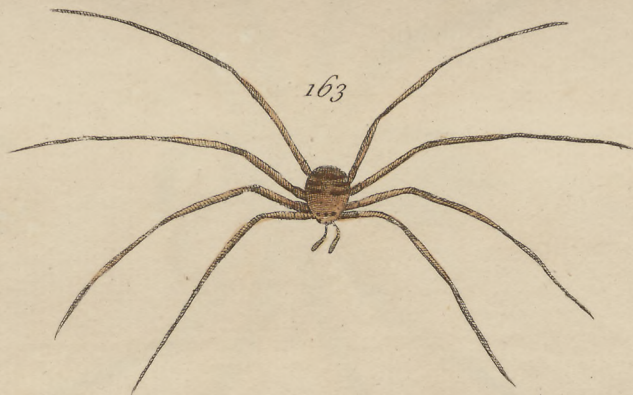




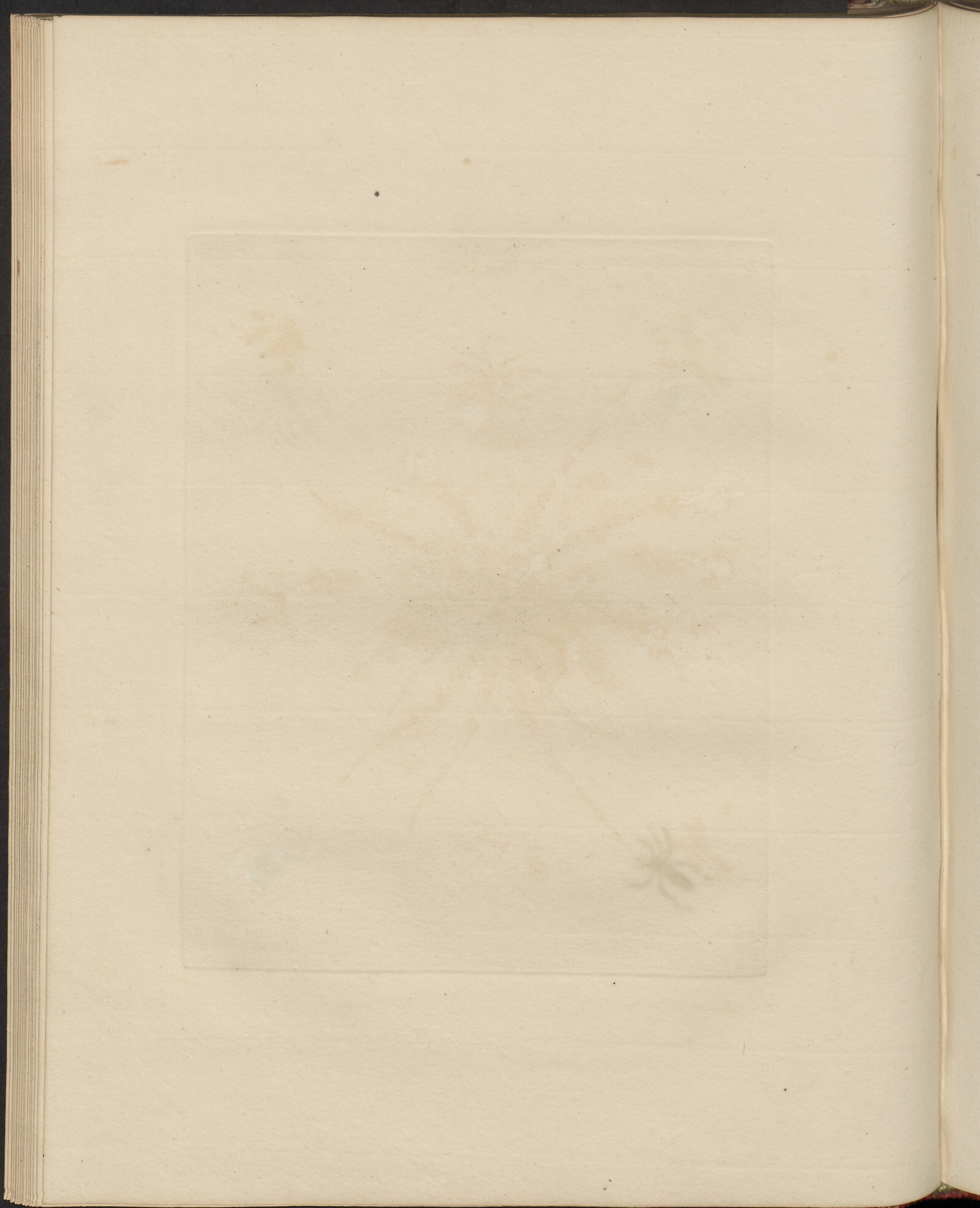


J. Bafire sculp





J. Bayre sculp





1777





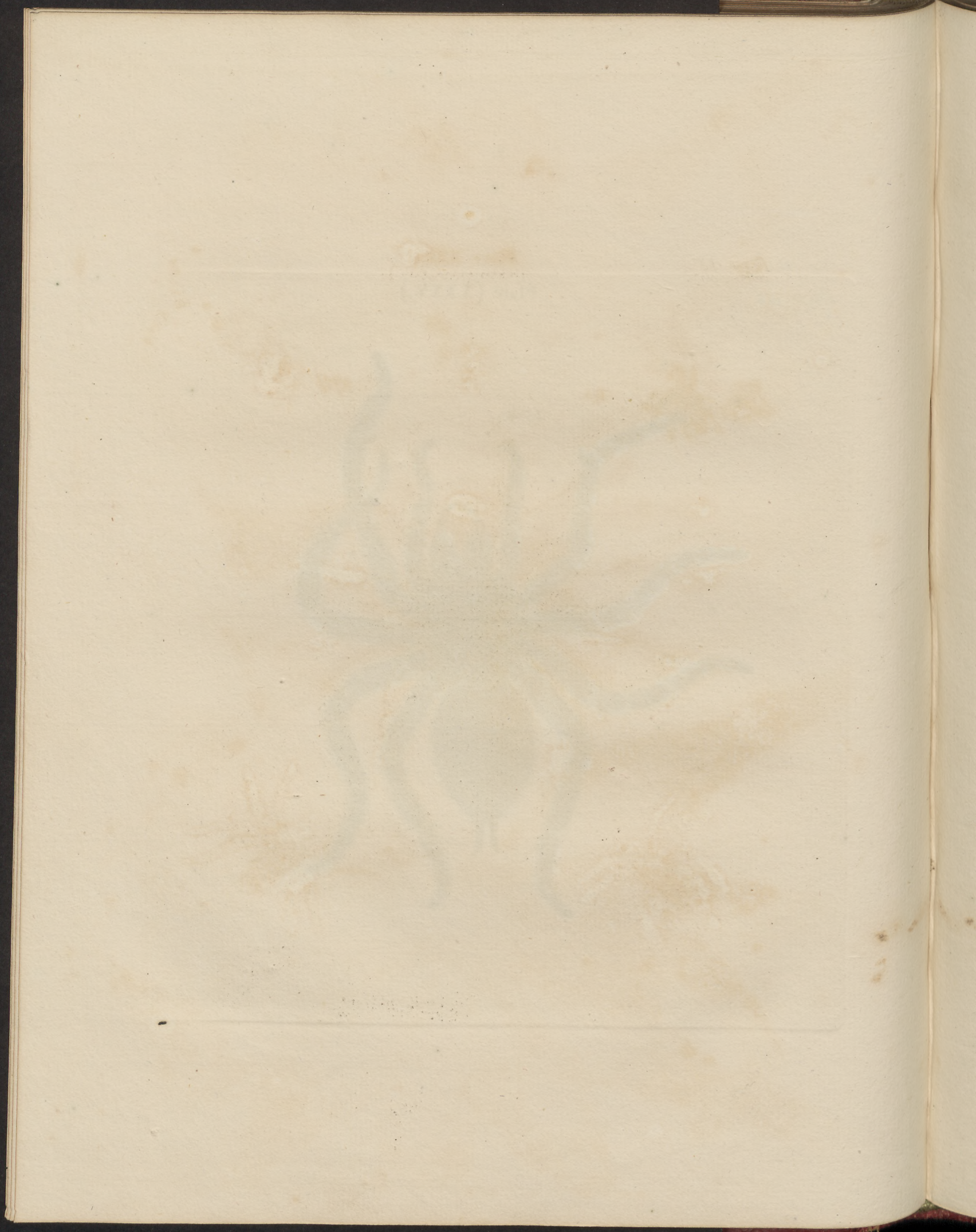
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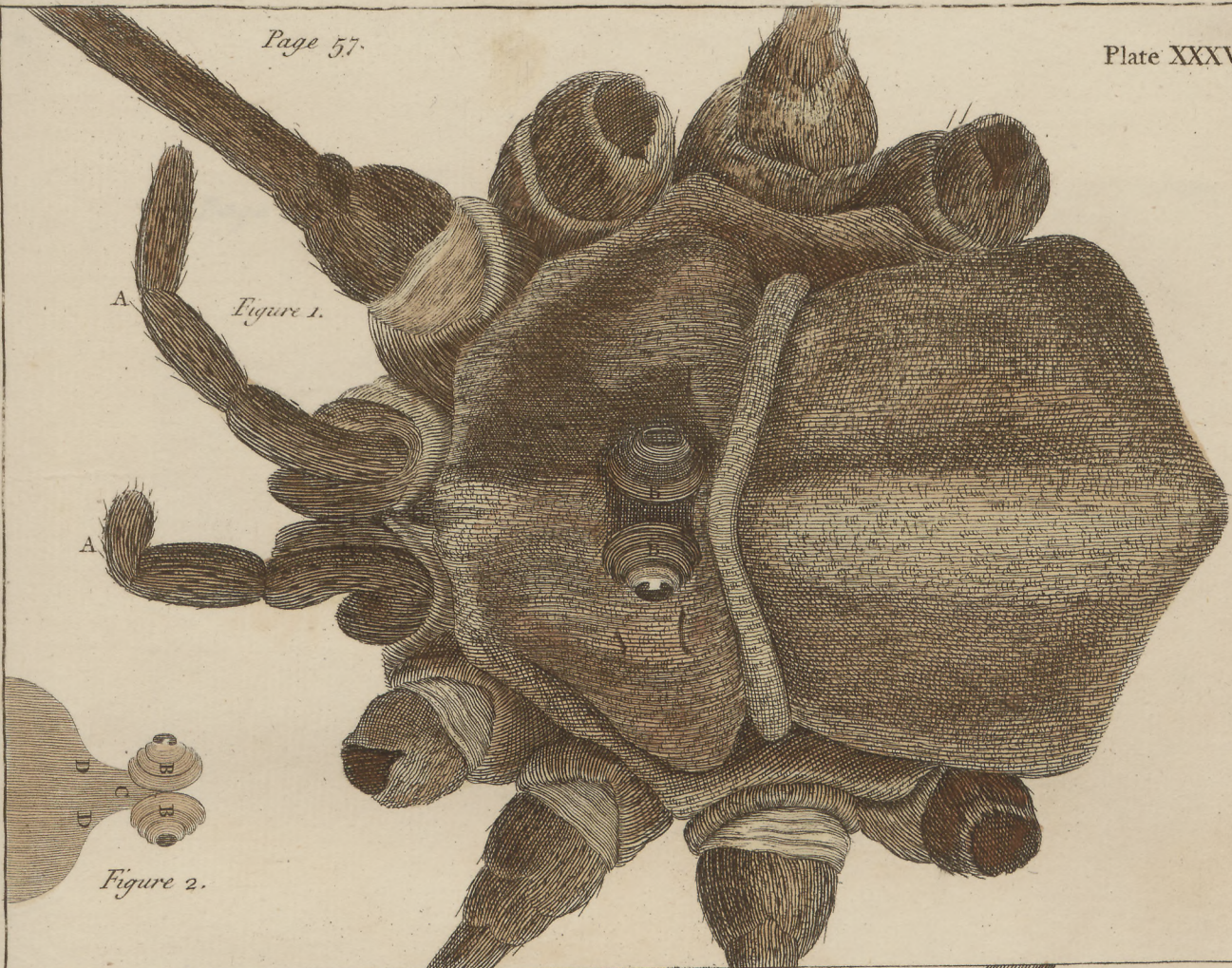


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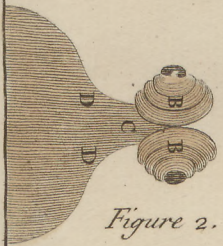


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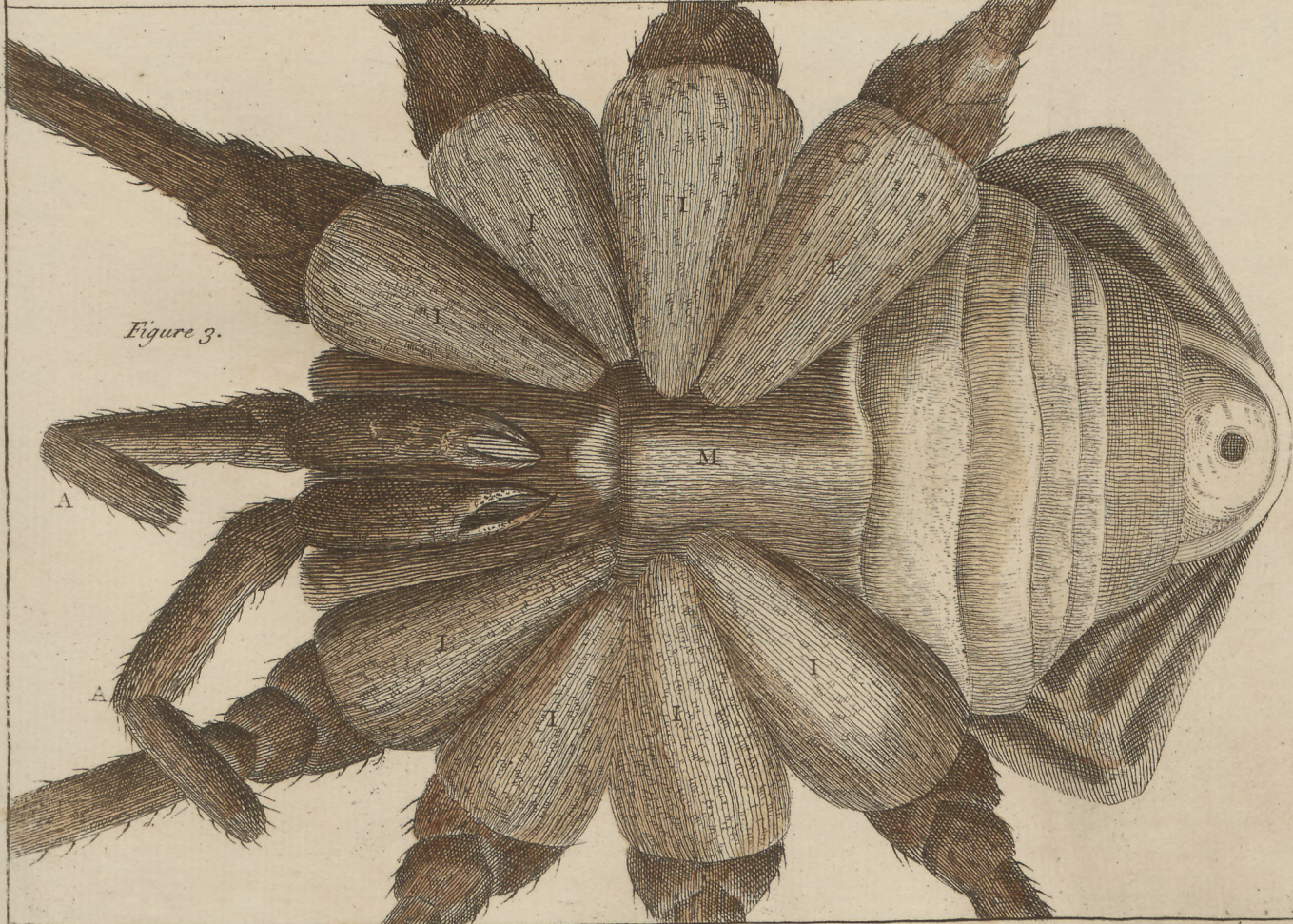


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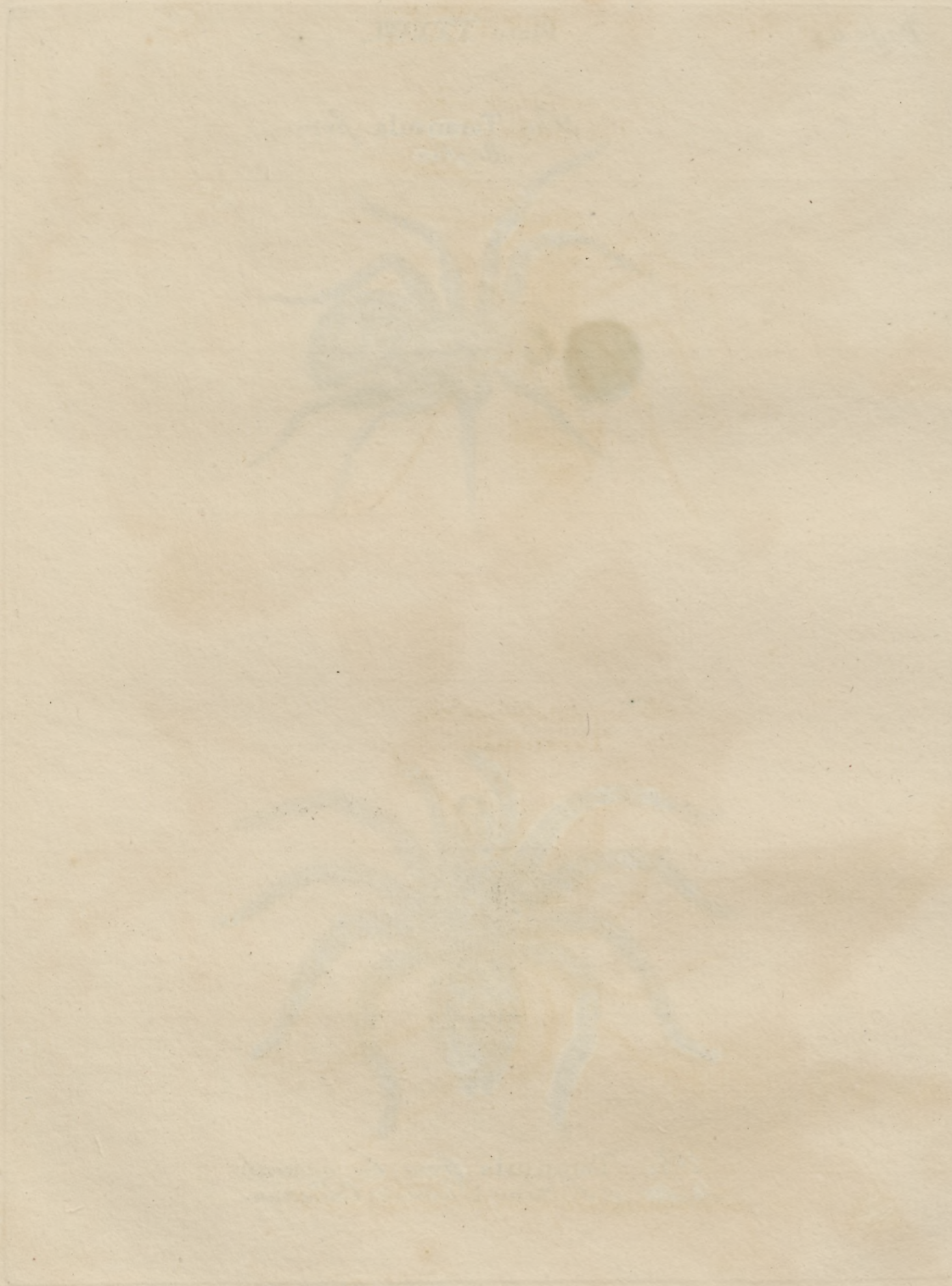
Table
1777



*The Tarantula from
Baglivi*



*The Tarantula from the natural
Spider in S. Hans Sloane's, Collection*



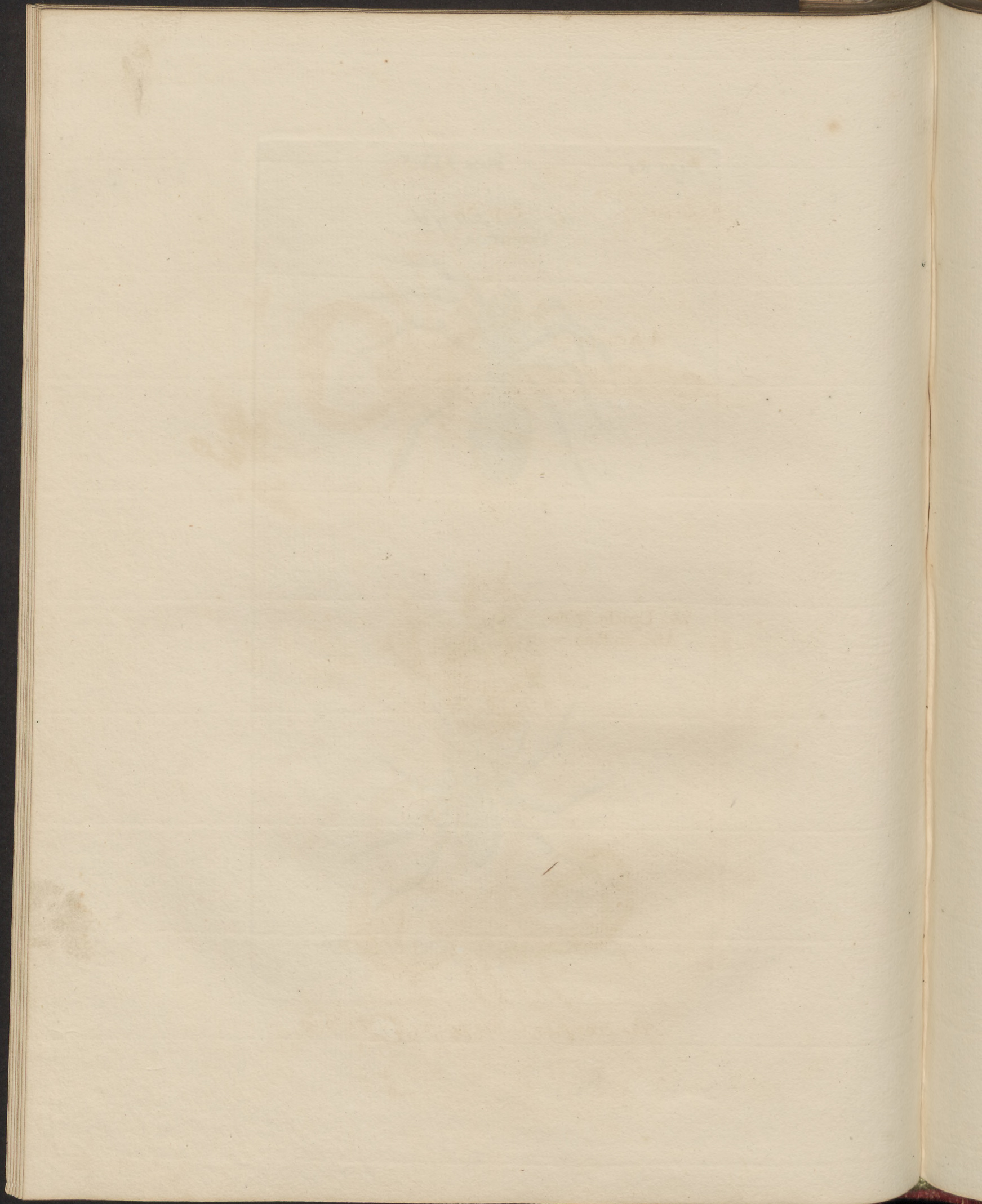
under
the upper Side of the
Tarantula

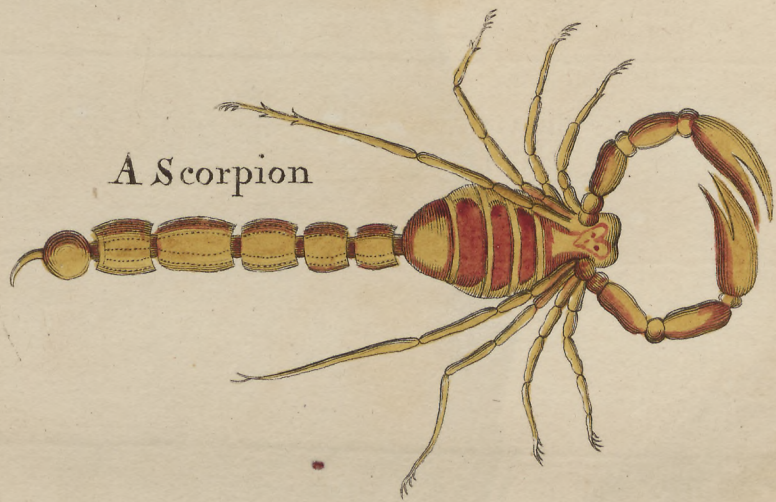


upper
the under Side of the
Tarantula

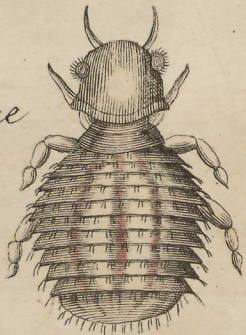


from Samuel Hafenreffer M.D. et P.P.

