

The anatomy of the arteries of the human body and its applications to pathology and operative surgery with a series of lithographic drawings / / by Richard Quain. The drawings from nature and on stone by Joseph Maclise.

Contributors

Quain, Richard, 1800-1887.
Maclise, Joseph.

Publication/Creation

London : Taylor and Walton, 1844.

Persistent URL

<https://wellcomecollection.org/works/pv2m4gwb>

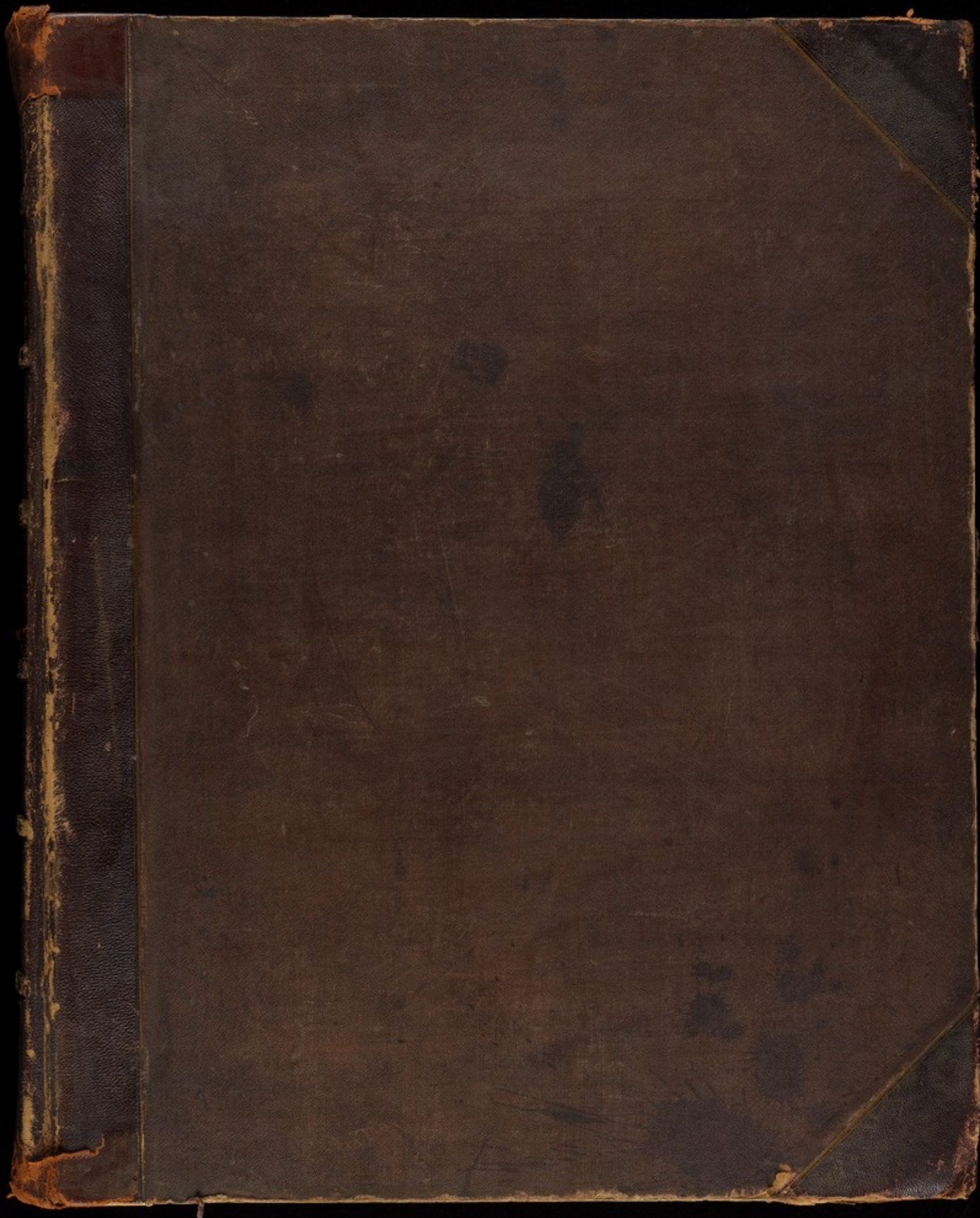
License and attribution

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

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

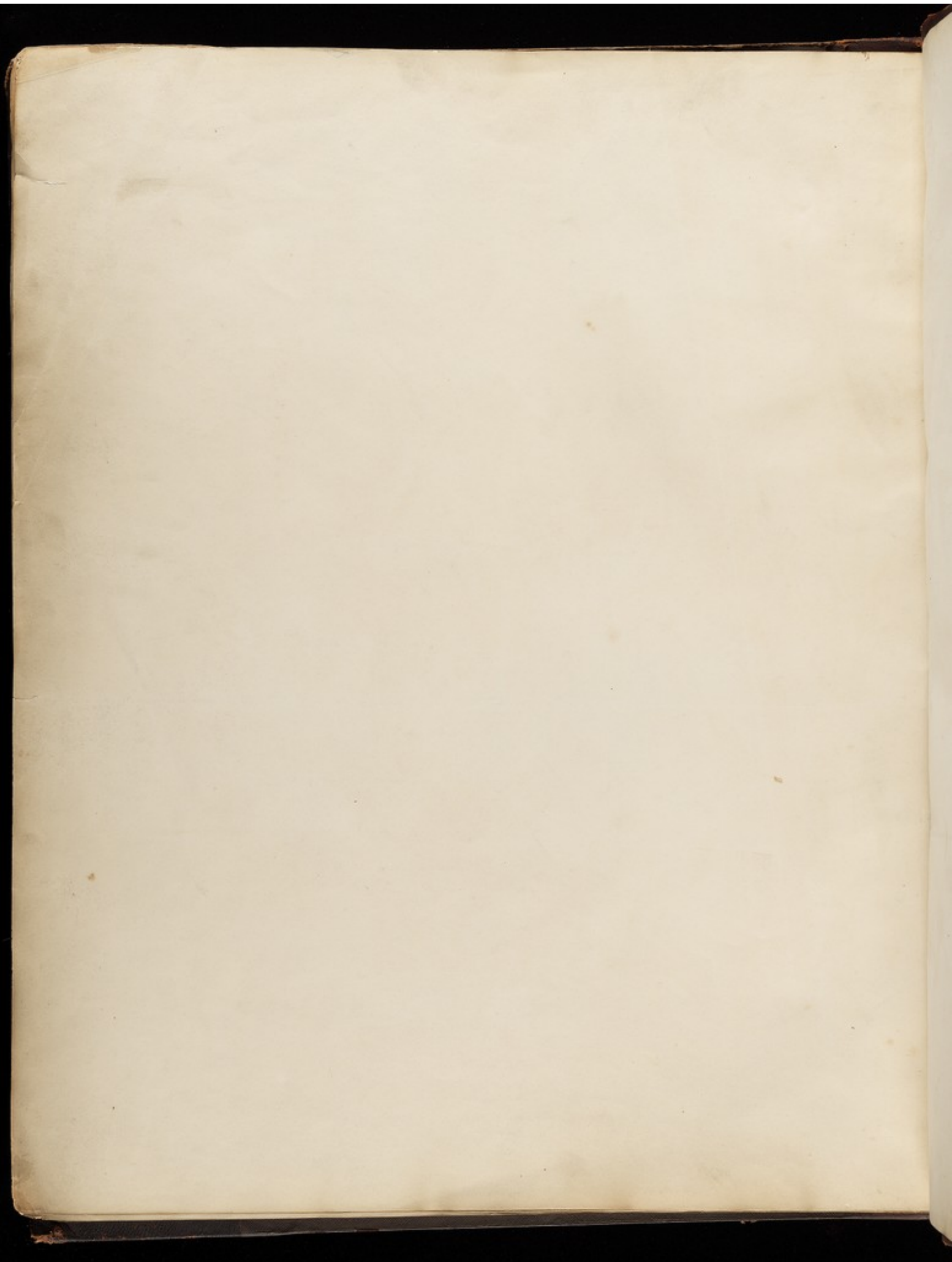
**wellcome
collection**

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









THE
ANATOMY OF THE ARTERIES

OF THE HUMAN BODY

WITH ITS APPLICATIONS TO PATHOLOGY AND OPERATIVE SURGERY

IN

LITHOGRAPHIC DRAWINGS

WITH

PRACTICAL COMMENTARIES

BY RICHARD QUAIN F.R.S.

PROFESSOR OF ANATOMY IN UNIVERSITY COLLEGE LONDON AND SURGEON TO UNIVERSITY COLLEGE HOSPITAL

THE DRAWINGS FROM NATURE AND ON STONE BY JOSEPH MACLISE ESQ. SURGEON

WITH AN OCTAVO VOLUME OF LETTER-PRESS

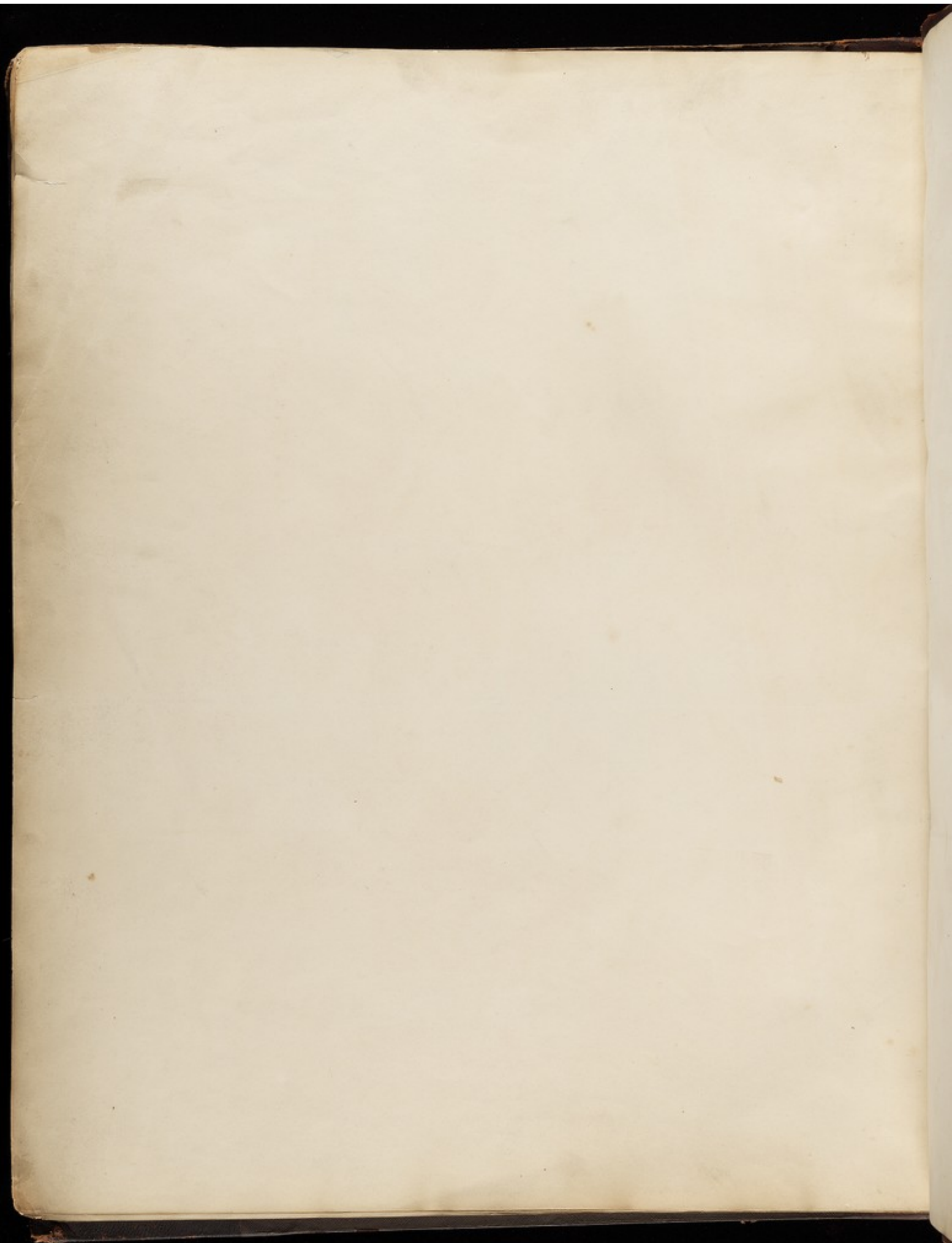
LONDON

PRINTED FOR TAYLOR AND WALTON

BOOKSELLERS AND PUBLISHERS TO UNIVERSITY COLLEGE

UPPER GOWER STREET

MDCCLXIV



PREFACE.

SEVERAL years have elapsed since I became impressed with the belief that the difficulties which have often occurred in the performance of those surgical operations where the larger arteries are concerned have arisen, in great part, from want of sufficient acquaintance with the differences in anatomical disposition to which these vessels are subject—not merely those deviations in the origin of large branches, which are usually named varieties, but other peculiarities of various kinds which are liable to occur, such as those which affect the length, position, or direction of the vessels. Under that impression I was led to observe these circumstances more closely, and finally determined to obtain a record of the condition, whatever it might be, of the more important vessels in a considerable number of cases,—a record to be made especially with a view to points bearing on practical surgery.

With this view I examined with more or less attention the bodies which were received during a series of years for the study of anatomy into the School of Medicine in University College. These bodies, to the number of 593, were with rare exceptions so inspected with reference to the subject of my inquiries, that anything very unusual could not escape notice; and in order to insure accuracy, when other occupations allowed, the arteries were carefully examined and their condition noted at the time, attention being always particularly directed to those vessels and to the points in their history which seemed to be of importance in the practice of surgery.

This detailed investigation was continued until the number of cases observed appeared such as would afford grounds for reasonable conclusions both as to the limits of the deviations from the ordinary standard, and as to the relative frequency of their occurrence.

At the same time that the observations thus made were written down, drawings were obtained of all the important peculiarities which presented themselves, and when it was practicable the preparations were preserved.

The varieties in the arrangement of the blood-vessels thus noted, grew, as may be supposed, to be very numerous; but instead of difficulties multiplying with the number of observations, it was usually found that, as the facts accumulated, the transition from one state to a very different one ceased to be abrupt or without method, for others from time to time interposed which served to link them together.

Originally these observations were intended exclusively for the benefit of my class; but as their number and connexion seemed likely to render them more extensively useful, I resolved to publish them. On examining with a view to publication the materials which I had collected, it became obvious that their utility would be very limited, unless as a part of a full history of the arteries with adequate delineations. In consequence, a series of drawings, showing the arteries according to their usual arrangement, has been prepared, and to these are appended the observations previously alluded to. The work has thus grown under my hands, and has gradually assumed its present form.

To carry out my views as to the delineations, I obtained the assistance of my friend and former pupil, Mr. Joseph Maclise. In reference to that gentleman's labours, it may be allowed me to say, that while I have had the co-operation of an anatomist and surgeon, obviously a great advantage, the drawings will, I believe, be found not to have lost in spirit or effect. It affords me much gratification to render my acknowledgments to Mr. Maclise, for the readiness with which he acceded to my wishes, and undertook so arduous a task, and for the zeal with which he has devoted himself to it in the intervals of application to the duties of his profession.

Before I explain the plan pursued in this publication, it may be permitted me to advert shortly to the distinguishing features of the principal works hitherto published on the Arteries, because it will thus be apparent in what respects this publication differs from others.

The work of Haller*, the first in point of time which deserves notice, and still in many respects the best on the Anatomy of the Arterial System, is characterised by vast learning, by candour in the appreciation of the labours of others, and by accurate observation—in short, by those high qualities which distinguish all the writings of that illustrious author. The written descriptions, especially those of the branches, have perhaps never been equalled for copiousness and accuracy. But the drawings were in many instances taken from the bodies of very young children; and the treatise altogether is deficient in systematic arrangement and continuity, probably in consequence of the desultory manner of its preparation, and the length of time which intervened between the publication of its parts. On the whole, though not suited to general use, the "Icones Anatomicae" are, and will continue to be, to the diligent inquirer, a most valuable contribution to the history of the arteries.

The representations of the arteries contained in Scarpa's work on Aneurism †, like all the delineations published by the same author, are most carefully and beautifully executed. They comprehend, however, but a small portion of the arterial system, and have obviously been intended to show, not so much the position and connexions of the arteries, as the branches by which the circulation is carried on after an operation for aneurism.

Tiedemann ‡ has given, in the "Tabulae Arteriarum," systematic and clear delineations of all the arteries, with many of their so-named varieties. To this very valuable work the modern student of anatomy is almost exclusively indebted for representations of the arterial system. In it, however, as in the other treatises referred to, the veins and nerves are not shown in connexion with the arteries, and those modifications or peculiarities of the vessels alluded to at the commencement of these observations are not taken into account.

In the present work, the arteries are represented—

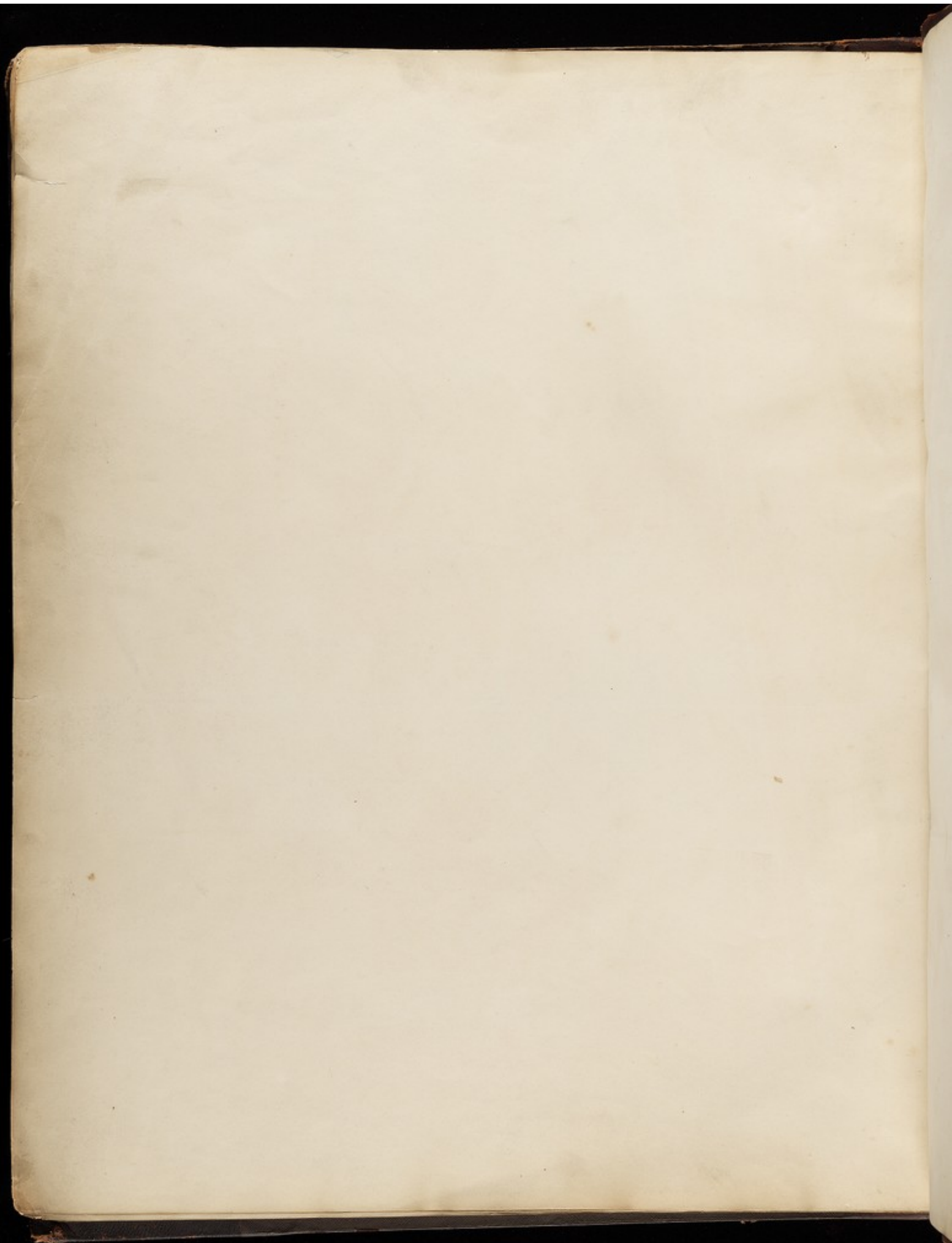
- 1st.—According to their most frequent arrangement, without the accompanying veins and nerves.
- 2dly.—They are shown in connexion with the larger veins and nerves.
- 3dly.—The deviations from that which has been taken as the standard, because the most frequent condition of the arteries, are illustrated in a series of sketches. Into this part of the subject as much of arrangement or classification has been introduced as my information admits.
- 4thly.—Such peculiarities of the veins, and occasionally of the nerves and muscles, as appeared likely to be of importance in surgical operations, are represented on a reduced scale.

The letter-press, besides an explanation of the drawings and remarks on them, contains—

- A series of Tables, showing, in a considerable number of instances, the condition of the arteries as to some of the points of most importance in their anatomy;
- And Practical Commentaries; consisting, for the most part, of inferences from the facts previously set forth, and their application in performing surgical operations.

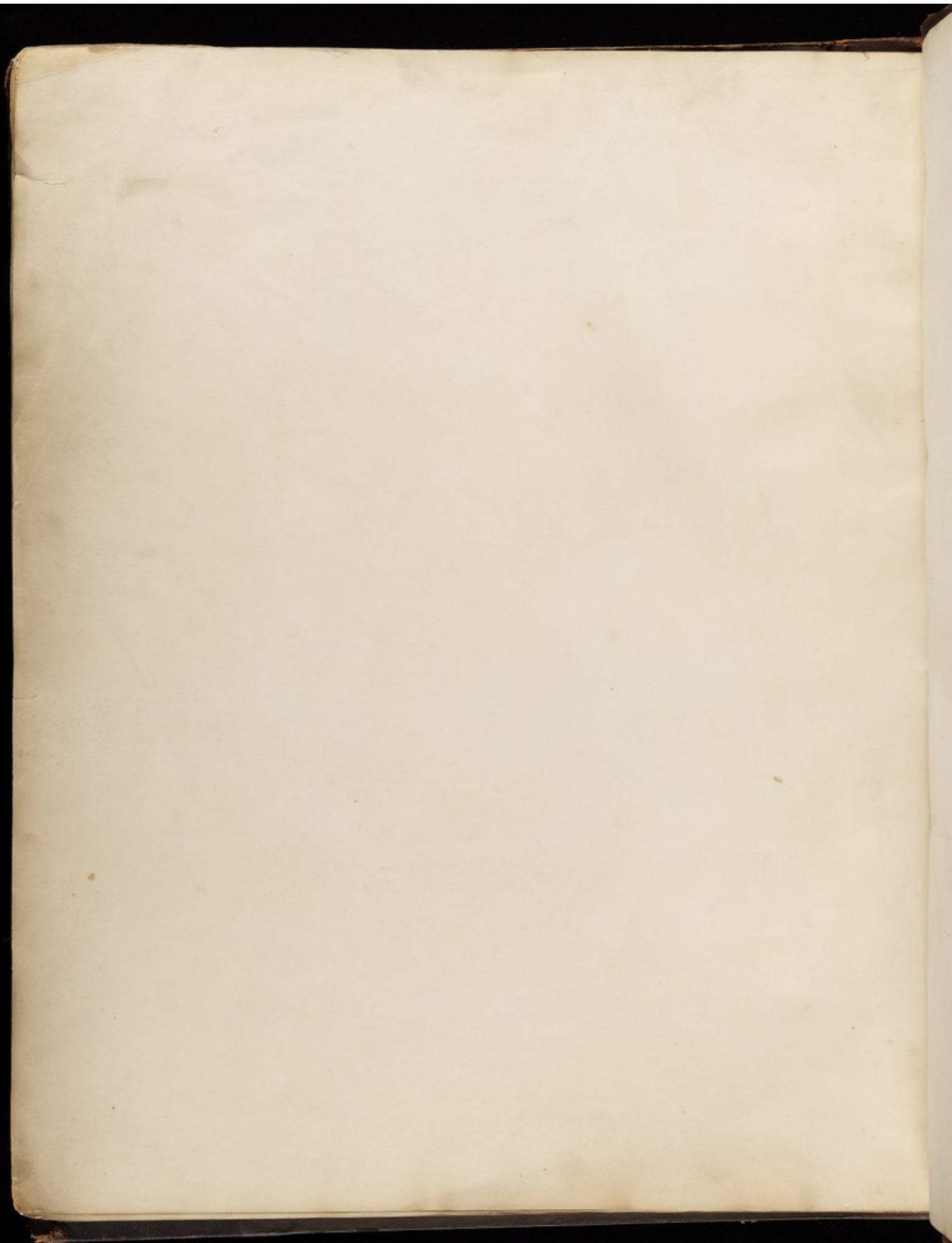
R. Q.

* Icones Anatomicae, quibus præcipue aliisque partibus Corporis humani delineatae præsentantur et Arteriarum præsertim historicæ annotationes. Gœttingæ 1736.
† Tabulae Arteriarum Corporis Humanæ. Cæduburgi 1822.
‡ Tabulae Arteriarum, sistens præcipuas et singulas Arteriarum humanarum species, et earum ramos, et præsertim eas quæ in Chirurgia sunt præcipue in usum. Gœttingæ 1794.



CONTENTS OF THE PLATES.