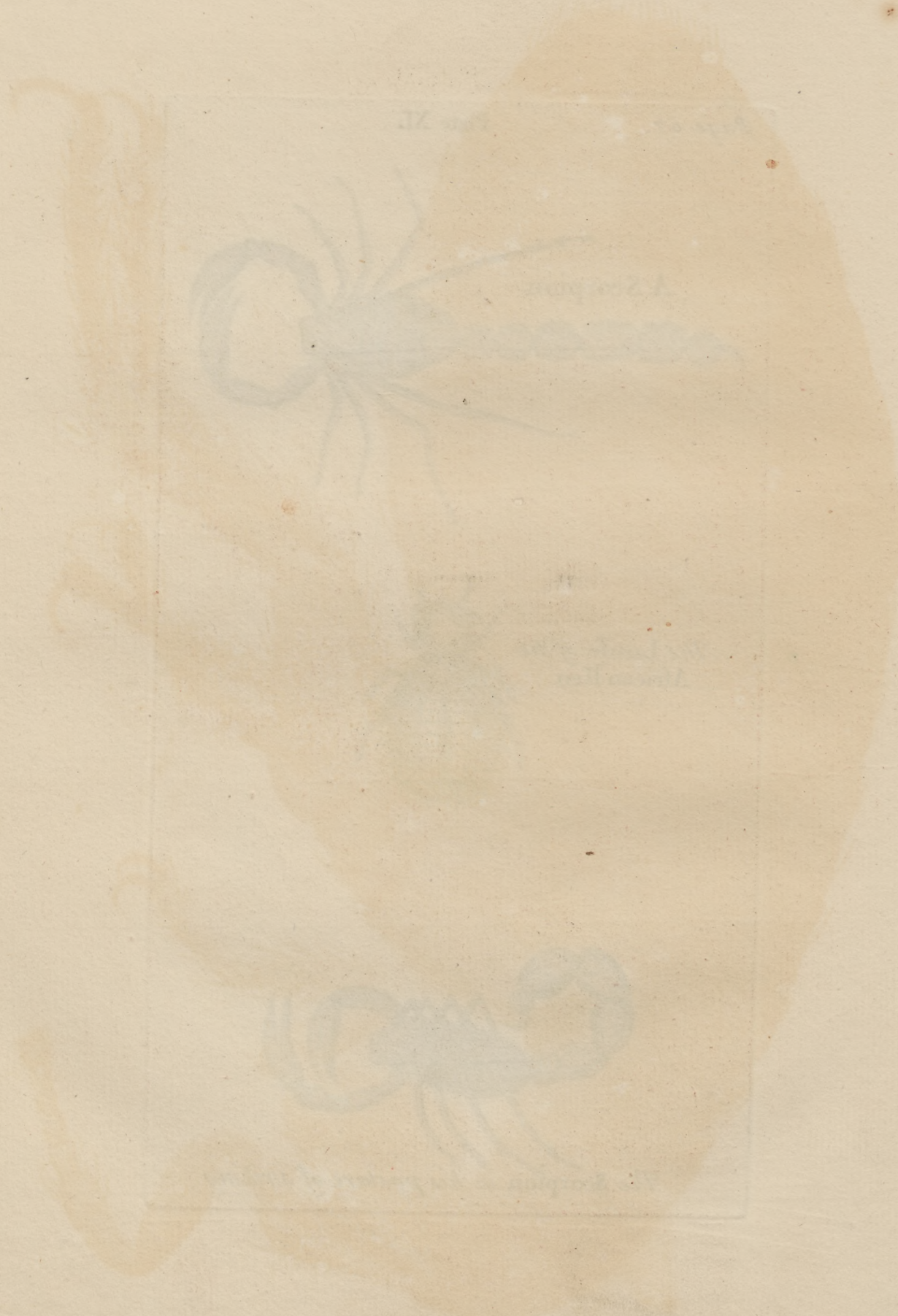




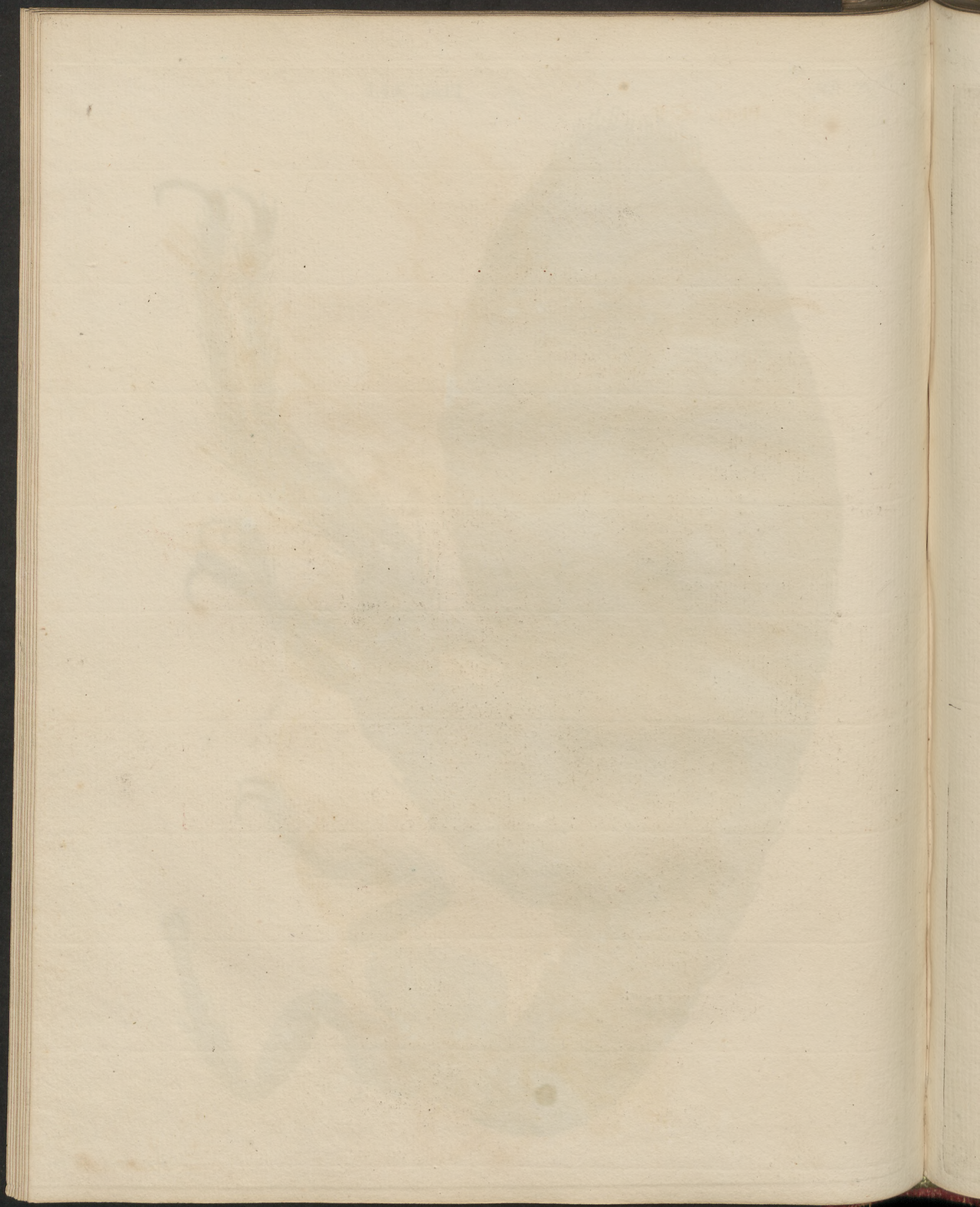
The Louse of the African Hen

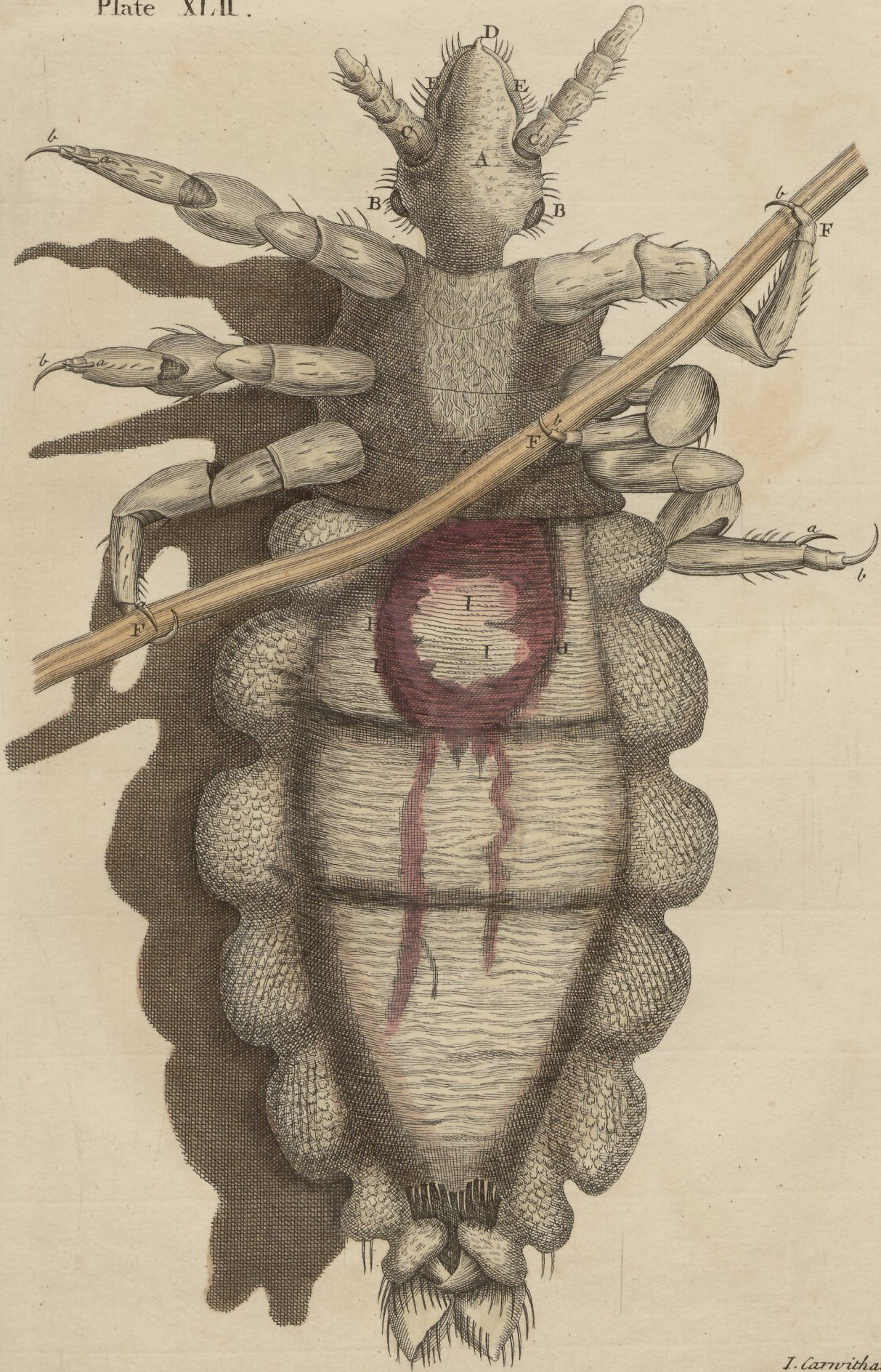


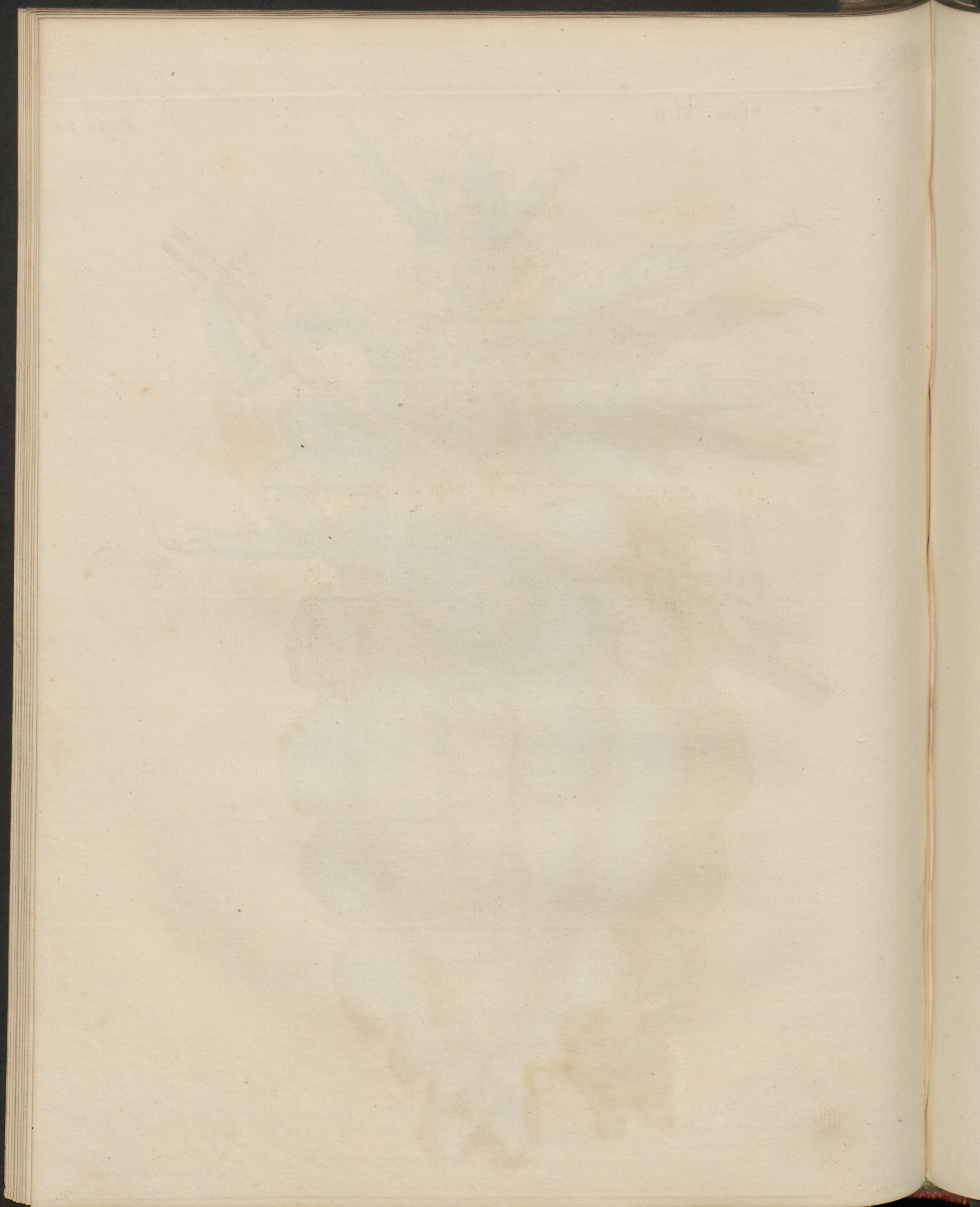
The Scorpion in his posture of striking.

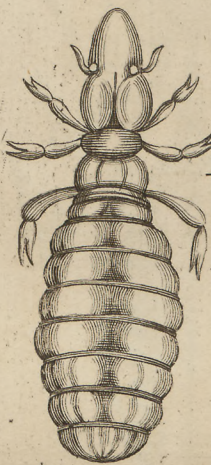






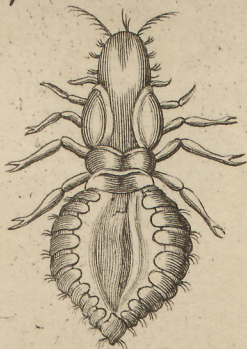




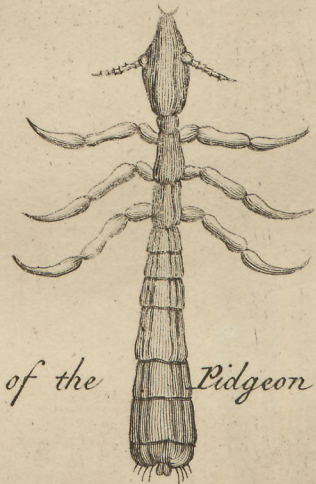
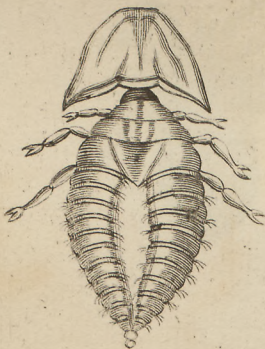


The Louse of the Buzzard

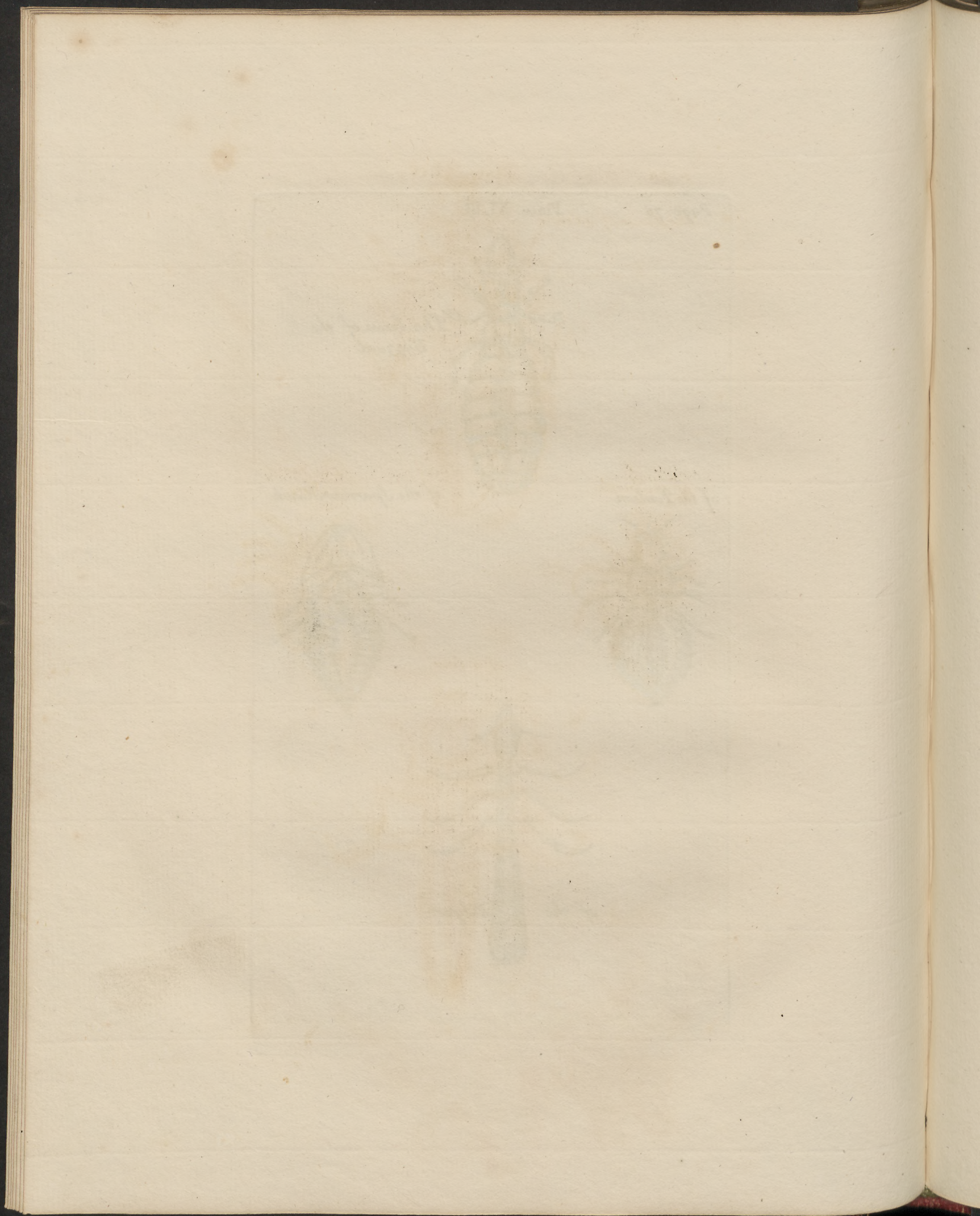
of the Falcon



of the Sparrow Hawk



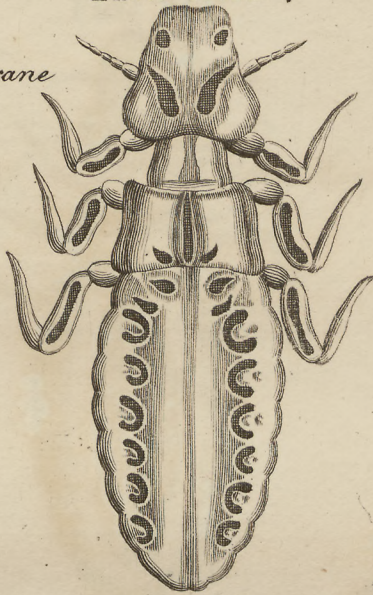
of the Pidgeon



p. 76.

Plate XLIV.

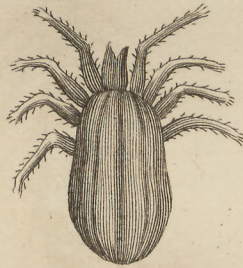
The Louse of a Crane



of the Turtle

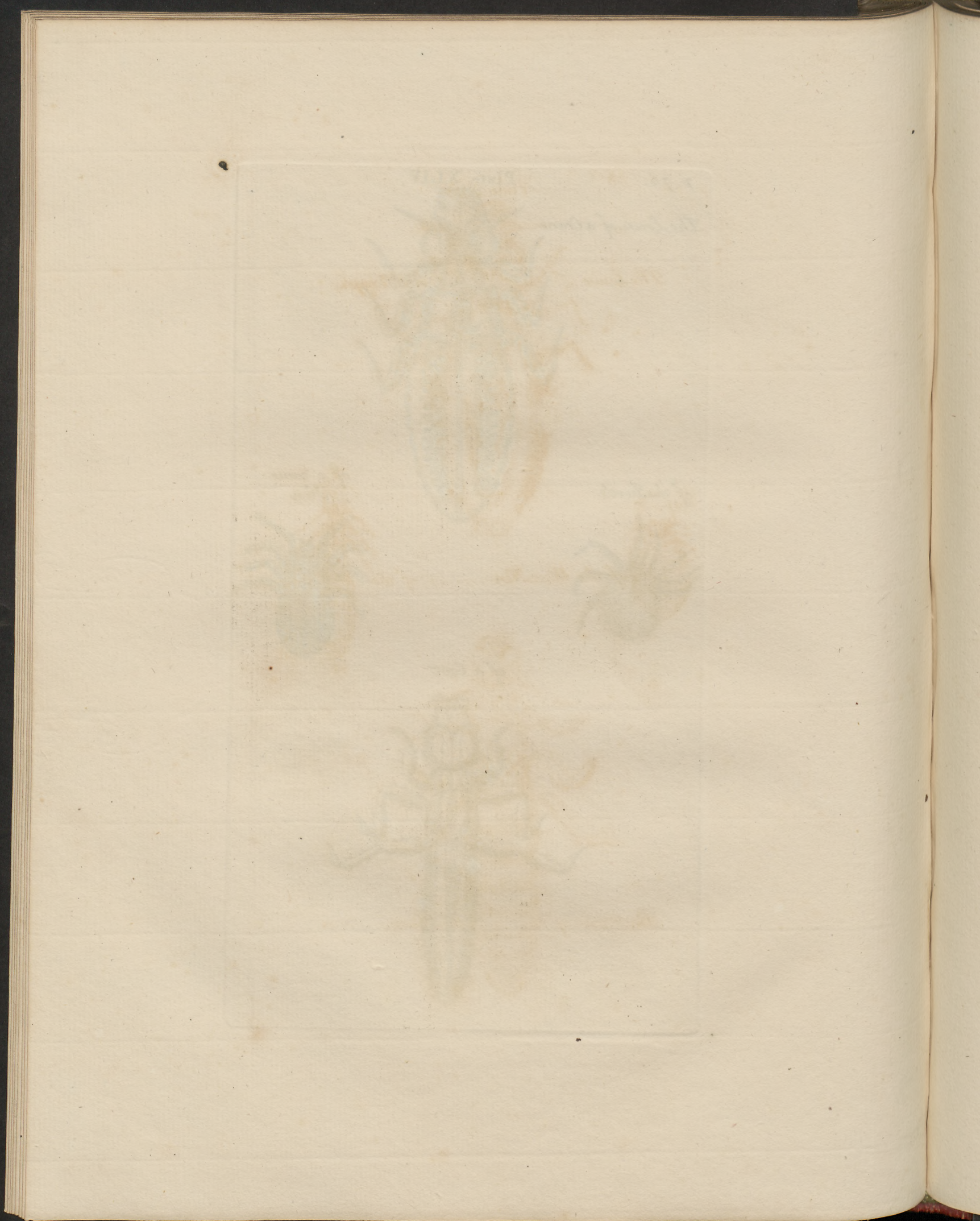


of a tame Hen



of a Coot

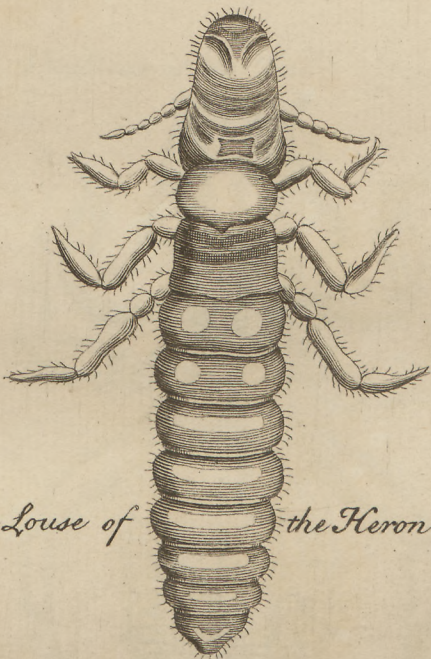
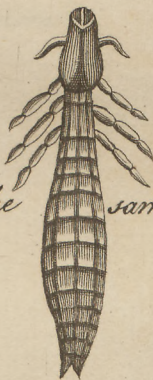




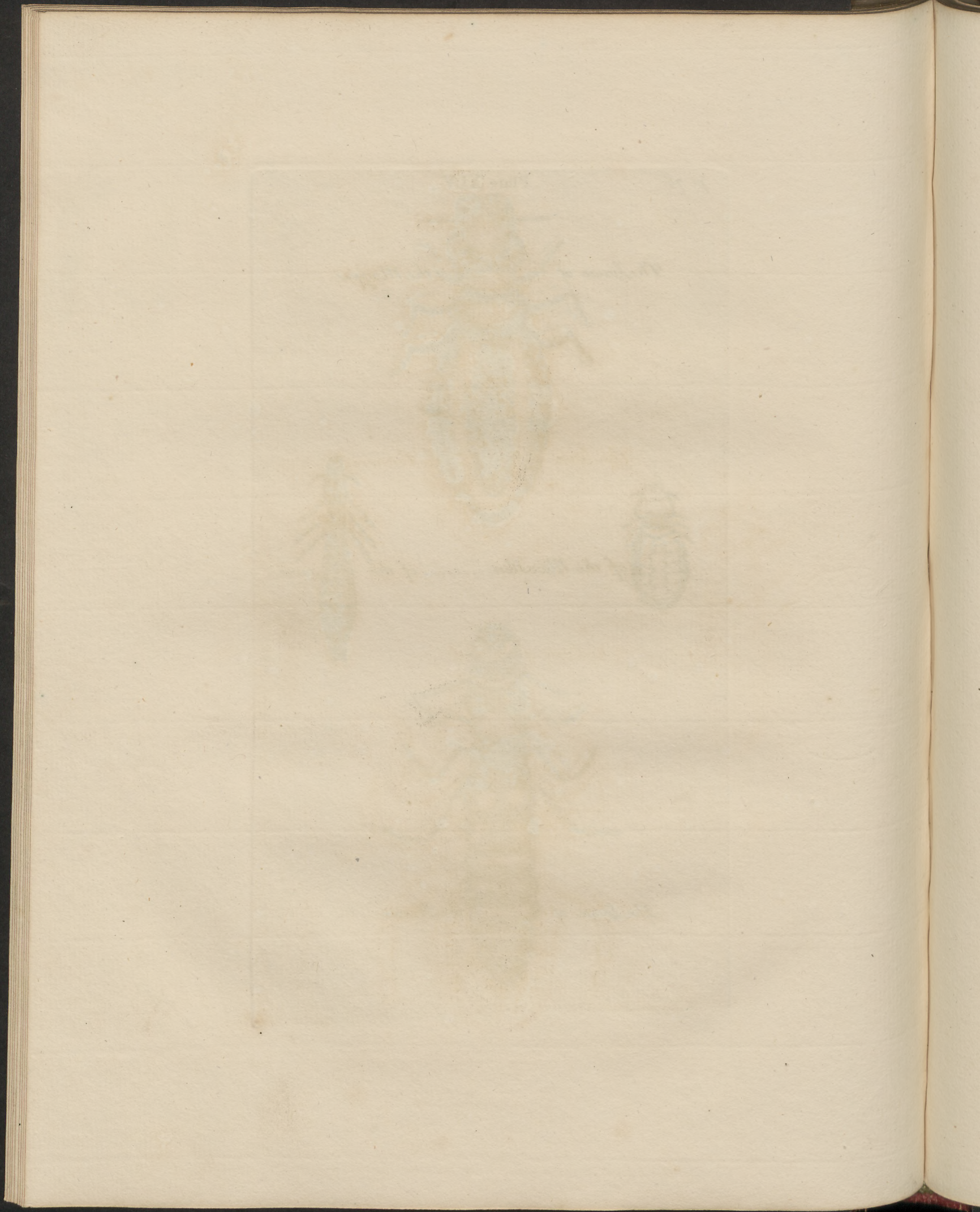
The Louse of the Magpie

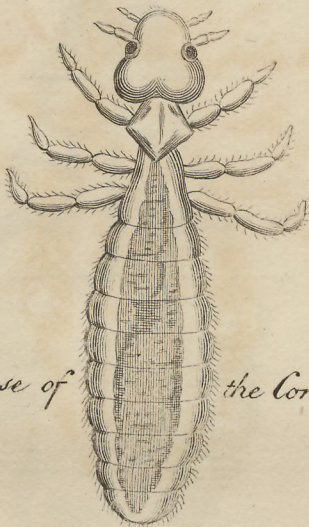


of the More Hen of the same



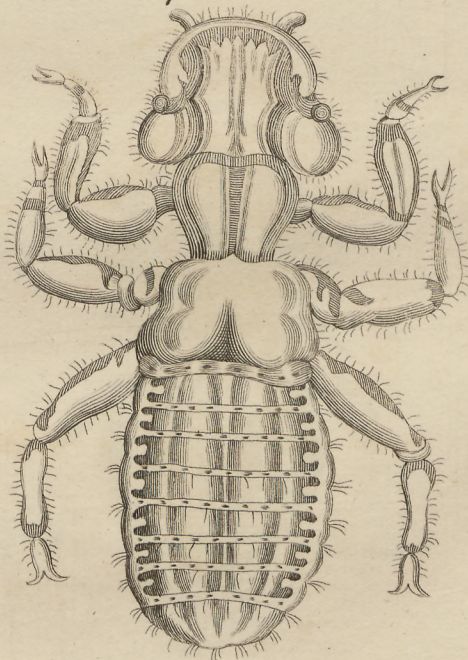
The Louse of the Heron

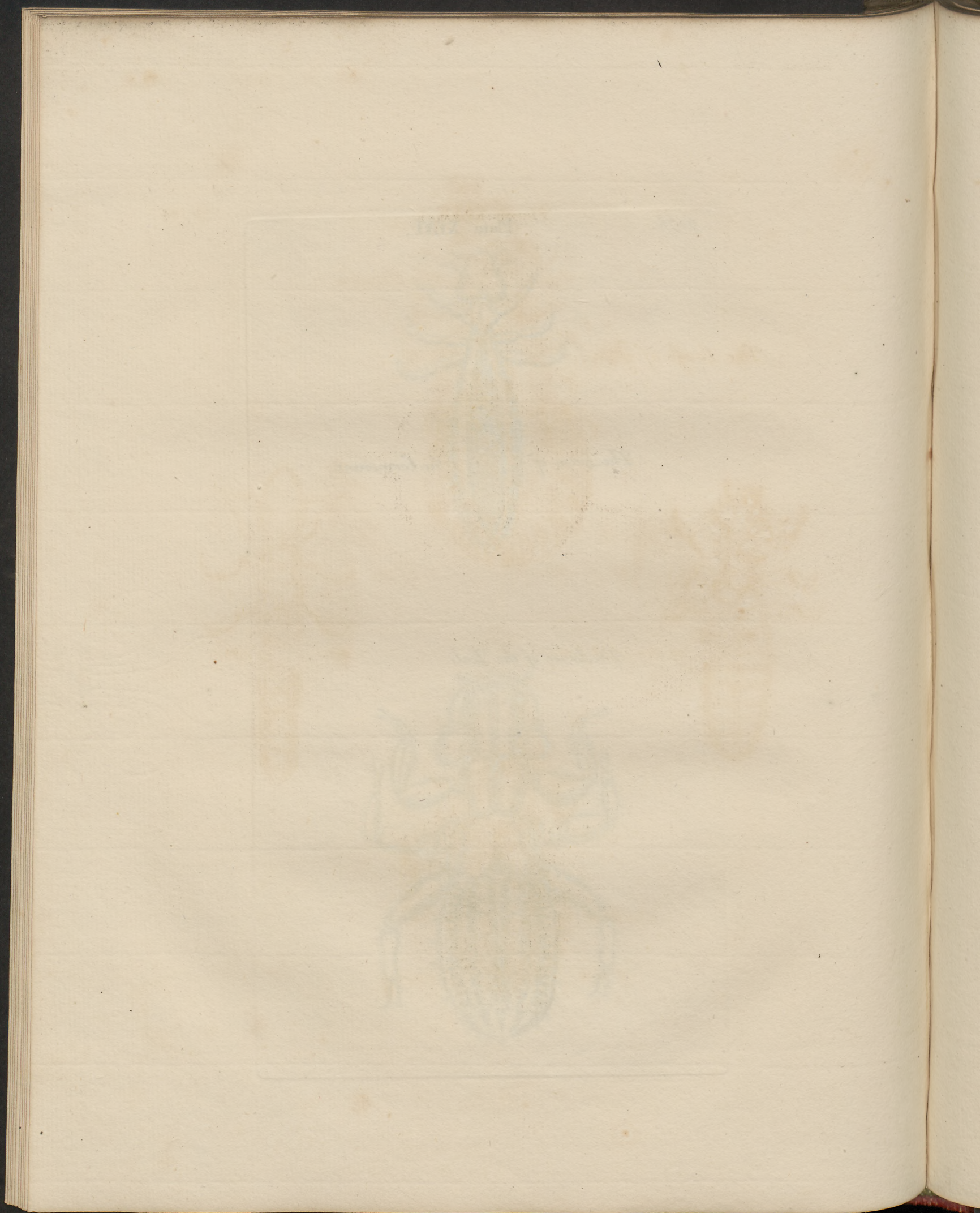




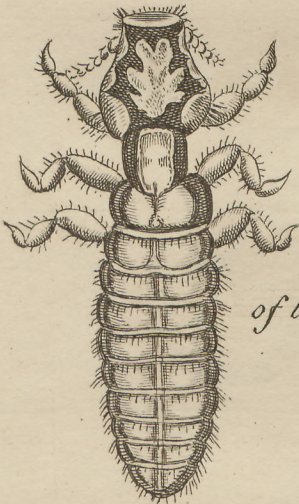
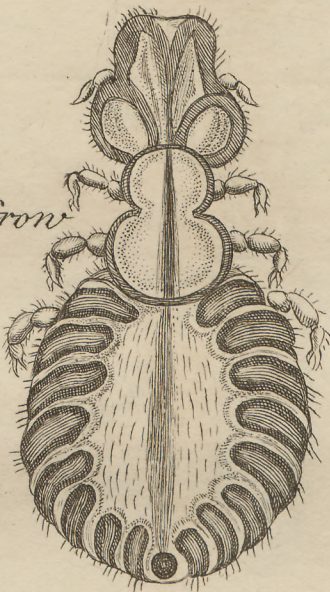
The Louse of the Cormorant

The Louse of the Teal





The Louse of y^e Crow



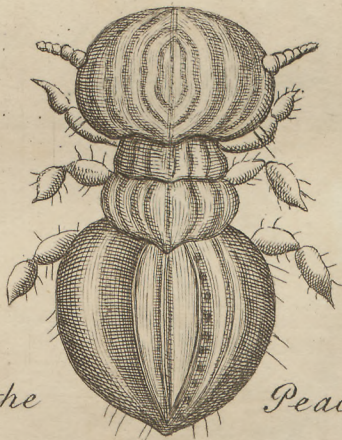
of the wild Goose



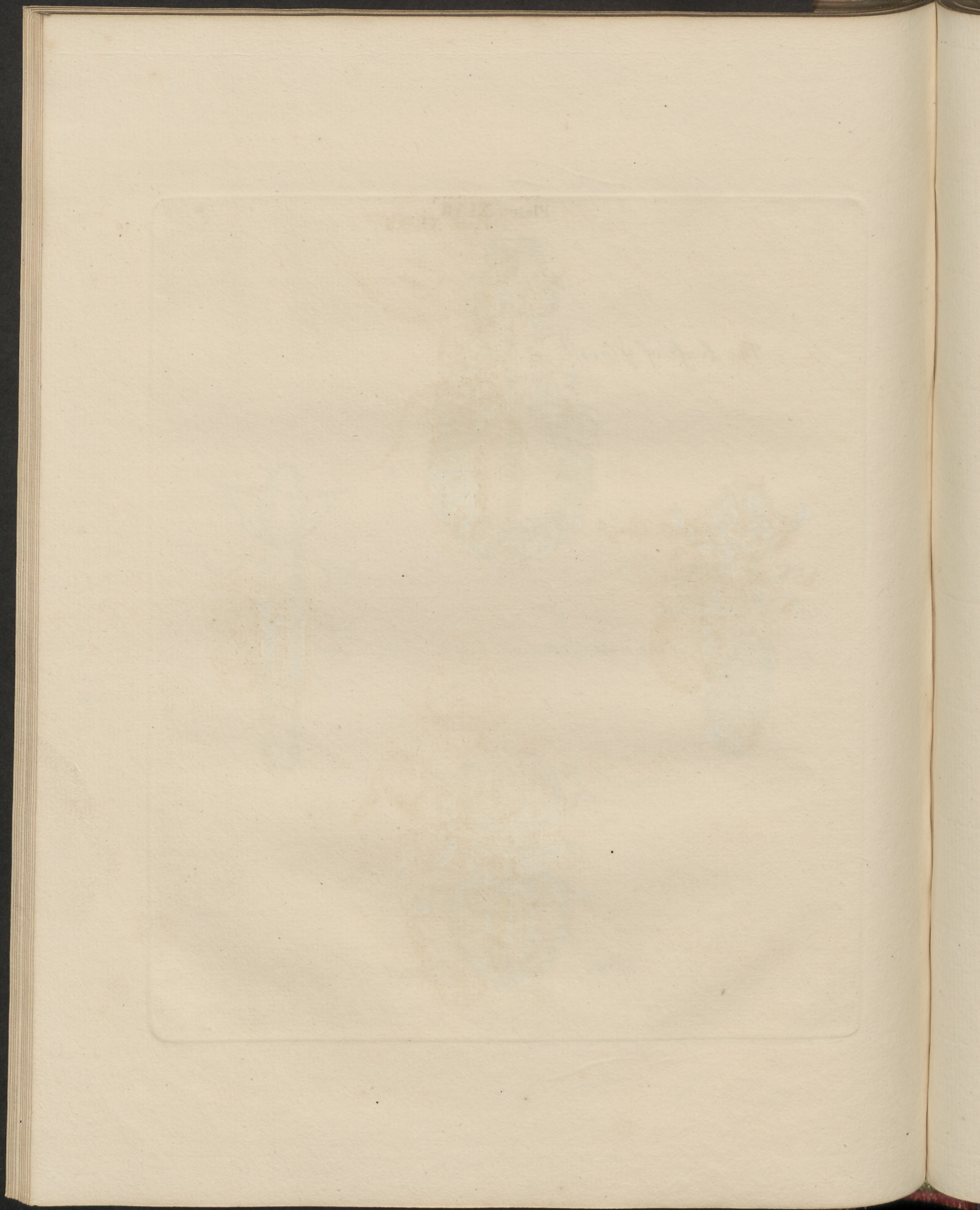
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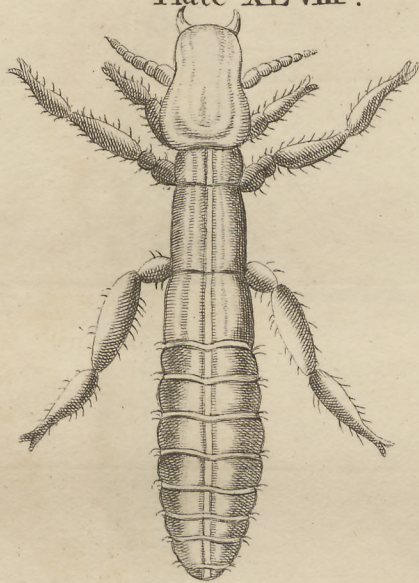
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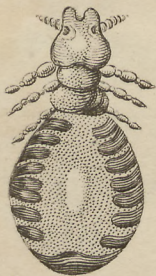