<p style="text-align: center;">PLATE I.</p> <p>The large arteries of the Thorax and the Neck, viz.—the Arch and the Thoracic part of the Aorta; the Innominate; Left Carotid; Left Subclavian; together with the Left Axillary (Branched), Oesophageal, and the origin of the Coronary Arteries 9</p> <p style="text-align: center;">PLATE II.</p> <p>The Heart, and the large arteries of the Thorax and the Neck, with the accompanying veins and nerves 10</p> <p style="text-align: center;">PLATE III.</p> <p>The more superficial arteries of the Neck on the right side, viz.—the end of the Common Carotid; the beginning of the External and of the Internal Carotid; the Subclavian beyond the anterior axillary muscle 11</p> <p style="text-align: center;">PLATE IV.</p> <p>FIG. 1. The end of Left Common Carotid, in connection with the fascia, and the veins and nerves 12</p> <p>FIG. 2 & 3. Pencil-drawing of the Veins in connection with the Common Carotid arteries 12</p> <p>FIG. 4. A peculiarity of the Vagus nerve 12</p> <p style="text-align: center;">PLATE V.</p> <p>Pencil-drawing of the commencement of the Aorta—showing its position, direction, and shape 13</p> <p style="text-align: center;">PLATES VI. and VII.</p> <p>Pencil-drawing of the large branches, taking origin from the Arch of the Aorta 14</p> <p style="text-align: center;">PLATE VIII.</p> <p>The External Carotid artery, and its branches 17</p> <p style="text-align: center;">PLATE IX.</p> <p>The Internal Maxillary artery 18</p> <p style="text-align: center;">PLATE X.</p> <p>The Lingual, the Pharyngeal, and the Internal Carotid arteries 19</p> <p style="text-align: center;">PLATE XI.</p> <p>The External Carotid artery of the right side, with the accompanying veins and nerves 21</p> <p style="text-align: center;">PLATE XII.</p> <p>Pencil-drawing of the Common Carotid arteries; of the External Carotid, and of the branches of the latter 22</p> <p style="text-align: center;">PLATES XIII. XIV. XV.</p> <p>Pencil-drawing of the branches of the External Carotid arteries 24–26</p> <p style="text-align: center;">PLATE XVI.</p> <p>The Right Common Carotid artery; the Right Subclavian, and its branches 27</p> <p style="text-align: center;">PLATE XVII.</p> <p>FIG. 1. The commencement of the Right Subclavian artery, with its accompanying veins and nerves 27</p> <p>FIG. 2. The end of the Right Subclavian artery, with its accompanying veins and nerves 27</p> <p style="text-align: center;">PLATE XVIII.</p> <p>FIG. 1. The superior Intercostal artery, and the Deep Cervical (or, prof. cerv.) of the left side 28</p> <p>FIG. 2. The Vertebral artery of the right side—its cervical part 28</p> <p style="text-align: center;">PLATE XIX.</p> <p>The arteries of the side and the back part of the Head, with those of the back part of the Neck and the Shoulder, viz.—the Superficial Temporal, Posterior Auricular, Occipital, Supra-occipital, Posterior Scapular, Dorsalis scapulae, &c. 31</p> <p style="text-align: center;">PLATE XX.</p> <p>Pencil-drawing of the Subclavian arteries—showing the trunk 32</p> <p style="text-align: center;">PLATE XXI.</p> <p>Pencil-drawing of the Subclavian arteries—showing the trunk and the origin of the branches 32</p> <p style="text-align: center;">PLATE XXII.</p> <p>Pencil-drawing of the Vertebral arteries 34</p> <p style="text-align: center;">PLATE XXIII.</p> <p>Pencil-drawing of the Thyroid arteries 34</p> <p style="text-align: center;">PLATE XXIV.</p> <p>Pencil-drawing of the Internal Mammary, and of some other branches of the Subclavian arteries 35</p> <p style="text-align: center;">PLATE XXV.</p> <p>Pencil-drawing of the Deep Cervical arteries. Pencil-drawing of the nerves; the veins; the muscles and the bones, in connection with the Subclavian arteries 37</p> <p style="text-align: center;">PLATE XXVI.</p> <p>The Axillary and the Brachial arteries, with their branches 39</p> <p style="text-align: center;">PLATE XXVII.</p> <p>The Axillary and the Brachial arteries, with the accompanying veins and nerves 41</p> <p style="text-align: center;">PLATE XXVIII.</p> <p>The Axilla, seen from below—showing the Arteries, the Veins, the Nerves, and the Lymphatic glands 43</p> <p style="text-align: center;">PLATE XXIX.</p> <p>FIG. 1. The Posterior Circumflex artery. The dorsal branch of the Subscapular. FIG. 2. The Anterior Circumflex, and the arteries on the ventral surface of the Scapula 43</p> <p style="text-align: center;">PLATE XXX.</p> <p>Pencil-drawing of the Axillary artery, and of its branches 44</p>	<p style="text-align: center;">PLATE XXXI.</p> <p>Pencil-drawing of the Radial artery—showing the position of its origin 46</p> <p style="text-align: center;">PLATE XXXII.</p> <p>Pencil-drawing of the Ulnar artery—showing the position of its origin, and of its course 47</p> <p style="text-align: center;">PLATE XXXIII.</p> <p>Pencil-drawing of the Intercostalis artery—showing the position of its origin 48</p> <p style="text-align: center;">PLATE XXXIV.</p> <p>The Axillary, or the Brachial arteries, divided into two branches,—which re-anastomose or communicate one with the other at the bend of the elbow 49</p> <p style="text-align: center;">PLATE XXXV.</p> <p>Various examples of "Vasa Aberrantia," extending from the Axillary, or Brachial arteries, to those of the forearm 51</p> <p style="text-align: center;">PLATE XXXVI.</p> <p>FIG. 1 & 2. Rare divisions of the Ulnar artery. FIG. 3 & 4. Pencil-drawing of the Brachial artery 52</p> <p style="text-align: center;">PLATE XXXVII.</p> <p>FIG. 1 & 2. Divisions of one of the two arteries representing the brachial. All the figures illustrate peculiarities of the vessels in the neighbourhood of the same artery 54</p> <p style="text-align: center;">PLATE XXXVIII.</p> <p>Views of the Anterior arteries of the fore-arm and hand—their usual arrangement 55</p> <p style="text-align: center;">PLATE XXXIX.</p> <p>The deep arteries on the anterior surface of the fore-arm and hand—their usual conformation 56</p> <p style="text-align: center;">PLATE XL.</p> <p>FIG. 1. The Arteries on the back part of the forearm and hand. FIG. 2. The Superficial veins and nerves in front of the elbow joint, and a small part of the deep muscles and nerves 57</p> <p style="text-align: center;">PLATE XLI.</p> <p>Views of the Superficial veins in front of the elbow joint, in connection with several variations of the arteries 58</p> <p style="text-align: center;">PLATE XLII.</p> <p>FIG. 1 & 2. The Arterial Branches anastomosing about the elbow joint. FIG. 3, 4, & 5. Pencil-drawing of the Radial artery 59</p> <p style="text-align: center;">PLATE XLIII.</p> <p>Pencil-drawing of the Radial, Ulnar, and Intercostalis arteries in the fore-arm and hand 61</p> <p style="text-align: center;">PLATE XLIV.</p> <p>The Intercostalis joins in different cases with the other two arteries of the fore-arm, and communicates for their small size 62</p> <p style="text-align: center;">PLATE XLV.</p> <p>FIG. 1. A rare form of Median artery. FIG. 2. A peculiar muscle connected with the Ulnar artery. FIG. 3 to 6. Various states of the Superficial veins and Palmar arteries 63</p> <p style="text-align: center;">PLATE XLVI.</p> <p>Various conditions of the arteries of the hand 65</p> <p style="text-align: center;">PLATE XLVII.</p> <p>The Thoracic aorta and the Intercostalis arteries, with the Intercostal Veins, Vena Azygos, the Thoracic duct, &c., seen in connection with the portions of the thorax 68</p> <p style="text-align: center;">PLATE XLVIII.</p> <p>The aorta of the Aorta, with the branches springing from it. The Heart and the Veins connected with it. The Coronary arteries 69</p> <p style="text-align: center;">PLATE XLIX.</p> <p>The Abdomen opened, and the Celiac axis with its branches, viz., Coronary (of Stomach), Hepatic, and Splenic 70</p> <p style="text-align: center;">PLATE L.</p> <p>FIG. 1. The branches of the Celiac axis more fully displayed. FIG. 2 & 3. Some branches of the Superior and Inferior Mesenteric arteries—so show their arrangement as they approach the intestine 71</p> <p style="text-align: center;">PLATE LI.</p> <p>The Superior Mesenteric artery and its branches 73</p> <p style="text-align: center;">PLATE LII.</p> <p>The Inferior Mesenteric artery and its branches 74</p> <p style="text-align: center;">PLATE LIII.</p> <p>The Abdominal Aorta and the branches arising in its course. The Iliac arteries 74</p> <p style="text-align: center;">PLATE LIV.</p> <p>The Abdominal Aorta. Some of its branches more fully displayed than in the preceding plate 75</p> <p style="text-align: center;">PLATE LV.</p> <p>The Iliac arteries in connection with the veins 76</p> <p style="text-align: center;">PLATE LVI.</p> <p>Pencil-drawing of the Abdominal Aorta, and of some of its branches 80</p> <p style="text-align: center;">PLATE LVII.</p> <p>Pencil-drawing of some of the branches of the Abdominal Aorta, and of the Iliac arteries 80</p> <p style="text-align: center;">PLATE LVIII.</p> <p>FIG. 1. Usual conformation of the Iliac arteries. FIG. 2 to 5. Examples of peculiar dispositions of the large Veins of the Abdomen and Thorax 80</p>	<p style="text-align: center;">PLATE LIX.</p> <p>The Arteries distributed to the female Pelvic organs 77</p> <p style="text-align: center;">PLATE LX.</p> <p>The Arteries of the Pubis of the male 78</p> <p style="text-align: center;">PLATE LXI.</p> <p>A view of the Arteries and other structures displayed in a superficial dissection of the Perineum 80</p> <p style="text-align: center;">PLATE LXII.</p> <p>A deeper dissection of the Perineum. The Pudic artery and the artery of the Bulb are shown 80</p> <p style="text-align: center;">PLATE LXIII.</p> <p>FIG. 1. The Uterine and Ovarian branches. FIG. 2. The Pudic artery, and the branches of the Pudic Veins of the male fully dissected out. FIG. 3, 4, & 5. Peculiar forms of the Pudic branches 81</p> <p style="text-align: center;">PLATE LXIV.</p> <p>Various forms of the Pudic branches seen in the Perineum 87</p> <p style="text-align: center;">PLATE LXV.</p> <p>FIG. 1. A peculiarity of one of the Pudic branches. FIG. 2 & 3. Enlarged veins of the Prostatic Gland and Urinary Bladder. FIG. 4 to 7. Variations of the branches taking rise from the External Iliac and Internal Iliac arteries 89</p> <p style="text-align: center;">PLATE LXVI.</p> <p>FIG. 1, 2, & 3. Various conditions of the Obturator artery. FIG. 4. The Epigastric in connection with a hernia 90</p> <p style="text-align: center;">PLATE LXVII.</p> <p>The position of the Epigastric artery with reference to different kinds of hernia illustrated 92</p> <p style="text-align: center;">PLATE LXVIII.</p> <p>The various relations of the Obturator artery to different kinds of hernia 93</p> <p style="text-align: center;">PLATE LXIX.</p> <p>The Femoral artery, and its branches 95</p> <p style="text-align: center;">PLATE LXX.</p> <p>A view of the Femoral artery, with the veins, nerves, and fascia 95</p> <p style="text-align: center;">PLATE LXXI.</p> <p>FIG. 1. The Femoral artery, with nerves and veins more fully shown. FIG. 2. Double Femoral artery 96</p> <p style="text-align: center;">PLATE LXXII.</p> <p>FIG. 1 & 2. Are supplemental to a former Plate, giving additional illustration of the position of the Epigastric artery, and of the position of the Obturator in reference to several hernia. FIG. 3 to 6. Various forms of the Deep Femoral artery 97</p> <p style="text-align: center;">PLATE LXXIII.</p> <p>Pencil-drawing of the branches of the Deep Femoral, especially of the External Circumflex 98</p> <p style="text-align: center;">PLATE LXXIV.</p> <p>The branches of the Deep Femoral further illustrated, and especially the Internal Circumflex 98</p> <p style="text-align: center;">PLATE LXXV.</p> <p>Various forms of the Veins connected with the Femoral artery 99</p> <p style="text-align: center;">PLATE LXXVI.</p> <p>The Arteries on the posterior surface of the Pubis 99</p> <p style="text-align: center;">PLATE LXXVII.</p> <p>The Arteries on the Pubis more completely exposed than in the foregoing Plate; together with the termination of the Internal Circumflex and perforating branches. The Popliteal artery—its upper part 99</p> <p style="text-align: center;">PLATE LXXVIII.</p> <p>FIG. 1. The Artery, with the veins and nerves of the Popliteal space. FIG. 2 & 3. Different views of the Popliteal artery in its whole length, and the branches 101</p> <p style="text-align: center;">PLATE LXXIX.</p> <p>The Popliteal artery, and its peculiarities 102</p> <p style="text-align: center;">PLATE LXXX.</p> <p>Various arrangements of the veins and the muscles connected with the Popliteal artery 104</p> <p style="text-align: center;">PLATE LXXXI.</p> <p>Views of the Arteries on the back part of the Leg—Popliteal, Posterior Tibial and Peroneal 100</p> <p style="text-align: center;">PLATE LXXXII.</p> <p>The Anterior Tibial artery 101</p> <p style="text-align: center;">PLATE LXXXIII.</p> <p>FIG. 1. Part of the Posterior Tibial, with the veins, nerves, and fascia—exposed without removing any muscle. FIG. 2. The Peroneal artery. FIG. 3. The Dorsal artery of the foot 101</p> <p style="text-align: center;">PLATE LXXXIV.</p> <p>The Dorsal artery of the Foot, and some peculiarities of the Posterior Tibial and Peroneal 103</p> <p style="text-align: center;">PLATE LXXXV.</p> <p>FIG. 1. Usual conformation of the Muscles over the Posterior Tibial. FIG. 2 to 5. Different forms of the Anterior Tibial and Dorsal artery of the foot 104</p> <p style="text-align: center;">PLATE LXXXVI.</p> <p>The Plantar arteries—their usual arrangement and some deviations from it 106</p> <p style="text-align: center;">PLATE LXXXVII.</p> <p>The ordinary disposition of the arteries of the Brain and Spinal Cord; and some peculiarities of the former 107</p>
--	--	---



271

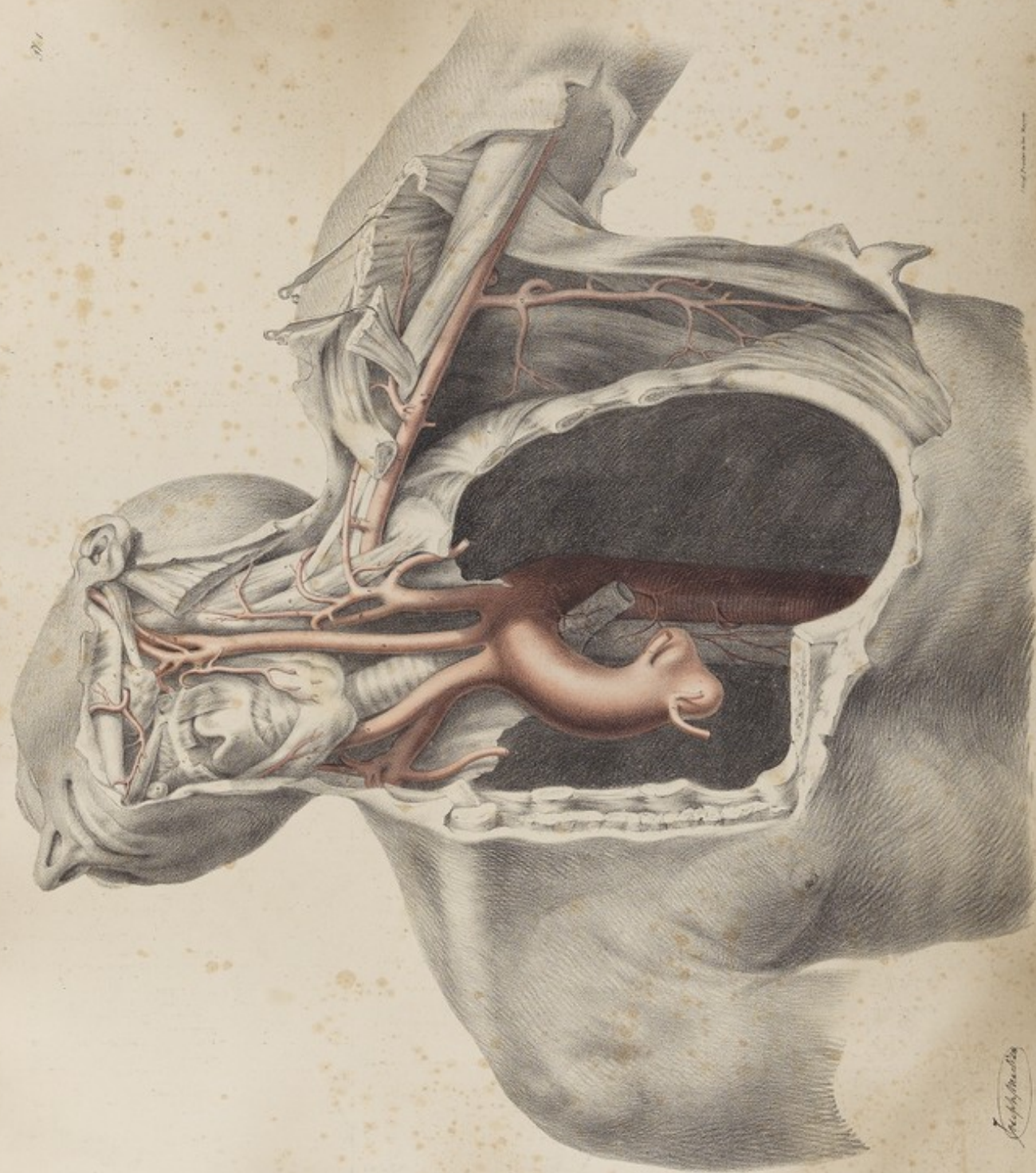
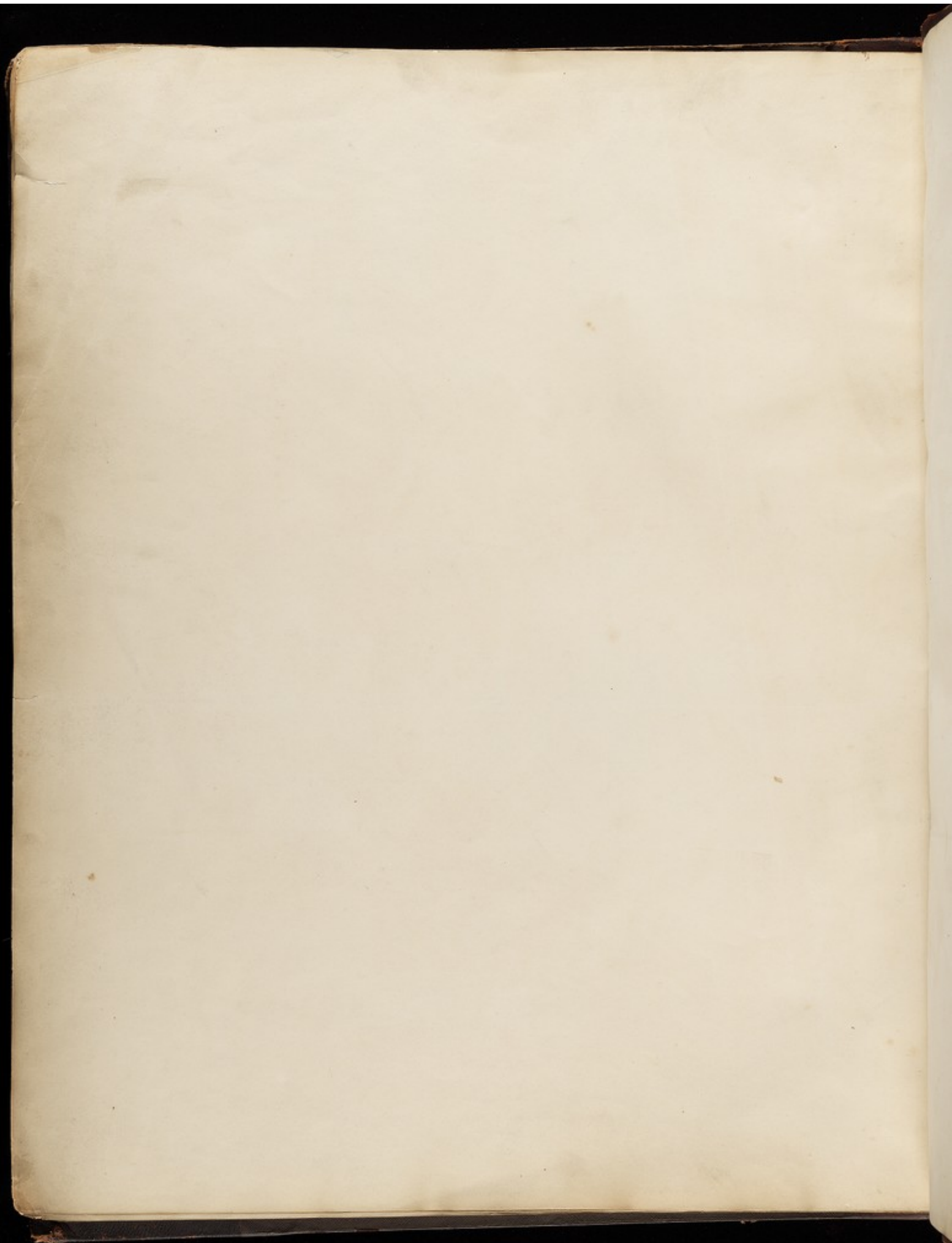
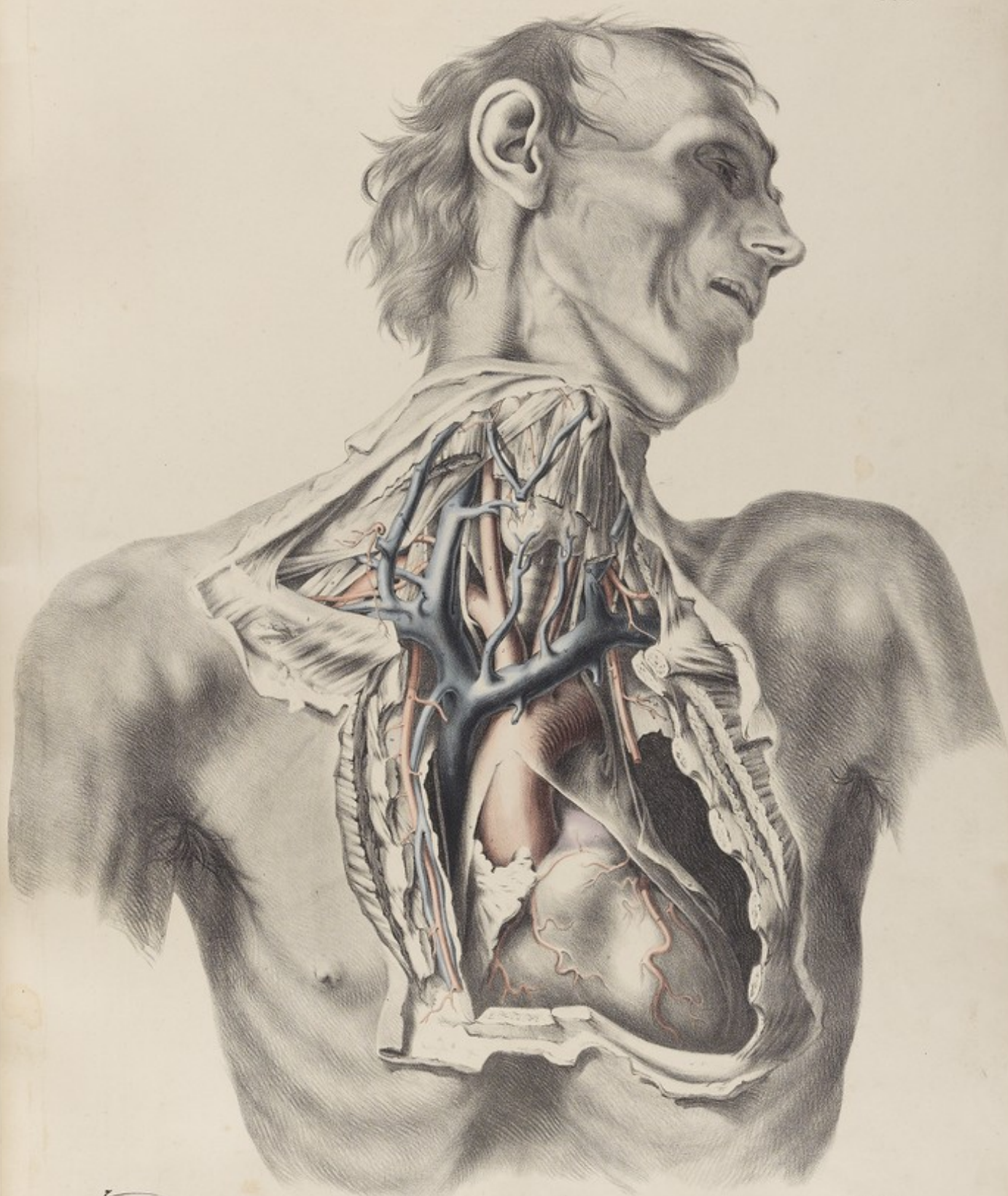


Fig. 1. *Trachea et Larynx*

Tab. 1. *Trachea et Larynx*

J. Wandelaar del.

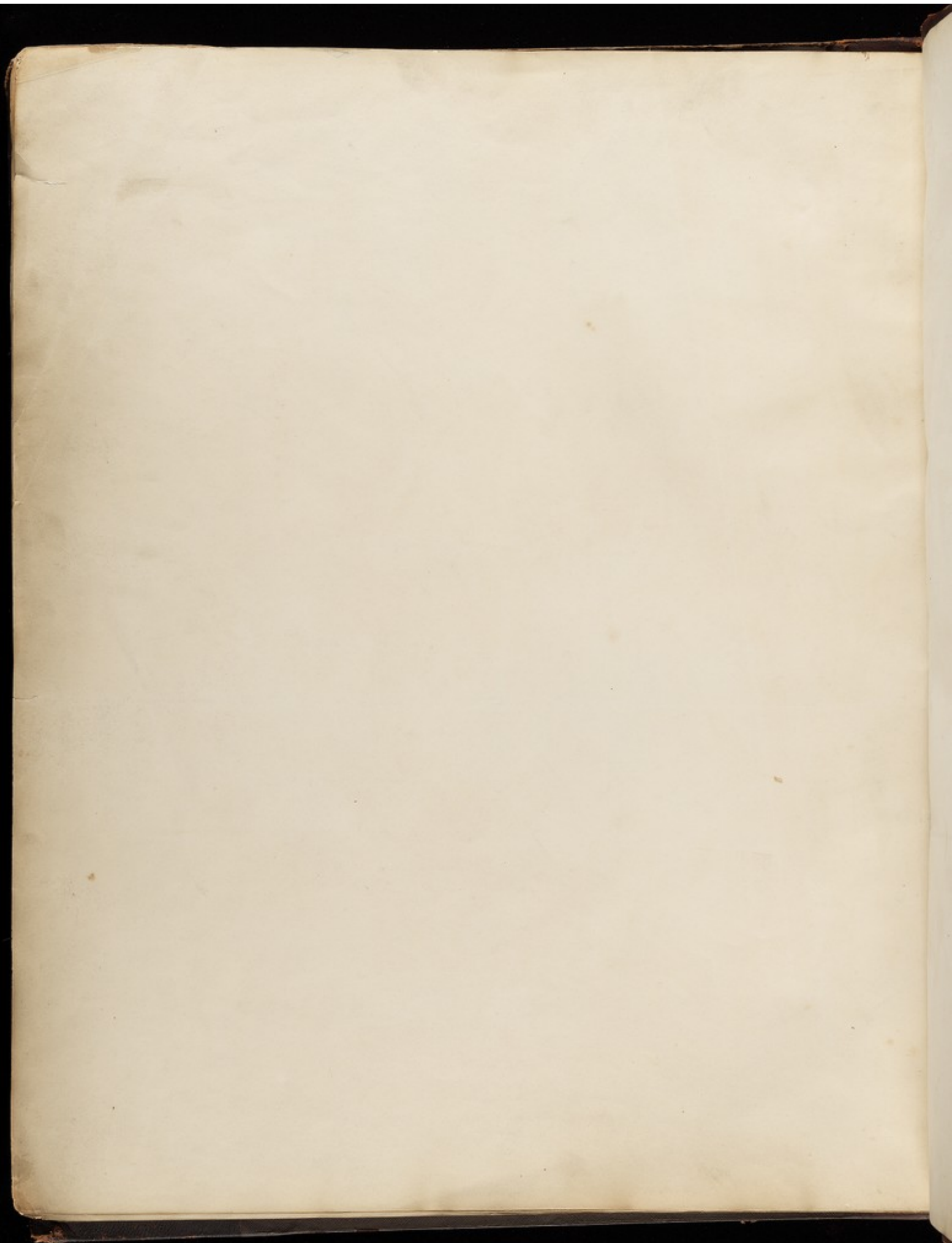




Joseph Wandelaar

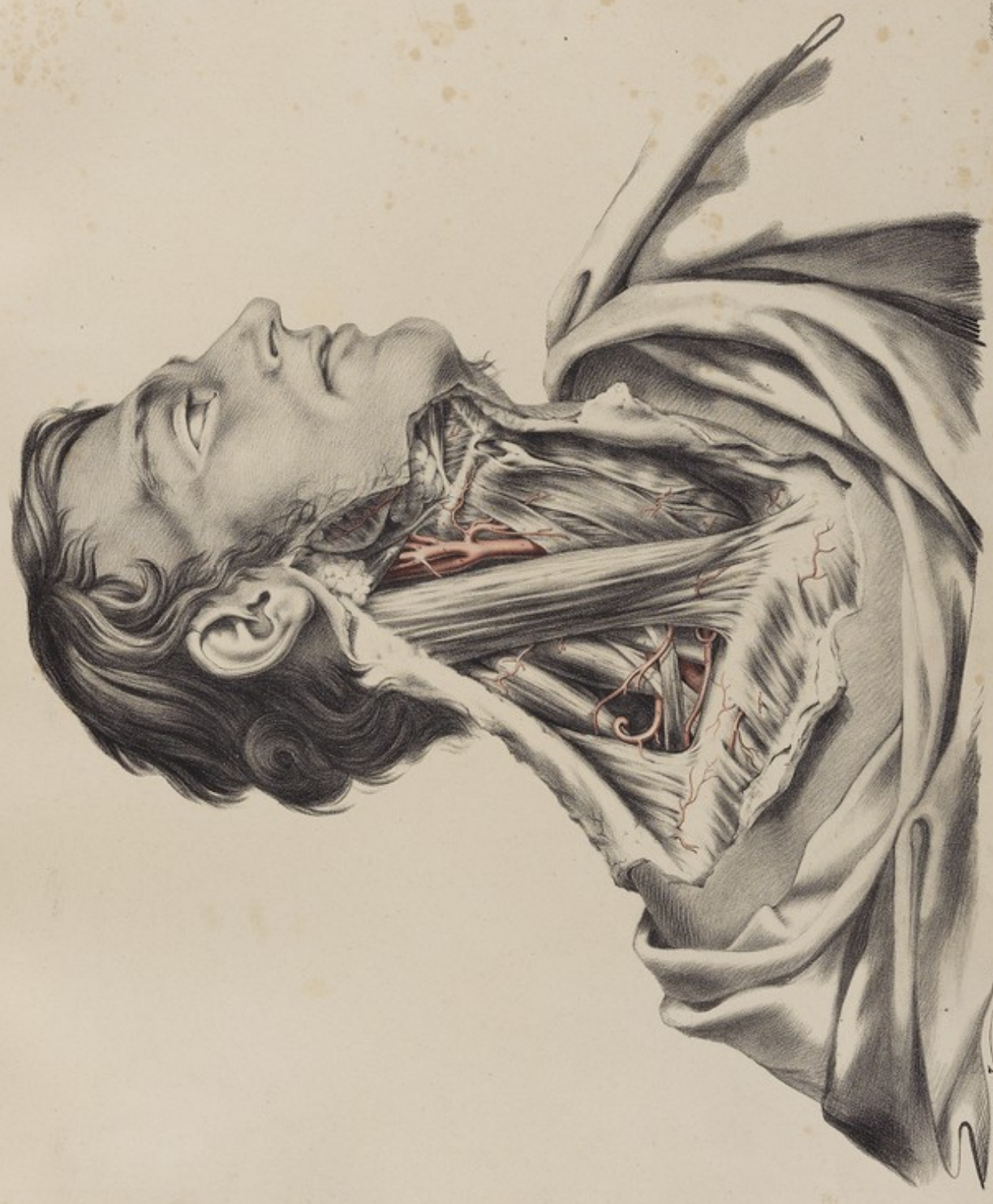
London: Taylor & Walton, Copper-Plate Street.