Peacock

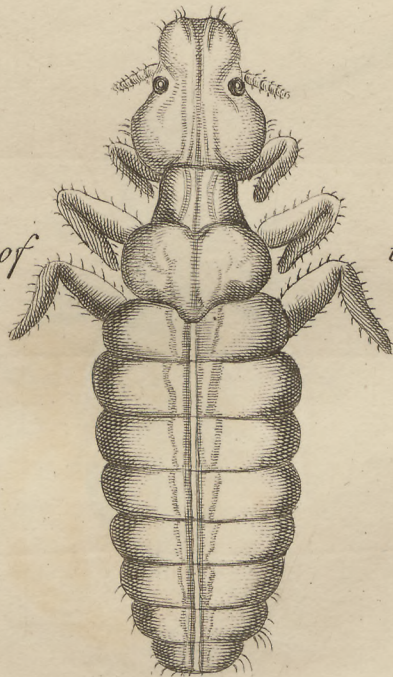


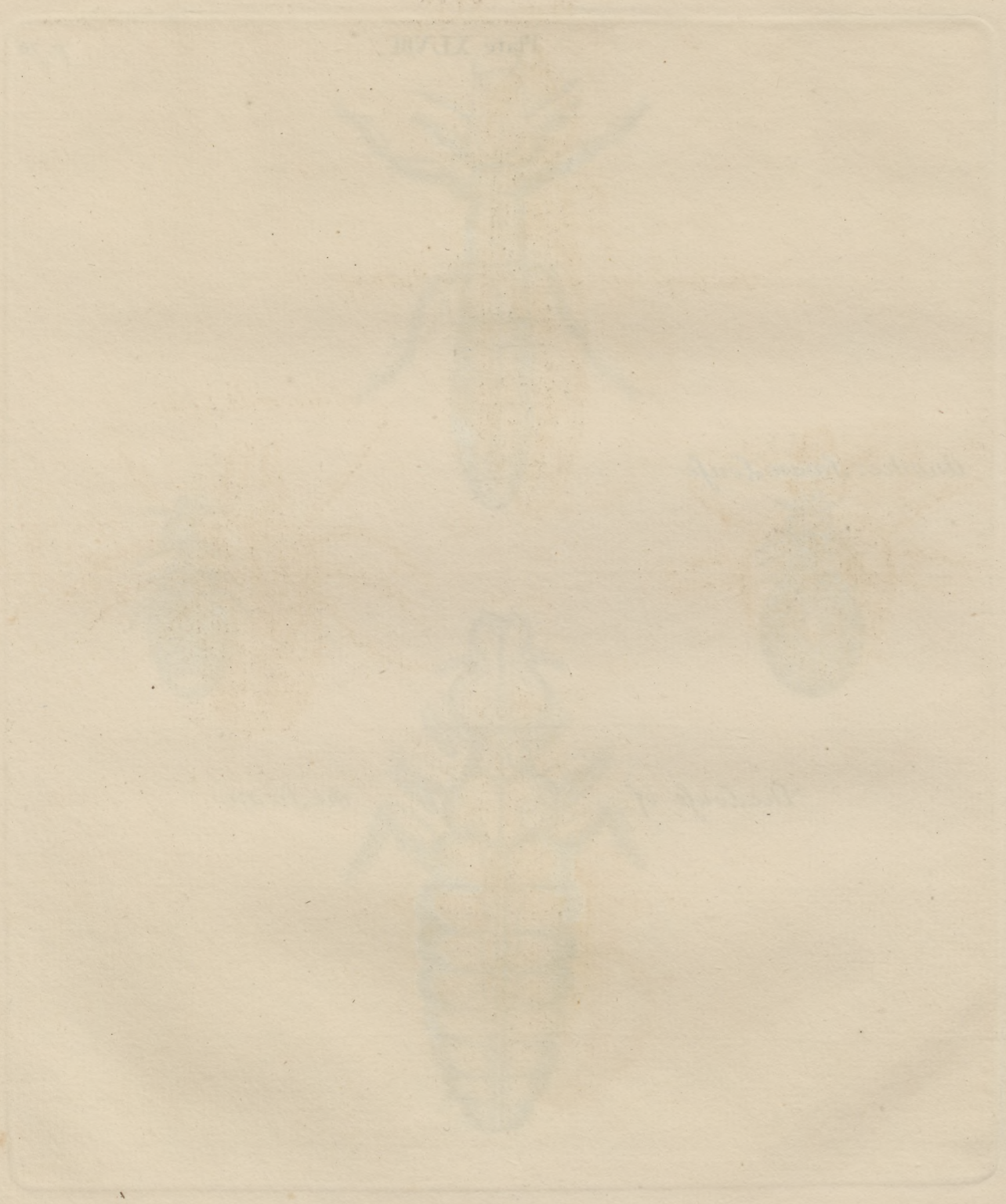


Another Swan Louse



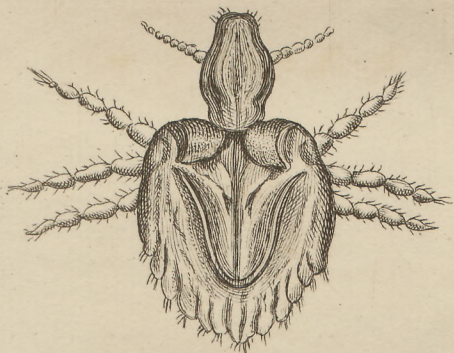
The Louse of the Swan







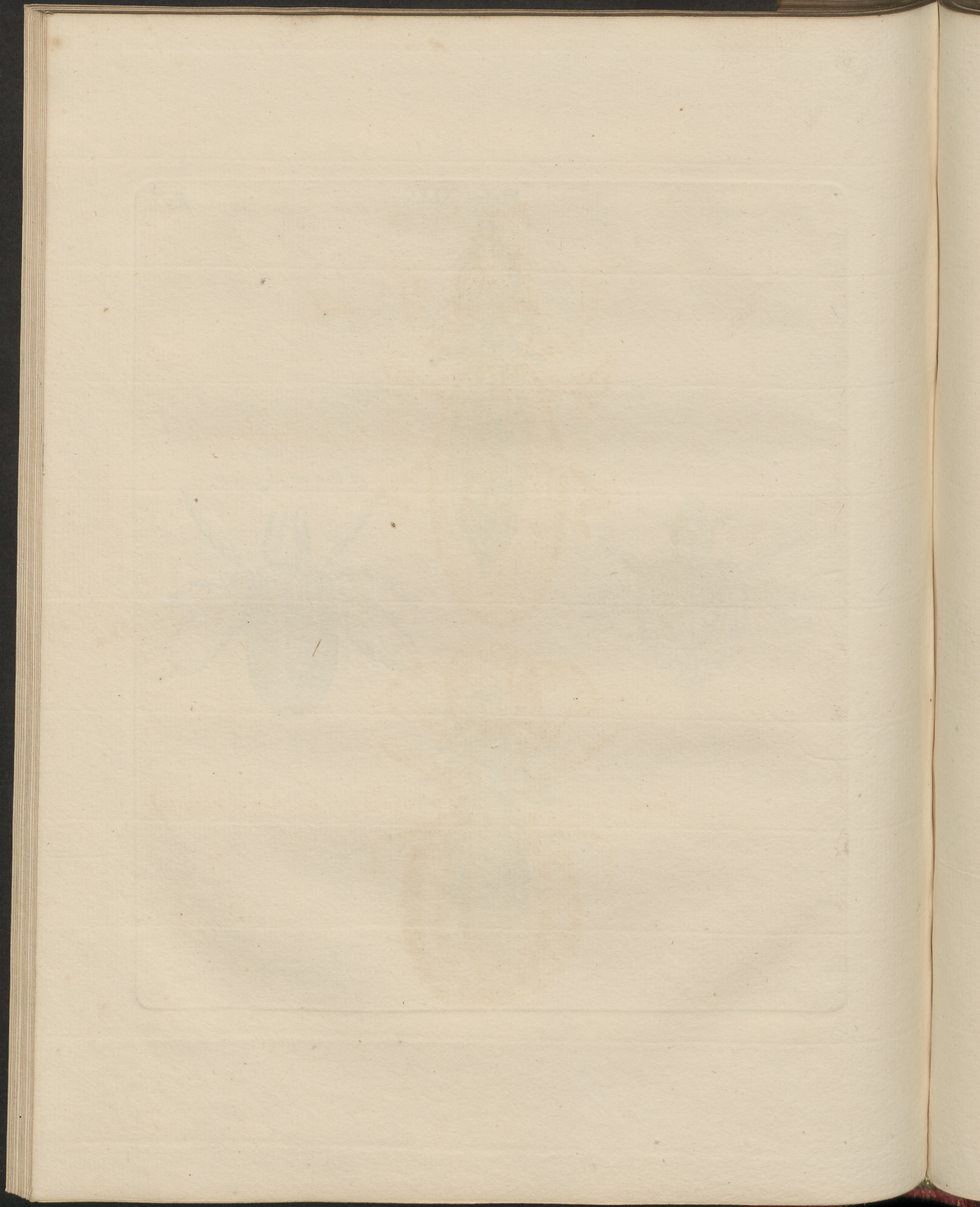
The Louse of the Turkey

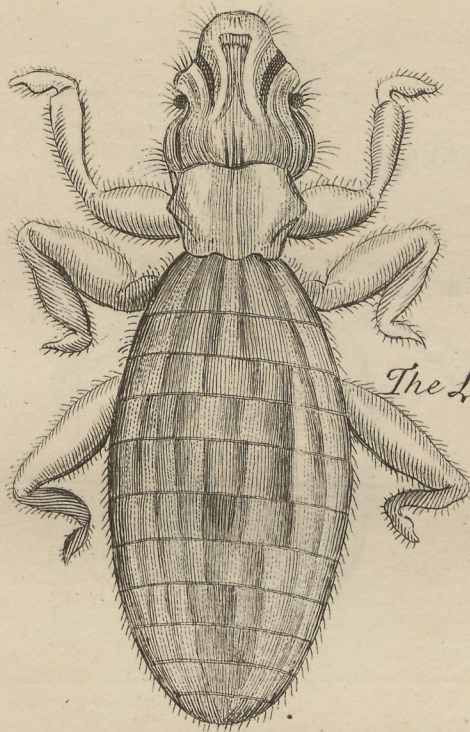


of the wild Goat

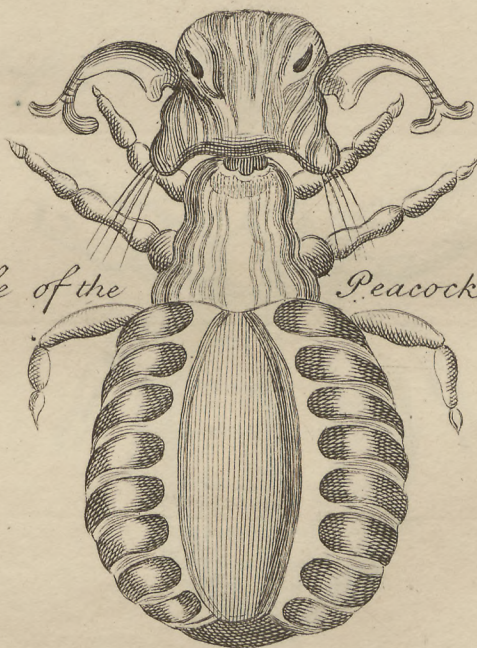


of the Shag

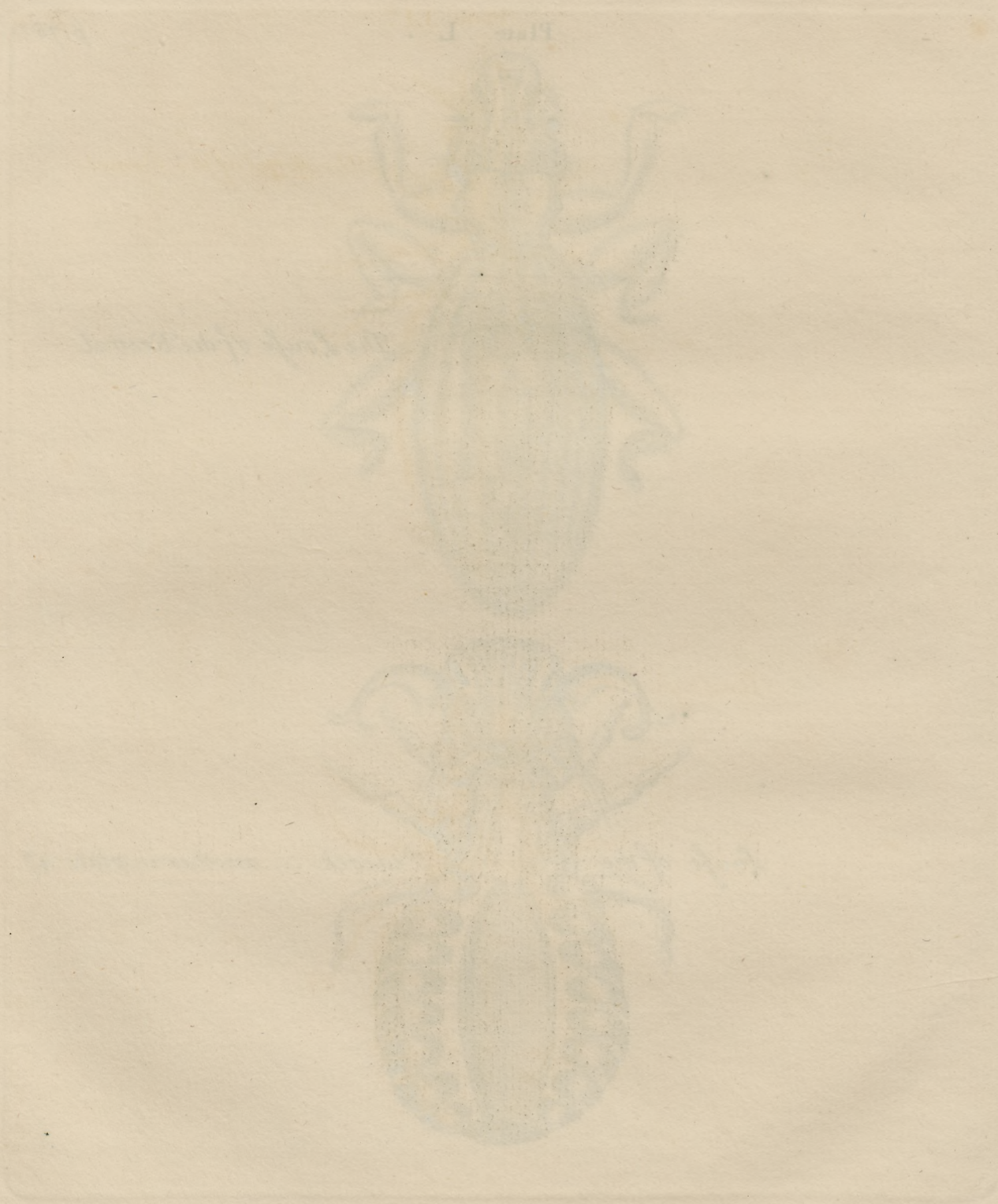




The Louse of the Kestrel

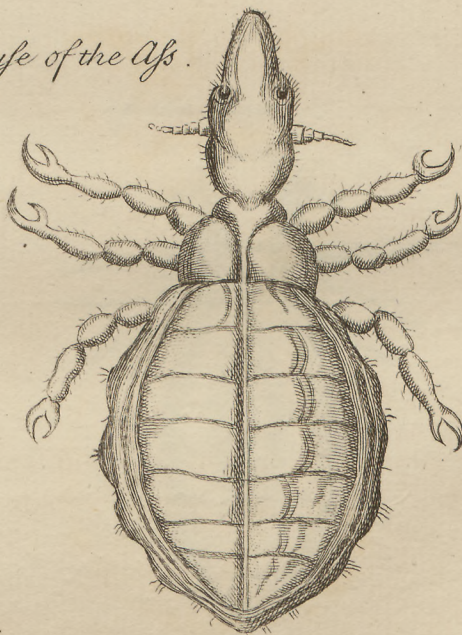


Louse of the Peacock another in plate 47

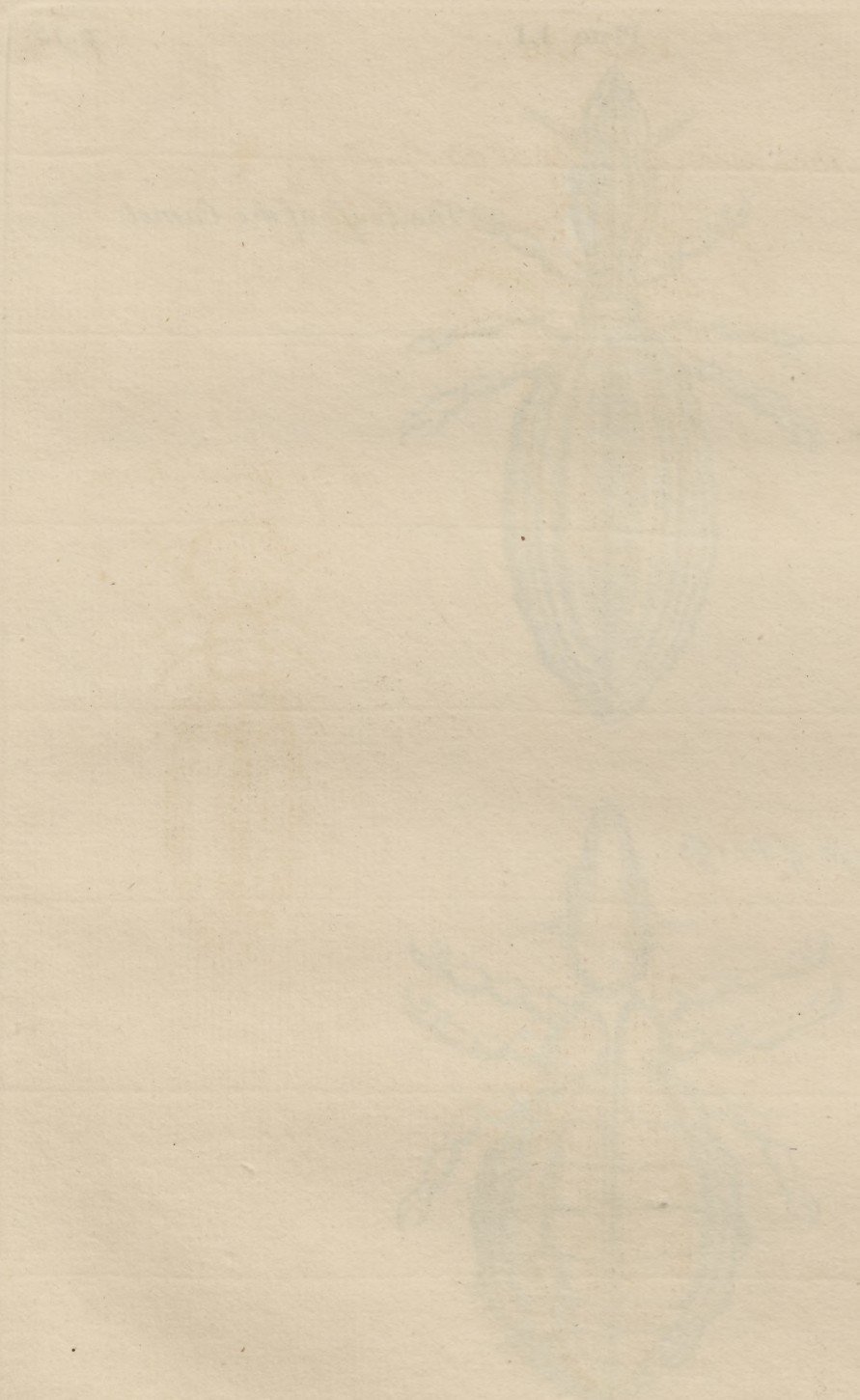




The Louse of the Camel



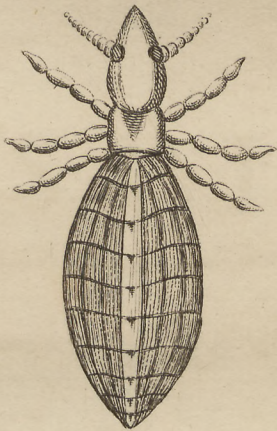
The Louse of the Ass



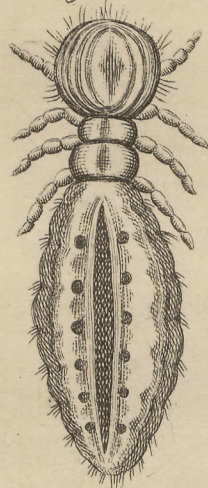
The Louse of the Starling



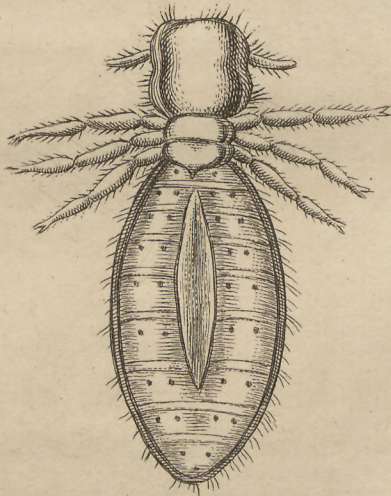
of the Deer



of the African Ram



of the Stag



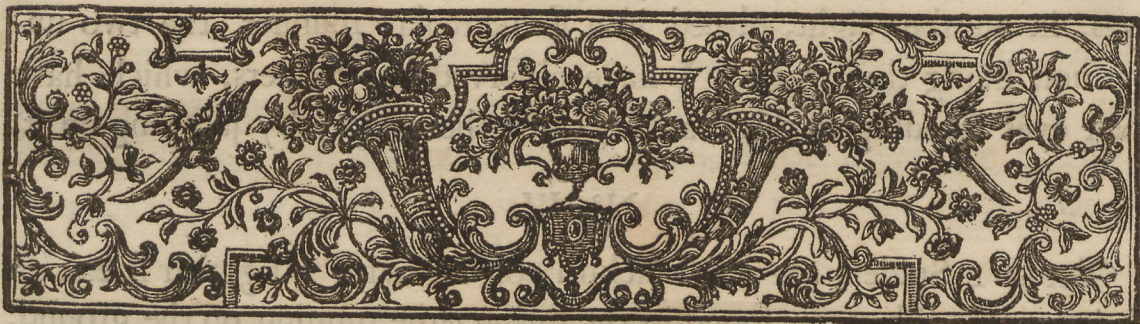
1797

Narrative History

S. P. I. D. E. R. & C.

The first part of the history is devoted to a description of the country and the people. It is a very interesting and valuable work, and is highly recommended to all who are interested in the history of the country.

The second part of the history is devoted to a description of the events which have taken place in the country since the first part was published. It is a very interesting and valuable work, and is highly recommended to all who are interested in the history of the country.



A
Natural History
OF

SPIDERS, &c.

N^o. I.



THIS Spider was of a scarlet colour, much resembling that of velvet; its feelers were something longer than is usually found in Spiders of this bigness. It was found in *Cain-Wood* at the beginning of *June*. They are likewise found in gardens on the bodies of trees: these last are something smaller than those found in the woods. These Spiders are accounted venomous.

N^o. II.

THIS Spider was of an ash colour, the upper side of the belly marked with black, the under side, of the same colour, without marks or spots. It had two black shining spots on the fore part of the body, and

B

three

three on each side, two between the feelers, in these spots stand their eyes, in number eight, placed in a semicircular manner, the two uppermost being the largest. I have observed the Spiders, which have their eyes standing in this manner, catch their prey, by jumping on it.

N^o. III.

THESE Spiders are of a blackish colour, with a lightish streak on their back. They are found in the spring time running on the ground, under the dead grass in the fields and hedges. In the beginning of *June*, they are found with their egg-bag, which is flattish and of a darkish colour, fastned to the under part of their bellies, which they run very lightly away with. By the best observation with glasses, they are found to have but four eyes; which are placed as they are expressed over the head of the Spider in the Plate.

N^o. IV.

THIS Spider is of a dark ash colour, finely spotted with black all over the belly, back, and legs; having a streak of white in the middle of the back, and upper side of the belly. Its legs are something lighter than the other parts, and the specks something smaller. It had six eyes, standing as they are placed over the Spider in the Plate, the two foremost of which are the least.

N^o. V.

THE back of this Spider was of a lead colour, the upper side of the belly of a reddish or brownish cast, finely marked. The legs were marked with large spots of black and hair-colour. Its feelers are like shining globes, a little inclining to an oval figure, of a dark colour, almost black. It could not be distinctly observed how many eyes it had. It was taken, in the beginning of *April*, on a burdock.

N^o. VI.

N^o. VI.

THE body and legs of this Spider was of a hair-colour, with a small black mark across the upper end of the back: its belly of a blackish colour. It was taken in the fields, in the beginning of *April*. The eyes are so small, that it could not be perceived how many it had, or their manner of standing.

N^o. VII.

THIS Spider was all over of a light hair-colour, with a black spot on the upper side of its belly, the under side of which was of an ash colour; it was taken in the fields, in the beginning of *April*, running amongst the leaves and dead grass.

N^o. VIII.

THIS Spider was of a dark colour, the upper side of the belly being finely marked with a row of circular spots from the back to the end of the tail with a scolloped line on each side; the back was dark on each side, and light in the middle. It had two eyes standing as they are placed in the Plate, over the head of the Spider. Its feelers were long and slender, as are all those of the female Spiders, the male having globular bunches or knobs at the ends of their horns or feelers: the young ones are marked exactly like the old ones; only they look very pale which makes them appear as if they were naked, but may be easily known. This is one of the house Spiders, whose vertues are excellent in the cure of intermitting fevers, when the bark and other remedies have failed, as I have often experienced on several, both old and young; the use of which I will now publish for the benefit of the poor and country people, who are remote from the help of physicians.

The Use. “℞. As much of the clean web of the house Spider as
“the weight of two scruples; Mithridate two drams; mix and give

“ it to the patients the night before the fit ; let them take after it
 “ four ounces of treacle-water, and go to bed and cover themselves
 “ warm, endeavouring to sweat. They will have a most severe fit
 “ after the taking the first dose, but after the second dose it will leave
 “ them. By this method I have cured many people of stubborn and
 “ long continu'd *tertian*, *quartan*, and *quotidian* Fevers, particularly
 “ some of the servants of the Honourable Colonel *Schutz*, when their
 “ taking the Bark for a long time failed : as also Dame *Hughs* of *Totten-*
 “ *ham-Court* Road of a *tertian* Ague of three years continuance, with
 “ many others. I have likewise cured several children, both male and
 “ female, by hanging a large Spider confined alive in a box about
 “ their neck, reaching to the pit of the stomach, without giving any
 “ internal remedies. Their web, with the addition of Frog-spawn,
 “ is a most excellent styptick for bleeding at the nose, or any slight
 “ wound of the body.”