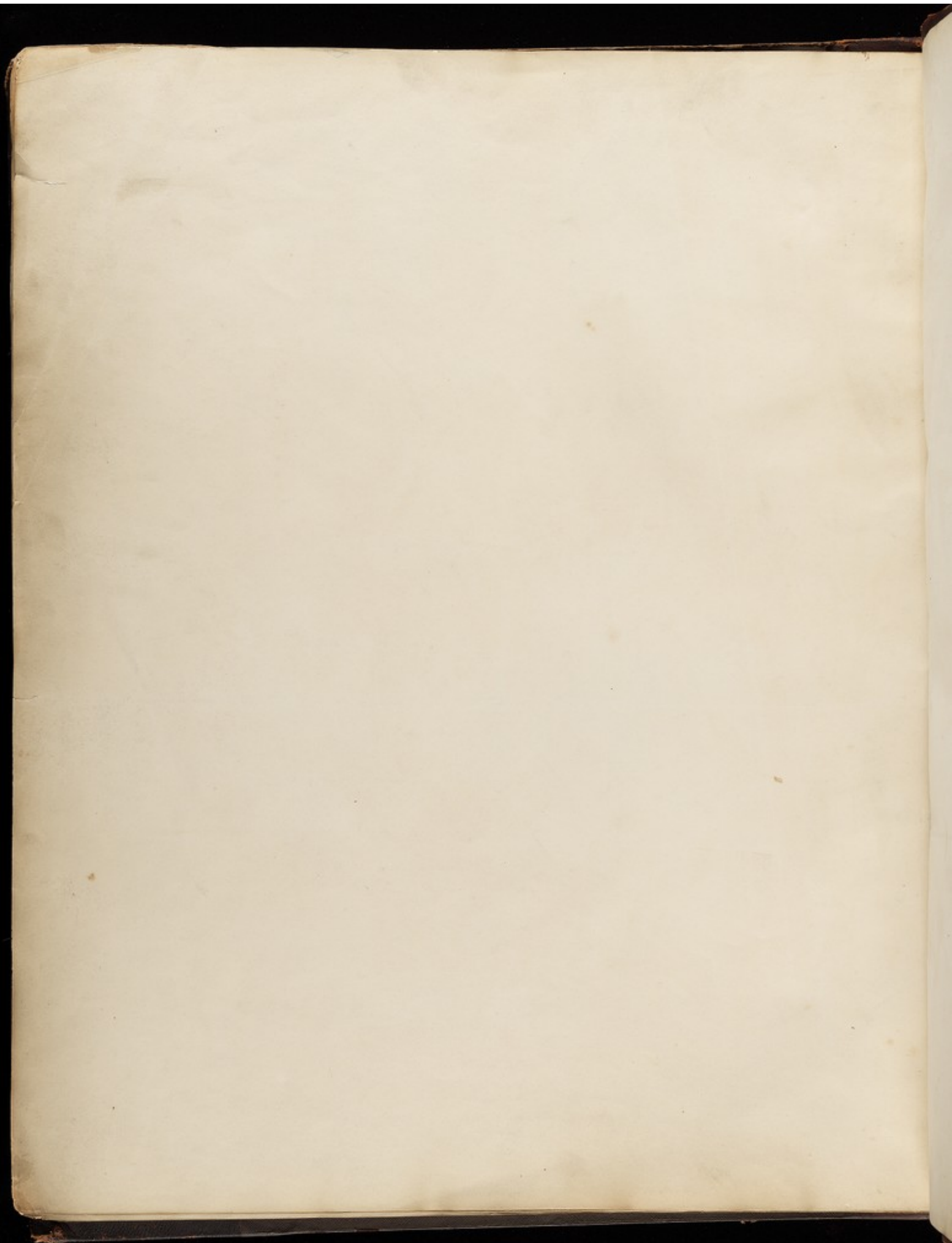
Chief Printer to the Royal Society

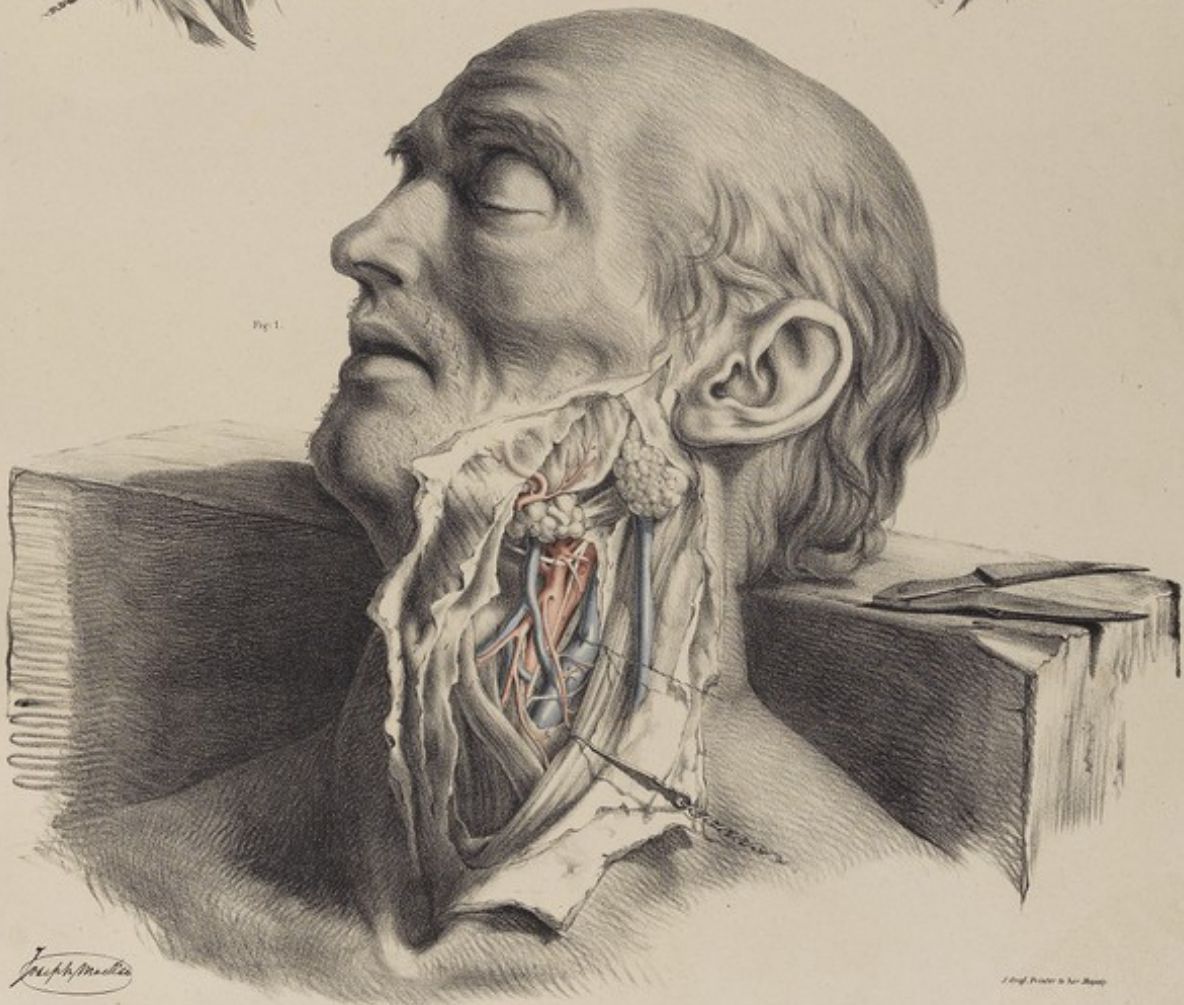


London: Printed & Sold by W. Fisher, in Pall Mall.

Joseph Spangher







Joseph Medlicott

London: Taylor & Walton, Copper-Plate Printers.

J. King, Painter to her Majesty.

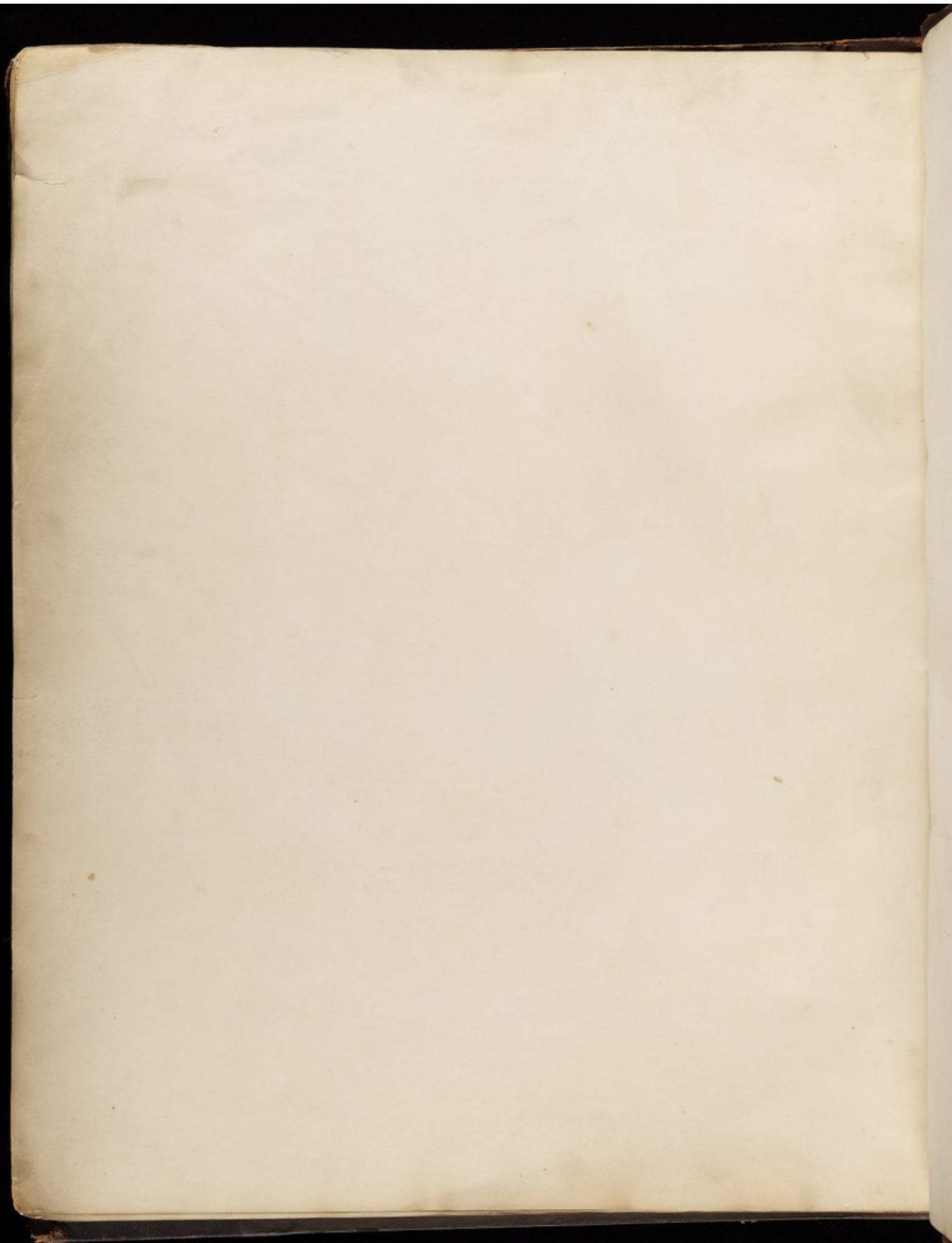


Fig. 1.

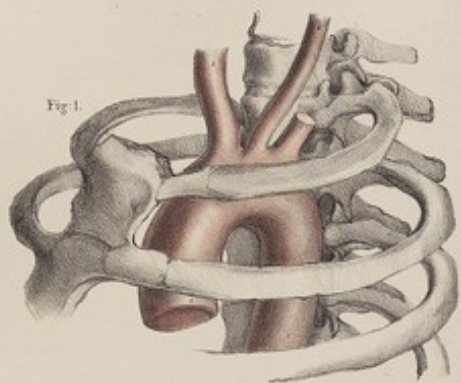
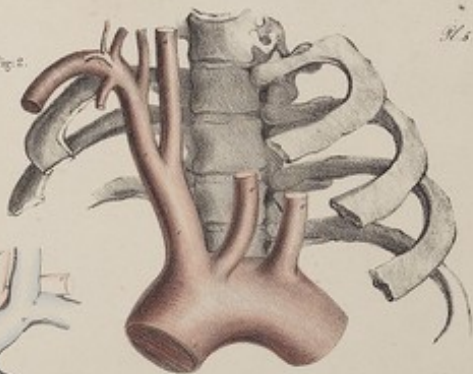


Fig. 2.



375

Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.

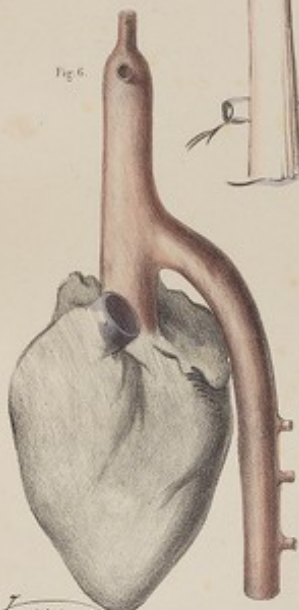


Fig. 7.

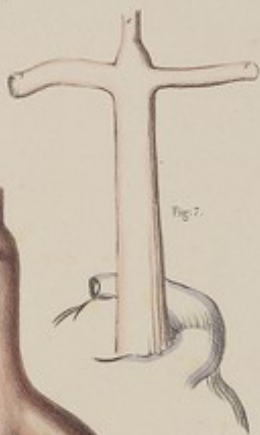


Fig. 10.



Fig. 8.

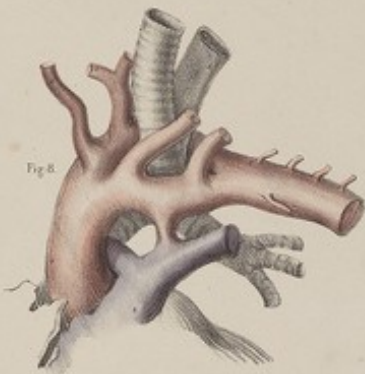


Fig. 9.



Joseph Addison

London: Taylor & Walton, Opposite Lincoln's Inn.

Wm. Fisher del. Sculp.

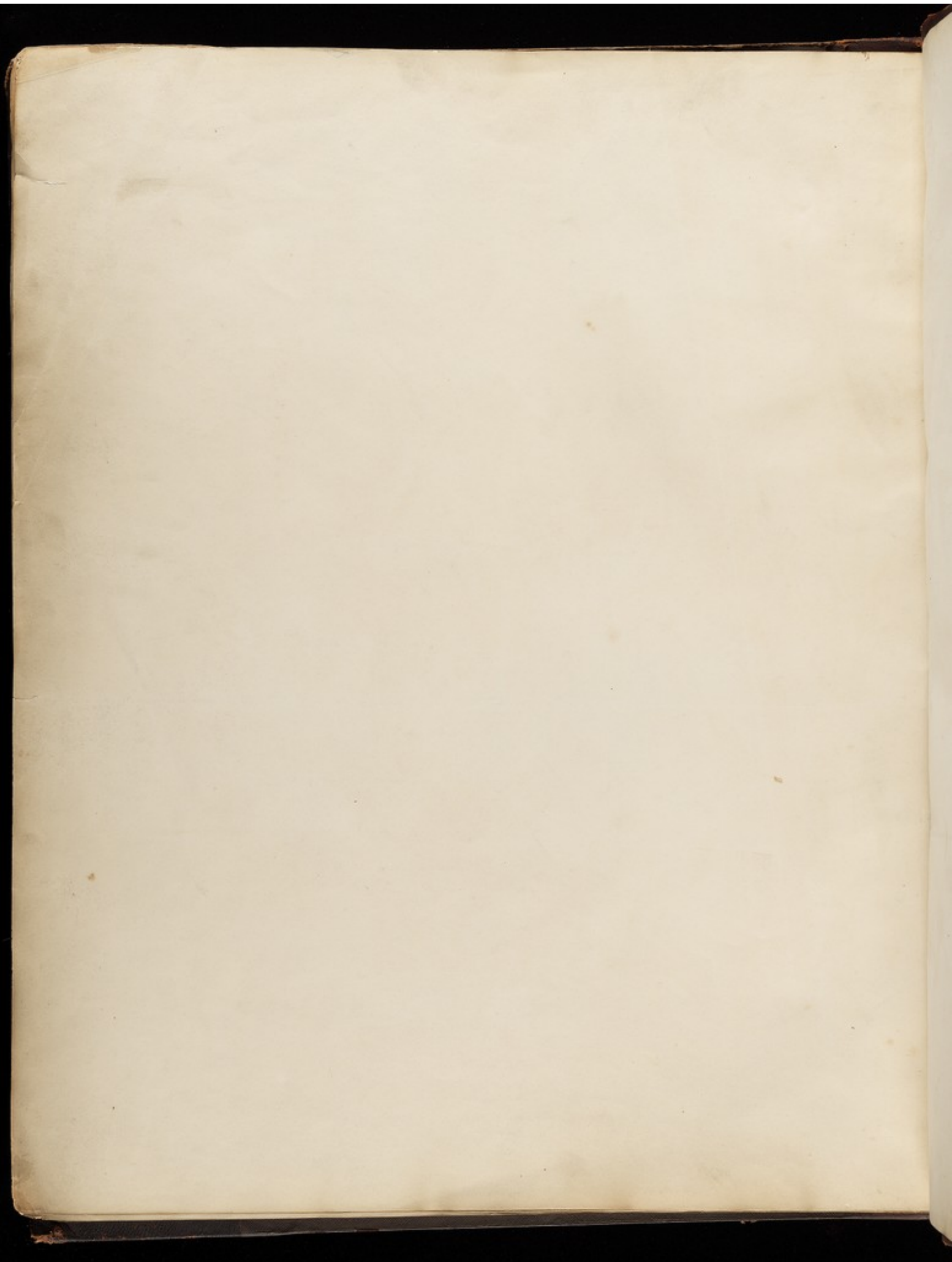




Fig. 1.



Fig. 2.

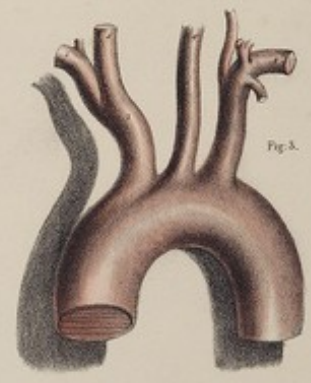


Fig. 3.

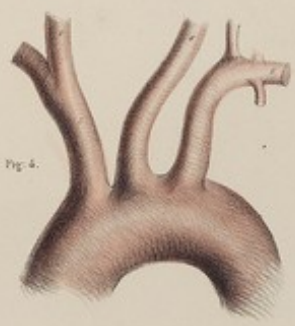


Fig. 4.

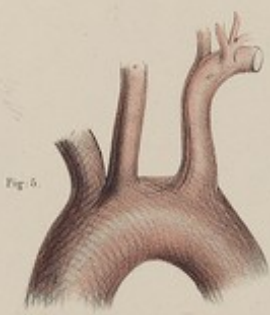


Fig. 5.



Fig. 6.

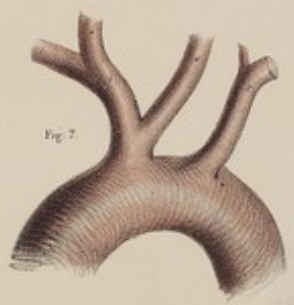


Fig. 7.



Fig. 8.

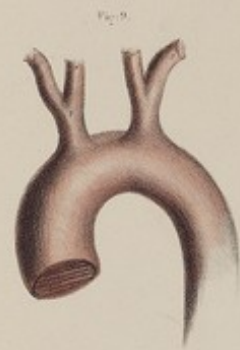


Fig. 9.



Fig. 10.



Fig. 11.

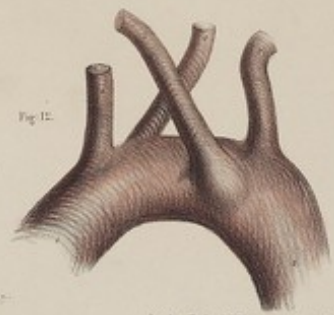


Fig. 12.

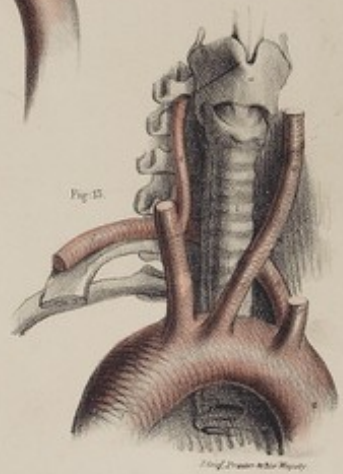
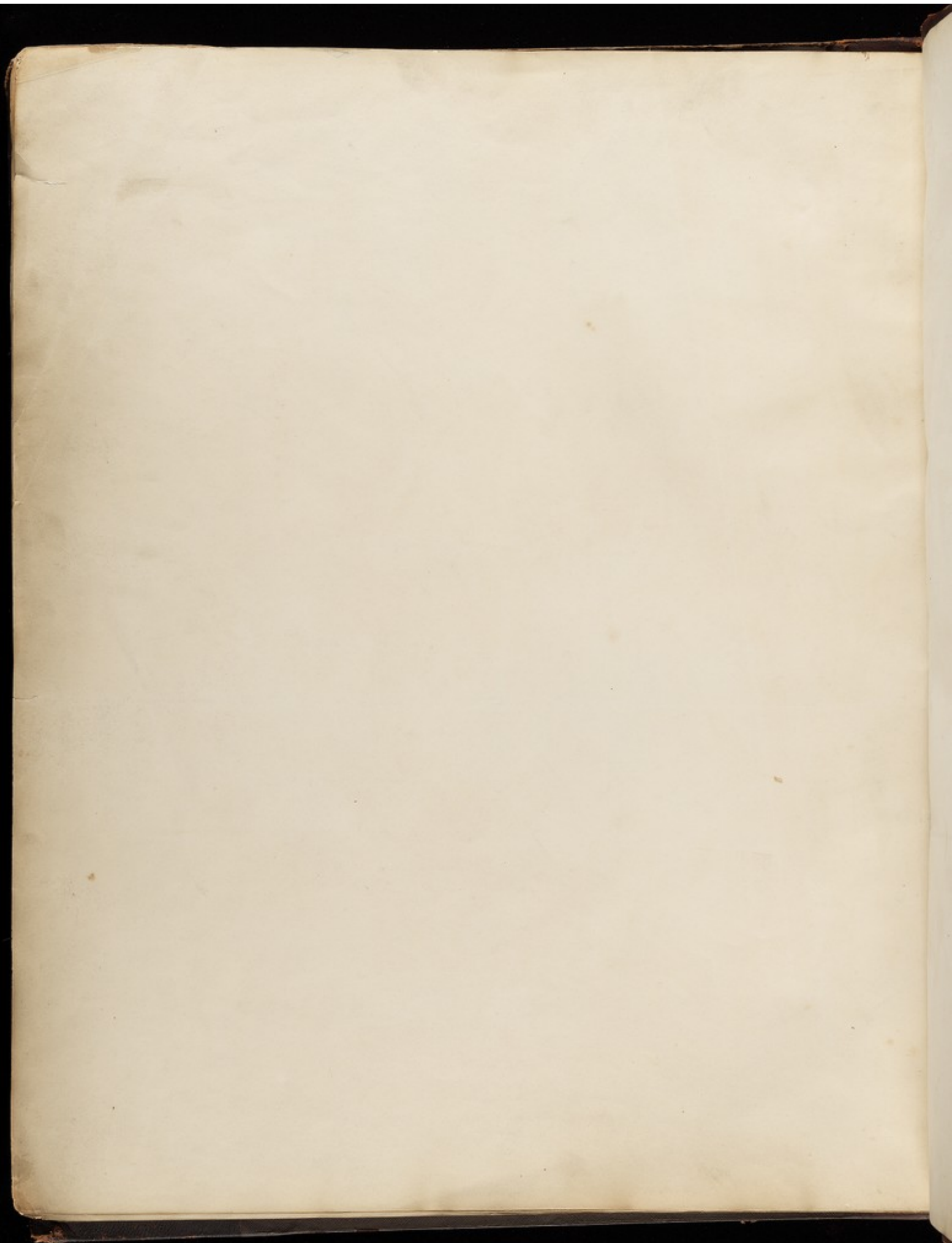


Fig. 13.

Fe. h. Studia

London: Taylor & Walton, Upper Green Street.

Prof. Dr. J. B. S. Ruyter

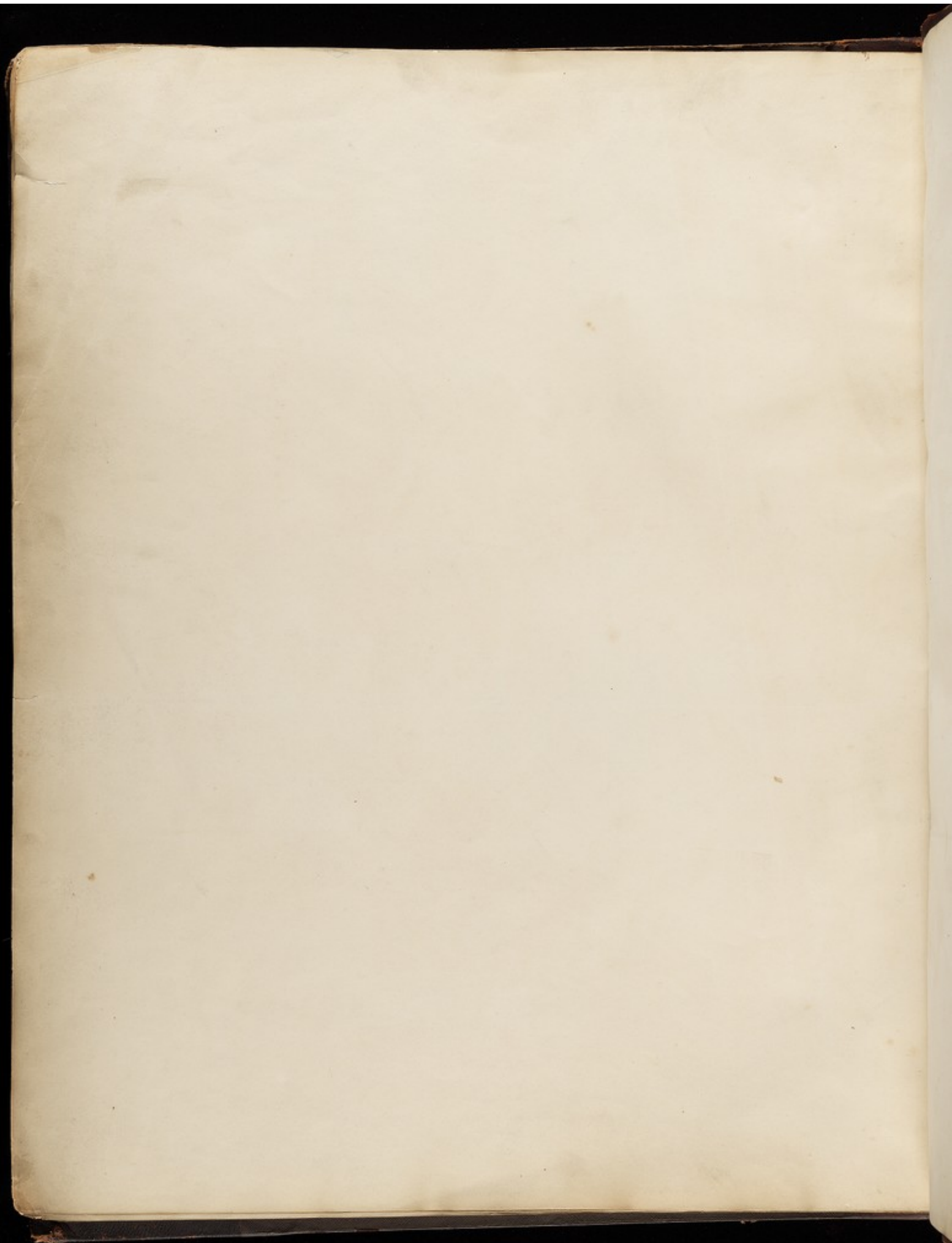




Joseph A. Madler

London: Taylor & Vallon, Copper-Plate Printers.

22 of Prætorian Street



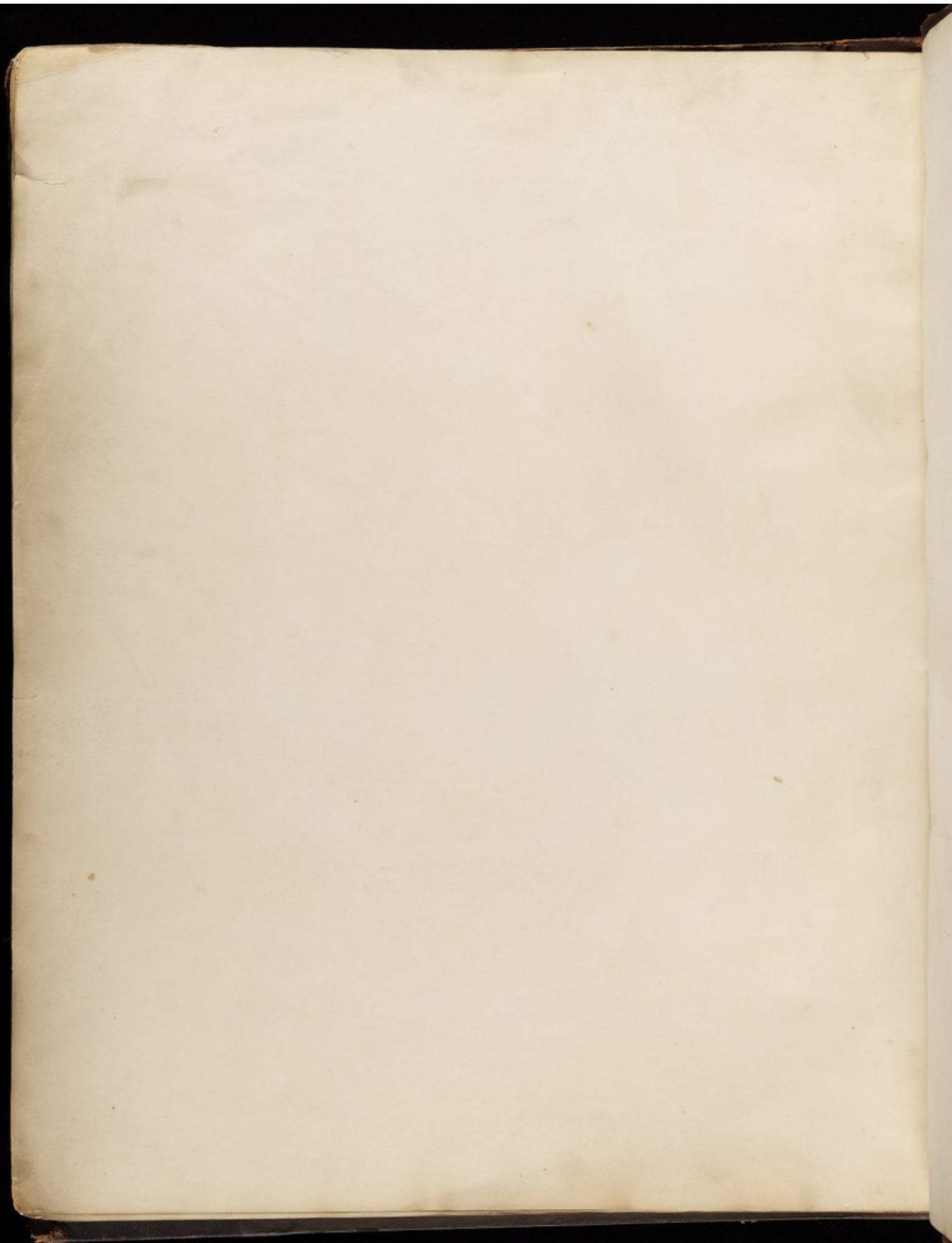
Pl. 1



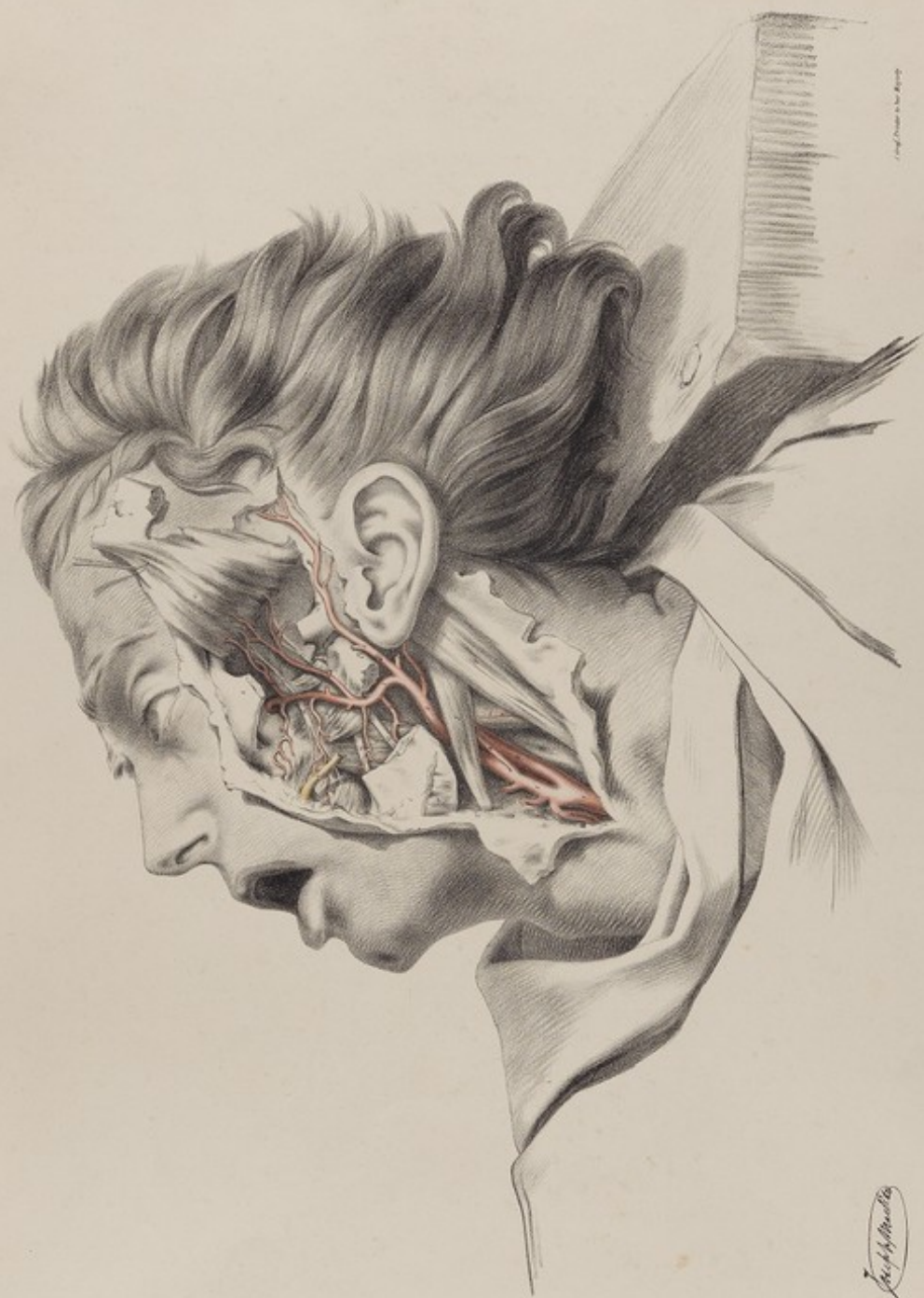
Fig. 1. Head of Man in the Neck.

London: Taylor & Wharton, Upper Corner, Street.

J. G. S. 1825



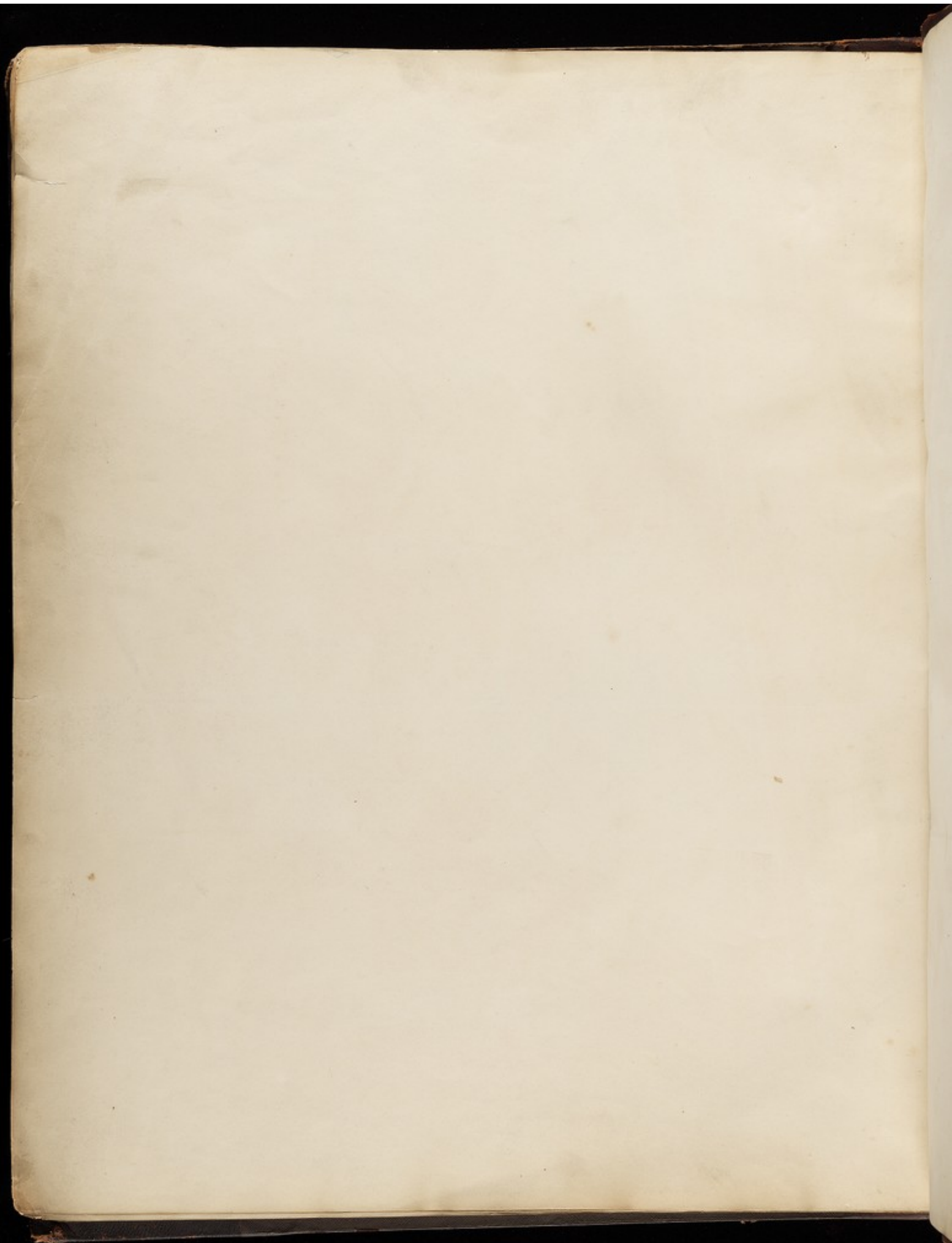
114

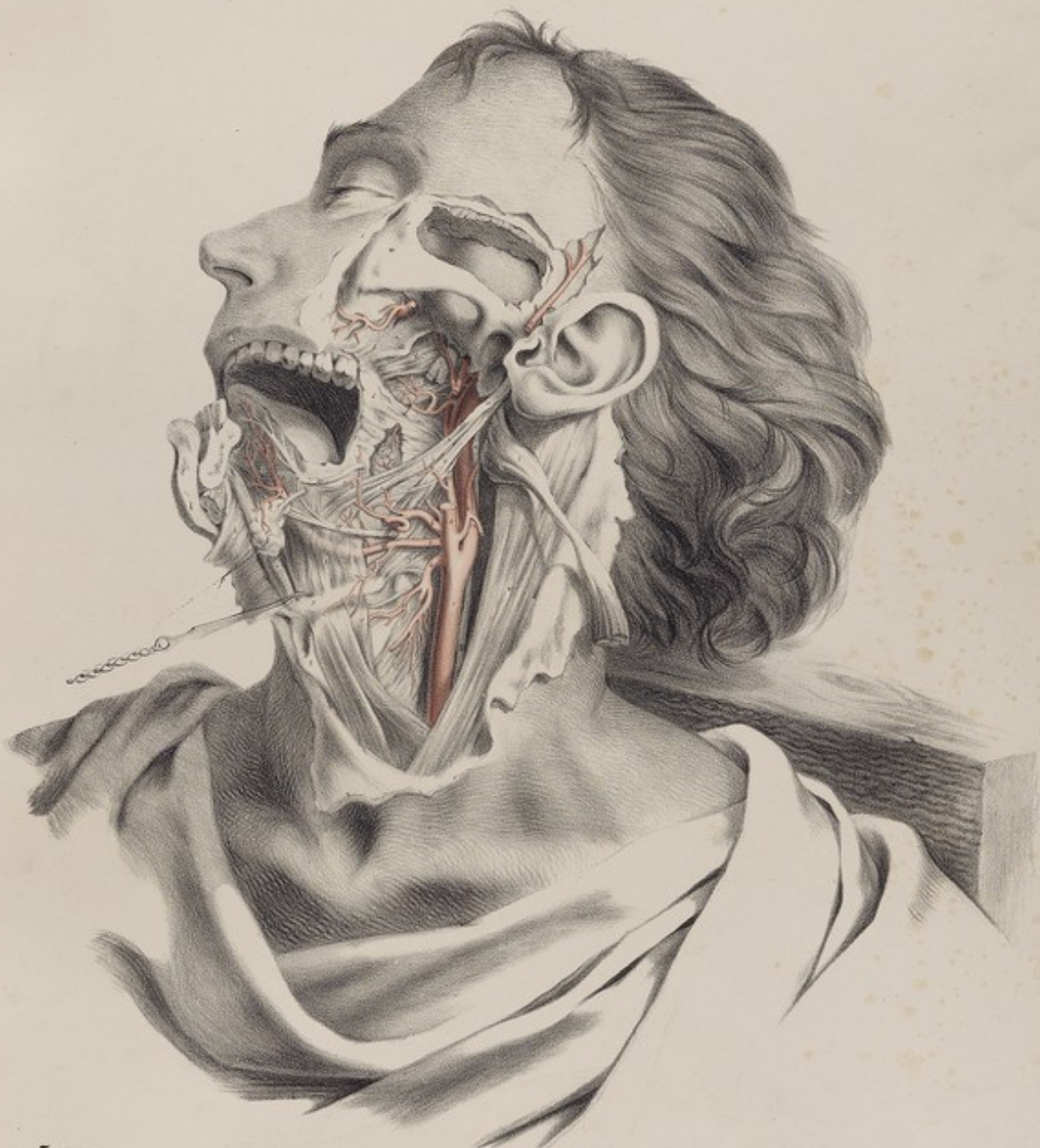


From a drawing by Mr. J. G. S.

London: Taylor & Walton, Typog. Curios. Street.

J. G. S. 1825

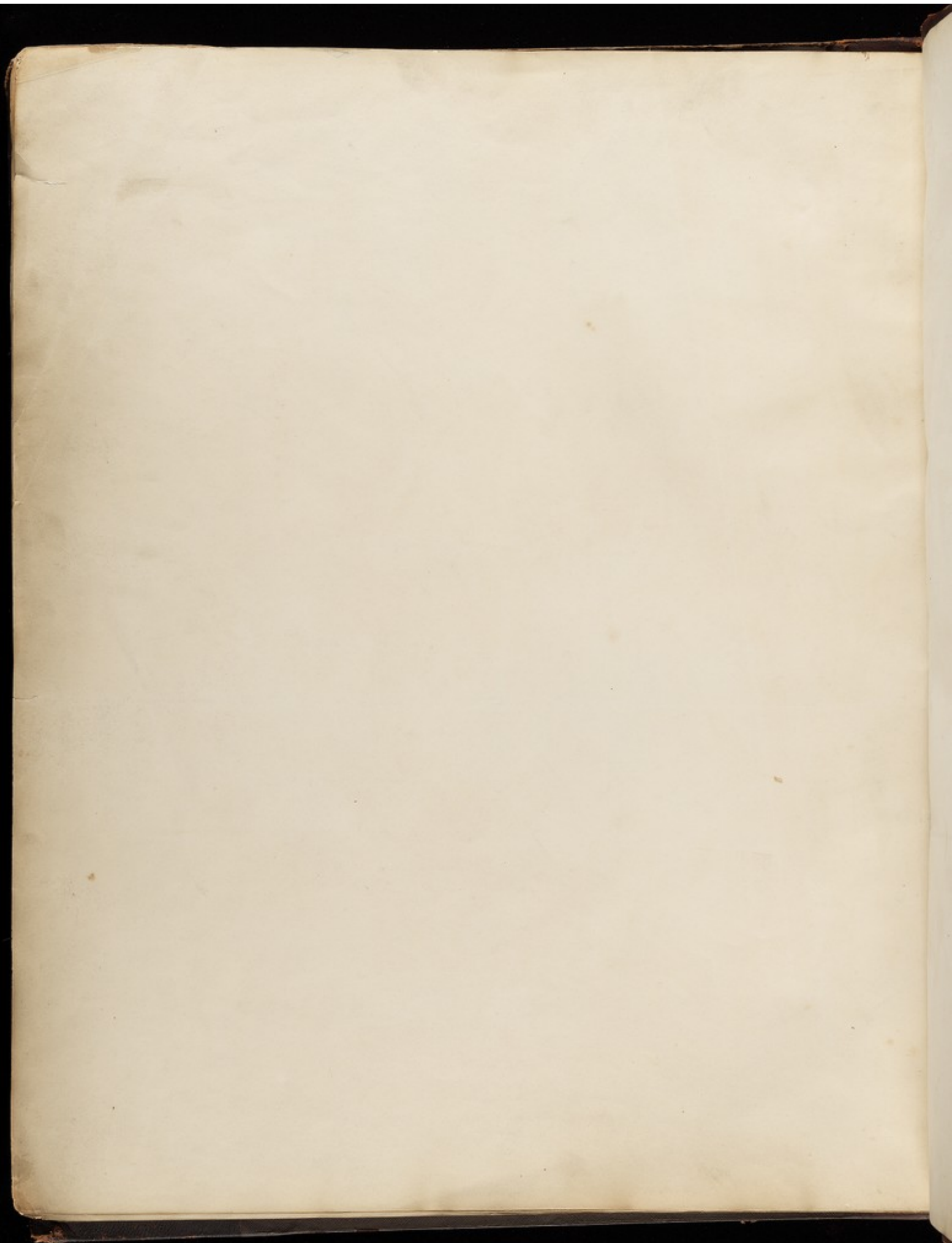


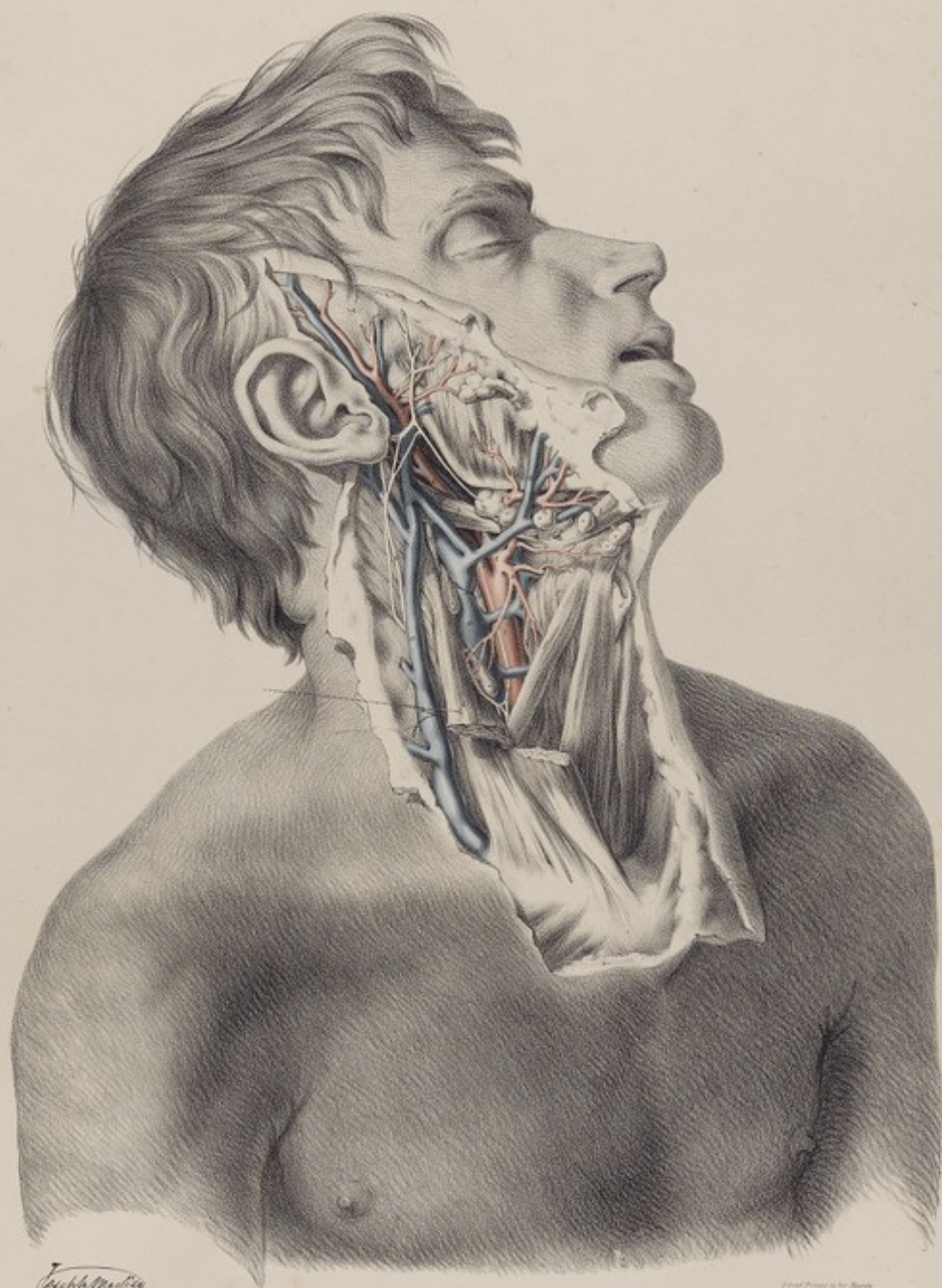


Joseph Mallin

London: Taylor & Walton, Upper Green Street.

J. Gougeon sculp. in the Original

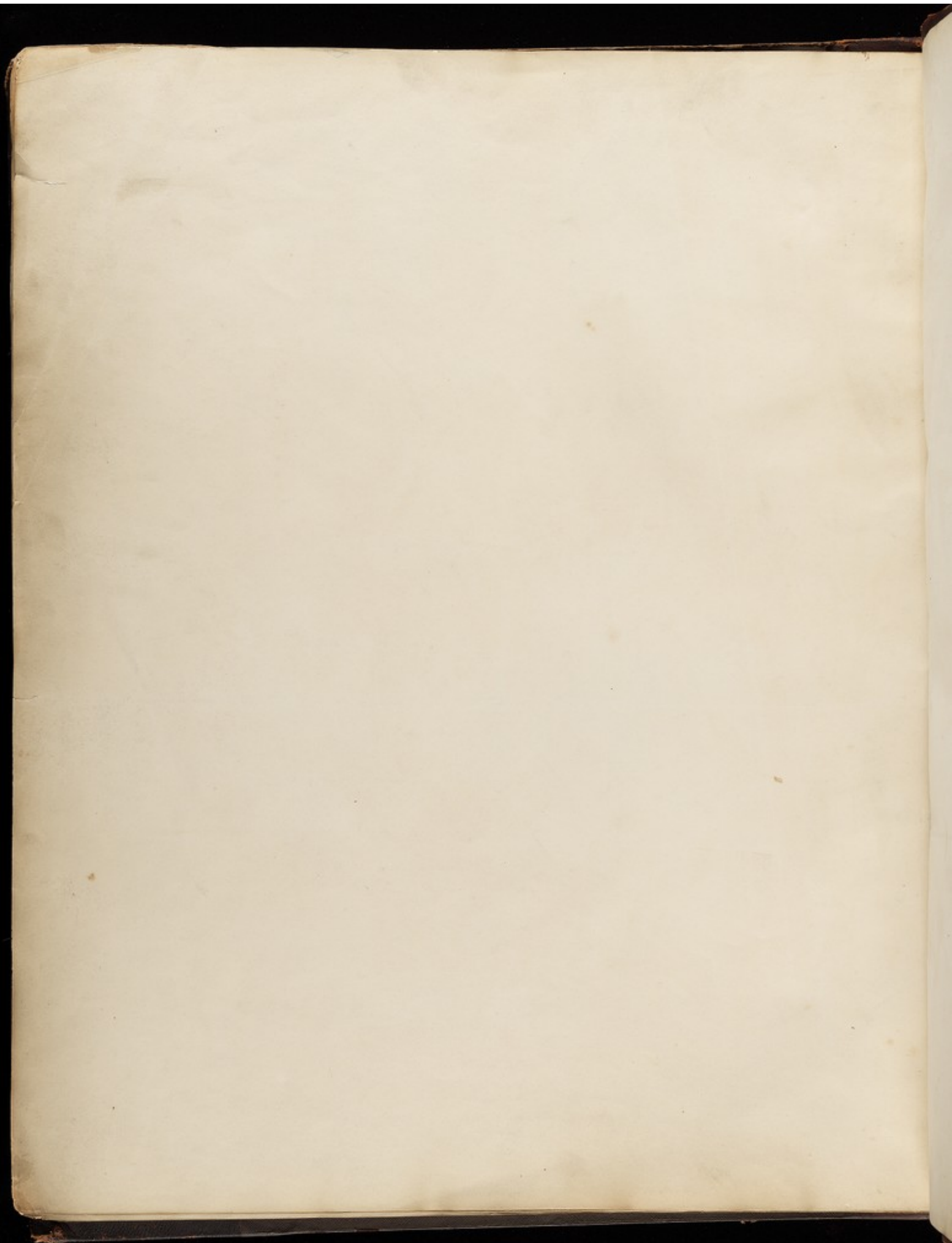


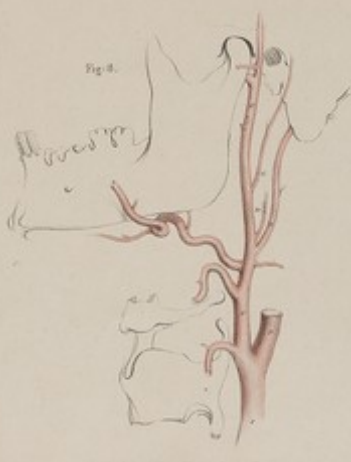
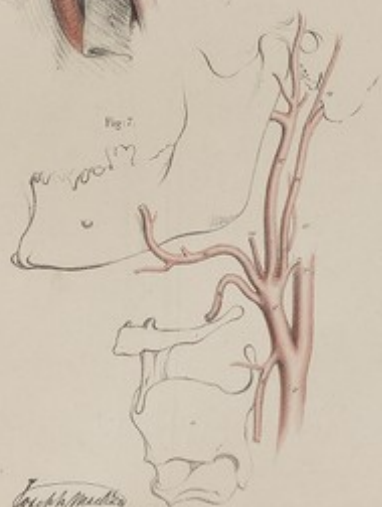
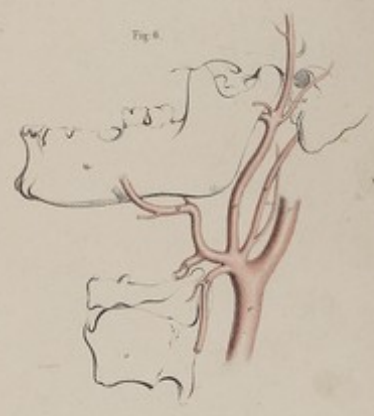
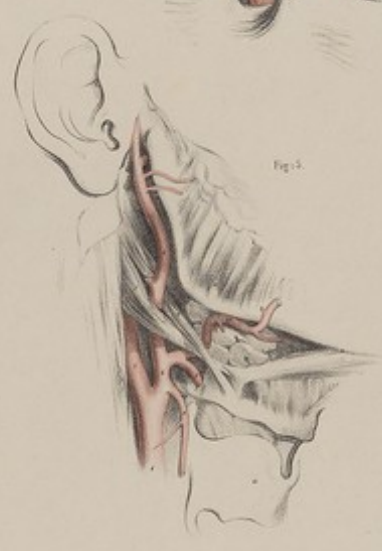
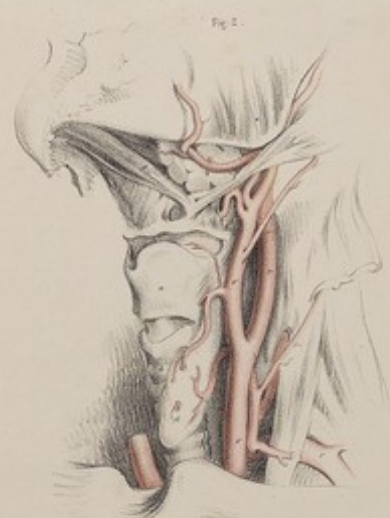


Joseph Nodding

London, Taylor & Walton, Opposite Covent Garden.

Printed by G. B. Whitt.

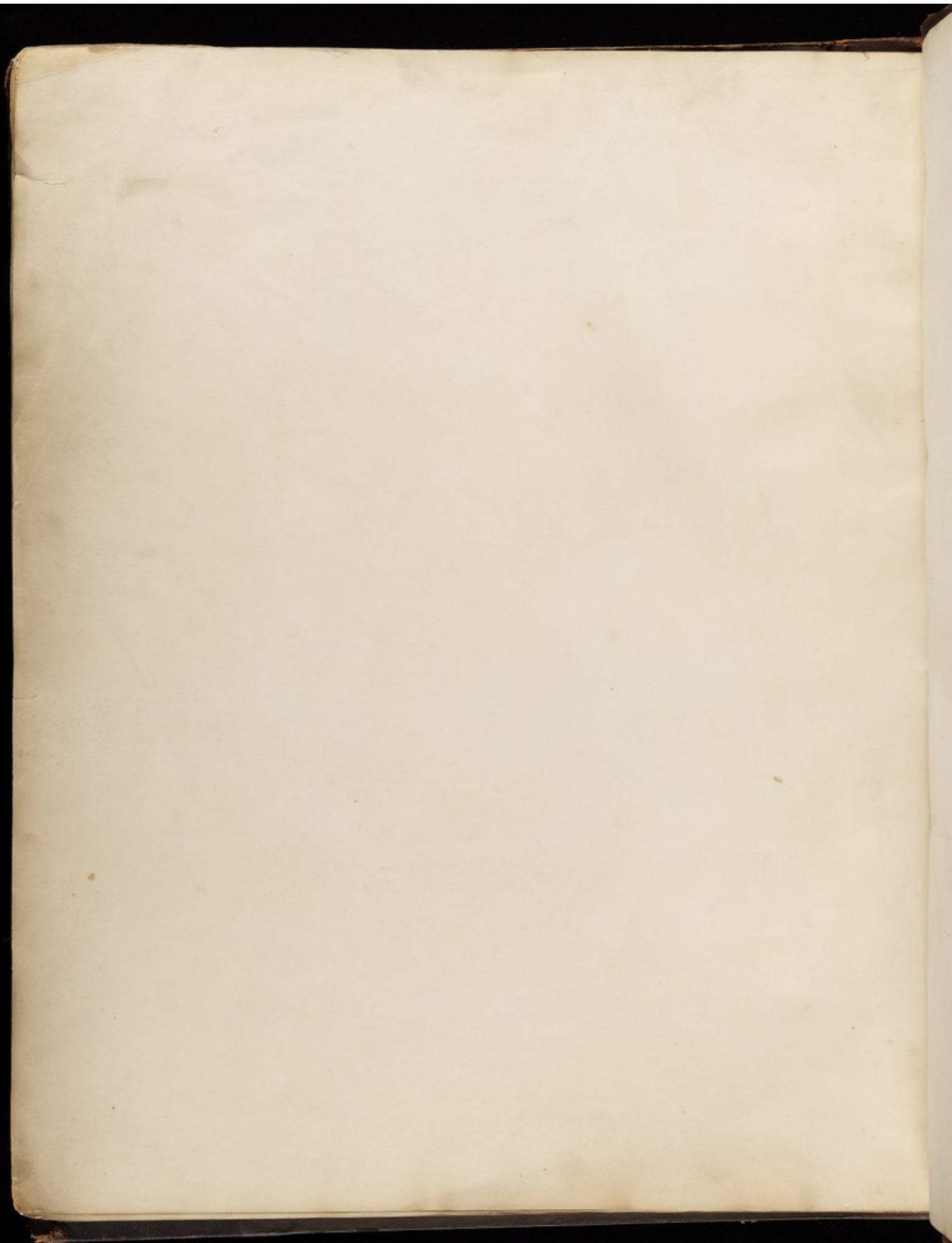




Joseph Medley

London: Taylor & Walton, Upper Green Street.

J. Long, Printer to the Royal Society.



N. P.

Fig. 4.



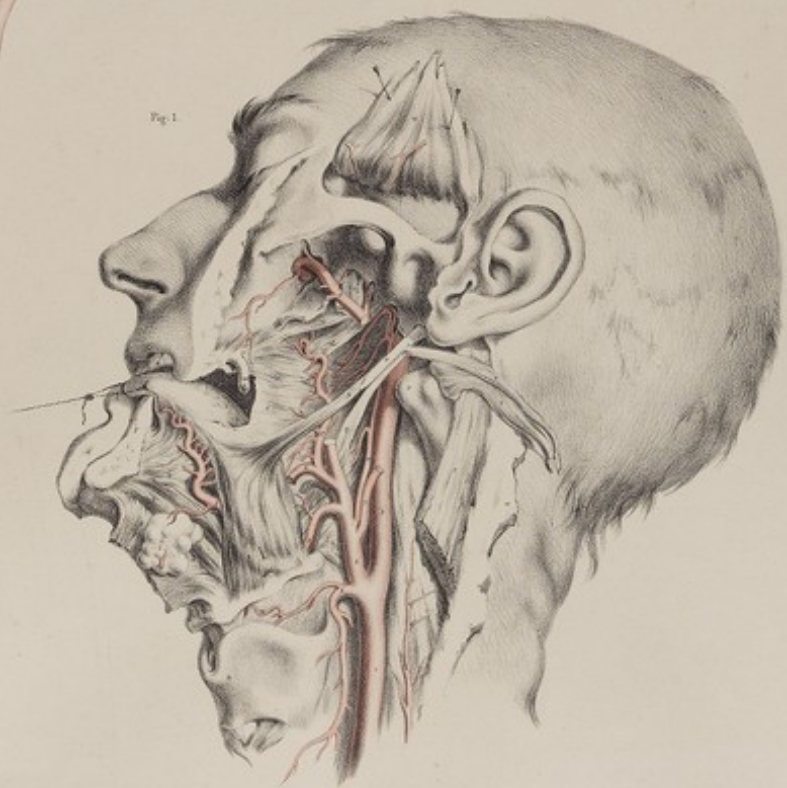
Fig. 2.