The Use. R̄. “ The clean web of the house Spider, and dip it in
 “ the spawn of Frogs, beaten as you would the whites of eggs, sever-
 “ ral times letting it dry on pewter, or earthen plates, between each
 “ time of dipping it, and keep it in a box close stopt from air, and
 “ apply it when you have occasion. With this remedy I saved a
 “ gentleman of worth in *Lincolns-Inn-Fields*, who had bled at the
 “ nose several hours, when all the applications failed which were used
 “ by two eminent Surgeons.”

I HAVE observ'd, since I writ this, a small Ichneumon Fly to lay
 its eggs on the egg-bags of the house Spider, the worms of them pe-
 netrating the bag, eat up the eggs, leaving the skins ; and then make
 themselves small brown cases, in which they change into Flies, which
 come out in the beginning of *May*.

N°. IX.

THIS Spider is of a blackish colour on the back, the upper side
 of its belly was of a yellowish dark ash-colour, mark'd with black ;
 the

the legs particoulour'd of black and hair-colour; the feelers long and smooth. It had eight eyes standing as they are placed over the head of the Spider in the Plate. This is one of the female house Spiders. It was taken in the beginning of *April*.

N° X.

THIS Spider was of a black colour where the eyes stood; the other part adjoining to the belly was of a redish chesnut colour, the upper side of the belly of a yellowish dark ash colour, the legs of this Spider are pretty long and of a redish colour, the feelers were globular and hairy, and on the outsides of them there was a bright knob of white, incircled with yellow, which made it appear as if a little stone had been set therein: it had eight eyes standing as they are expressed over the Spider in the Plate. This was a male Spider, and was taken in a house in the beginning of *April*.

N° XI.

THIS small Spider is of a brownish colour with a yellow mark cross part of the belly next the back, the upper side of the belly being marked with a large triangular mark with a cross in it; the legs were spotted: it had long feelers, and four eyes, which were perceptible, standing as they are expressed over the Spider in the Plate. It was taken in a garden in *April*.

N° XII.

THIS Spider was black and white; the black marks on the upper side of the belly cross it horizontally; it had eight eyes standing as they are expressed in the Plate. This is one of the Spiders which catches his prey by jumping on it, and can move backwards and forwards, or sideways at its pleasure with great agility. It was taken in a garden about the middle of *April*.

N° XIII.

N^o. XIII.

THIS Spider was of a dark hair-colour, with a small stroke of a lighter colour on the upper side of the belly, and streak of light colour on the back, bordered on each side with black, it looks all over with a soft downy look: it had long feelers, and eight eyes standing as they are expressed in the Plate. It was taken in a garden at *Hackney*, about the middle of *April*.

ANOTHER of the same kind was taken about the middle of *May*, with a large bag of eggs fastned to its tail, the outside of which was white, with a cast of blew. There has been found several degrees in bigness of these Spiders, and the colours the same; so that they do not alter or change their colours as they grow bigger. An endeavour was made to take the egg from it; but she was not willing to part with it, but strove to hold it by clapping her legs about it a great many times: and when taken away, would run to it, and catch hold of it, endeavouring to pull it to her again.

N^o. XIV.

THIS small Spider was black on the back; the upper side of the belly had a black line running through the middle of it, with a border of white on each side of it, crossed on each joint by a small black line; the feelers were very small. It had eight eyes standing in a semicircular form, as they are expressed in the Plate. It was taken in a dry bank near *Islington*, on the fourteenth of *April*.

N^o. XV.

THIS longish Spider hath a stripe of orange-colour on the middle of its back, and down the middle of the upper side of the belly, edged with a border of black; the out-edges of which are composed of small black lines, which make a faint shade ending in white. Its

legs

Of SPIDERS, &c.

7

legs were of a chesnut-colour; the feelers had thick knobs at the ends, ending in points. It had four eyes, standing as they are expressed in the Plate. It was taken in *Cain-Wood*, on the fourteenth of *April*, running in the dead grass and leaves.

N°. XVI.

THIS Spider was of a light brownish hair-colour, with a faint stripe of yellow on its back, and upper side of its belly; its feelers were long and slender. It had four eyes, standing, as is represented in the Plate by the dots over the head of the Spider. It was taken in *Cain-Wood*, on the fourteenth of *April*, running in the dead grass and leaves. This is a female.

N°. XVII.

THIS longish Spider was of a light hair-colour, the darkest part being on the upper side of the belly, and coming off in a very light shadow on the sides. It had a light streak on the top of the back; the feelers had large knobbed and pointed ends. It had four eyes, standing as is expressed over the Spider in the Plate. It was taken about the middle of *April* in *Cain-Wood*, running on the ground under some dead leaves and grass. This is a male.

N°. XVIII.

THE back of this Spider is of a dark hair-colour with a light streak in the middle; the upper side of the belly light hair-colour, the legs of a reddish brown, the feelers long and slender, and of the same colour of the legs. It was taken the fourteenth of *April*, running on the ground in *Cain-Wood*.

N°. XIX.

N^o. XIX.

THIS small Spider was all over black, the feelers were knobbed at the ends. It had six eyes, standing as they are expressed in the Plate. They are found running about in great plenty, in the low wet grounds, about the middle of *April*.

N^o. XX.

THIS Spider is almost white on the top of the back: the sides of the back were black, it had a light mark all along the upper part of the belly even with that on the back, the legs and sides of the belly of a dark colour; its feelers were pretty thick: it had six eyes placed as they are expressed in the Plate. Viewing the upper part of the belly of this Spider with a magnifying glass, it was hairy and finely spotted: It was found in *Cain-Wood*, running on the ground about the middle of *April*.

N^o. XXI.

THIS Spider had a light mark along the top of the back, the sides of the back black, going off into a faint shade of white, the tail was of a dark colour. Its feelers were slender, the legs finely marked, partly black and partly of sad colour: it had six eyes standing as is expressed in the Plate. The belly of this Spider was shorter than is usually found in Spiders of this bigness. It was taken in *Cain-Wood*, about the middle of *April*.

N^o. XXII.

THIS Spider was of a hair-colour; the sides of it dark, marked with black; its belly rises pretty high on the upper side; its feelers were slender: it had six eyes standing as they are expressed in the Plate. It was taken in *Cain-Wood*, near *Hampstead-Heath*, about, the middle of *April*.

N^o. XXIII.

N^o. XXIII.

THIS Spider was of a dark colour, having a pretty broad streak of light hair-colour in the middle; and in the middle of that streak a small black line, the rest of the back being black; the upper part of the belly had a small hair-colour'd line, in shape of a longish square. It had six eyes standing as they are expressed in the Plate. Its feelers were long and slender: it was taken in *Cain-Wood* about the middle of *April*, in the dead leaves. One of these Spiders was taken at the beginning of *June* with its egg-bag under its belly, which was round and white.

N^o. XXIV.

THIS small long legged Spider was so finely marked that it was impossible to describe it, either in words or colours; there being so fine a mixture of green, red, and black interchangeably put together in pretty shapes; the legs were also finely marked in the same manner; the eyes were so small as not to be discerned. It was taken on the body of a tree in *Cain-Wood*, about the middle of *April*.

N^o. XXV.

THE back of this Spider is of a chesnut colour, and small, the belly large, the upper part of which is of a yellow, white, and orange colour, very agreeably mixed in pretty shapes, the legs orange colour with dark spots. The feelers were slender; it had six eyes standing as expressed in the Plate. It was taken on a tree in *Cain-Wood*, about the middle of *April*.

N^o. XXVI.

THIS small Spider was of a copper colour, the belly pretty large for the bigness of the Spider. It was found in the middle of a web, in *Cain-Wood*, about the sixteenth of *April*. The eyes were so small as their number could not be perceived.

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N^o XXVII.

N^o. XXVII.

THIS Spider was of a longish shape, and of a yellowish green colour; its feelers were slender. It was taken about the middle of *April*, in *Cain-Wood*.

N^o. XXVIII.

THIS Spider was of a blueish white, with a broad streak of white on the middle of its back; bordered with black on each side, the upper side of the belly was finely marked with black, and spotted with small black spots on the legs. It had small globular knobs at the ends of its feelers.

N^o. XXIX.

THIS Spider was of a hair-colour; it had a pretty large belly, the upper part of which, by the shadowing of the colours, appeared in a square form; the two foremost legs were the longest; the feelers small. It was taken about the middle of *April*, in *Cain-Wood*.

N^o. XXX.

THIS Spider was of a light brown or chesnut colour on the back; the upper side of the belly white shadowed towards the tail, with a deep shade of yellow, and a row of darker spots of the same colour on each side of the belly; its feelers small; the two foremost legs were longer than the other. It was taken in *Cain-Wood*, about the middle of *April*.

N^o. XXXI.

THIS is one of the most beautiful Spiders, if you look on it with a *Microscope*, as is possible to be seen; there is such a variety of marbling in pretty shapes of several colours, *viz.* black, chesnut, redish, and white
mixt

mixt all over the back, the belly, legs and feelers. It appears to the naked eye to be a greyish speckled Spider being all over rough and hairy; the feelers have globular ends and are hairy. It had eight eyes placed as is expressed in the Plate, the two middlemost in the top being the largest. This Spider catches his prey by jumping on it, and is extremely nimble in its moving any way it pleases. It was taken in a garden at *Hackney*.

N^o. XXXII.

THIS Spider was of a dark colour, there was a broad light streak of hair-colour in the middle of the back; the upper side of the belly was as if it was marbled or watered, and all over very hairy. The feelers had pointed knobs at the ends, of a shining black, and below that another knob, which made them look as if they had been turned by a *Turner*; it had six small eyes. This was a male Spider, and taken in the house at the latter end of *April*.

N^o. XXXIII.

THIS Spider was of a black colour, with a small stripe of lighter colour in the middle of the back, the upper part of the belly was lighter; the feelers had pointed knobs at the ends; it had four eyes standing as is expressed in the Plate. It was taken at the latter end of *April*, near *Newington-Green*.

N^o. XXXIV.

THIS Spider was of a hair-colour, the back was short, the belly large, the upper side of which was prettily marked with light colour in the middle, and dark on the sides: these marks were so regularly placed, as made it appear as if jointed on the back, it had a small triangular spot in the middle, with a white line round it; and on the outside of that

line it was dark ; the two foremost legs were the longest : Its feelers were long and slender ; it had six eyes, the two foremost were very small, the two next pretty large : they were placed as are expressed in the Plate. It was taken amongst some nettles near *Newington-Green*, at the end of *April*.

N^o. XXXV.

THIS small Spider is of a dark reddish or chesnut colour, its back dark, the upper side of its belly was prettily marked with white and light chesnut colour : It had globular bunches at the ends of the feelers, the legs were very long for the bigness of the Spider, the two foremost being the longest : It had four eyes standing in a right line, in the forepart of his head. This Spider was taken at the latter end of *April* in *Cain-Wood*.

N^o. XXXVI.

THIS Spider was of a dark ash colour on the back, which was very small, the upper side of the belly was black and white, regularly marked, representing the shape of an *Oak-Leaf*, having a small shade of chesnut colour in it, the belly of this Spider was very large : its feelers small and long ; it had eight eyes placed as they are expressed in the Plate. It was taken by the *New-River*, at the latter end of *April*.

N^o. XXXVII.

THIS Spider was, on the upper part of its back, of a shining black, the lower part next the belly of a colour inclining to red, the belly black, regularly marked with a lighter colour much resembling a leaf ; its legs were of a dark red or chesnut colour, spotted with black ; the feelers were slender : Its back was so shining, and its eyes so small that they could not without great difficulty be discerned, they were eight in
number

number placed as they are expressed in the Plate. The hind legs were not very long. It was taken in a *Cellar*, at the latter end of *April*.

N°. XXXVIII.

THIS Spider was all over of a hair-colour, with a light streak in the middle of the back; in which was a small black line, the upper part of its belly was regularly marked representing joints, the legs were finely spotted with black; its feelers slender; It had eight eyes placed as they are expressed in the Plate. This Spider was taken in a *Cellar*, at the latter end of *April*. The thick web of this, and all the house Spiders may be made *Use* of, in the cure of all *intermittent* Fevers.

N°. XXXIX.

THE back of this Spider was of a dark copper colour, the whole belly perfectly black, the legs of a chesnut colour finely spotted with black; its feelers were slender: The eyes were so small and close together as not rightly to be discerned as to their number and form. It was taken in a moist place under a shed at the latter end of *April*.

N°. XL.

THIS Spider was all over of a brown colour: the two foremost legs were the shortest, the two next the longest of all; the other two or third pair being short, the hind legs long: This Spider was taken at *Hackney*, in the beginning of *May*. This Spider seems to be one of the long-legged kind.

N°. XLI.

THIS Spider is of a chesnut or redish colour on the back, with a shade of green, the legs of the same colour, the whole belly was of a very fine green, on the upper part on each side was a row of dark coloured

coloured spots, and at the end of the tail a spot or tip of scarlet colour; its feelers small and of a transparent green colour, it had six eyes placed as is expressed in the Plate, they were very plain to be seen, the body being almost transparent, and the eyes black. It was taken in a web on an *Elm-Tree*, eating a large black *Fly*, at the beginning of *May*, on *Epping-Forest*. There was one taken at the same time much smaller, but marked exactly like the great one.

N^o. XLII.

THIS Spider was of the same colour, and marked exactly like the former, the feelers of the former being of a transparent green: This Spider's feelers are of a muddy green with globular knobs at the ends: It had six eyes standing as they are expressed in the Plate. It was taken on the *Forest* at the same place and time with the former. These two, I believe, to be male and female.

N^o. XLIII.

THE back of this Spider was of a redish flesh colour with a lightish spot of the same colour in the middle. In the upper side of its belly which was pretty large, was a large dark shade of the shape of a triangle, with a white line, reaching from the back to the tail end, which white line was cut through in several places by the dark shades; the feelers were slender; It had six eyes, placed as they are expressed in the Plate. It was taken in a garden of *SIR Richard Child's* on *Epping-Forest*. in the beginning of *May*.

N^o. XLIV.

THE back of this Spider was chesnut colour, the belly almost black, with a cast of copper colour, on the upper side of which was a white mark joining to the back, the legs were of a light hair-colour very transparent, and finely spotted with black; the feelers had small globular knobs

knobs at their ends: The eyes were so small that their number and standing could not be perceived. This Spider was taken at the beginning of *May*, in a garden at *Hackney*.

N°. XLV.

THIS Spider is of a hair-colour, on the back are two small black lines, the upper side of the belly was of a flesh colour finely marked with a broad mark of black and white; which mark is interrupted or broken off, about the middle; the belly is shadowed and intermixed with a mixture of pale red. Its feelers are long and slender: It had eight eyes standing as they are expressed in the copper Plate. The young ones of these Spiders, which are no bigger than a rape seed, are marked exactly like the old ones; only something darker, and of a copperish colour; which shows they do not alter their marks in their several degrees of bigness. These Spiders were taken about the middle of *May*, by the *New-River* near *Islington*.

N°. XLVI.

THIS Spider is of a dark colour, the back lighter, with a dark line in the middle something like a nine-pin, but more pointed at each end; on the upper side of the belly was a long dark coloured mark, with a border of light colour round it, the whole being spotted with dark spots; the feelers were slender: It had four eyes standing as they are expressed in the copper Plate. This was taken near *Hornsey-Wood*, about the middle of *May*.

N°. XLVII.

THIS Spider was long and slender, being all over of a hair-colour, and finely speckled with small specks of dark colour, the two foremost legs were very long, the two next something shorter, the other pair next them were the shortest of all; the feelers were slender: It had eight
eyes

eyes placed as is expressed in the Plate. These Spiders are very frequent in the *Hedges* about *Hornsey-Wood*. It was taken about the middle of *May*, at which time there were a great many small ones running about, they not differing at all from the old ones in shape or colour. These are called the *Greyhound* Spider. They are so swift in running that they seem to fly.

N°. XLVIII.

THIS Spider on the back is of a dark muddy yellow, inclining to a blackish colour, the belly blackish, with a white hoary look; the legs were yellow; the feelers yellow and slender: It had eight eyes placed as is expressed in the Plate. It was taken about the middle of *May*, near *Hornsey-Wood*. One of these Spiders was taken near *Hambleton* in *Buckingham-shire*, wrapped up in a leaf of the winter green, with a great many young ones with it; the legs and back of this Spider were not so yellow as the former but more inclining to a chesnut colour.

N°. XLIX.

THIS Spider's back is of a blackish colour, the upper part of its belly being finely marked with a redish, and blackish mixture, and on the upper part next the back was a white mark in the form of a Y. Its legs were of a pale colour finely spotted; the feelers had small globular bunches at the ends. The eyes of this Spider could not be distinguished.

N°. L.

THIS Spider was small and flat, almost resembling a tick. It was of an ash colour, each side of the back having a little mixture of red; the feelers were slender, the eyes of it could not be seen.

N°. LI.

N°. LI.

THE back of this Spider was of an ash-colour; all the other parts were of a redish colour; on the upper part of the belly was a row of white marks; from the back to the end of the tail, and between those white marks, it was finely marbled with a variety of shades of red, in the shape of a triangle scolloped on each side, and a row of black spots on the outside of the scolloped line; the legs were of a pale colour spotted with black; the feelers were slender and of an ash-colour: It had eight eyes placcd as is expressed in the Plate. It was taken in a garden at *Hackney*, about the middle of *May*.

N°. LII.

THIS Spider seemed to be of a lead colour, and of an oval shape; its back was very light; the upper end or head white, with a line of pale orange colour along the middle of the back; the upper part of the belly was very dark, almost black, going down the sides in a lighter shade; the under side of the belly was of a sad colour: It had eight eyes placed as they are expressed in the Plate; Its feelers were long and slender. It was taken near *Newington-Green*, about the latter end of *May*.

N°. LIII.

THIS Spider was all over of a chesnut colour, with a streak of light colour on the back; its belly was of an oval shape, the upper part of which was the darkest; the whole Spider had a velvet look: It had eight eyes placed as they are expressed in the copper plate; the feelers were slender. It was taken at the beginning of *June*, in *Cain-Wood*, and put into a box over night, and by the morning it had laid eggs and wrapped them up in a round white ball, holding it under its belly.

D

N°. LIV.

N^o. LIV.

THIS Spider was of a slender shape and its legs long, considering its bigness; on the middle of its back was a whiteish line, on each side of that black, and below that a light hair-colour; the upper part of the belly was of a dark chesnut colour; that part next the tail almost black; the other end, next the back, inclining to a dark red; the sides of a whiteish colour, and below that black; the legs were of a chesnut colour. Its feelers were knobbed and pointed at the ends, and on the inner side of those knobs there was a large black shining spot looking like polished jett. It had eight eyes placed as in the Plate, and was taken in *Cain-Wood*, in the beginning of *June*.

N^o. LV.

THIS Spider was of an orange colour; it had on its back a streak of light, and next to that on each side it had a dark shadow, and on the outside of that shadow was a light line of the same colour of the first; the upper side of the belly had on each side a line or streak of dark colour ending in a point at the tail; the feelers were slender: It had eight eyes placed as they are expressed in the Plate. It was taken in *Cain-Wood*, in the beginning of *June*.

N^o. LVI.

THIS Spider was of a most beautiful green colour, all over its body, legs and feelers, which last were slender: It had eight eyes, placed as is expressed in the copper Plate. It was taken running on the ground in *Cain-Wood*, at the beginning of *June*; it was very nimble and quick-sighted.

N^o. LVII.

N^o. LVII.

THIS Spider was of a dark colour, and shaped almost like a tick; the middle of its back was of a light hair-colour, round which was a pretty large mark of black; the upper side of the belly was of a dark hair-colour, finely marked with a light hair-colour; on the outside of its belly was a fine shade of red; its legs finely speckled; its feelers slender: It had eight eyes placed as they are expressed in the copper Plate. It was taken in a web in *Cain-Wood*, at the beginning of *June*.

N^o. LVIII.

THIS Spider was of a yellowish colour, and shaped like a tick; it had a black line on each side its back, the middle of it being of a pale yellow; the under side of the belly was of the same colour, with small streaks of a darker colour. This was taken in *Cain-Wood*, at the beginning of *June*, where a very small one was taken at the same time, exactly marked like the great one.

N^o. LIX.

THIS Spider was of a whiteish sky-colour, with a black mark on each side the back, and upper part of the belly; the under side of a blueish white; the legs were blueish, and finely speckled with black. Its feelers were small: The number and standing of the eyes could not be distinguished, they were so small and close together. It was taken in *Cain-Wood*, at the beginning of *June*.

N^o. LX.

THIS Spider was of a dark hair-colour, having a lighter stripe of the same colour, in the middle of the back; the upper side of the belly was spotted with black; the whole underside was of a dark hair-colour

without spots; the legs were of a light-hair colour, looking transparent with a few black specks here and there on them. Its feelers were slender. It had eight eyes placed as in the Plate. This Spider was taken from an *Ichneumon Fly*, in *Cain-Wood*, in the beginning of *June*.

N°. LXI.

THIS Spider was of a hair-colour; its back very dark; the belly light in the middle and clouded on the sides with a dark colour; the whole under side of the same of a dark colour; its legs blackish; the feelers slender. It had eight eyes standing in a semicircular form, as is expressed in the copper Plate. This is one of the Spiders which catches his prey by jumping on it. It was taken in *Cain-Wood*, in the beginning of *June*.

N°. LXII.

THIS Spider is all black, excepting four white specks on the upper side of the belly; the feelers were of a whiteish, or very pale yellow; the legs were of a dark yellow. It had eight eyes standing in a semicircular form, as they are expressed in the copper Plate. This is another of the jumping Spiders, and was taken at the same time and place as N°. LXI.

N°. LXIII.

THE back of this Spider is dark in the middle with a whiteish line round it; its back is much broader and bigger than its belly; the upper side of the belly is of a light chefnut colour, with a darker colour round it; the whole underside is blackish; its legs speckled; the feelers slender. It had eight eyes placed in a semicircular form, as they are expressed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*, and is one of the jumping Spiders.

N°. LXIV.

N^o. LXIV.

THIS Spider's back and belly was of a curious shining black, with some few spots and marks of white, on the top and sides of its belly; the legs were of a redish chesnut colour; its feelers black and slender; the belly was large for the bigness of the Spider. It was so bright and shining that its eyes could not be discerned. It was taken in *Cain-Wood*, in the beginning of *June*.

N^o. LXV.

THE back, legs, and feelers of this Spider were of a hair-colour; the upper side of its belly finely marked with chesnut, orange and white; on the under side there was a broad black mark, reaching from the head to the tail. It had six eyes placed as they are expressed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*.

N^o. LXVI.

THE back of this Spider was large and black, with two red marks, on the lower part next the belly, which was small and pointed at the tail end, and finely marked with white; the legs were between a black and chesnut colour; the feelers of a light hair-colour with globular pointed knobs at the ends; on the innermost side of which was a shining black spot. It had six eyes placed as is expressed in the Plate. It was taken in *Cain-Wood*, at the beginning of *June*.

N^o. LXVII.

THIS long legged Spider was of a yellowish hair-colour, the back, belly, and head making one intire lump, having no division between the back and belly, as in other Spiders; the feelers were slender; towards
the

the head, on the upper side, was a rising knob, on which were placed two pretty large eyes. This was taken in *Cain-Wood*, at the beginning of *June*.

N°. LXVIII.

THE back of this Spider hath a small line of orange colour in the middle, and on each side of that a broad stripe of black; and on the outside of the back a light hair-colour; the upper side of the belly was black, with marks of hair-colour down the middle, in the shape of hearts; the sides of the belly whitish; next to that black, which come off into a faint shade of ash colour; the whole underside was of the same colour; the legs and feelers both of a hair-colour. It had eight eyes placed as in the copper Plate, the uppermost of which, that stood in a row, were the smallest. It was taken running on the ground by a hedge side, near *Woolwich* in *Kent*, about the middle of *June*.

N°. LXIX.

THE back of this Spider was black, with three white marks or specks on it, the upper part of the belly, black, with a semicircular line white, of on the upper part next the back, and two stripes of white on each side, pointing upwards towards the middle of the belly; the legs were hair-colour, spotted with a darker colour; the feelers slender. It had eight eyes placed as they are expressed in the copper Plate. It was taken in a garden at *Hackney*, in the beginning of *June*.

N°. LXX.

THIS Spider was all over of a brown colour; its back and belly were near of a bigness; the belly had an indented stripe of a lighter colour rising in the middle, making its belly appear gibbous; its legs were something long and finely spotted; its feelers were slender. This
Spider

Spider was taken with a small flatish ball of eggs, of a blueish colour, which it held under its belly. It was found near *Woolwich* in *Kent*, about the middle of *June*.

N^o. LXXI.

THE back of this Spider was of a dark red colour; the belly, which was pretty large for the bigness of the Spider, was marked with black, white, and orange coloured marks. It had a ball of eggs when it was taken, which was round, and of a pale blue colour. It was found about the middle of *June*, near *Charlton* in *Kent*.

N^o. LXXII.

THIS Spider had, on the middle of the back, a large dark spot edged with a light colour, and on the outside of that black; the upper side of the belly was prettily marked, with black and hair-colour; the legs were of a dark colour; its feelers had globular ends. This was taken near *Charlton* in *Kent*. The eyes were so small that their number and standing could not be distinguished.

N^o. LXXIII.

THE back of this Spider was of a red colour; the upper side of the belly was black, with a whiteish yellow mark along the middle, like a small sprig of the yew tree; the end of its tail was forked; its feelers were slender. It had eight eyes placed as they are described in the Plate. It was taken in a warren near *Woolwich* in *Kent*, about the middle of *June*, in a very thick web on the ground, making a large hole for its ingress and egress, where it lays concealed till the prey is entangled, and then coming forth it lays hold on it, and killing it carries it into its hole. Some of these Spiders are taken in *July*, much larger; but nothing differing in shape or colours.

N^o. LXXIV.

N^o. LXXIV.

THE back of this Spider is of a reddish colour, the upper side of its belly black, striped with white like a sprig of yew; its tail forked; the legs of a dark colour; as were also the feelers, which were knobbed and pointed at the ends: It had eight eyes standing as they are expressed in the copper Plate. It was taken in a thick web about the middle of *June*: I take this to be the male to N^o. LXXIII.

N^o. LXXV.

THE back and belly, of this Spider both upper and under-side, were of a shining black, as if polished, or varnished; and on the upper side of its belly it had two rows of dents, or hollow specks set in a regular order; the legs and feelers were of a very dark red; the eyes could not be seen by reason of its shining-blackness; the tail was forked. It was taken about the middle of *June*, creeping on the ground, near *Charlton* in *Kent*.

N^o. LXXVI.

THIS Spider's back and legs were of a dark redish hair-colour; the whole belly of a dark lead colour, rough and hairy, the tail forked and of a flesh colour; its feelers slender. It had eight eyes placed as they are expressed in the Plate. It was taken near *Woolwich* in *Kent*, about the middle of *June*.

N^o. LXXVII.

THIS Spider was all over of a hair-colour, finely marked and mottled with black; its legs long and smooth; its feelers long and slender. It had eight eyes placed as they are expressed, by the dots over the Spider,

in

in the Plate. It was taken about the middle of *June*, upon a dry bank on *Putney-Heath*, where it spun a very thick web, and had made two holes which led into a large hole in the bank, in which it lay very still, expecting its prey which, as soon as it is entangl'd, it would run out and catch up, and run into the hole with it.

N°. LXXVIII.

THE back of this Spider was of a flesh colour mix'd with a cast of green; the legs and feelers of a chesnut colour, with a greenish cast; the upper side of the belly was of a bright yellowish green in the middle, and a blueish green on the outsides. It had a beautiful red spot at the end of its tail: It had six eyes placed as is expressed by the dots over the Spider in the Plate. It was found in a thin web on the bushes on *Putney-Heath*, about the middle of *June*.

N°. LXXIX.

THIS Spider was all over of a light yellowish green; on the upper side of the belly there were two rows of small black spots; its feelers were slender; the legs long for the bigness of the Spider. It had six eyes placed as they are expressed in the Plate. After it was taken it shed its skin, but differed nothing from what it was before. This was taken about the middle of *June* on *Putney-Heath*.

N°. LXXX.

THIS Spider was all over of a buff colour, with a dark chesnut coloured mark on each side the back and belly, and two spots of the same colour near the tail. The feelers were long and slender. It had eight eyes placed as is expressed in the Plate. It was taken on a furz-bush on *Putney-Heath* on the twenty first of *June*.

E

N°. LXXXI.

N°. LXXXI.

THIS Spider was white both on the upper and under side of its legs and feelers; it had a dark shade on each side its back. It had a small shade of red on the head; on the upper side of the belly were two rows of dents or dimples, and two specks of red near the back, and two larger on the side of the belly. It had eight eyes placed as they are expressed in the Plate. It was taken on the twenty eighth of *June*, in *Bishop's-Wood* near *Hamstead-Heath*. Two of these Spiders were taken in a *Wood* near *Henley* upon *Thames*, about the middle of *June*; the red spots on one of these being much larger than the spots on this Spider.

N°. LXXXII.

THE back of this Spider was of a redish cast; the sides of a dark colour; the upper side of its belly was of a dirty yellow, with a long square mark in the middle; ending in a large dark spot next the tail, which was forked; the underside of the belly was of the same colour, having two large spots thereon, as if gilded with fine gold. It had eight eyes, as they are expressed in the Plate. It was found spun up in the tops of green sorrel, and with it a bag of eggs of a pale red colour, near *Lusham* in *Kent*, at the beginning of *July*.

N°. LXXXIII.

THE back of this Spider was of a flesh colour, finely marked with black; the upper side of the belly is black, as prettily marked with white, and on the white fine specks of black, as were also the sides of the belly. Its legs were spotted with a dark colour; its feelers long and slender. It had eight eyes placed as is expressed in the Plate. It was taken in a very broad web, which was spread on the ground with a large hole for its retreat, on the eighth of *June*, near *Dulwich* in *Kent*.

N°. LXXXIV.

N°. LXXXIV.

THIS Spider was all over of a hair-colour; the sides of its back of a darker colour; the legs and sides of its belly paler, and speckled with the same dark colour. Its feelers were slender. It had eight eyes placed as they are expressed in the copper Plate. It was found in a web spun up in a *Hazel-Leaf*, with a ball of eggs of a yellow colour wrapped round with a white web, in a *Wood* beyond *Peckham*, in the beginning of *June*.

N°. LXXXV.

THIS Spider was all over of a hair-colour; the middle of its back light, and the sides dark, almost black; on the upper side of the belly was a light coloured mark in the shape of a feather, and in it a longish black square. Its feelers slender. It had six eyes placed as in the Plate; the sides of the belly were of a chesnut colour. It was taken at the beginning of *July* near *Dulwich*.

N°. LXXXVI.

THIS Spider was of a light ash colour, with a white line in the middle of its back, and a whitish mark in the middle of the upper side of its belly; the sides of the belly white; its legs hairy; the feelers long and slender. It had eight eyes placed as they are expressed in the Plate. It was taken in the beginning of *July*, and with it a ball of eggs, which it held fast with its legs; which ball, when broken, was found full of young Spiders all black.

N°. LXXXVII.

THIS Spider was of a light hair-colour, streaked and speckled with black; on the upper side of the belly there were two rows of marks

spotted with black and white; the legs were long, and finely spotted; the feelers slender. It had eight eyes standing as they are expressed over the head of the Spider in the Plate. At the end of its tail there were little short things like feathers standing up, which it opened and shut like a fan at its pleasure. It was taken in the middle of *July*, in a *Chamber-Window*, at the *Greyhound Inn* at *Maiden-Head*.

N°. LXXXVIII.

THIS is one of the long legged Spiders, of a dark hair-colour; its body was small and something flatter than is usual in these sorts of Spiders; its legs and feelers were long. It had but two eyes standing as they are expressed in the copper Plate. It was taken near *Peckham*, in the beginning of *July*.

N°. LXXXIX.

THIS Spider's back was of a darkish ash colour, with a cast of red; the upper side of the belly was of a redish hair-colour, with a large clouded triangle; in the middle of which there were white marks, regularly placed from the back to the end of the tail. The legs of this Spider were hairy and finely spotted, and intermixed with some bristles; the feelers slender and hairy; as was also the whole Spider. It had eight eyes standing as they are expressed in the copper Plate.

N°. XC.

THE back and legs of this Spider were of a dark green, the belly of a fine grass green; on the upper side of which there was a pretty large mark of dark green, and round the mark of dark green, a yellowish green. Its feelers were slender. It had eight eyes standing as they are expressed in the Plate. It was taken upon an *Oak-Tree* in *Cain-Wood*, at the latter end of *July*.

N°. XCI.

N°. XCI.

THE back and legs of this Spider looked transparent, like clear horn, excepting the spots, which were red and black, which made them look like Tortoise-shell, the upper side of the belly was yellow, except a very large mark on that part next the tail, and about that two very small black specks. It had eight eyes, standing as they are placed in the copper Plate; the feelers were slender. It was taken in a *Leaf* closed together, near to a web which it had made. I took one of these on an *Oak*, in *Cain-Wood*, at the beginning of *September*.

N°. XCII.

THE back and legs of this Spider were of a hair-colour; the feelers, were slender and of the same colour; on the upper side of the belly was a large indented mark of white incompassed with a deep scarlet colour; the sides of the belly yellow. It had six eyes placed as in the copper Plate. It was found in *Cain-Wood*, at the end of *July*, inclosed in an *Oak-Leaf*, with a web in which was a ball of eggs of a pale blueish colour.

N°. XCIII.

THE middle of the back of this Spider was dark, with a light colour round it; the upper side of the belly dark, with a light coloured mark, in the form of a cross; and below that, next the tail, there were small streaks or lines of a light colour quite cross the lower part of the belly; the under side of the belly light and finely speckled with dark colour: Its feelers slender. It had eight eyes standing as they are expressed over the Spider in the Plate. It was taken in *Cain-Wood*, at the latter end of *July*.

N°. XCIV.

N^o. XCIV.

THE back, belly, legs, and feelers of this Spider were of a dark chesnut colour, except some fine light coloured spots on the upper side of the belly; the two lowermost of which were the biggest. It was taken in *Cain-Wood*, folded up in a *Leaf*, and with it a ball of eggs, at the latter end of *July*.

N^o. XCV.

THE back and legs of this Spider were of a dark green; the belly of a light-green with a dark line on the upper side of it: This Spider was slender; the feelers pretty long. It had eight eyes standing as they are placed in the copper Plate. It was taken in *Cain-Wood*, at the latter end of *July*.

N^o. XCVI.

THIS long legged Spider was, on the upper side of its body, black; the sides of a hair-colour; the belly on its under side yellowish; the legs spotted from their middle to the body. The feelers were long and slender and of a light hair-colour. This Spider was taken in *Cain-Wood*, at the latter end of *July*.

N^o. XCVII.

THIS Spider's back and legs were of a hair-colour, the belly whitish, speckled and veined with black so curiously that it is impossible to describe it; the feelers were long and slender. It had six eyes standing as they are placed in the Plate. It was taken in the middle of a web at the latter end of *July*, in *Cain-Wood*, it was kept in a box two or three days, in which time it made a ball of eggs very round and white.

N^o. XCVIII.

N°. XCVIII.

THE back and legs of this Spider were of a dark colour; the upper side of the belly white, and in the middle a dark mark, something like a spleenwort leaf. The feelers had shining globular knobs at the ends. It had six eyes standing as they were placed over the head of the Spider in the Plate: Two of its eyes were placed so near together that they seemed but one. This was taken in *Cain-Wood*, in the middle of its web, at the latter end of *June*.

N°. XCIX.

THE back and legs of this Spider were of a dark hair-colour; the upper side of its belly white, finely marked with red and hair-colour, and in the middle a row of white marks, of a longish square fashion, but so small as scarcely to be expressed with a pencil. Its feelers were long and slender. It had six eyes placed as they are expressed in the drawing in the copper Plate.. It was taken in *Cain-Wood*, at the latter end of *July*.

N°. C.

THIS Spider was all black, with some white marks on the upper side of its belly; it had globular bunches at the ends of its feelers. It was found amongst some nettles in the *Fields* near *Hammer-smith*, at the latter end of *July*.

N°. CI.

THIS Spider was all black, both back, belly, legs, and feelers, except some very small white marks on the upper side of its belly; the feelers were slender; the eyes were so small as not to be distinguished
It.

It was taken in a *Field*, near *Rotherhith*, about the end of *August* folded up in the *Leaf* of a *nettle* with a ball of eggs of a blueish colour. This is the female to N°. C.

N°. CII.

THE back of this Spider was black in the middle, and of a dark red or chefnut colour on the sides: The upper side of the belly was of a light ash colour with a black mark round the edge, and in the middle it had six black specks; the two uppermost next the back were the smallest, the under side of the belly was of a light ash colour, with a streak of black in the middle; the legs were spotted; the feelers slender. Its eyes could not be perceived, by reason of the shining of the upper part of its back, next the head. It was taken in a *Garden*, at *Hackney*, about the latter end of *August*.

N°. CIII.

THE back of this Spider was of a dark yellow, with a shade of chefnut colour in the middle; the belly was of a long oval shape, the upper side of which was of a light yellow and white, finely marked with dark shades of brown and orange colour; the legs were of a dark colour, but finely spotted; its feelers were slender. It had six eyes placed as in the copper Plate, over the head of the Spider. It was taken under the coping of a *Wall* at *Hackney*, at the latter end of *September*.

N°. CIV.

THE back of this Spider was of a flesh colour, with a shade of dark red in the middle; the upper side of the belly was of a redish colour, with triangular marks of white. Its legs were of the same colour of the
middle

middle of the back; its feelers lighter, with globular bunches at the ends, ending in a point. It had four eyes standing as they are expressed in the Plate.

N°. CV.

THIS large long legged Spider was of a hair-colour, and very hairy all over the back, belly, legs, and feelers; its back is the darkest part; on the upper side of the belly were two rows of black and light spots, placed interchangeably one after the other. The feelers have two knobs on each; the last ending in a point. It had eight eyes standing as they are expressed in the copper Plate. It was taken under the coping of a *Garden-Wall*, at *Newington*, about the middle of *September*.

N°. CVI.

THIS Spider was of a yellowish hair-colour; in the middle of its back was a streak of black, in the middle of which was a square; the belly, which was very slender towards the tail, on its upper side was marked cross-wise with a dark colour and lines of black; the legs were of a yellowish hair-colour, and full of black bristles, the foremost of which were very long for the bigness of the Spider; the feelers had globular knobs at their ends. It had six eyes placed as they are expressed in the Plate, and was taken by the *New-River* near *Issington*, about the middle of *September*.

N°. CVII.

THE middle of the back of this Spider was black; the sides red; the belly was of an ash colour, the upper part of which was prettily marked with a blackish colour, and the sides of the belly finely speckled

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with

with the same. Its legs were spotted; the feelers slender. It had six eyes standing as they are expressed in the copper Plate. It was taken under the coping of a *Garden-Wall*, at *Newington*, about the middle of *September*.

N^o. CVIII.

THE back of this Spider was of a darkish red, or chesnut colour, striped with black, the middle being the lightest; the upper and under side of the belly were of a hair-colour finely marked and speckled with a darker colour; the legs and feelers were of a dark chesnut colour; the feelers hairy. It had eight eyes standing as they are placed in the copper Plate. It was taken in a *Garden* the twenty seventh of *August*.

N^o. CIX.

THE back of this Spider is yellowish, and the sides of it black; the upper side of the belly was of a hair-colour, which being viewed by a magnifying glass, it was so finely clouded with small specks as not to be described; the legs were spotted; the feelers slender. It had six eyes standing as they are expressed in the copper Plate. It was taken under the coping of a wall, at *Newington*, about the middle of *September*.

N^o. CX.

THE back of this Spider was blackish in the middle, and redish on the sides; the belly was of a dark chesnut colour, in the middle of which was a row of white spots; the feelers were slender, the legs spotted. It had eight eyes standing as they are placed in the copper Plate. It was taken in a *Garden* at *Hackney*, about the middle of *September*.

N^o. CXI.

N^o. CXI.

THE back of this Spider was of a dark redish ash colour, with small lines of black; the belly of a dark redish chesnut colour, with several clouds of a darker colour, set in a regular order, on the middle, and sides, and between them several spots of light ash colour. It had also a row of long and round spots, white in the middle, reaching from the back to the tail. Its legs were of a hair-clour, spotted and hairy; the feelers were long and hairy. It had eight eyes standing as they are placed in the copper Plate. It was taken in a *Garden at Hoxton*, about the middle of *August*, and kept in a box, and fed with flies till the twenty seventh of *September*, in which time it neither altered in colour or bigness.

N^o. CXII.

THE back of this Spider is of a lightish lead colour, with marks and spots of black; its legs and feelers were of a light hair-colour. This is one of the long legged kind, having no division of back and belly, as in other Spiders. The legs were something shorter, and the body larger than is commonly seen in this sort of Spiders. It was taken under the coping of a *Wall behind Shore-Ditch-Church*, at the end of *September*.

N^o. CXIII.

THE back of this Spider was of a dark hair-colour, the middle something lighter; the belly of a yellowish hair-colour, finely spotted, and marked with a dark colour; the legs of a dark colour; as were also the feelers; the body, legs, and feelers were all over beset with fine hairs. It had eight eyes standing as they are placed in the copper Plate.

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N^o. CXIV.

N°. CXIV.

THE back of this Spider was very dark; the upper side of the belly was of a dark ferruginous colour, spotted with black with a large dark scolloped mark, in which were twelve small white spots. The legs were of the same colour, and spotted with black; the feelers dark and slender. It had six eyes standing as they are placed over the head of the Spider in the copper Plate.

N°. CXV.

THE back and belly of this Spider were of a deep flesh colour; the upper side of the belly was crossed with several lines of a dark colour; the foremost legs were the longest; the two next pair something shorter; the third pair the shortest of all. They were of a dark colour, and longer than is usually found in Spiders of this bigness. The feelers had globular pointed ends. It had eight eyes standing in two streight rows, as they are expressed in the copper Plate.

N°. CXVI.

THE back of this Spider was of a very dark colour in the middle, and a light ash colour on the sides; the upper part of the belly was of a scarlet colour, with a broad border of white on each side; the under side dark ash specked with black; the legs were of a light ash colour, with a very remarkable protuberance on the outermost joint of the two foremost: The feelers were slender. It had six eyes standing as they are placed over the Spider in the copper Plate.

N°. CXVII.

THE back and legs of this Spider were of a mixture of green and hair-colour; the upper side of the belly was white; the sides and under
part

part of it light green spotted in the manner of stripes with black; the feelers slender, and of a faint green colour. It had six eyes standing as they are placed over the head of the Spider, in the copper Plate.

N^o. CXVIII.

THIS Spider was of a pale redish hair-colour; its back formed in a circular manner, from the middle of which the head rises forward in a bunch; the upper side of the belly was marked with lines and stripes of a dark hair-colour; the legs and feelers were hairy, the latter having pointed knobs at the ends; its tail was forked. It had eight eyes standing as they are placed, over the head of the Spider, in the copper Plate. I took one of these Spiders larger and something darker, under the coping of *Hide-Park Wall*, on the twenty fourth of *August*.

N^o. CXIX.

THIS Spider was all over of a pale green colour, excepting a black mark on each side the back, and two marks of the same colour on the middle of the upper side of the belly. It had something of the resemblance of the tick kind; it had globular knobs at the ends of its feelers. It was taken in a *Garden* at *Hackney*, on the twentieth of *April*.

N^o. CXX.

THE back of this Spider was of a dark muddy green colour; the upper side of its belly of a dark green, with several black marks; the outer corners of the belly next the back were knobbed, like some of the wood bugs. Its legs were green and spotted with black; the feelers slender. It had eight eyes standing as they are expressed in the copper Plate. It was taken in a *Wood* near *Lusham* in *Kent*, the twenty third of *May*.

N^o. CXXI.

N°. CXXI.

THIS Spider was of a light yellowish green all over the body, legs, and feelers, with a faint shade on each side its back, and a few spots of the same colour on the upper side of the belly; its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was taken in a *Wood* near *Lusham* in *Kent*.

N°. CXXII.

THE back of this Spider was of a pale orange colour; the upper side of the belly was marked very curiously with a light green, and hair-colour; the white part, looking like silver, made it appear very beautiful; the two fore legs were the longest; the next pair something shorter; the third pair the shortest; the feelers were slender, and its body of a singular shape. It had eight eyes standing as they are placed in the copper Plate. It was taken in a *Hedge* beyond *Peckham*, on the twenty third of *May*.

N°. CXXIII.

THIS long legged Spider was of a dark hair-colour on the upper side, having a streak of light colour in the middle of its back; the legs of a dark colour; its feelers slender; the under side of its body was of a yellowish white. It was taken under the coping of a *Wall* at the latter end of *August*.

N°. CXXIV.

THE back of this Spider was of a dark red colour; the belly black, finely speckled with white; the legs blackish; the two foremost being the longest; the next pair something shorter; the third pair the shortest

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of all; the body of a peculiar shape; the feelers slender. It had eight eyes standing as they are placed in the copper Plate. It was taken in a Hedge beyond *Peckham* on the twenty third of *May*.

N°. CXXV.

THE back of this Spider was of a hair-colour, with a mark of a dark shade in the middle; the upper side of the belly was yellow, in the lower part of which was a dark mark with two small spots over it, and next the back a shade of the same colour; the legs were spotted; the feelers had globular bunches at the ends of a dark colour. It had eight eyes standing as they are placed in the copper Plate. It was taken in a Hedge near *Hornsey*, on the twenty fourth of *August*.

N°. CXXVI.

THE back of this Spider was of a dark ash colour; the upper side of the belly was white; the sides black, and a large black mark on the lower part next the tail; the white on the belly was so finely speckled with fine black specks as scarcely to be discerned without a glass, the legs were short and spotted with dark spots; its feelers were slender. It had eight eyes placed as in the copper Plate. It was taken in a Hedge, near *Newington-Green*, about the latter end of *August*.

N°. CXXVII.

THE back of this Spider was of a transparent green colour; the upper side of the belly was of a yellowish white, having towards the tail a black streak, encompassed with black spots; the legs long, considering the bigness of the Spider, and transparent, excepting at the joints, which made them look like spots; its feelers were slender. It had eight eyes

eyes standing as they are placed in the copper Plate. This Spider was found wrapt up in a *Nettle-Leaf*, and with it a ball of eggs of a blue colour, on the sixth of *September* near *Camberwell*.

N°. CXXVIII.

THIS long legged Spider was of a dark hair-colour on the upper side, having a streak of light colour in the middle of its back; the legs of a dark colour; its feelers slender; the under side was of a yellowish white. It was taken under the coping of a *Wall*, at the latter end of *August*.

N°. CXXIX.

THE back of this Spider was of a dark colour; the upper side of the belly is so finely mark'd with orange colour, yellow and dark hair-colour, that no painting can truly express it; the legs were dark and spotted; its feelers slender. It had six eyes placed as they are expressed in the copper Plate. These Spiders are found common near *Putney* amongst the *Nettles*, in which they had spread their webs; in which, webs were taken both flies and butterflies.

N°. CXXX.