Fig. 2.



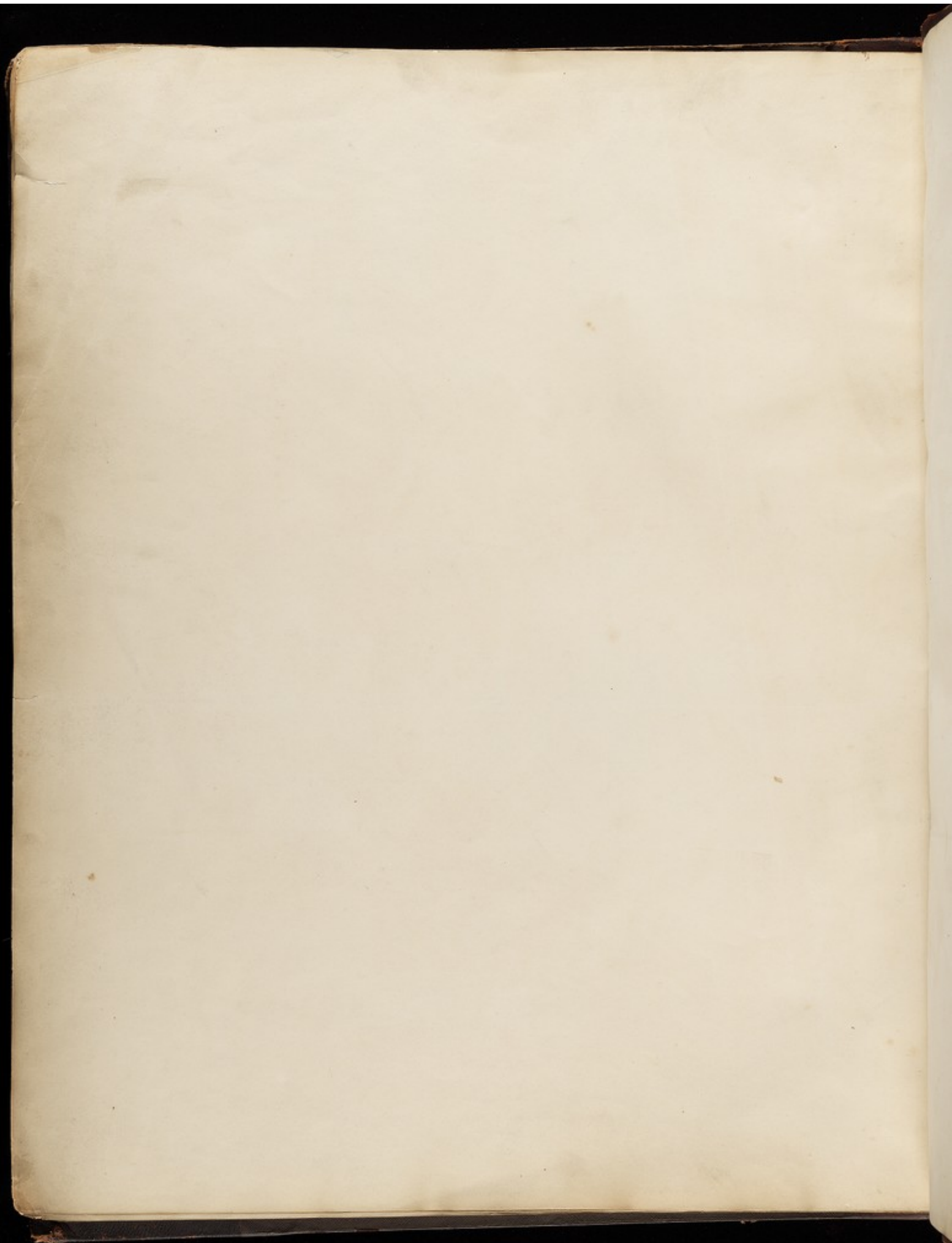
Fig. 1.

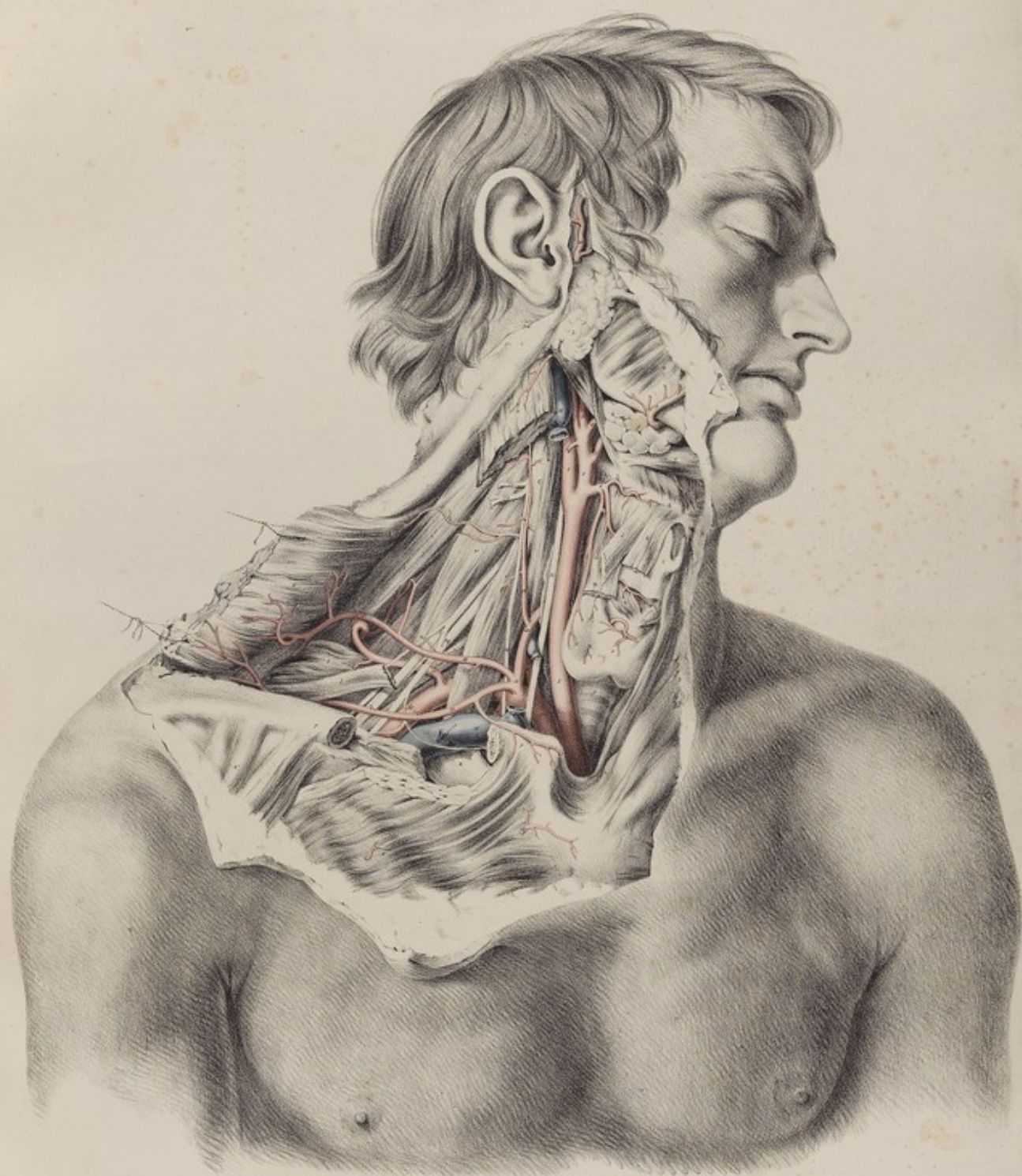


Joseph Maclellan

Printed by W. Wood, 15, St. Paul's Church-yard.

London: Taylor & Walton, Opposite Cannon Street.

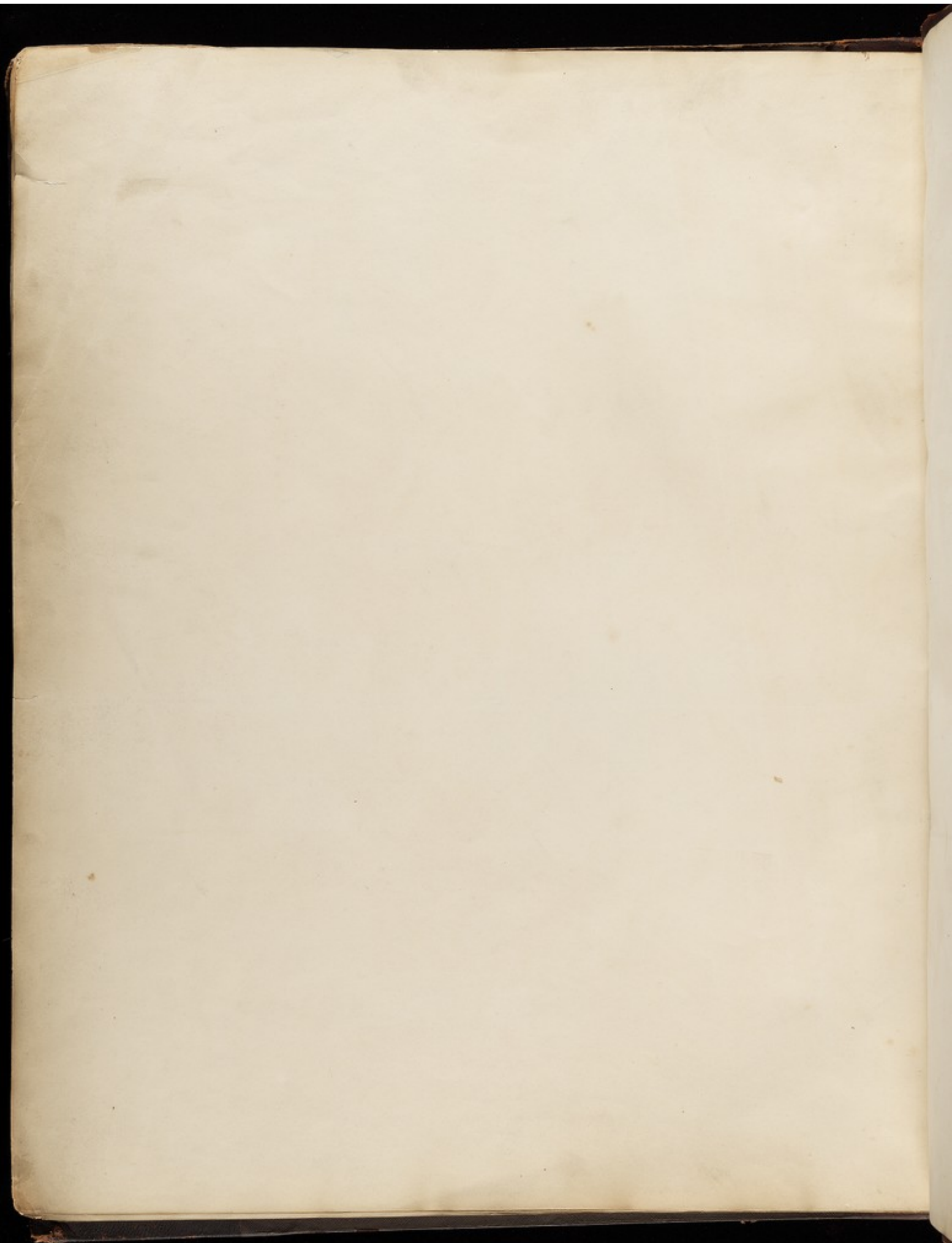




J. G. S. P. M. D.

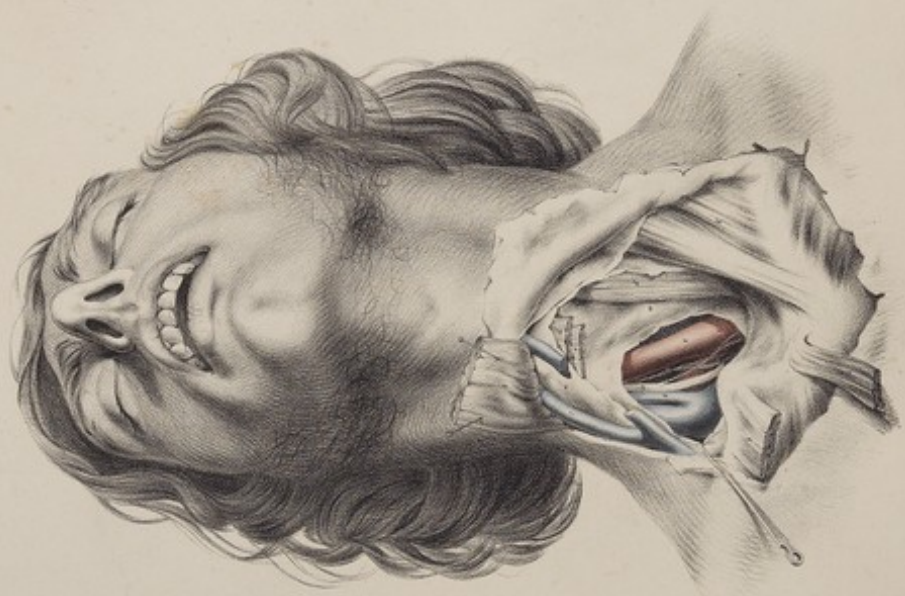
London, Taylor & Welford, Upper Queen Street.

J. G. S. P. M. D.



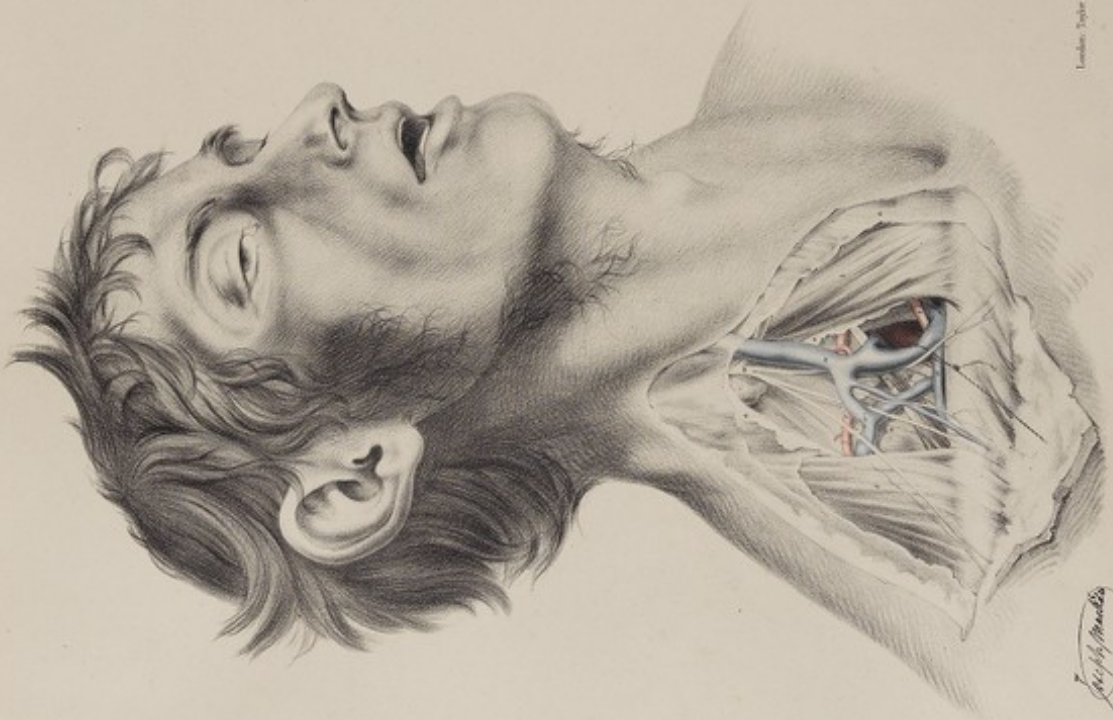
Pl. II.

Fig. 1.



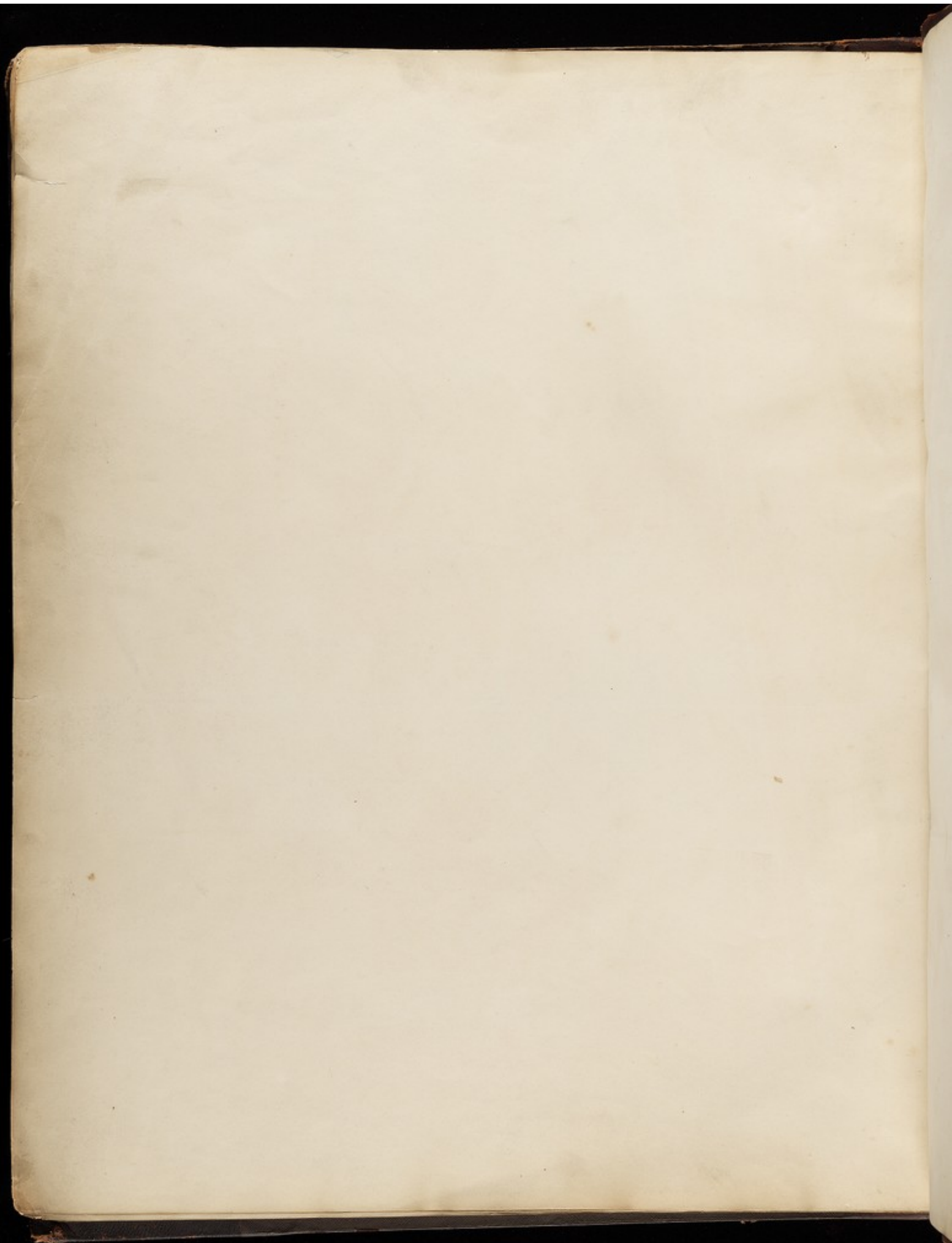
J. Goussier del. et sculp.

Fig. 2.



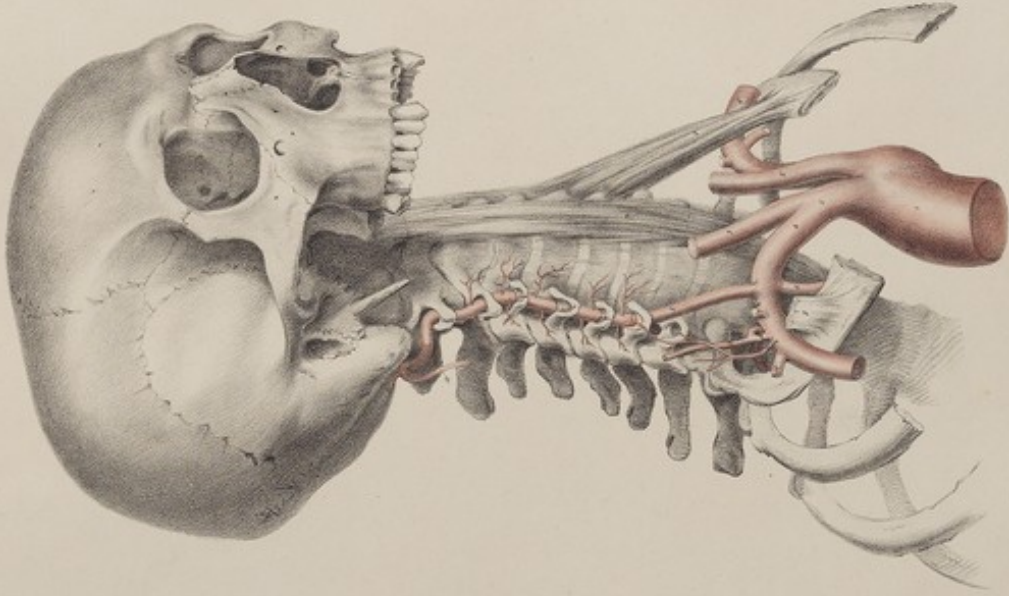
J. Goussier del. et sculp.

London: Taylor & Walton, Upper Avenue Street.



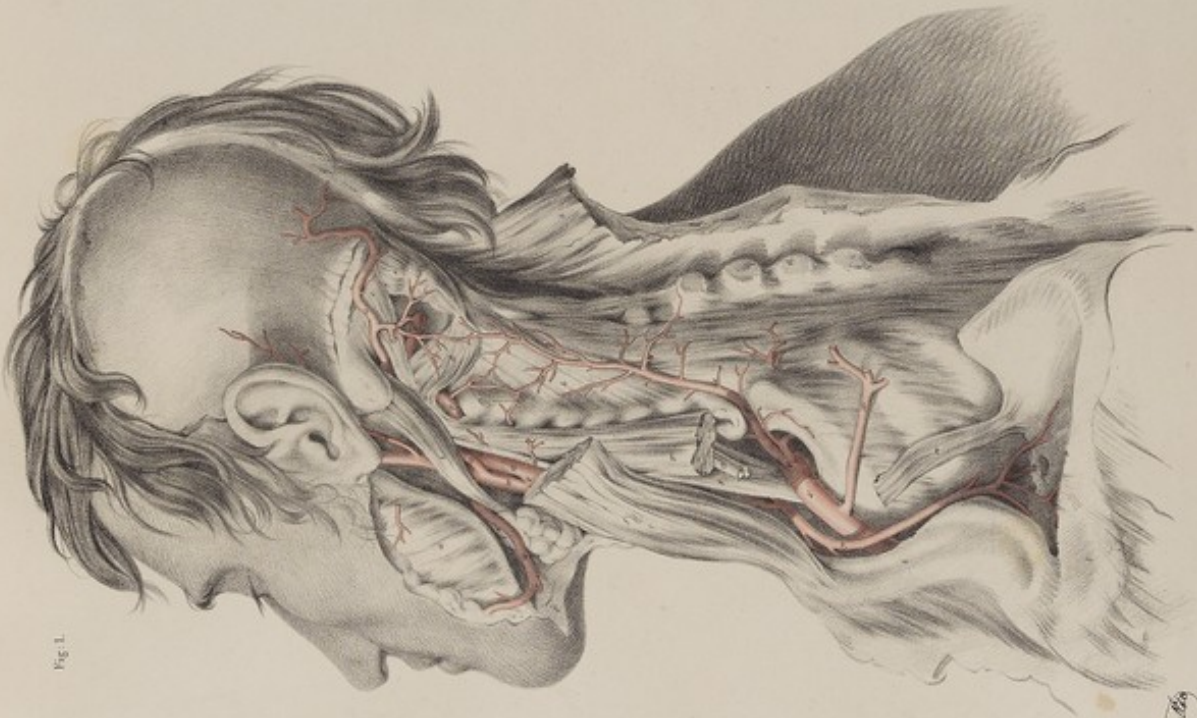
M. 11

Fig. 2.



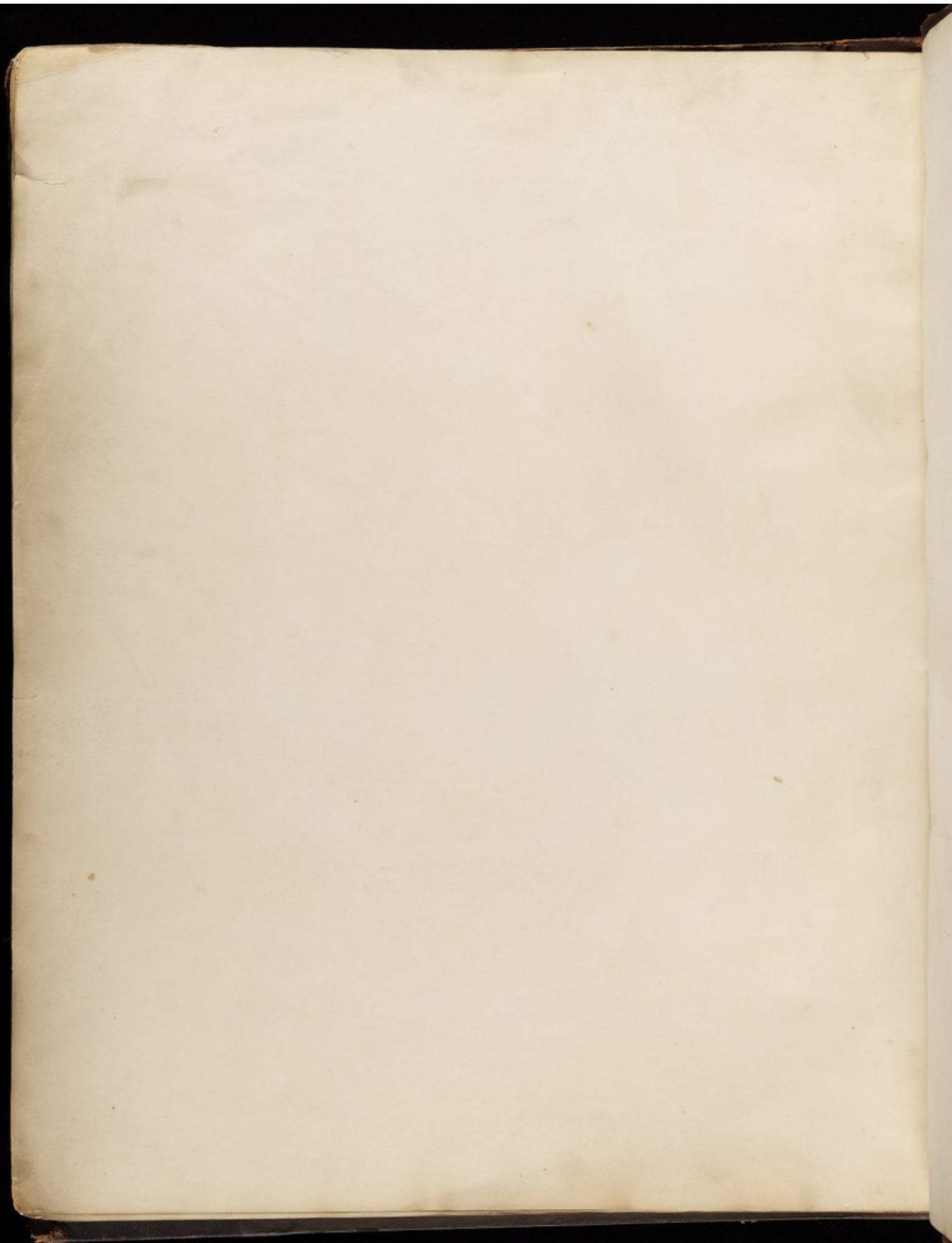
And. Jones del. Sc. An. 1825

Fig. 1.



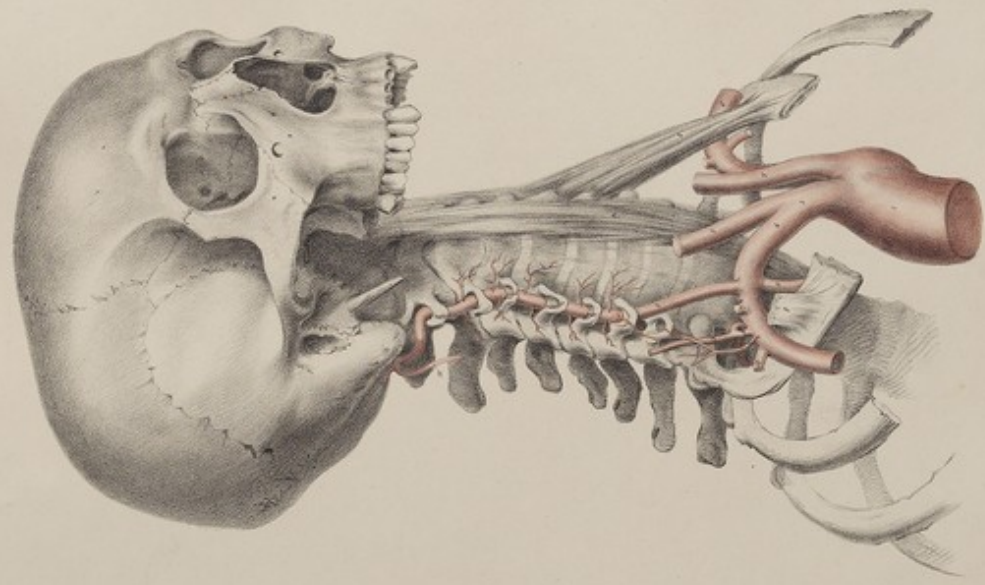
London: Taylor & Walton, 11, York Street.