THIS Spider was of a yellowish red colour, with two broad stripes of black in the middle; the upper part of the belly, which was slender, was of a yellowish colour, with a large white spot next the back, marked with dark hair-colour and redish spots; its legs were of a dark red colour; the feelers were globular at the ends. It had six eyes standing as they are placed in the copper Plate. It was taken amongst the *Nettles* near *Putney-Common*, and seems to be the male to CXXIX. It was found the eleventh of *September*.

N°. CXXXI.

N°. CXXXI.

THE back of this Spider was of a dark hair-colour, and blackish in the middle; the belly was very large, the upper side was of a yellowish hair-colour, inclining to a flesh colour, finely marked with white marks edged with a dark hair-colour; the legs were spotted with black; the feelers were slender and also spotted. It had eight eyes placed as they are expressed in the copper Plate. It was taken in a *Furz-Bush*, on *Putney-Heath*, the eleventh of *September*. It had made itself a thick web about the bigness of the top of one's thumb, in which it lay, below which it had spread a thin web standing edge-ways for catching its prey.

N°. CXXXII.

THIS Spider was of a greenish muddy colour all over the back, belly, legs, and feelers; the upper side of the belly was finely marked and spotted with white in a very regular manner; the legs were spotted and hairy; as were also the feelers, which were slender. It had eight eyes standing as they are placed over the Spider in the copper Plate. It was taken, on *Putney-Heath*, on the eleventh of *September*.

N°. CXXXIII.

THIS Spider is one of the long legged kind. Its body was of an orange colour; in the upper part of the body was a black spot, in which stood the two eyes; in the lower part of the body next the tail were two black spots; the feelers were slender; the legs long, and of a blackish colour. It was taken, in *Cain-Wood*, in the beginning of *August*.

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N°. CXXXIV.

N°. CXXXIV.

THIS Spider was all over of an orange colour on the back, belly, legs and feelers; on the upper side of the belly were a row of white marks from the back to the tail; on each side of them was an indented speck, which in the hollow parts looked like two black spots. The legs were spotted at the ends; the feelers long and slender. It had eight eyes standing as they are expressed in the copper Plate. It was taken at *Maidstone* in *Kent*, about the middle of *August*. The same kind of Spider was found in *Cain-Wood*.

N°. CXXXV.

THE back of this Spider was of a dark orange colour, as were also the belly, legs and feelers; the upper side of its belly was so finely mark'd with hair-colour and speckled with white as scarcely to be imitated in painting; Its legs were spotted; the feelers slender. It had eight eyes placed as in the copper Plate. It was taken in *Cain-Wood*, on the twentieth of *September*.

N°. CXXXVI.

THE back of this Spider was of a dark ash-colour; the upper side of its belly yellow, finely marked with green, and spotted with flesh colour; the legs were transparent and spotted with black; those parts of the legs next the body between the spots were red. Its feelers were slender, transparent and spotted. It had eight eyes placed as is expressed in the copper Plate. It was taken in a *Hedge*, near *Hornsey-Wood*, on the twentieth of *September*.

N°. CXXXVII.

THE back and legs of this Spider were clear and almost transparent, of a pale mixture of green and red; the upper side of the belly was
green,

green, finely marked and speckled with a redish colour; the feelers, were slender. It had six eyes placed as in the copper Plate. It was taken, in *Cain-Wood*, the twentieth of *September*.

N°. CXXXVIII.

THIS Spider was all over of an ash-colour finely speckled with black. It was of a very flat shape, and extrorardinay nimble; its feelers were slender. It was taken, in *Cain-Wood*, on the twentieth of *September*.

*N. CXXXIX.

THIS Spider was all over of a hair-colour both back, belly, legs, and feelers; on the middle of its back were two black marks, and on the upper side of its belly there were four black spots: Its feelers were knobbed and pointed at the ends. It was taken on the sixth of *May* near *Lusham* in *Kent*.

N°. CXL.

THIS Spider was all over its body, legs and feelers, of a dark copperish colour; the legs spotted with black; the feelers long and slender. It had eight eyes standing as they are placed in the copper Plate. This Spider was taken near *Peckham*, on the sixth of *August*.

N°. CXLI.

THIS Spider was of a hair-colour with two black streaks in the middle of its back; the upper side of its belly was finely streaked with white; its feelers were knobbed and pointed at the ends with black. It was taken near *Lusham*, at the same place and time with N°. CXXXIX. They had each of them eight eyes, standing as they are placed over the Spider in the copper Plate.

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N°. CXLII.

N°. CXLII.

THE back, legs and feelers of this Spider were of a bright green colour; the upper side of the belly was of a dark redish colour with a yellow border round it; the whole under side of a yellowish colour: Its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. This Spider was taken in *Cain-Wood* on the eleventh of *September*.

N°. CXLIII.

THE middle of the back of this Spider was of a dark red, inclining to a blackish colour with a stripe of yellow on each side; the upper side of the belly was of a velvet black, and in the middle were two rows of small white specks; on each side the belly it was white; its legs, feelers, and whole under side were of a dark chesnut colour; the feelers were slender. It had eight eyes, placed as in the copper Plate. It was taken on the eighteenth of *April*.

N°. CXLIV.

THIS Spider was all over the back, upper side of the belly, legs and feelers, finely mottled with black and light ash-colour; it had on the fore part of the head near the eyes, a redish mark; the under side of this Spider was of an ash-colour with a cast of green; its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was taken at *Woolwich* in *Kent*. There were two of the same kind of Spiders, which were very small, taken at the same time and place.

N°. CXLV.

THIS Spider was of a dark hair-colour, on the upper and under side; on the upper side of the belly was a large white mark and another

other on the middle of the back; the legs and feelers were also of a dark hair-colour. It had eight eyes standing as they are placed in the copper Plate. It was taken running on the ground, in *Greenwich-Park*, on the thirty first of *March*.

N°. CXLVI.

THE back and belly of this Spider were black, mixed with a redish purple cast, and finely marked and spotted with white; the legs and feelers were of a hair-colour, spotted with the same dark colour of the body: Its feelers were slender. It had six eyes standing as they are placed in the copper Plate. It was taken in *Bishops-Wood*, at the latter-end of *August*.

N°. CXLVII.

THIS Spider's back was of a dark hair-colour; the upper side of the belly of a beautiful green, finely marked with yellow; the legs were of a pale green, spotted with a dark hair-colour; as were also the feelers, which were slender. It had six eyes standing as they are placed over the spider in the copper Plate. It was taken on a *Hazel-Tree*, at the beginning of *September*.

N°. CXLVIII.

THE back and legs of this Spider were of a redish colour; in the upper side of the belly was a long black mark, and round it white, and round the white a broad black scolloped streak; the sides below that were white; the feelers had pointed knobs at the ends. It had six eyes standing as they are placed in the copper Plate. It was taken in *Cain-Wood* on the fourth of *September*.

N°. CXLIX.

N°. CXLIX.

THIS Spider's back is of an orange colour with a spot of dark colour in the middle : The upper side of the belly towards the back was of an orange colour, and the other half towards the tail of a dark redish brown ; the upper half spotted with yellow ; the legs were yellow spotted with a dark hair-colour ; the feelers slender and spotted. It had six eyes standing as they are placed in the copper Plate. It was found on the thirtieth of *August*, amongst some *Fern* on *Hampstead-Heath*.

N°. CL.

THE back and belly of this Spider were of a redish colour ; on the middle of the back was a large dark mark ; the upper side of the belly is marked across with shades of black, and in the middle a row of pale yellow spots, reaching from the back to the end of the tail ; and on each side a row of dusky yellow spots ; the legs and feelers were redish and spotted. It had six eyes standing as they are placed in the copper Plate. It was found near *East-Barnet*.

N°. CLI.

THE back of this Spider was of a yellowish hair-colour, with a stripe of dark brown in the middle, and a dark shade of the same colour on each side ; the upper side of the belly was of the same colours, curiously and regularly mark'd with lines and spots of white ; the legs were yellowish and very hairy, and spotted with dark brown : The feelers were also spotted. It had six eyes standing as they are expressed in the copper Plate. It was found in a *Garden* at *Tottenham-Court* on the twenty seventh of *July*.

N°. CLII.

N°. CLII.

THE back of this Spider was of a dark colour with a shade in the middle and on the sides; the upper side of the belly is of a blueish colour, in the middle finely marked and spotted with white, with shades of black between the marks; the sides of the belly of a light yellowish hair-colour, the legs of the same colour very hairy and spotted; the feelers spotted. It had six eyes standing as they are placed in the copper Plate. It was found in a *Garden* at *Acton*, about the middle of *July*.

N°. CLIII,

THE back, belly, legs and feelers of this Spider were of a light hair-colour, and finely marked with black, and speckled and spotted with white, on the back and upper side of the belly; the legs were hairy and spotted with white and dark hair-colour; the feelers were slender and only spotted with dark colour. It had six eyes standing as they are placed over the head of the spider in the Plate. It was taken in a *Garden* at *Lambeth* in *Surrey*, on the twenty seventh of *August*.

N°. CLIV.

THE back of this Spider was of a dark brown, with stripes of a darker shade in the middle; the upper side of the belly was of a redish or purple cast, with stripes of dark brown across it, and over all prettily marked and speckled with white; the legs were of a dusky deep yellow, very hairy and spotted with black; the feelers were slender and spotted. It had six eyes standing as they are placed in the copper Plate. It was found in a *Garden* in the beginning of *September*.

N°. CLV.

N°. CLV.

THE back, belly, legs and feelers of this Spider were of an orange tawny, the upper part of the belly having a broad stripe of a brown colour from the back to the tail spotted with white; the legs were hairy and spotted with a dark colour; the feelers were spotted. It had six eyes standing as they are placed in the copper Plate. It was found, at the latter end of *August*, in *Bishops-Wood*.

N°. CLVI.

THE back, belly, legs and feelers of this Spider were of a dark yellowish hair-colour, without spots or marks, only the middle of the back excepted, which had two lines ending in a point next the belly; its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was taken in the lower part of an unfinished building at *May-Fair* near *Hide-Park* corner, at the beginning of *June*.

N°. CLVII.

THE back of this Spider was of a light yellowish brown with two or three shadows across it; the upper side of the belly white, with a large mark of light brown, reaching from the middle to the lower end of the belly; the legs were party-coloured; the first and last joints of a hair-colour; the middle joints of a bright red, and spotted with a dark hair-colour at the ends of each joint: its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was taken in *Bishops-Wood*, at the beginning of *September*.

N°. CLVIII.

N°. CLVIII.

THIS Spider was all over of a dark brown colour on the back, belly, legs and feelers, being all over beset with fine hair; its legs were long, and the feelers slender. It was taken in a Stable of the Right Honourable the Lord *Trevers*, at his seat at *Peckham*, about the middle of *August*. This is one of the female house Spiders, and of use when any of your poultery or birds of the insectiverous kind are cramped, or otherwise benumbed with cold; for if you then give them a small Spider or two of the house kind, which they will willingly eat, it will help them.

N°. CLIX.

THE back and belly of this Spider were of a very dark brown, having on the back a circular mark of light hair-colour, with a cast of dark red on the lower part; the upper side of the belly next the back had a small stripe of light colour, and on the outside of that dark brown bordred with red, and on the outside of the red light hair-colour ending in a fork next the tail: Its legs were of a light hair-colour spotted with dark brown; the feelers were slender and spotted. It had six eyes standing as they are placed in the copper Plate. It was taken in a cellar of an old house, at the latter end of *August*.

N°. CLX.

THE back and belly of this Spider were of a dark hair-colour; the back had a circular mark of dark brown, divided in the middle by a line of the same colour; the upper side of the belly had three rows of dark marks reaching from the back to the tail, which was forked;

the legs and feelers were yellow, hairy and spotted. It had six eyes standing as they are placed in the copper Plate. It was taken in an out-house, in the beginning of *June*.

N°. CLXI.

THE back, legs and feelers of this Spider were of a dark hair-colour; the upper side of the belly of a rose colour with two large marks of black, in the uppermost of which were two small lines of white, and under them two hollow specks or dimples of the same colour, in the lower black mark was a cross of white: Its feelers had globular bunches at their ends. It had eight eyes standing as they are placed in the copper Plate. It was taken by the side of a pond, in *Sir Robert Abdey's Park*, about the beginning of *June*.

N°. CLXII.

THIS Spider was all over the back, belly, legs, and feelers, of a dark hair-colour; the upper side of the belly being marked with spots of dusky yellow; its feelers were slender. It was found in a web, which it had spun in a furz-bush. It had four eyes standing as they are placed in the copper Plate. It was found at the latter end of *August*.

N°. CLXIII.

THE back, belly, legs and feelers of this long legged Spider were of a dark hair-colour; the upper half of the body next the head yellowish, with several dark spots like eyes, but I could perceive but two. On the lower part of the body next the tail were four marks across on each side; its feelers were slender. It was found amongst some old timber, which laid on the ground, about the middle of *September*.

N°. CLXIV.

N°. CLXIV.

THE back of this Spider was of a dark hair-colour; the upper side of the belly something lighter, marked with several regular marks and spots of pale yellow; the legs were of a dusky yellow, spotted with dark hair-colour: Its feelers were slender. It was taken in *Bishops-Wood*, at the latter end of *September*.

N°. CLXV.

THIS Spider was all over of a beautiful green colour; on the upper side of its belly were lines of darker green reaching from the back to the end of the tail: Its feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was found running on the ground in *Bishops-Wood*, at the latter end of *June*.

N°. CLXVI.

THE back of this Spider was of a yellowish hair-colour, in the middle of which was a small dark line; the legs were of the same colour, spotted and hairy; the upper side of the belly was of a redish colour, marked with yellow, and dark hair-colour; the feelers were slender and spotted. It had six eyes standing as they are placed in the copper Plate. It was taken on *Finchly-Common*, at the the beginning of *September*.

N°. CLXVII.

THE back of this Spider was of a pale green, with two marks of dark hair-colour; the upper side of the belly hair-colour, with a broad stripe of light green, reaching from the back to the end of the tail; the legs were of a dark hair colour; as were also the feelers, which

were slender. It had eight eyes standing as they are placed in the copper Plate. It was found running on the ground, in *Enfield-Chace*, on the fourth of *August*.

N°. CLXVIII.

THE back of this Spider was of a hair-colour, marked with a spot and broad line of yellow; the upper side of the belly had a mark in the shape of a cross of yellow colour, with a small line of dark red in the upper part; on the outside of the cross it was black with a broad circle of yellow round it spotted with red; on the out side the circle it was of a hair-colour; the legs were of a light hair-colour spotted with black, having bristles of the same colour on the joints; the feelers were slender. It had six eyes standing as they are placed in the copper Plate. It was taken in a web, in *Bishops-Wood*, at the beginning of *September*.

N°. CLXIX.

THE back, belly, legs and feelers of this large Spider were of a yellowish hair-colour; on the back was a large dark mark; the upper side of the belly had eight black spots on it, and two black tips at the end of the tail; the first joints next the body were hairy and beset with black bristles; as were also the feelers; the next joints short and roundish, and joined at each end by two strong black nerves; the two next joints were joined by a single nerve each. It had eight eyes standing as they are placed in the copper Plate.

N°. CLXX.

THE back of this Spider was of a redish colour, with small stripes of dark colour; the upper side of the belly red, with marks of white
and

and dark red; the legs were of a deep dusky yellow, spotted with dark hair-colour; the feelers slender and spotted. It had six eyes standing as they are placed over the Spider in the copper Plate. It was found in *Bishops-Wood*, at the beginning of *September*.

N°. CLXXI.

THIS Spider was all over the back, belly, legs, and feelers of a light brown colour; its legs were hairy and longer than is usually found in Spiders of this bigness; the feelers had globular bunches at the ends. It had six eyes standing as they are placed in the copper Plate. It was found on the ground at the beginning of *September*.

N°. CLXXII.

THIS Spider was all over of a dark redish colour on the back, belly, legs and feelers; it had a small white mark on the middle of the back, and on the upper side of the belly next the back was a large mark of white, and within that a square mark of black, and two rows of white spots, ending in a point at the tail, and some white marks on each side the belly; the legs were hairy; the feelers slender. It had six eyes standing as they are placed in the copper Plate. It was taken in a *Wood*, about the latter end of *August*.

N°. CLXXIII.

THIS large Spider was of a brown colour all over its back, belly, legs, and parts whereon the forceps were placed; the forceps were curiously polished, and sharp at the ends; the back had several marks of a dark colour on it: the tail was forked; the legs were incircled round each joint with a small line of pale yellow. The whole Spider was beset with a downy hair of a deep yellowish colour. This Spider

was

was brought from the *Cape* of good *Hope*. These foreign large Spiders have ten legs besides the forceps, all our english Spiders having but eight. They are said to spin a web so strong between the branches of the trees as is able to intangle the humming-birds which they kill and devour. See *Marian* of the *Surinam Insects*, Plate, 18. I take N°. CLXXIV to be the male Spider of N°. CLXXIII.

N°. CLXXIV.

THE back of this Spider was of a dark colour and light in the middle; the upper side of its belly dark, with marks of yellow and white; the legs of a light hair-colour, spotted with a dark colour; the feelers slender. It had six eyes standing as they are placed in the copper Plate. It was taken on *Hampstead-Heath*, in the latter end of *September*.

N°. CLXXV.

THE back and upper side of the belly of this Spider were of a dark colour, inclining to a black, with a row of large marks made up of small white specks, and on each side a scolloped line of white; the legs were of a light hair-colour spotted with a dark colour; the feelers were slender. It had eight eyes standing as they are placed in the copper Plate. It was taken on *Hampstead-Heath*, on the twenty-seventh of *September*.

N°. CLXXVI.

THIS Spider's belly and head were of a light brown colour: it had on its back and upper side of its belly a flat, square, crustaceous substance

substance of yellow colour with a border of light brown. They lay whiteish eggs in yellow filken baggs of a globular form. *Camel MSS aranear. Philippensium.*

N°. CLXXVII.

THIS Spider's, back, belly, legs and feelers were of a dusky brown and very hairy: Its feelers were slender. This Spider was drawn from one of the designs of *Father George Joseph Camel*, a very curious observer of nature.

N°. CLXXVIII.

THE back, belly, legs and feelers of this large Spider were of a yellowish brown, with marks of a darker shade of the same colour; its fore legs were longer than any of the others; its feelers were oddly sloped like the claws of a lobster, with which it would lay hold of any thing it had a mind to.

N°. CLXXIX.

THE back and belly of this Spider were of a curious mixture of silver, yellow and hair-colour, very agreeably mixed. Its legs were long and black; the feelers slender. This Spider was brought from the *Philippian Islands*.

N°. CLXXX.

THIS odd shaped Spider was of a fine green colour, intermixed with gold; the bite of which is so venomous, if not remedy'd presently by fire, or a decoction of *dana*, it kills both man and beast. They delight in the *Sambach Arabum* or *Syringa* and dwell in their twisted leaves; See *Camel MSS.* who calls it *Araneus mortiferus smaragdino aureus Banayan.*

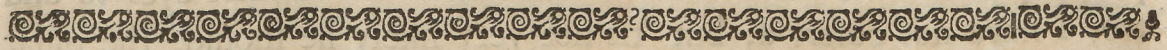
N°. CLXXXI.

N°. CLXXXI.

THIS Spider was found amongst some books; it was of a brown colour. It had eight legs as other Spiders, but in the place of feelers it had two long things like the claws of a lobster, and would use them as a crab or lobster doth to pinch or lay hold of any thing. It would also run backwards or forwards as crabs do, and as well backwards as forwards. It seems rather to be one of the tick or bugg kind than that of a Spider.

THE eyes of Spiders (in some two, in some four, in some six, and in some eight) are placed in the forefront of their head, (which is round and without any neck) all diaphanous and transparent, like a locket of diamonds, &c: Neither do I wonder why providence should be so anomalous in this animal, more than in any other we know of; for first since they, wanting a neck, cannot move their head, it is requisite that defect should be supplied by the multiplicity of eyes. Secondly since they are to live by catching so nimble a prey as a fly is, they ought to see her every way, and to take her, per saltum (as they do) without any motion of the head to discover her; which motion would have scared away so timorous an insect. Power's Microsc. observ. pag. 11.

MICRO-



Microscopical Observations

ON THE

Carter Spider, and Jumping Spider;

By the late Dr. HOOKE, F. R. S.



THE carter, shepherd Spider, or long-legg'd Spider, has, for two particularities, very few similar creatures that I have met with; the first which is discoverable only by the microscope, and is in the first, and second figures of Plate XXXVII. plainly describ'd, is the curious contrivance of his eyes, of which (differing from most other Spiders) he has only two, and those plac'd upon the top of a small pillar or hillock, rising out of the middle of the top of its back, or rather the crown of its head; for they were fix'd on the very top of this pillar (which is about the height of one of the transverse diameters of the eye, and look'd on in another posture, appear'd much of the shape B C D) the two eyes, B B, were placed back to back, with the transparent parts, or the pupils, looking towards either side, but somewhat more forward than backwards. C was the column or neck on which they stood, and D the crown of the head out of which the neck sprung.

THESE eyes, to appearance, seem'd to be of the very same structure with that of larger binocular creatures, seeming to have a very smooth and very protuberant *cornea*, and in the midst of it to have a very black puple, incompass'd about with a kind of grey iris, as ap-

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pears by the Plate: whether it were able to move these eyes to and fro, I have not observ'd, but 'tis not very likely he should, the pillar or neck C, seeming to be cover'd and stiffen'd with a crusty shell; but nature, in all probability, has supply'd that defect, by making the *cornea* so very protuberant, and setting it so clear above the shadowing or obstructing of its prospect by the body, that 'tis likely each eye may perceive, though not see distinctly, almost a hemisphere, whence having so small and round a body plac'd upon such long legs, it is quickly able so to wind, and turn it, as to see any thing distinct. This creature, as do all other Spiders I have yet examin'd, very much differs from most other insects in the figure of its eyes; for I cannot, with my best microscope, discover its eyes to be any ways knobb'd or pearl'd like those of other insects.

THE second peculiarity which is obvious to the eye, is also very remarkable, and that is the prodigious length of its legs, in proportion to its small round body, each leg of this I drew, being above sixteen times the length of its whole body, and there are some which have them yet longer, and others that seem of the same kind, that have them a great deal shorter; the eight legs are each of them jointed, just like those of a crab, but every of the parts are spun out prodigiously longer in proportion; each of these legs are terminated in a small case or shell, shap'd almost like that of a muscle-shell, as is evident in the third figure of the same Plate (that represents the appearance of the under part, or belly, of the creature) by the shape of the protuberant conical body IIII, &c. These are, as 'twere, plac'd or fasten'd on to the protuberant body of the insect, which is to be suppos'd very high at M, making a kind of blunt cone, whereof M is to be suppos'd the apex, about which greater cone of the body, the smaller cones of the legs are plac'd,

plac'd, each of them almost reaching to the top in so admirable a manner, as does not a little manifest the wisdom of nature in the contrivance; for these long leavers (as I may so call them) of the legs, having not the advantage of a long end on the other side of the *hypomochlion*, or centers, on which part of the legs move, must necessarily require a vast strength to move them, and keep the body balanc'd and suspended, insomuch, that if we should suppose a man's body suspended by such a contrivance, an hundred and fifty times the strength of a man would not keep the body from falling on the breast. To supply therefore each of these legs with its proper strength, nature has allow'd] to each a large chest or cell, in which is included a very large and strong muscle; and thereby this little animal is not only able to suspend its body upon less than these eight, but to move it very swiftly over the tops of grass and leaves.