J. G. S. 1825



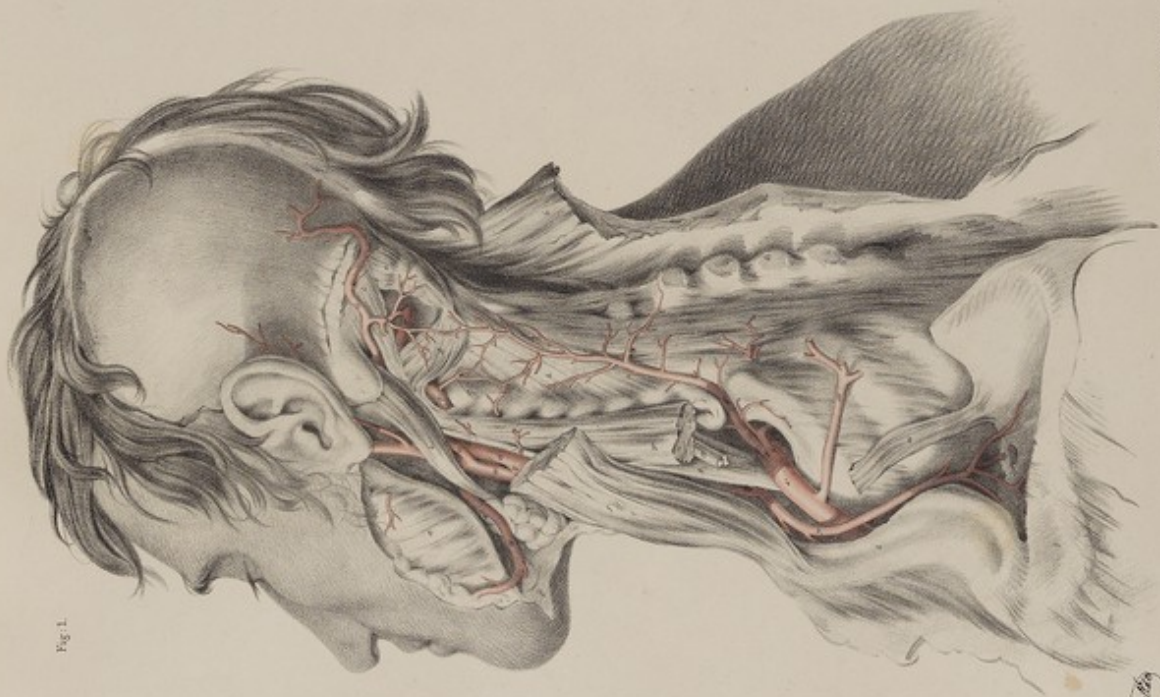
M. A.

Fig. 2.



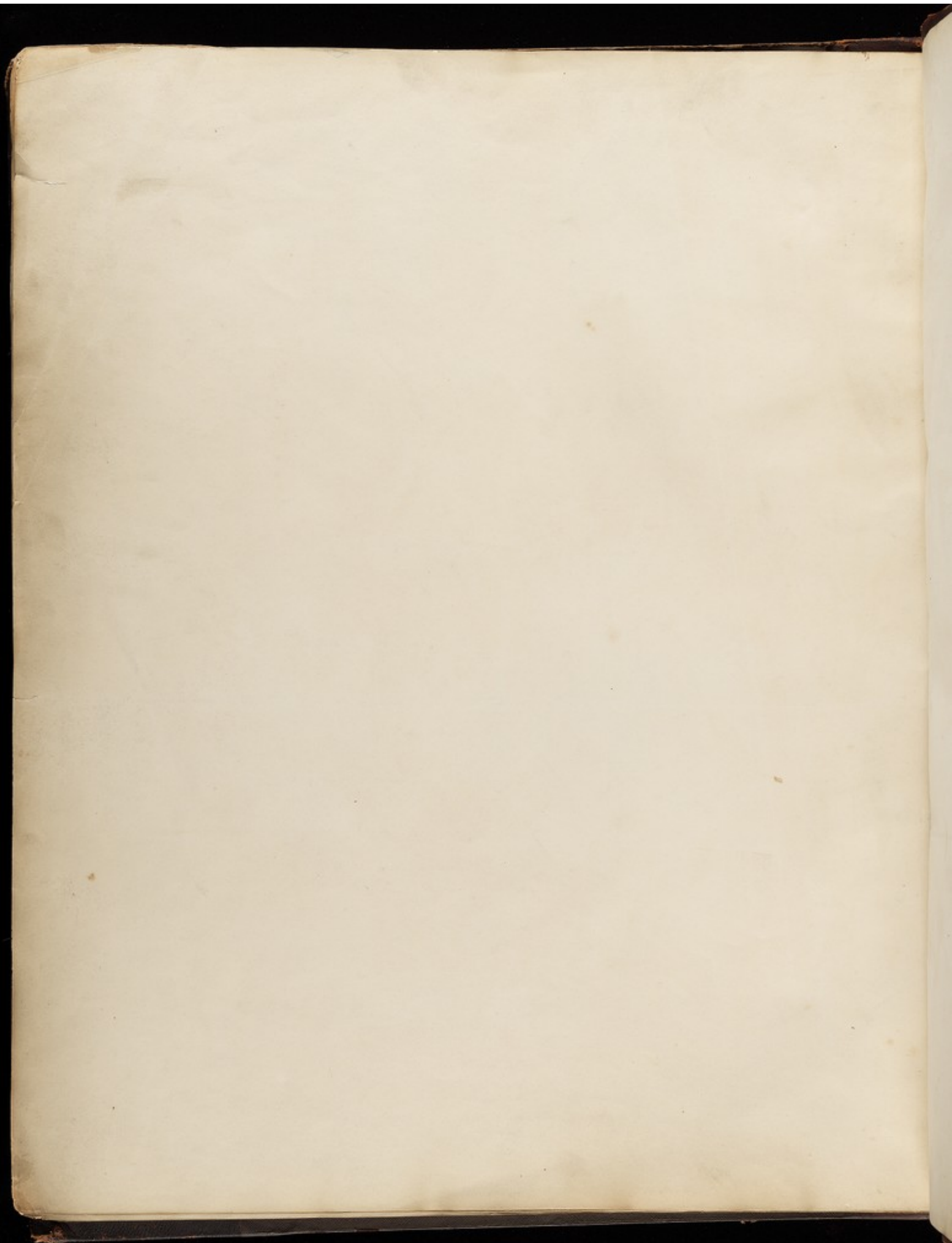
Joseph Spence sculp.

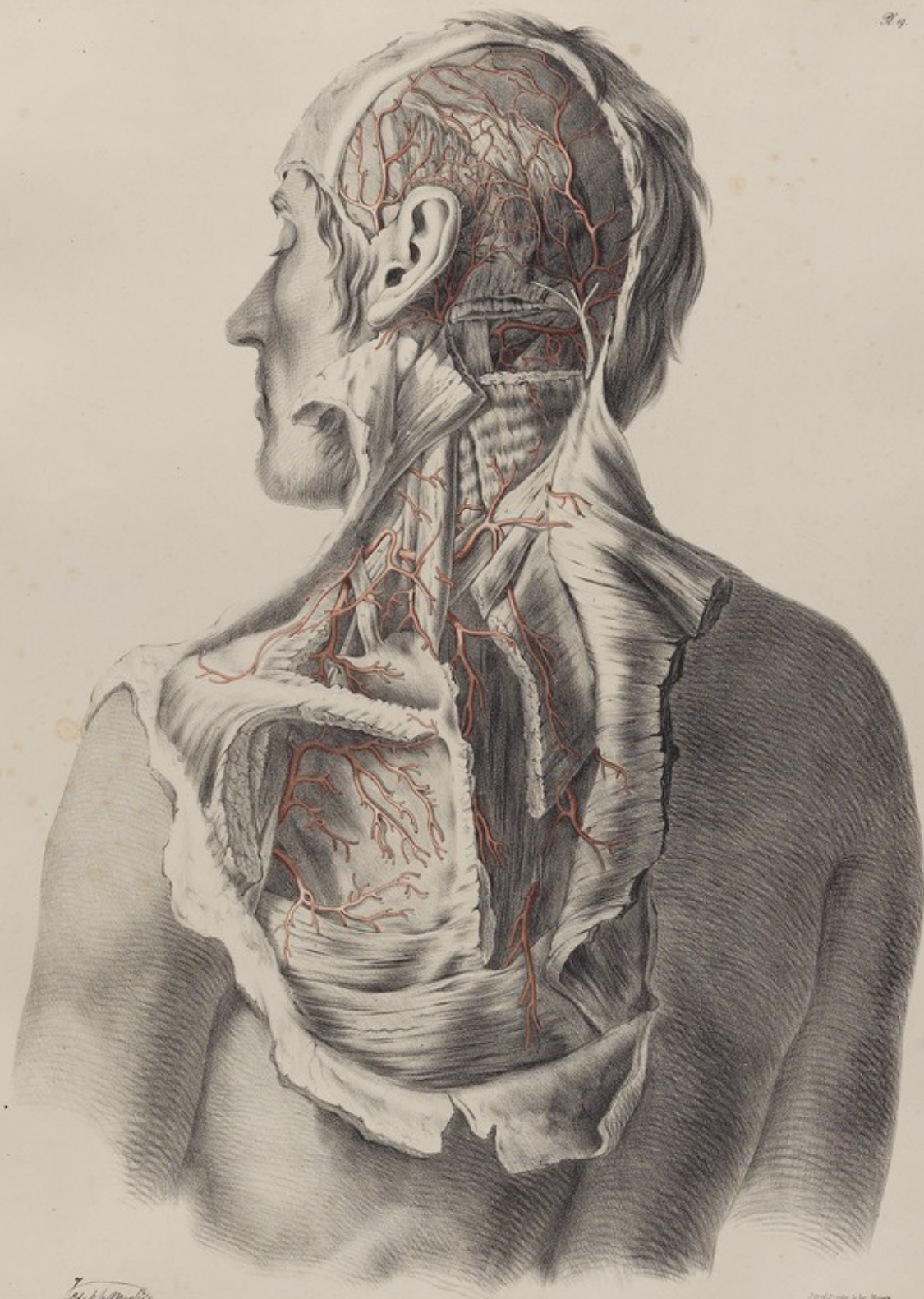
Fig. 1.



London, Taylor & Wharton, Upper Green, Street.

Joseph Spence sculp.

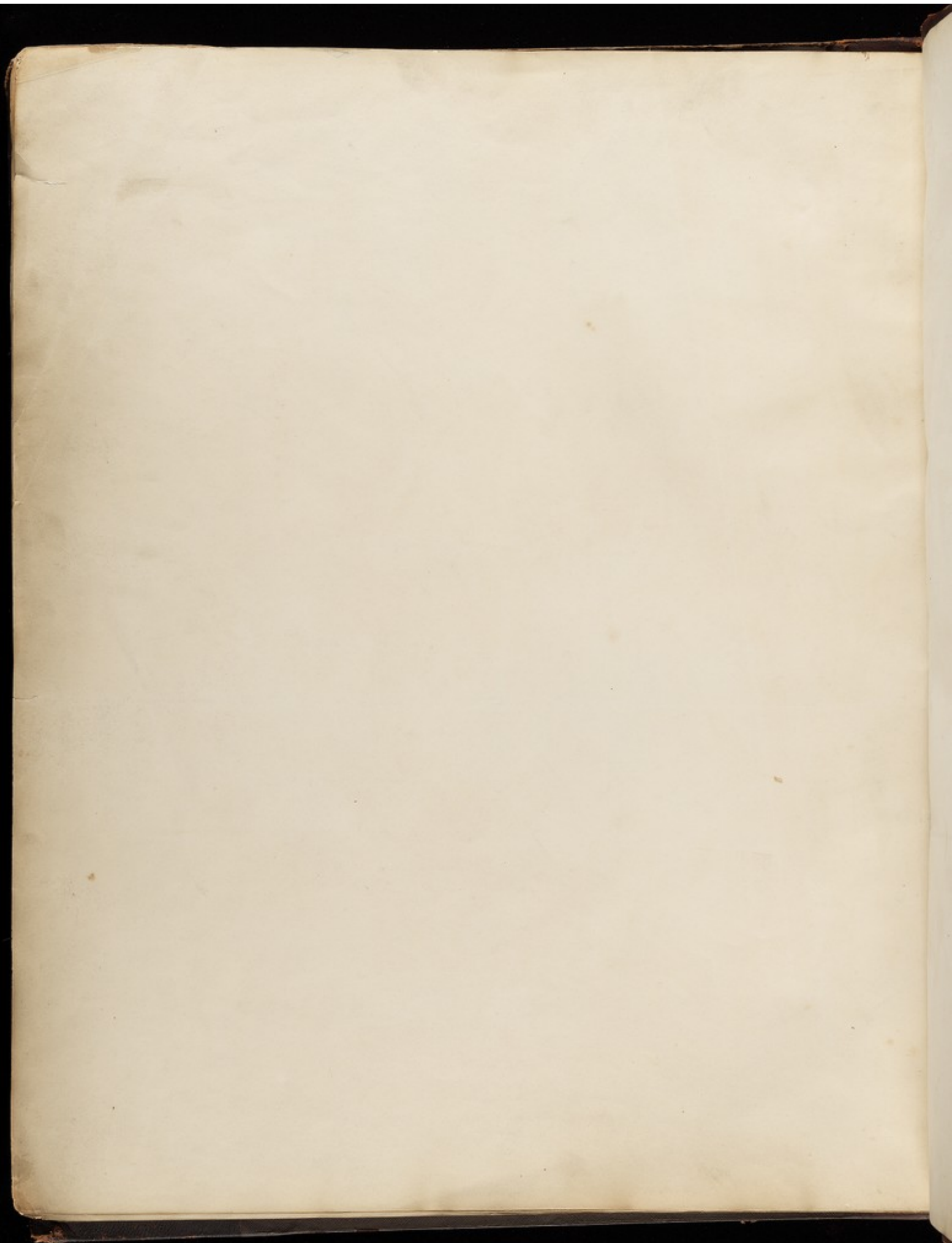


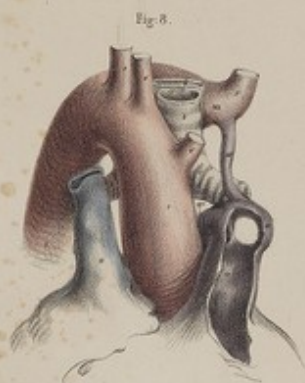
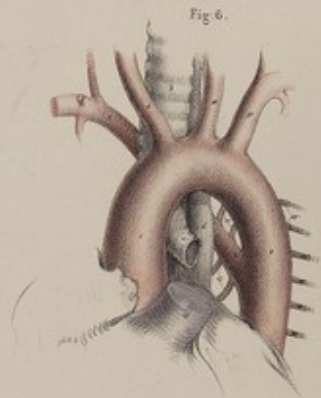
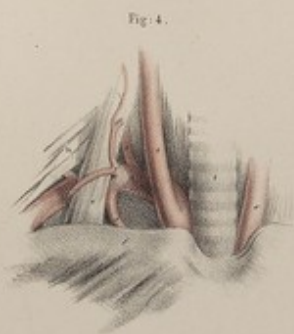


J. P. Morton sculp.

London: Taylor & Walton, Upper Gower Street.

J. G. Cooper del. in aq.





J. G. S. P. M. D.

London: Taylor & Wharton, Upper Goswell Street.

From the Anatomical Museum

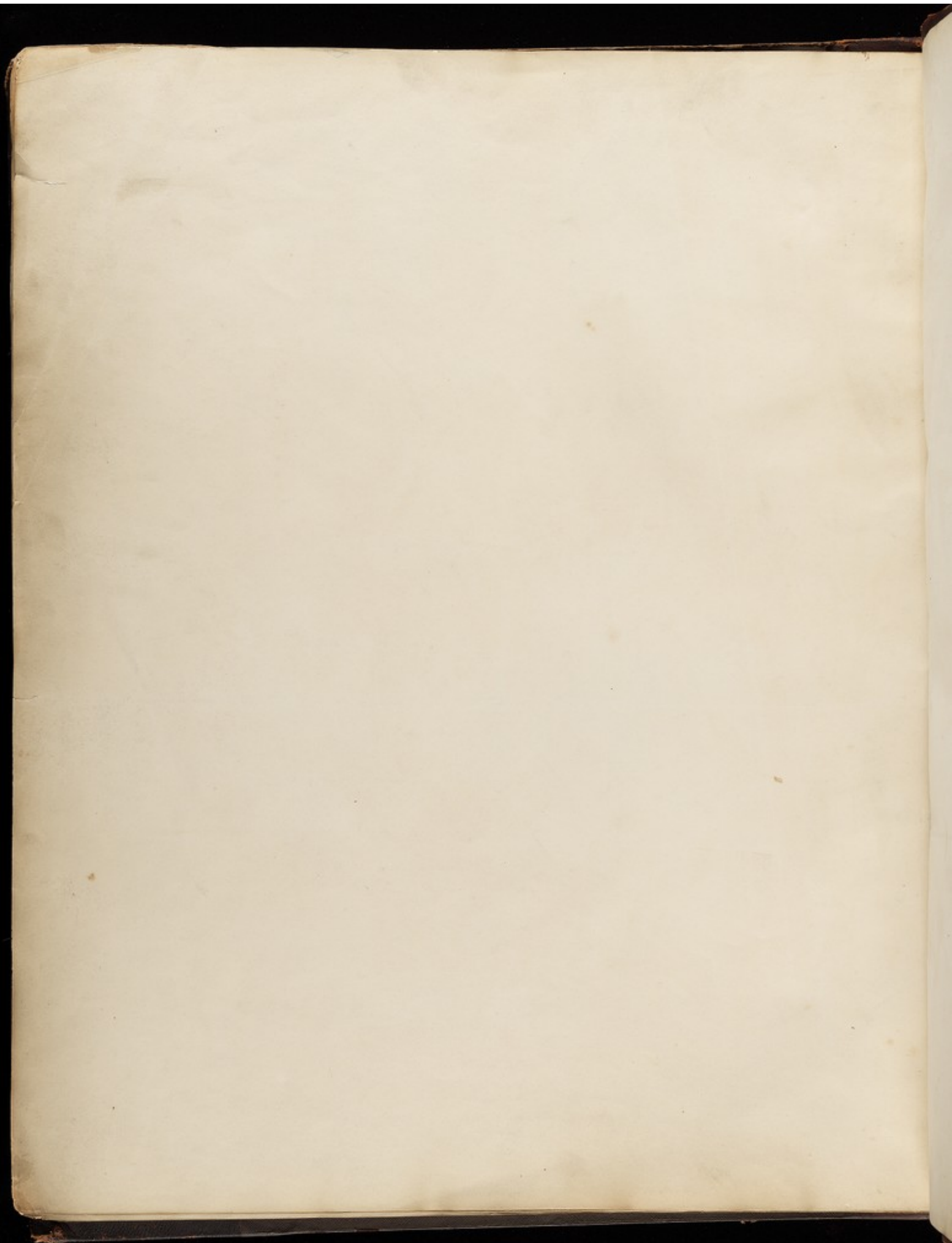




Fig. 1.



Fig. 2.



Fig. 3.

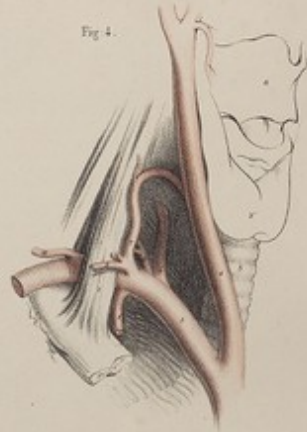


Fig. 4.

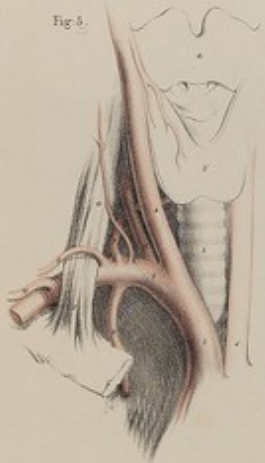


Fig. 5.



Fig. 6.



Fig. 7.

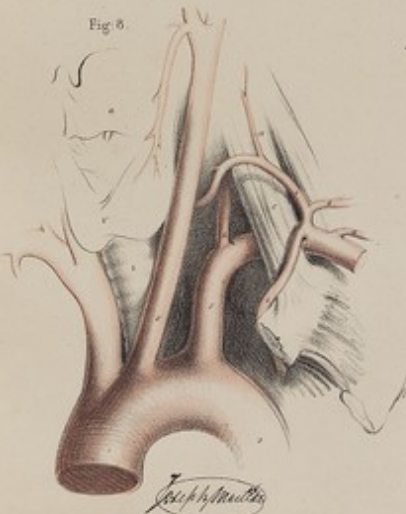


Fig. 8.



Fig. 9.

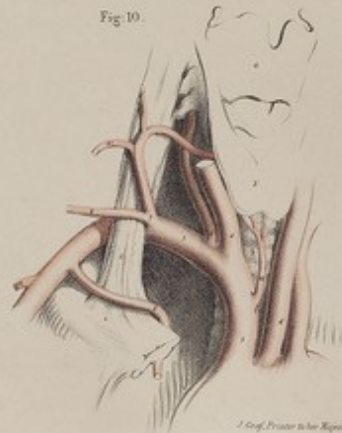


Fig. 10.

Joseph Weyland

London, Taylor & Walton, Upper Cover Street.

J. Goussier sculp.

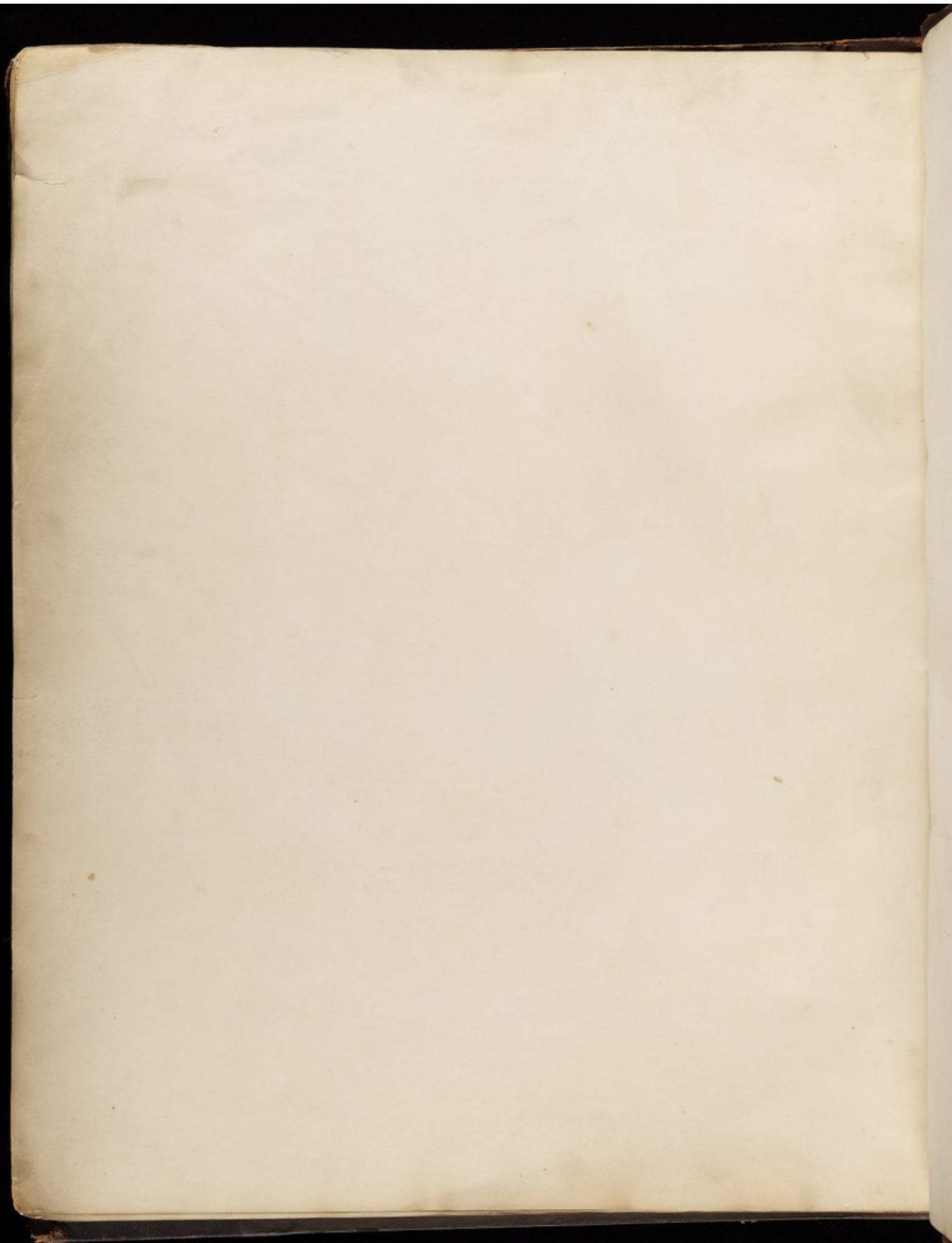


Fig. 1.

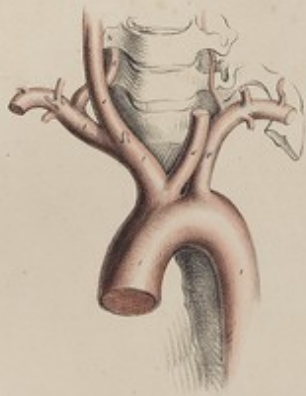


Fig. 3.

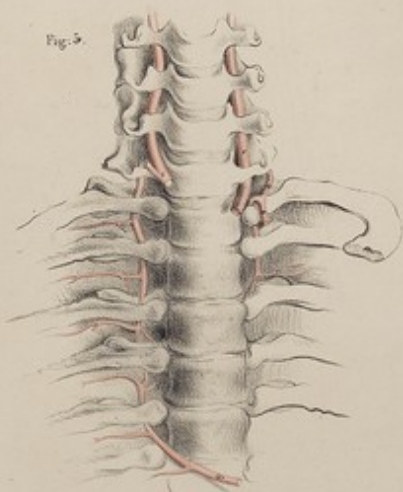


Fig. 2.

H 22



Fig. 5.



Fig. 4.

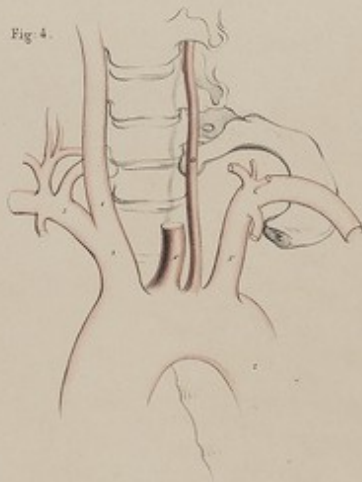


Fig. 6.

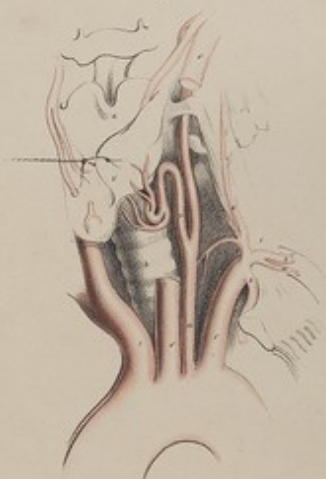


Fig. 7.



Fig. 8.

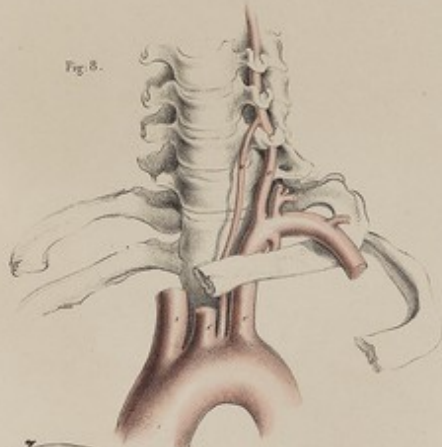


Fig. 9.

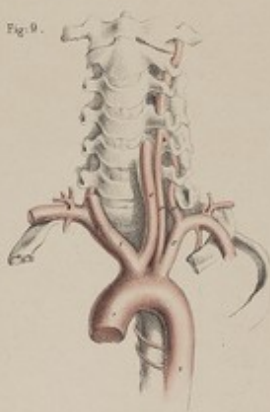


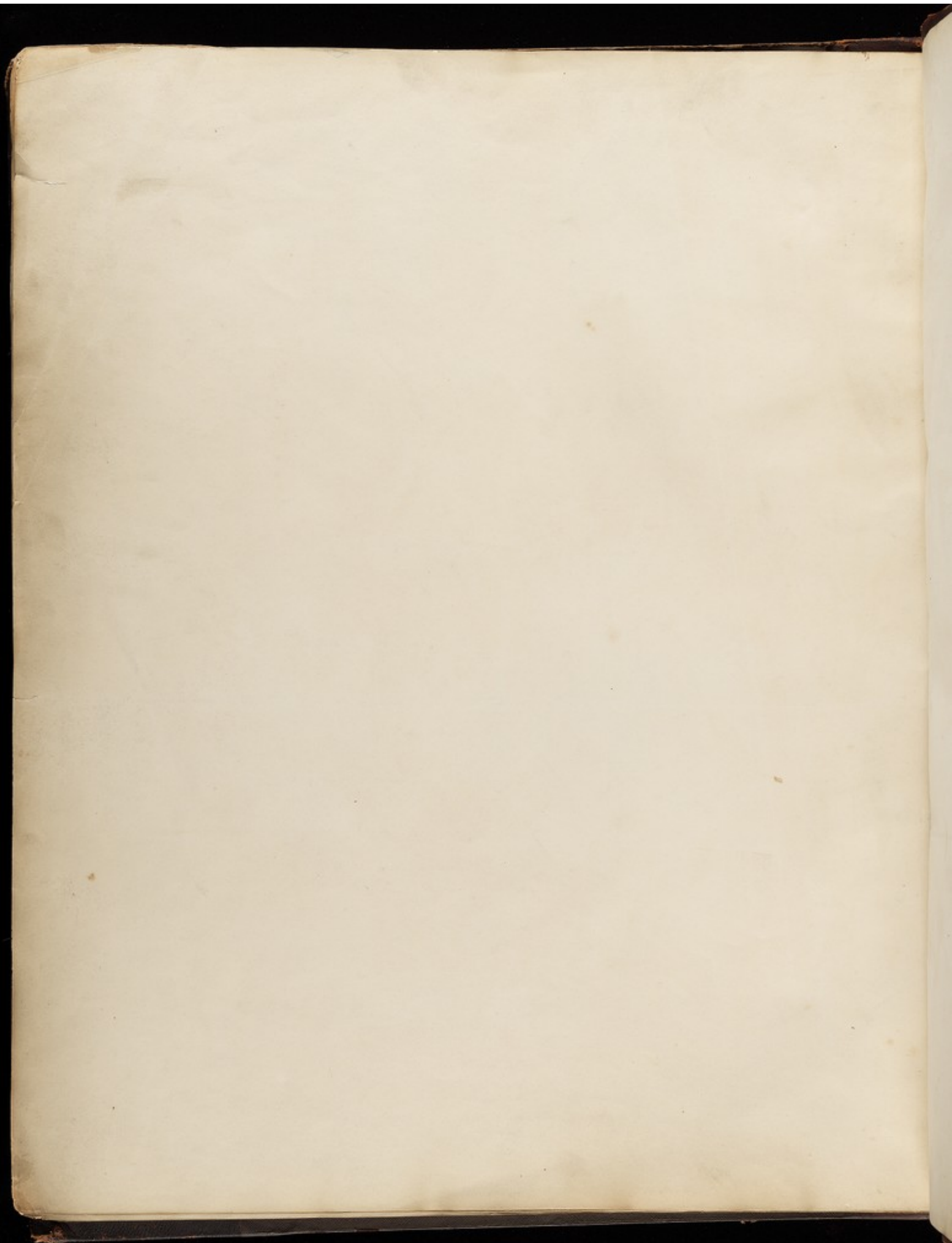
Fig. 10.

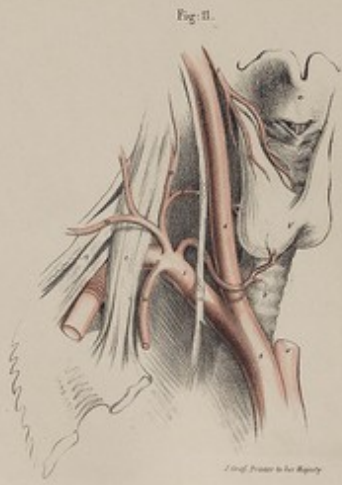
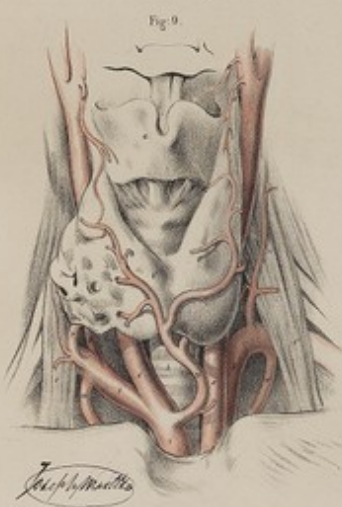


J. G. S. P. M. D.

London: Taylor & Walton, Upper Queen Street.

J. G. S. P. M. D.





Joseph W. Keble

London, Taylor & Walton, Upper Green Street.

Chief, Doctor to the Hospital

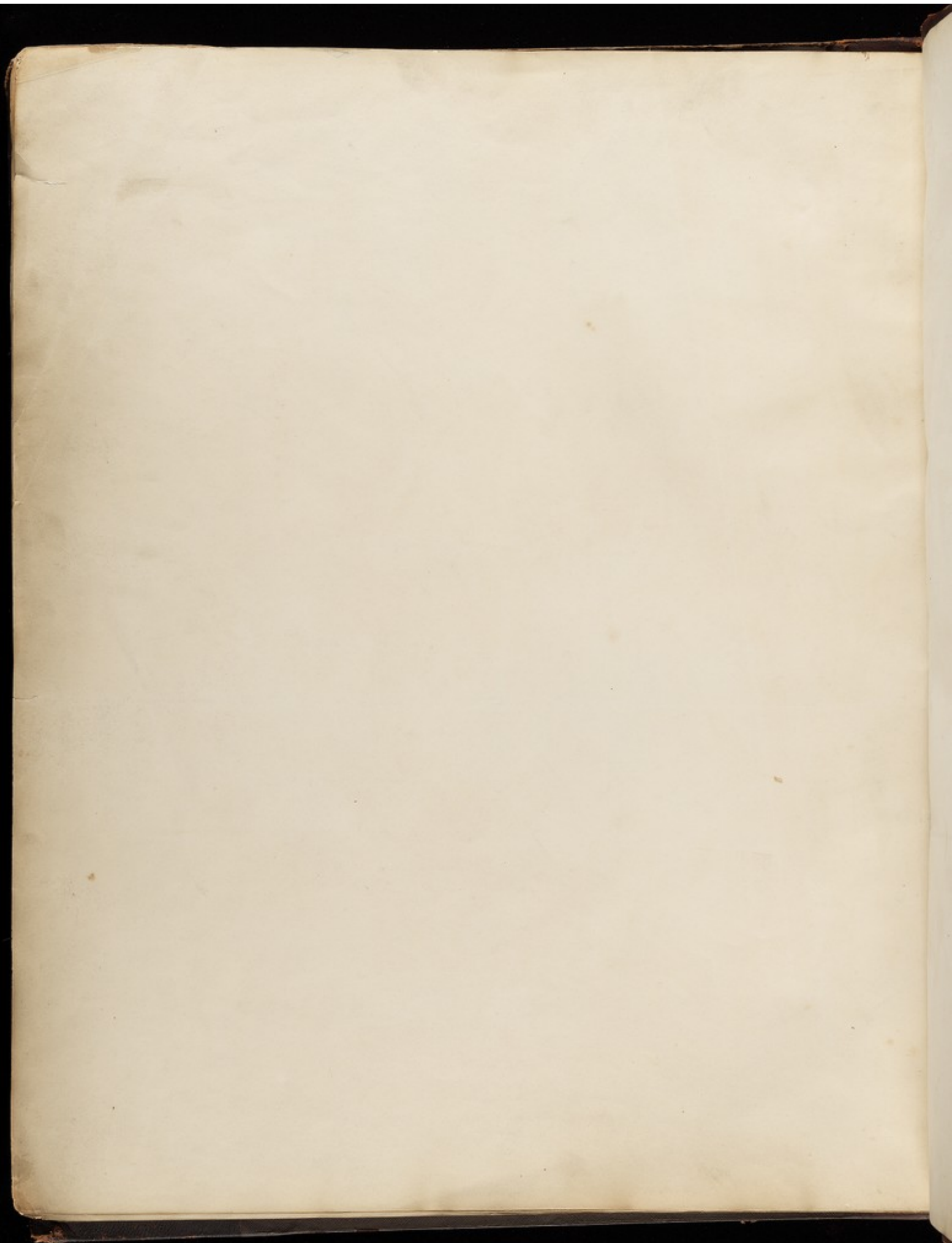




Fig. 2.



Fig. 5.

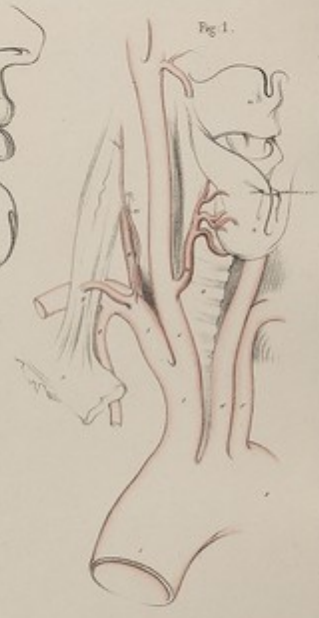


Fig. 1.



Fig. 4.



Fig. 6.



Fig. 7.



Fig. 3.

J. G. S. M. 1810

London: Taylor & Walton, Upper Ground Street.

J. G. S. M. 1810

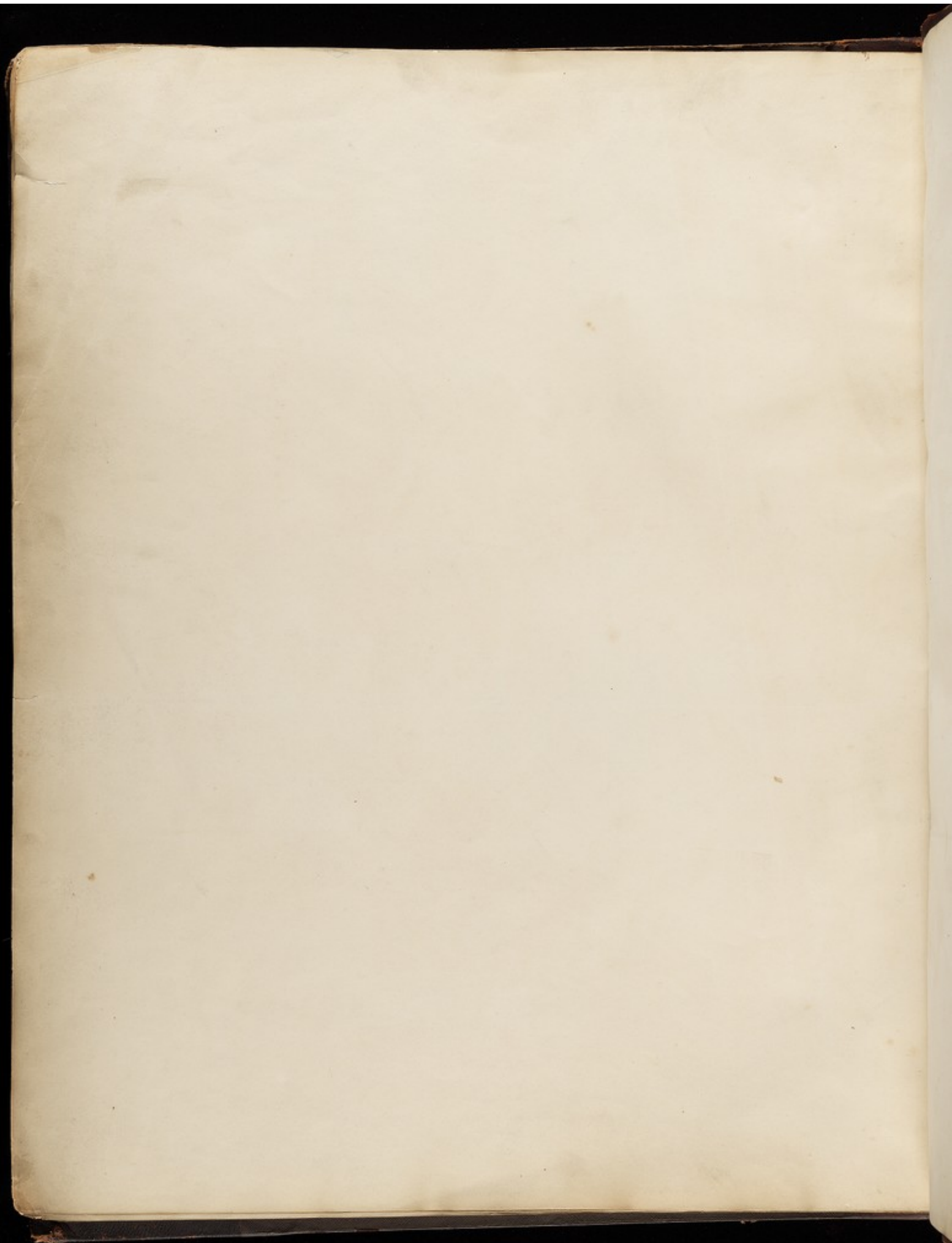


Fig. 1.

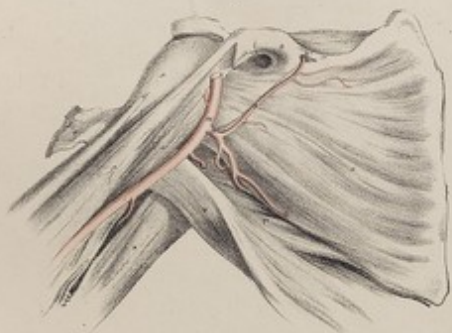


Fig. 2.



Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.



Fig. 8.



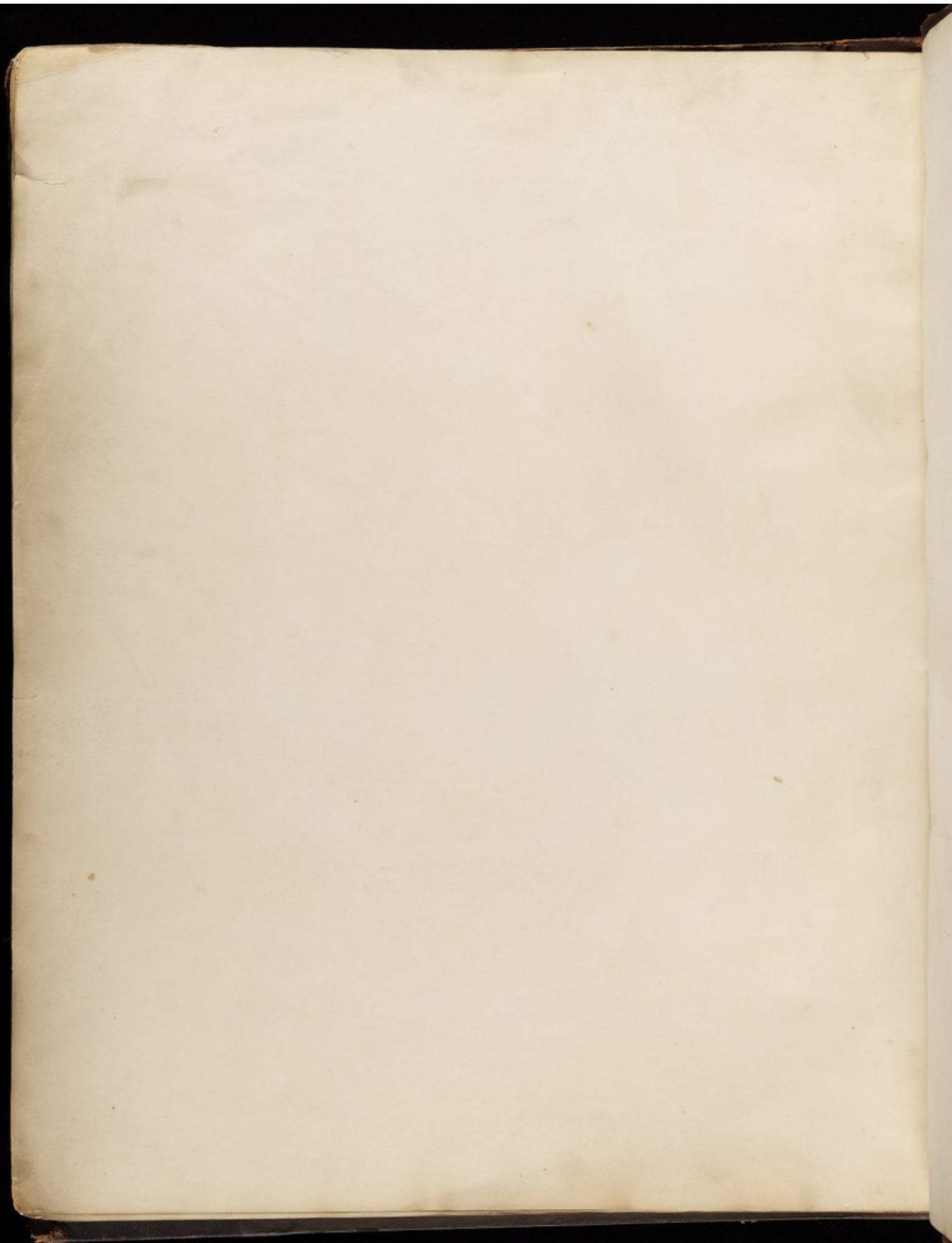
Fig. 9.



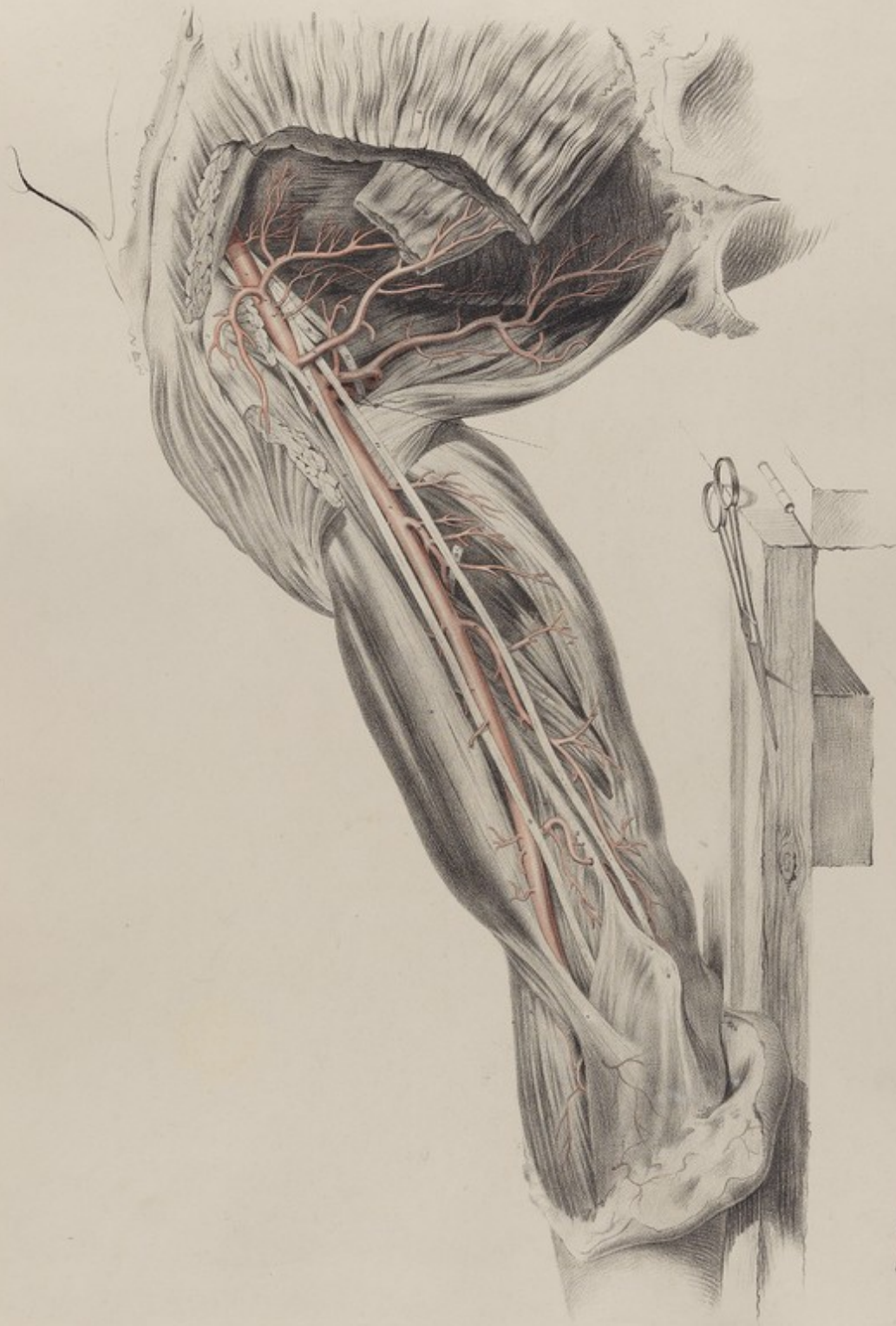
Joseph Smith

London, Taylor & Walton, Esqrs. Copper-Plate.

J. Great Printer to her Majesty.



M. 26



J. Wandelaar del. & sculp.

London: Taylor & Wharton, Typog. & Sculp. 1788.

J. Wandelaar del. & sculp.

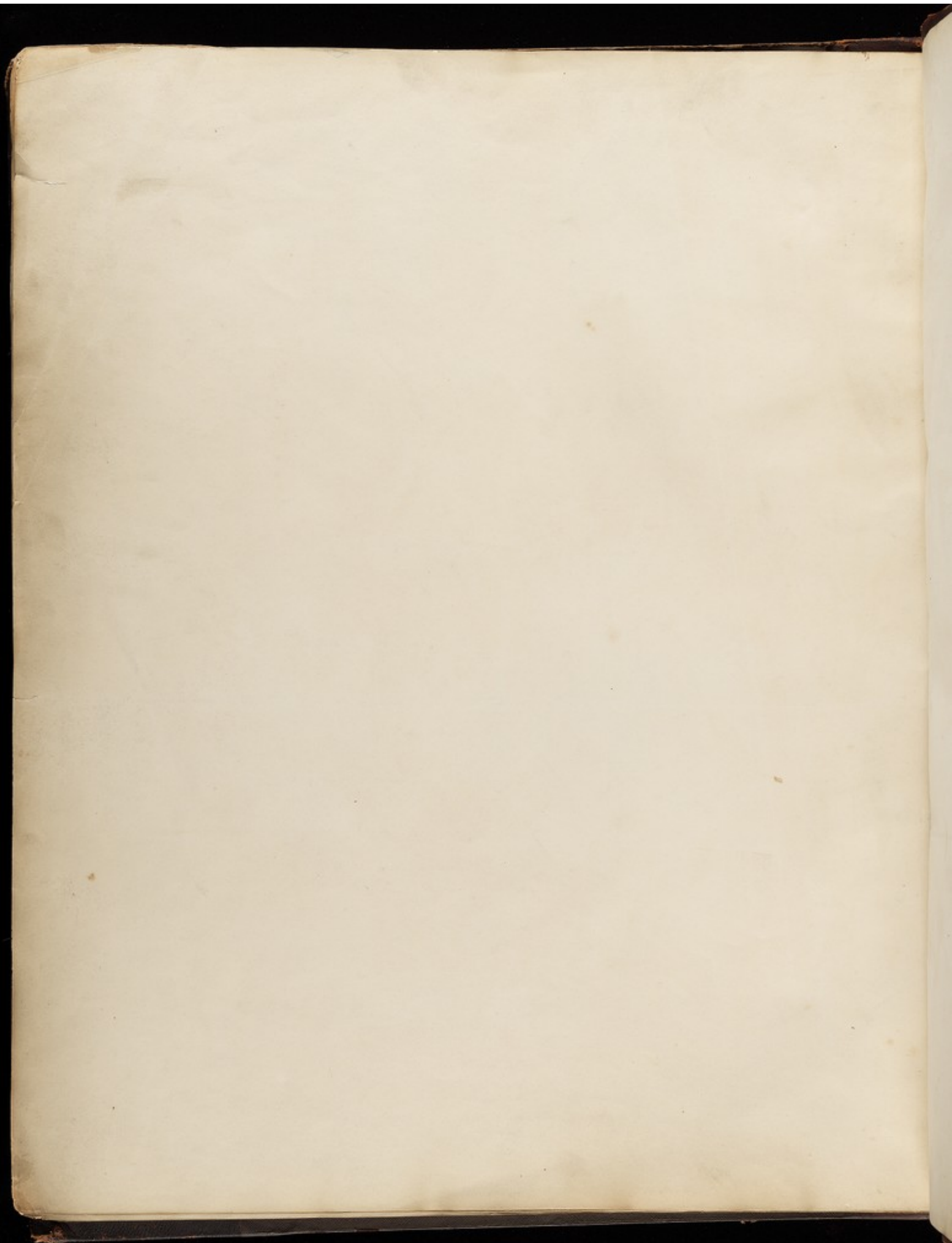
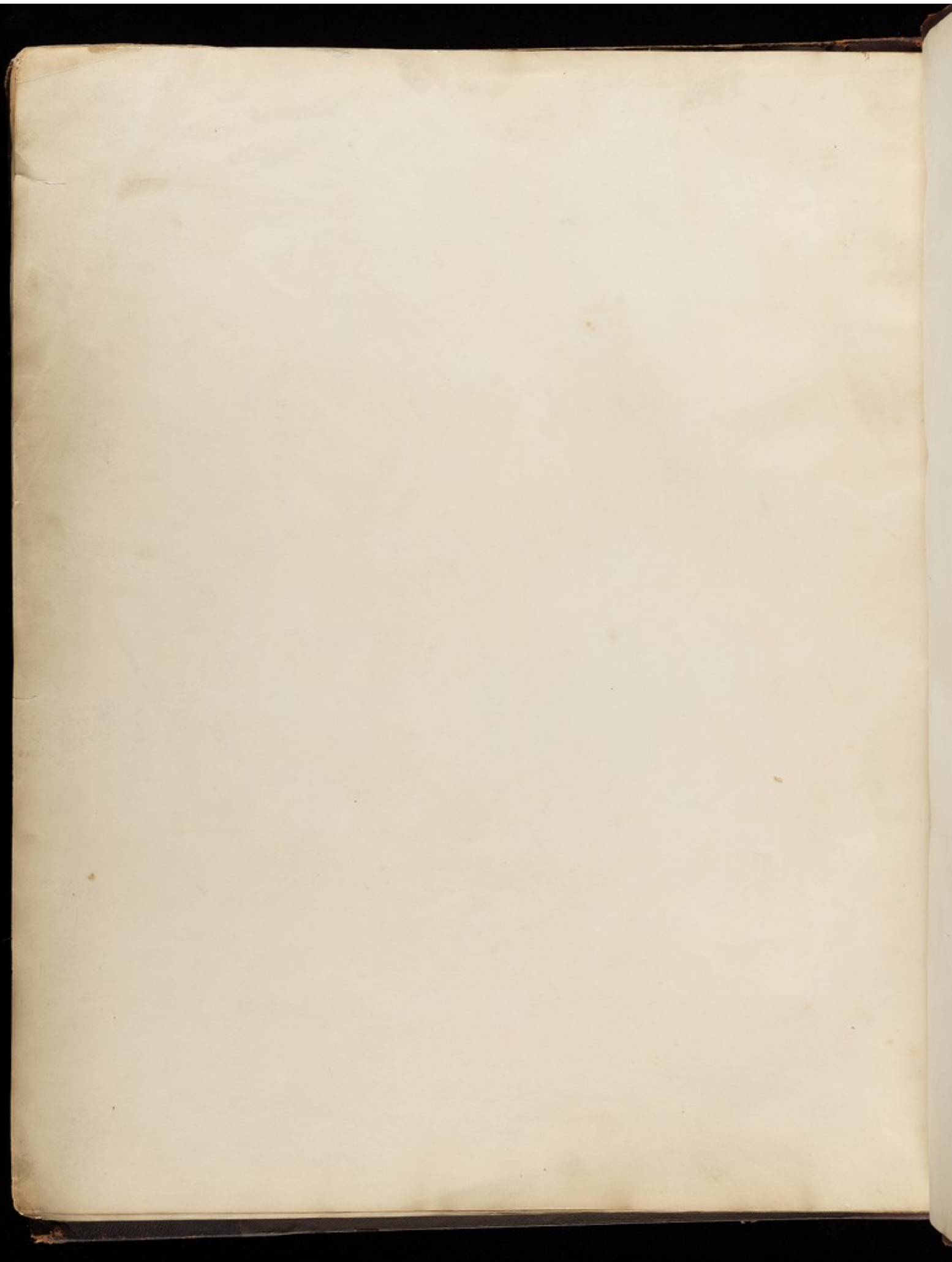


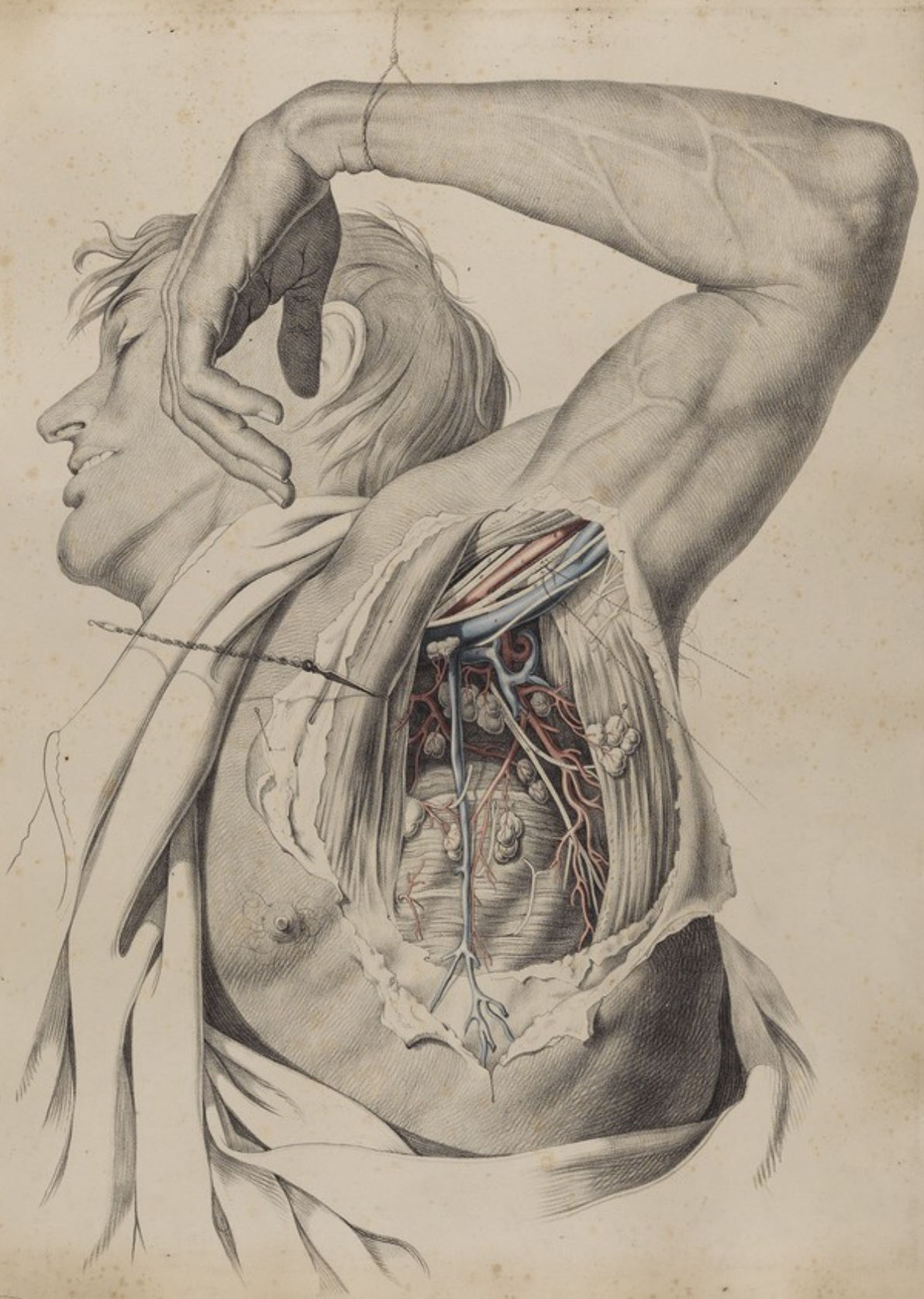


Fig. 1. Arteria in the Arm.

London: Taylor & Walton, Upper Queen Street.

J. G. Kneller del.





Joseph Beucler

London: Taylor & Walton, Upper Gower Street.