NOR are these eight legs so prodigiously long, but the ninth, and tenth, which are the claws, K K, are as short, and serve instead of a proboscis, for those seem'd very little longer than his mouth; each of them had three parts, but very short, the joints K K, which represented the third, being longer than both the other. This creature, seems (which I have several times with pleasure observ'd) to throw its body upon the prey, instead of its hands, not unlike a jumping Spider, which leaps like a cat at a mouse. The whole fabrick was a very pretty one, and could I have dissected it, I doubt not but I should have found as many singularities within it as without; perhaps, for the most part, not unlike the parts of a crab, which this little creature does, in many things, very much resemble, the curiosity of whose contrivance, I have in another place examin'd. I omit the description of the horns, A A, of the mouth, L L, which seem'd like that of a crab; the speckledness

speckledness of his shell, which proceeded from a kind of feathers or hairs, and the hairiness of his legs, his large thorax and little belly, and the like, they being manifested by the Plate; and shall only take notice that the three parts of the body, namely, the head, and breast, and belly are in this creature strangely confus'd, so that 'tis difficult to determin which is which, as they are also in a crab; and indeed, this seems to be nothing else, but an air-crab, being made more light and nimble, proportionable to the medium wherein it resides; and as air seems to have but one thousandth part of the body of water, so does this Spider seem not to be a thousandth part of the bulk of a crab.

THE jumping Spider is a small grey Spider, prettily bespeck'd with black spots all over the body, which the microscope discovers to be a kind of feathers like those on butterflies wings, or the body of the white moth. Its gait is very nimble by fits, sometimes running, and sometimes leaping, like a grasshopper almost, then standing still, and setting itself on its hinder legs, it will very nimbly turn its body and look round itself every way: It had six very conspicuous eyes, two looking directly forwards, plac'd just before; two other on either side of those, looking forward and side-ways; and two other about the middle of the top of its back or head, which look backwards and side-wards; tho these seem'd to be biggest. The surface of them all was very black, spherical, purely polish'd, reflecting a very clear and distinct image of all the ambient objects, such as a window, a man's hand, a white paper, or the like. Some other properties of this Spider, observ'd by the most accomplish'd Mr. *Evelyn*, in his travels in *Italy*, are most emphatically set forth in the history hereunto annexed, which he was pleas'd, upon my desire, to send me in writing.

“ OF all sorts of insects, there is none has afforded me more
 “ divertisement than the *venatores*, which are a sort of *lupi*, that have
 “ their dens in the rugged walls, and crevices of our houses; a small
 “ brown and delicately spotted kind of Spiders, whose hinder legs are
 “ longer than the rest.

“ SUCH I did frequently observe at *Rome*, which espying a fly at
 “ three or four yards distance, upon the balcony (where I stood)
 “ would not make directly to her, but crawl under the rail, till being
 “ arriv’d to the *antipodes*, it would steal up, seldom missing its aim;
 “ but if it chanced to want any thing of being perfectly opposite
 “ would, at first peep, immediately slide down again, till taking
 “ better notice, it would come the next time exactly upon the fly’s
 “ back: but, if this happen’d not to be within a competent leap, then
 “ would this insect move so softly, as the very shadow of the gno-
 “ mon seem’d not to be more imperceptible, unless the fly mov’d;
 “ and then would the Spider move also in the same proportion, keep-
 “ ing that just time with her motion, as if the same soul had animated
 “ both those little bodies; and whether it were forwards, backwards,
 “ or to either side, without at all turning her body, like a well man-
 “ aged horse: but if the capricious fly took wing and pitch’d upon
 “ another place behind our huntress, then would the Spider whirle its
 “ body so nimbly about, as nothing could be imagin’d more swift;
 “ by which means, she always kept the head towards her prey,
 “ though to appearance, as immovable, as if it had been a nail driven
 “ into the wood, till by that indiscernible progress (being arriv’d with-
 “ in the sphere of her reach) she made a fatal leap (swift as lightning)
 “ upon the fly, catching him in the pole, where she never quitted
 “ hold

“ hold till her belly was full, and then carried the remainder home.
 “ I have beheld them instructing their young ones, how to hunt,
 “ which they would sometimes discipline for not well observing;
 “ but when any of the old ones did (as sometimes) miss a leap, they
 “ would run out of the field, and hide themselves in their crannies,
 “ as ashamed, and haply not to be seen abroad for four or five hours
 “ after: for so long have I watched the nature of this strange insect,
 “ the contemplation of whose so wonderful sagacity and address has
 “ amaz’d me; nor do I find in any chase whatsoever, more cunning
 “ and stratagem observ’d. I have found some of these Spiders in my
 “ garden, when the weather (towards the spring) is very hot, but
 “ they are nothing so eager of hunting as they are in *Italy*”.

ALL kinds of Spiders seem to be creatures of prey, and to feed on
 other small insects, but their ways of catching them are very differing:
 the shepherd Spider by running on his prey; the jumping Spider by
 leaping on it, other sorts weave nets, or cobwebs, whereby they ensnare
 them, nature having both fitted them with materials and tools, and
 taught them how to work and weave their nets, and lie perdue, and
 to watch diligently to run on a fly as soon as ever entangled.

THEIR thread or web seems to be spun out of some viscous kind
 of excrement, lying in their belly, which, though soft when drawn
 out, is presently, by reason of its smallness, hardened and dried by the
 ambient air. Examining several of which with my microscope, I
 found them to appear much like white horse-hair, or some such trans-
 parent horny substance, and to be of very differing magnitudes; some
 appearing as big as a pig’s bristle, others equal to a horse-hair; others
 no bigger than a man’s hair; others yet smaller, and finer. I observ’d
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further, that the radiating chords of the web were much bigger, and smoother than those that were woven round, which seem'd smaller, and all over knotted or pearl'd, with small transparent globules, not unlike small crystal beads, or seed pearls, thin strung on a clew of filk; which, whether they were so spun by the Spider, or by the adventitious moisture of a fog (which I have observ'd to cover all these filaments with such crystalline beads) I will not dispute.

THESE threads were some of them so small, that I could very plainly, with the microscope, discover the same consecutions of colour as in a prism, and they seem'd to proceed from the same cause with those colours which I have already describ'd in thin plated bodies.

MUCH resembling a cobweb, or a confus'd lock of these cylinders, is a certain white substance which, after a fog, may be observ'd to fly up and down the air; catching several of those, and examining them with my microscope, I found them to be much of the same form, looking most like to a flake of worsted produc'd to be spun, though by what means they should be generated, or produc'd, is not easily imagined: they were of the same weight, or very little heavier than the air; and 'tis not unlikely, but that those great white clouds, that appear all the summer time, may be of the same substance.



Of the TARANTULA; by the Learned
Dr. MEAD.

 HE *Tarantula* is a Spider of *Apulia* of the octonocular kind; that is of that species that has eight eyes, and spins webs; it has eight legs, four on each side, and in each leg three joints; from the mouth proceed two darts, in shape just like to a hooked *forceps*, or crab's claws; these are solid, and very sharp, so that they can easily pierce the skin; and between those and the fore legs there are two little horns, which, I suppose, do answer to those bodies call'd from their use in flies the feelers; because as they do, so this creature is observed to move 'em very briskly when it approaches to its prey.

THIS, as other Spiders do, propagates its species by laying eggs, which are very numerous; so that there are found sometimes in the female, when dissected, a hundred or more; and these are hatched partly by the heat of the mother, partly by that of the sun, in about twenty or thirty days time.

IN the summer months, especially when the heats are greatest, as in the dog-days, the *Tarantula* creeping among the corn in the fields, bites the mowers and passengers. In the winter it lurks in holes, and is scarcely seen; and if it does bite then, it is not venomous, neither does it induce any ill symptoms.

BUT in the hot weather, altho' the pain of its bite is at first no greater than what is caused by the sting of a bee, yet the part quickly after is discoloured with a livid, black, or yellowish circle, and raised

to an inflam'd swelling; the patient within a few hours is seized with a violent sickness, difficulty of breathing, universal faintness, and sometimes trembling with a weakness of the head; being asked what the ail is, makes no reply, or with a querulous voice, and melancholy look, points to his breast, as if the heart was most affected.

DURING this mournful scene, all the usual alexipharmic and cordial medicines are of no service; for, notwithstanding their repeated use, the patient growing by degrees more melancholy, stupid, and strangely timorous, in a short time expires; unless musick be called to his assistance, which alone, without the help of medicine, performs the cure.

FOR, at the first sound of the musical instrument, altho' the sick lie, as it were, in an apoplectick fit, they begin by degrees to move their hands and feet, till at last they get up, and fall to dancing with wonderful vigour, at first for three or four hours; then they are put to bed, refreshed from their sweating, for a short time, and repeat the exercise with the same vehemence, perceiving no weariness or weakness from it, but professing they grow stronger and nimbler the more they dance.

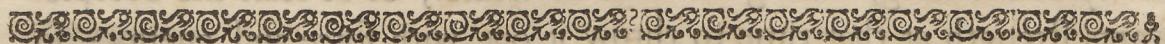
AT this sport they usually spend twelve hours a day, and it continues three or four-days; by which time they are generally freed from all their symptoms, which do nevertheless attack 'em again about the same time the next year; and if they do not take care to prevent this relapse by musick, they fall into a jaundice, want of appetite, universal weakness and such like diseases; which are every year increased, if dancing be neglected; till at last they prove incurable.

As musick is the common cure, so they who are bitten are pleas'd, some with one sort of it, some with another; one is rais'd with a pipe, another with a timbrel; one with a harp, another with a fiddle; so that the musicians make sometimes several essays before they can accommodate their art to the venom; but this is constant and certain, notwithstanding this variety, that they all require the quickest and briskest tunes, and are never moved by a slow, dull harmony.


WHILE the *Tarantati*, or affected, are dancing, they lose in a manner the use of all their senses; like so many drunkards, do many ridiculous and foolish tricks; talk and act obscenely and rudely, take great pleasure in playing with vine leaves, with naked swords, and red cloths, and the like; and on the other hand can't bear the sight of any thing black; so that if any by-stander happen to appear in that colour, he must immediately withdraw, or otherwise they relapse into their symptoms with as much violence as ever.

IT may afford some light towards understanding the nature of this poison, to observe that *Apulia* is the hottest part of all *Italy*, lying eastward, and having all the summer long but very little rain to temper the heats, so that the inhabitants, as one of that country observes, do breath an air, as it were, out of a fiery furnace; hence their temperament is dry, and adust, as appears by their being generally lean, passionate, impatient, ready to action, quick-witted, very subject to inflammatory distempers, phrensies, melancholy, and the like; upon which account there are more mad people in this, than in all the other parts of *Italy*. As to the return of the symptoms the next year, that is owing to the same excessive heat in those months, acting again upon the small remains of the venomous ferment. Those that are desirous
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to know more concerning the nature, of this strange insect, the effects of its venom, and the causes of those surprizing symptoms attending it, I refer to Dr. *Mead's* mechanical account of poisons, from whence (with the author's leave) I have extracted this account of the *Tarantula*.



Of the SCORPION, By the same learned
AUTHOR.

 F stinging animals the Scorpion is the chief, whose *virus* in different countries is more or less dangerous, according as 'tis exalted by various degrees of heat; thus in *Africa*, particularly, its effects are so dreadful, that as *Leo* tells us, the town *Pescara*, there, is in a manner left desolate by the inhabitants in the summer, by reason of the great abundance of these creatures, certain death following their sting.

SOME of this deadly kind, exhibited in Plate XL, *Seignior Redi*, had sent him from *Tunis*; and it being *November*, irritated them to sting pigeons, pullets, &c. without any bad effect at all of their poison, but upon the approaching spring, one of them which had been kept all the winter, nay, eight months, without any food, and the wound of whose sting before was harmless, stung to death two pigeons successively; but a third and fourth wounded in like manner, suffer'd no hurt. Yet having let the Scorpion rest all night, he killed another pigeon the next morning.

AT the point of the sting he very often could discern a small drop of white liquor, which when the wound was made, entered into the flesh.

As this liquid venom is either not separated from the blood into the cavity of the sting, during the cold of winter, or at least the Scorpion wants strength at that time to throw it out with force and energy; so, even in the hot months, after it is exhausted by two or three attacks, the sting, is no longer hurtful, till the expense of this juice is recruited by time.

'TIS very remarkable concerning this insect, what an ingenious gentleman, who lived several years in *Barbary*, told me he had many times tried; that if it be surrounded with a circle of burning coals, it does, upon the sense of the heat, turn itself violently every way to make an escape; but finding it impossible, and the pain from the fire increasing, it strikes itself twice or thrice with the sting on the back, and immediately dies of the wounds.

As the *viperine* venom is the quintessence, and most active part of those animal juices with which the Viper is nourished, so is also that of the Scorpion; for this insect lives chiefly upon locusts, &c. And the same person from *Barbary* inform'd me, that seeing oftentimes locusts sticking up in the ground, as if they were set there, by looking, he found that some part of them was always eat away, and that those places were the holes of Scorpions, who had dragg'd their prey thither, and fed on it as they had occasion.

IN like manner as the *anungia viperina* cures the bite of the *Viper*, so also the *oleum Scorpionum*, or oil in which Scorpions have been infused, is a present remedy for the sting of this creature.

Observ.

Observations on the FLEA, and LOUSE;

By the late ingenious Dr. HOOKE, F. R. S.



THE strength and beauty of the first of these, creatures, the flea, had it no other relation at all to man, would deserve a description.

FOR its strength, the microscope is able to make no greater discoveries of it than the naked eye, but only the curious contrivance of its legs and joints, for the exerting that strength, is very plainly manifested, such as no other creature, I have yet observ'd, has any thing like it; for the joints of it are so adapted, that he can, as 'twere, fold them short one within another, and suddenly stretch, or spring them out to their whole length, that is, of the fore-legs, the part A of Plate, XLI. lies within B, and B within C parallel to, or side by side each other; but the parts of the two next, lie quite contrary, that is, D without E, and E without F, but parallel also; but the parts of the hinder legs G, H and I, bend one within another, like the parts of a double jointed rule, or like the foot, leg, and thigh of a man; these six legs he clutches up all together, and when he leaps, springs them all out, and thereby exerts his whole strength at once.

BUT, as for the beauty of it, the microscope manifests it to be all over adorn'd with a curiously polish'd suit of sable armour, neatly jointed, and beset with multitudes of sharp pins, shap'd almost like porcupine's quills, or bright conical steel-bodkins; the head is on either side beautify'd with a quick and round black eye K, behind each of which also appears a small cavity, L, in which he seems to move to
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and fro a certain thin film beset with many small transparent hairs, which probably may be his ears; in the forepart of his head, between the two fore-legs, he has two small long jointed feelers, or rather smellers, M M, which have four joints, and are hairy, like those of several other creatures; between these, it has a small *proboscis*, or *probe*, N N O, that seems to consist of a tube N N, and a tongue or sucker O, which I have perceiv'd him to slip in and out. Besides these, it has two chaps or biters P P, which are somewhat like those of an ant, but I could not perceive them tooth'd; these were shap'd very like the blades of a pair of round top'd Scissors, and were opened and shut just after the same manner; with these instruments does this little busie creature bite and pierce the skin, and suck out the blood of animals, leaving the skin inflamed with a small round red spot. These parts are very difficult to be discovered, because, for the most part, they lye covered between the fore-legs. There are many other particulars, which, being more obvious, and affording no great matter of information, I shall pass by, and refer the reader to the Figure.



Of the LOUSE.

THIS is a creature so officious, that 'twill be known to every one at one time or other, so busie, and so impudent, that it will be intruding itself in every one's company, and so proud and aspiring withal, that it fears not to trample on the best, and affects nothing so much as a crown; feeds and lives very high, and that makes it so saucy, as to pull any one by the ears that comes in his way, and will never be quiet till it has drawn blood: it is troubled at nothing so much as at a man that scratches his head, as knowing that man is plotting

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ting and contriving some mischief against it, and that makes it oftentimes sculk into some meaner and lower place, and run behind a man's back, though it go very much against the hair; which ill conditions of it having made it better known than trusted, would exempt me from making any further description [of it, did not my faithful *Mercury*, my microscope, bring me other information of it. For it has discovered to me, by means of a very bright light cast on it, that it is a creature of a very odd shape; it has a head shap'd like that expressed in Plate XLII, marked with A, which seems almost conical, but is a little flatted on the upper and under sides, at the biggest part of which, on either side behind the head (as it were, being the place where other creatures ears stand) are placed its two black shining goggle eyes B B, looking backwards, and fenced round with several small *cilia* or hairs that incompass it so that it seems this creature has no very good foresight: It does not seem to have any eye-lids, and therefore perhaps its eyes were so placed, that it might the better cleanse them with its fore-legs; and perhaps this may be the reason, why they so much avoid and run from the light behind them; for being made to live in the shady and dark recesses of the hair, and thence probably their eyes having a great aperture, the open and clear light, especially that of the sun, must needs very much offend them; to secure these eyes from receiving any injury from the hairs through which it passes, it has two horns that grow, before it, in the place where one would have thought the eyes should be; each of these C C hath four joints, which are fringed, as 'twere, with small bristles, from which to the tip of its snout D, the head seems very round and tapering, ending in a very sharp nose D which seems to have a small hole, and to be the passage through which he sucks the blood. Now whereas if it be plac'd on its back, with its belly upwards, as it is in the Plate, it seems in several positions to have

have a resemblance of chaps, or jaws, as is represented in the Plate by E E, yet in other postures those dark strokes disappear; and having kept several of them in a box for two or three days, so that for all that time they had nothing to feed on, I found, upon letting one creep on my hand, that it immediately fell to sucking, and did neither seem to thrust its nose very deep into the skin, or open any kind of mouth, but I could plainly perceive a small current of blood, which came directly from its snout, and past into its belly, and about A there seem'd a contrivance, somewhat resembling a pump, pair of bellows, or heart, for by a very swift *systole* and *diastole* the blood seem'd drawn from the nose, and forced into the body. It did not seem at all, though I viewed it a good while as it was sucking, to thrust more of its nose into the skin than the very snout D, nor did it cause the least discernible pain, and yet the blood seem'd to run through its head very quick and freely, so that it seems there is no part of the skin but the blood is dispers'd into, nay, even into the *cuticula*; for had it thrust its whole nose in from D to C C, it would not have amounted to the supposed thickness of that *tegument*, the length of the nose being not more than a three hundredth part of an inch. It has six legs, covered with a very transparent shell, and jointed exactly like a crab's, or lobster's; each leg is divided into six parts by these joints, and those have here and there several small hairs; and at the end of each leg it has two claws, very properly adapted for its peculiar use, being thereby inabled to walk very securely both on the skin and hair: and indeed this contrivance of the feet is very curious, and could not be made more commodiously and compendiously, for performing both these requisite motions; of walking and climbing up the hair of a man's head, than it is; for by having the lesser claw (a) set so much short of the bigger (b)

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when it walks on the skin the shorter touches not, and then the feet are the same with those of a mite, and several other small insects, but by means of the small joints of the longer claw it can bend it round, and so with both claws take hold of a hair, in the manner represented in the Plate, the long transparent cylinder F F F, being a man's hair held by it.

THE thorax seem'd cas'd with another kind of substance than the belly, namely, with a thin transparent horny substance, which upon the fasting of the creature did not grow flaccid; through this I could plainly see the blood, suck'd from my hand, to be variously distributed, and mov'd to and fro; and about G there seem'd a pretty big white substance, which seem'd to be moved within its thorax; besides, there appear'd very many small milk-white vessels, which cross over the breast between the legs, out of which, on either side, were many small branchings; these seem'd to be the veins and arteries, for that which is analogous to blood in all insects is milk-white.

THE belly is covered with a transparent substance likewise, but more resembling a skin than a shell, for 'tis grain'd all over the belly just like the skin in the palms of a man's hand, and when the belly is empty, grows very flaccid and wrinkled; at the upper end of this is placed the stomach H H, and perhaps also the white spot I I may be the liver or pancreas which by the peristaltick motion of the guts, is a little mov'd to and fro, not with a systole and diastole, but rather with a thronging or jostling motion. Viewing one of these creatures, after it had fasted two days, all the hinder part was lank and flaccid, and the white spot I I hardly mov'd, most of the white branchings

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disappear'd, and most also of the redness or suck'd blood in the guts, the peristaltick motion of which was scarce discernible; but upon the suffering it to suck, it presently fill'd the skin of the belly, and of the six scolop'd embosments on either side, as full as it could be stuf; the stomach and guts were as full as they could hold; the peristaltick motion of the guts grew quick, and the justling motion of I I accordingly; multitudes of milk-white vessels seem'd quickly filled, and turgid, which were perhaps the veins and arteries, and the creature was so greedy, that though it could not contain more, yet it continued sucking as fast as ever, and as fast emptying it self behind: the digestion of this creature must needs be very quick, for though I perceived the blood thicker and blacker when suck'd, yet, when in the guts, it was of a very lovely ruby colour, and that part of it, which was digested into the veins, seem'd white; whence it appears, that a further digestion of blood may make it milk, at least of a resembling colour: What else is observable in the Figure of this creature, may be seen in the Plate.

As these vermin are natural to the bodies of the human species, so likewise, most birds of different kinds, some sorts of fish, and many kinds of quadrupeds have their particular sorts of fleas, and lice, proper and peculiar to themselves, and manifestly differing from each other. *Seignior Redi*, having delineated some of these; I think it will not be foreign to the Subject, to relate the discoveries (he tell us) he made, by the advantage of a great many experiments.

IN the hawk (says he) I've observed three distinct sorts of fleas, and as many in the turkey-hen; in the wild-duck four: in the swan, wild-goose, kestrel and plover, two: Yet it must be allow'd that there is

a sort of birds that have either the same sort of fleas, or some that are very like them. The golden-eagle, and the bird by the *Italians* call'd *vaccaio* from its keeping company with cows, as well as the kestrel, have very large ones: which last named bird hath also another sort of fleas no ways differing in shape from those of the raven, but of another colour; and the raven others very like the lesser sort of lice found upon the *egret*. Some of the bustard's fleas, if view'd at a distance, very much resemble those found upon the *egret*. On the woodpecker and chaffinch I have seen fleas resembling those of the starling, and on the wild-duck of the larger kind, much the same sort of fleas with those of the wild-goose. In the feathers of a crane are to be found nests of white lice, marked, as it were with arabic or algebraic characters. Farther, it is remarkable that the bigness of each bird's fleas bears not adequate proportion to the bigness of the birds they are found upon; but amongst the larger kind of birds may be found a lesser and larger sort of fleas of a different kind; and I remember that I have seen fleas upon a blackbird as large as those found upon a swan.

IF you view fleas when upon their feet, there is not the least appearance of a mouth to be discovered, but if you turn them upon their backs, you may discern the situation of their mouth plac'd on the underside of the proboscis or trunk, in the form of a pair of pinchers, much resembling that of the wood-louse. In a word, there is such a wonderful variety of fleas of distinct sorts, so strangely different one from another, that I thought it much better to exhibit 'em drawn upon copper Plates than to give the reader a long and tedious description of them. As to their colour, 'tis generally the same, or very near that of the feathers of the birds on which they are found. 'Tis true I must own I'm of opinion (which experience countenanceth) that fleas
when

when they are first bred out of nits are white; but, as they grow bigger, by degrees assume other colours, yet so that preserving the transparency of their bodies. By the help of a microscope, the motion of their entrails, and circulation of their juices may very plainly be discerned.

OF those larger kind of Spiders, Plate (XXXV,) *Marian* tell us she found very many on the tree *Guajava*, in which they make nests, representing a caterpillar's web. They are cover'd all over with hair, arm'd besides with sharp pointed teeth, with which they give dangerous wounds, infusing some liquid matter from them at the same time. Pismires are their common food; in scarcity of which they take the little birds out of their nests, and suck out all the blood of their little bodies. They shed their coats now and then, just as caterpillars do, yet were never observ'd to change into the *volatile* kind. I take this Spider to be the male to N°. 173.



F I N I S.