Printed by C. Smith

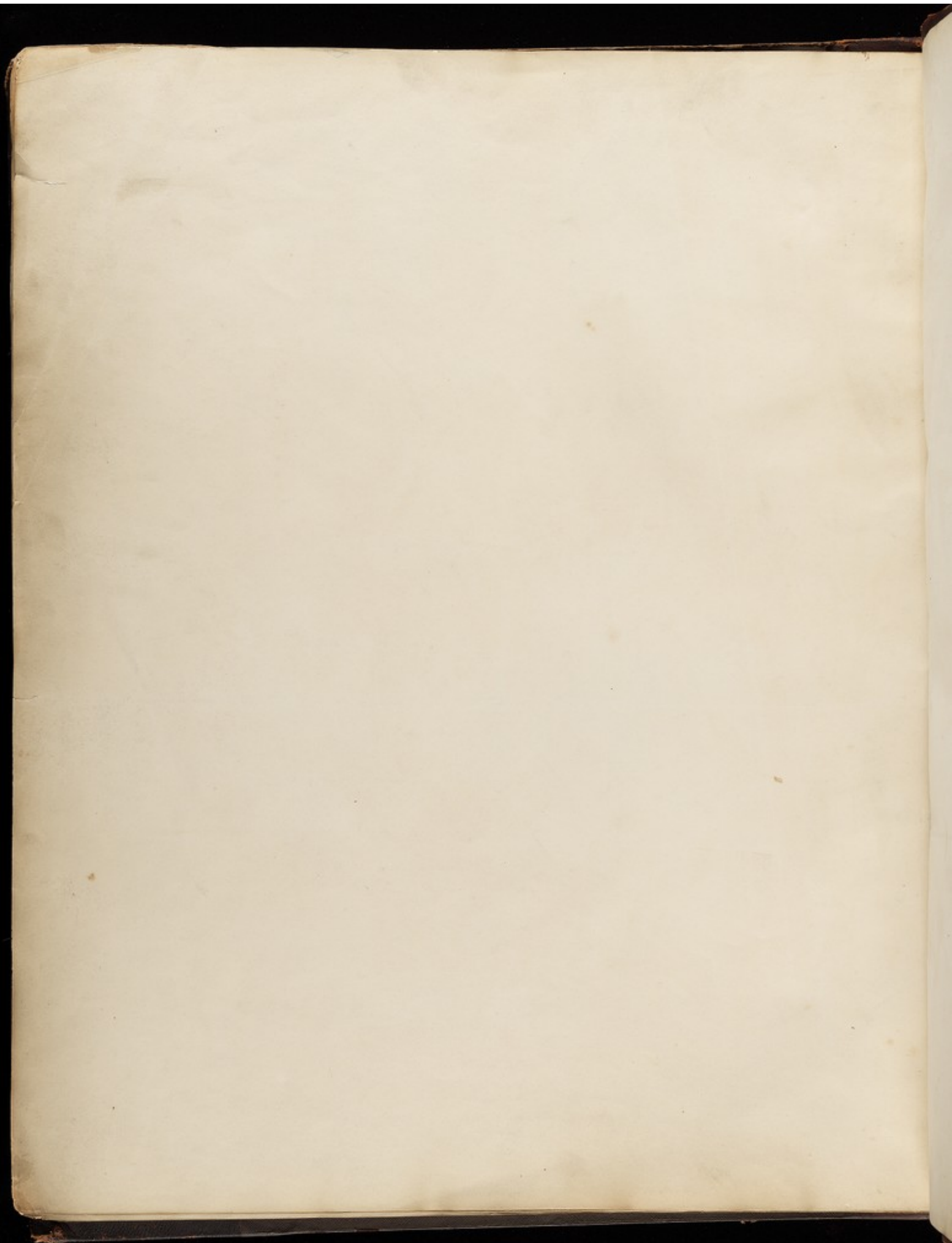
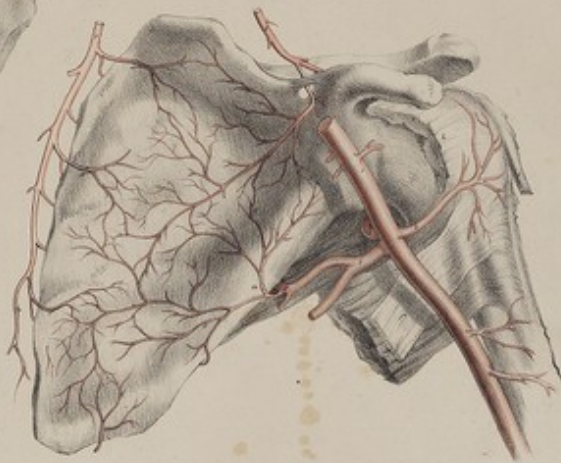


Fig. 1.

Pl. 29



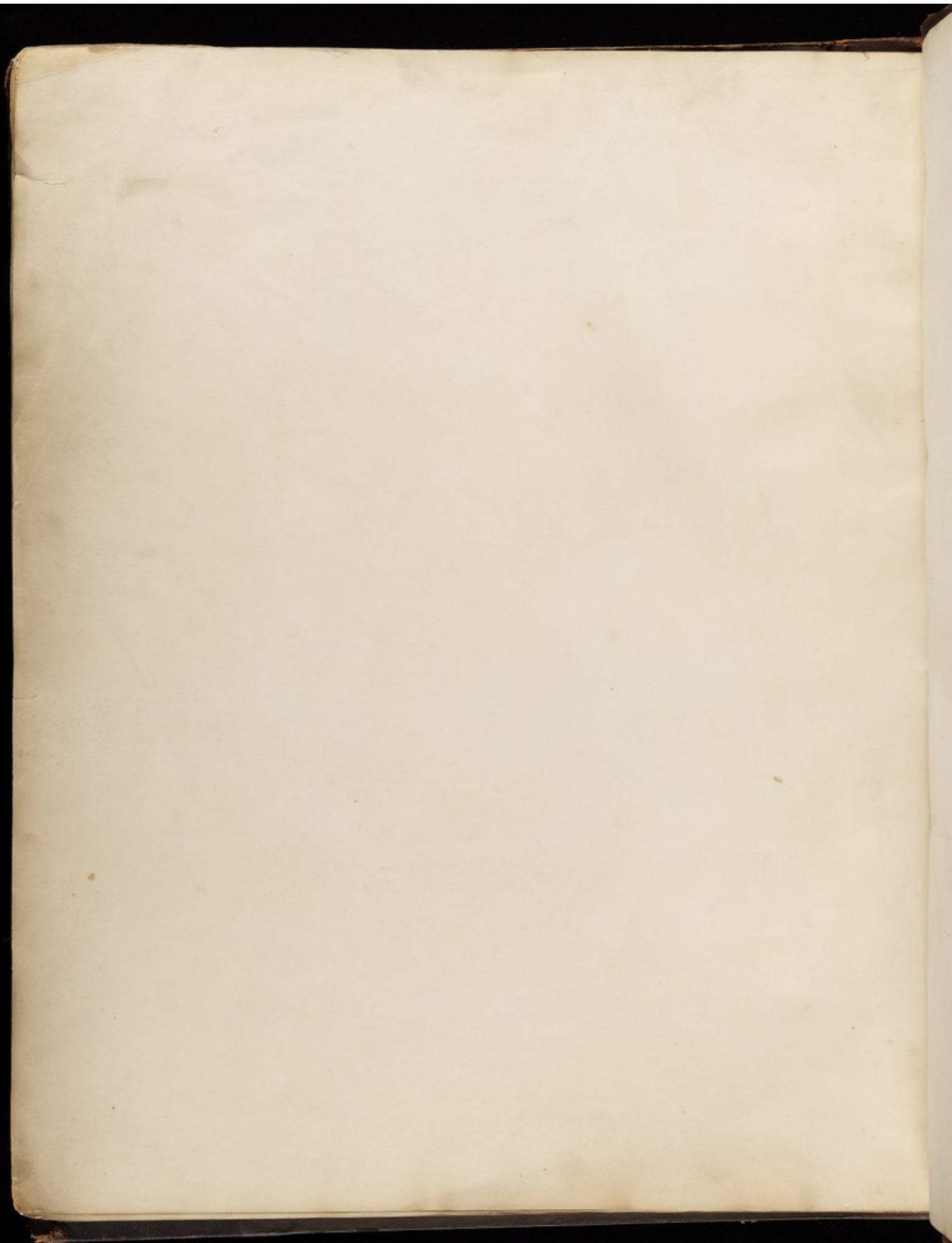
Fig. 2.



Joseph Mallon

London, Taylor & Welford, Upper Great Street

J. Long, Printer to the Society



M. 207

Fig. 5.



Fig. 1.

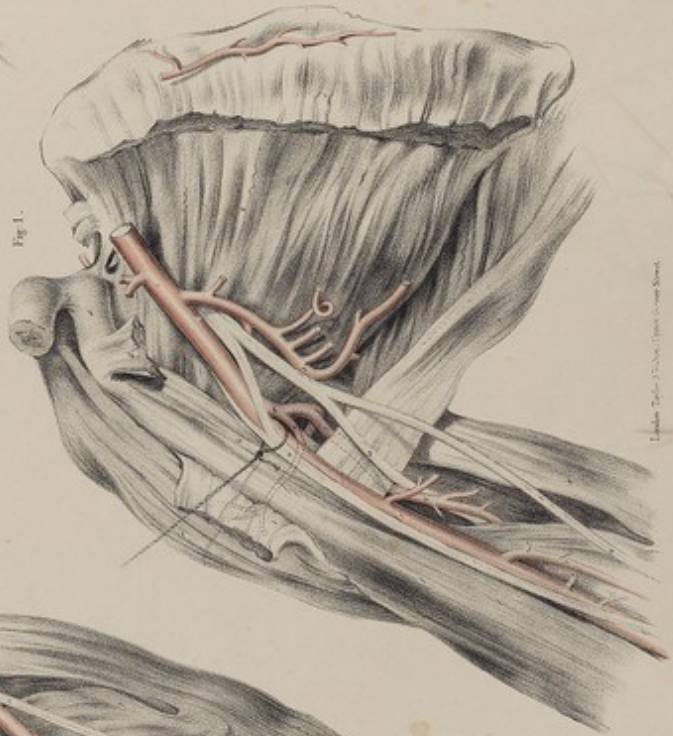
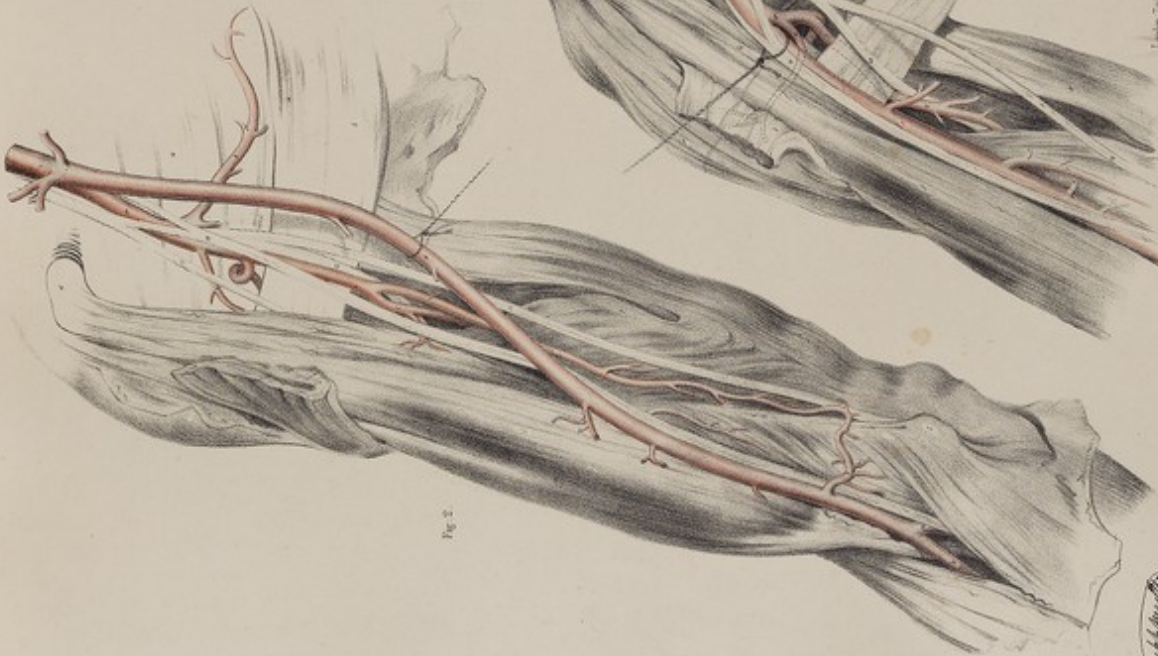
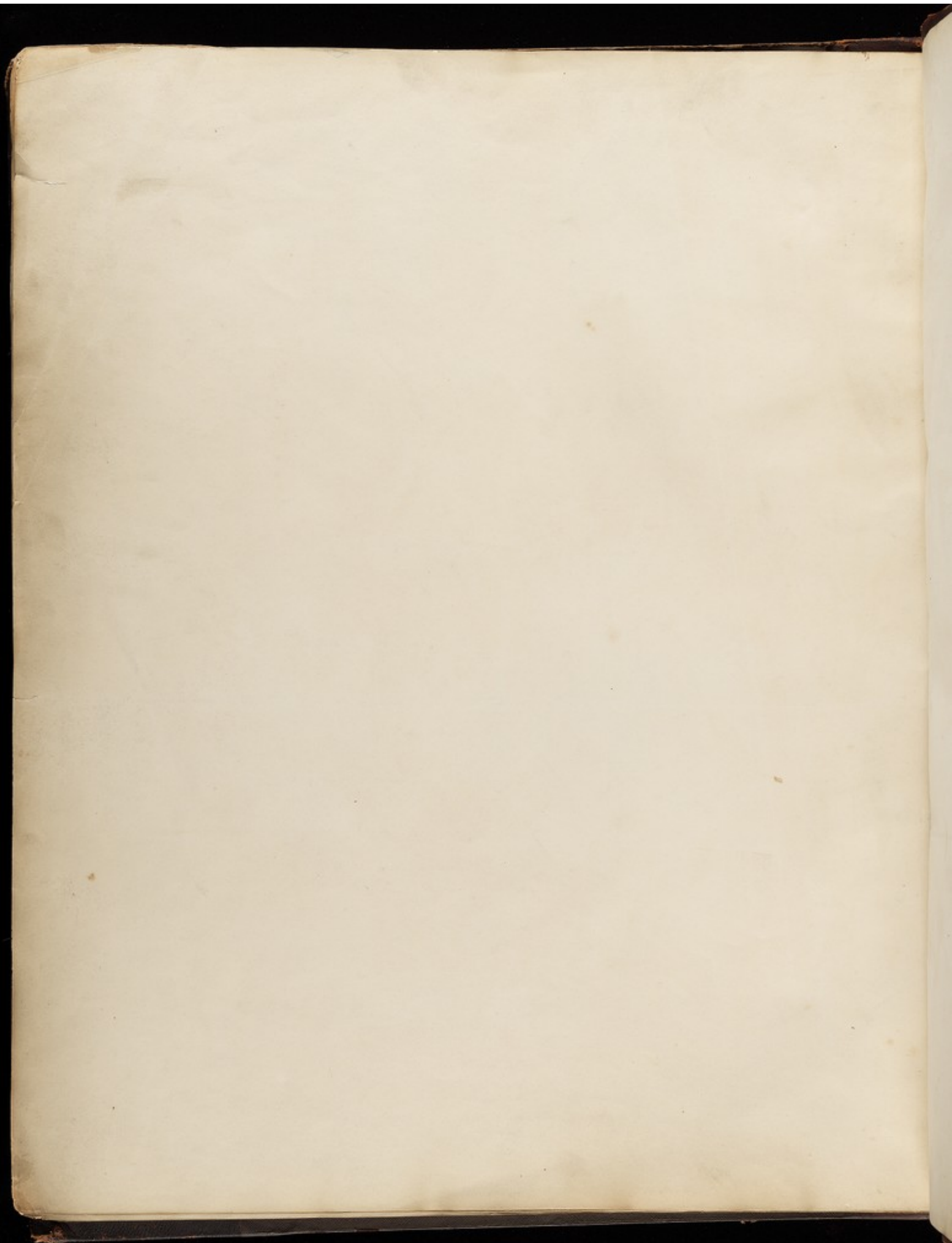


Fig. 2.



W. H. Whistler

L. B. Taylor del. J. C. Cooper sculp.



Pl. III.

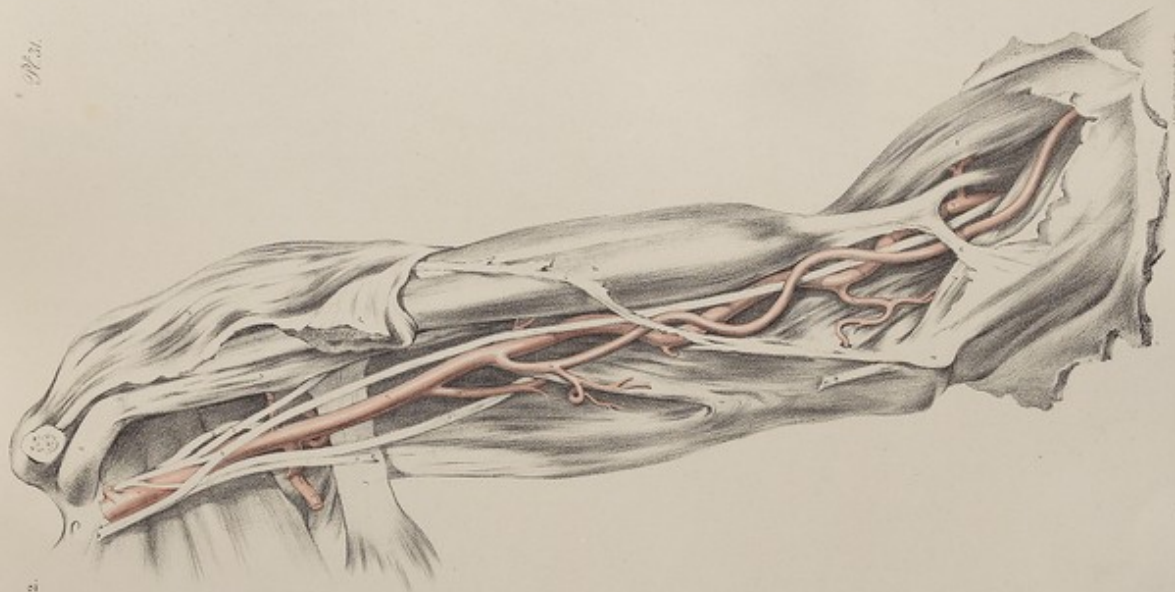
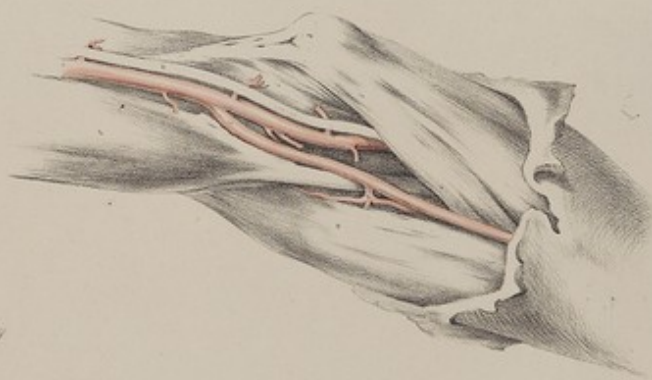


Fig. 2.

Fig. 2.



London, Taylor & Wharton, 1794.

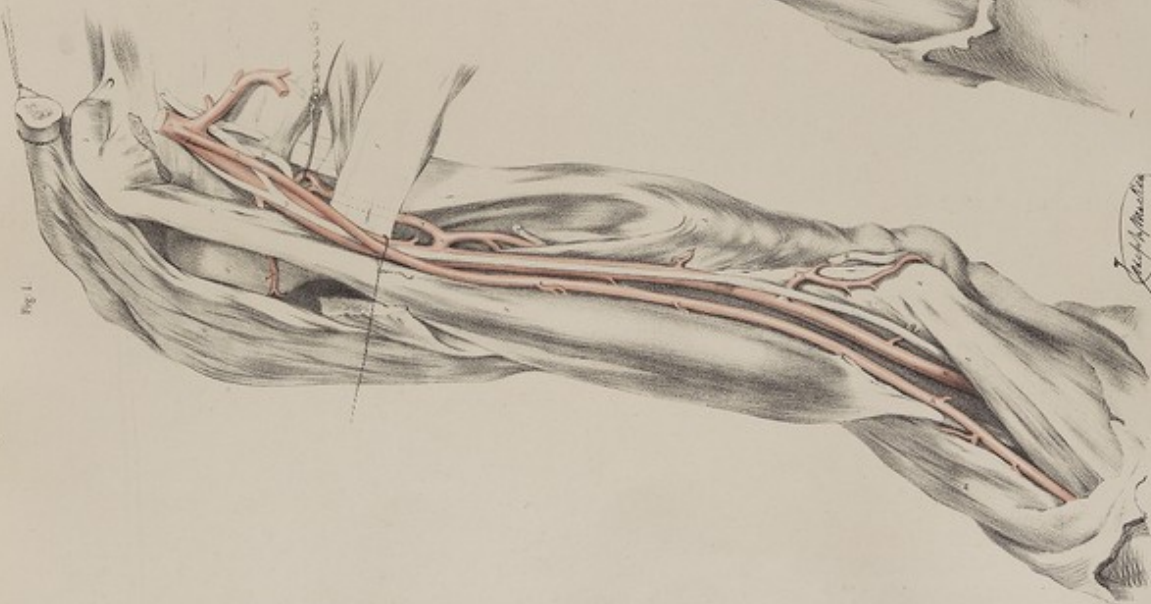
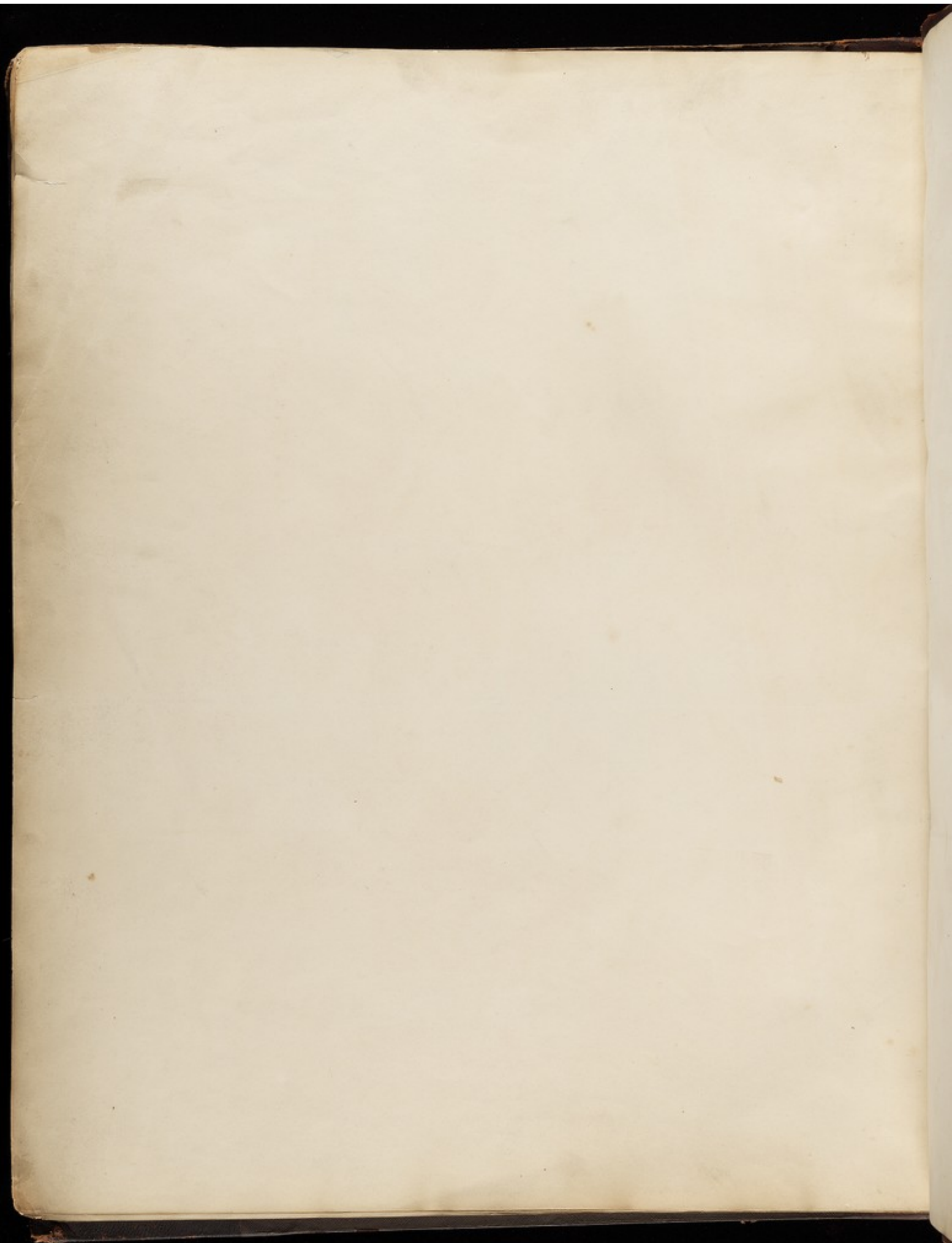


Fig. 1.

J. Wandelaar del.



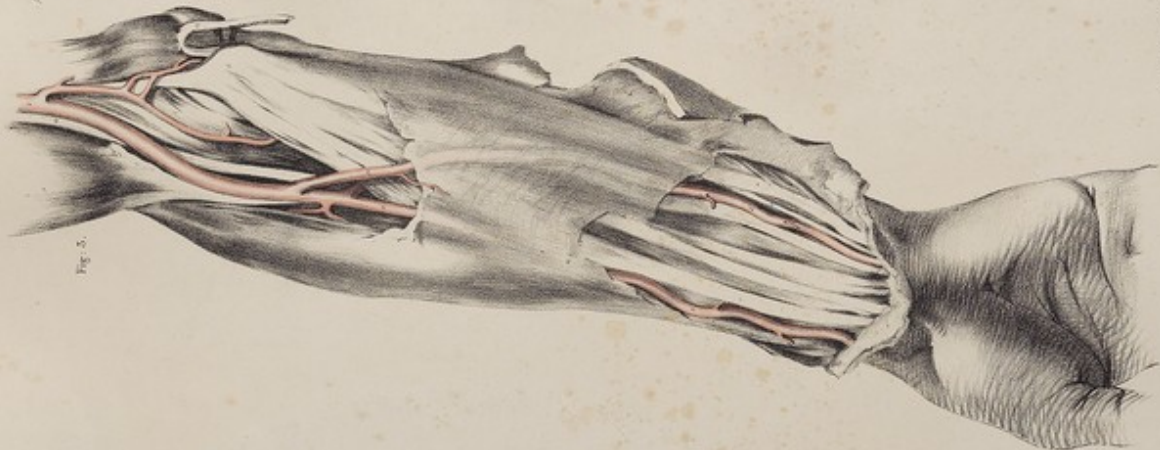


Fig. 5.

Long Process of the Acromion

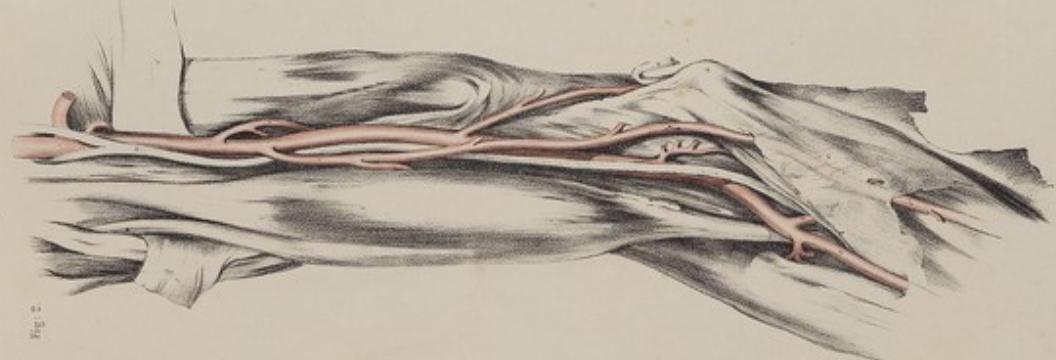


Fig. 2.

End of the Deltoid & Muscles, Upper Course of Vein

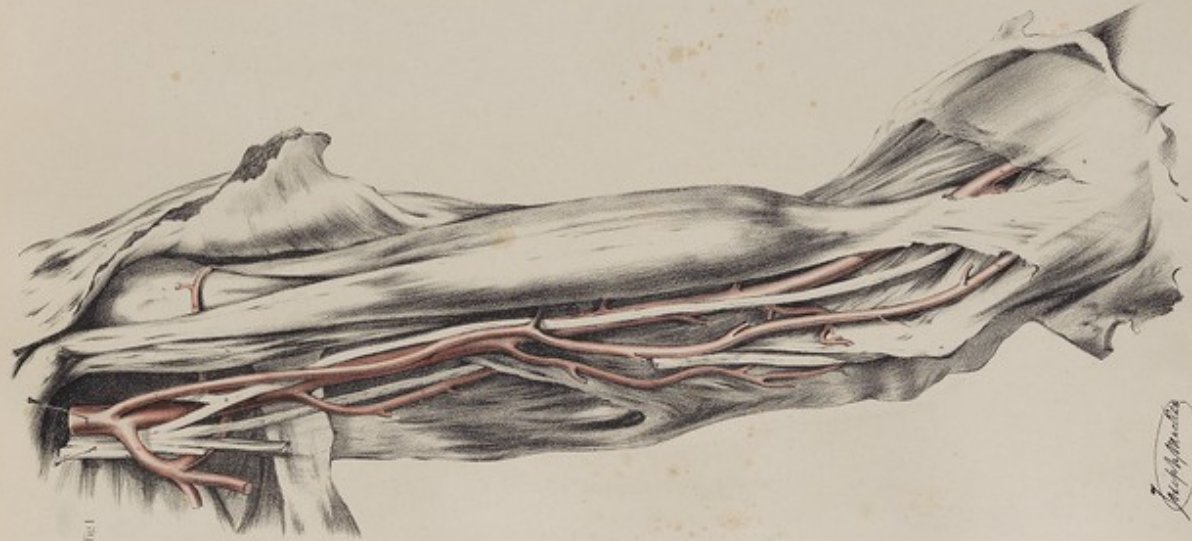
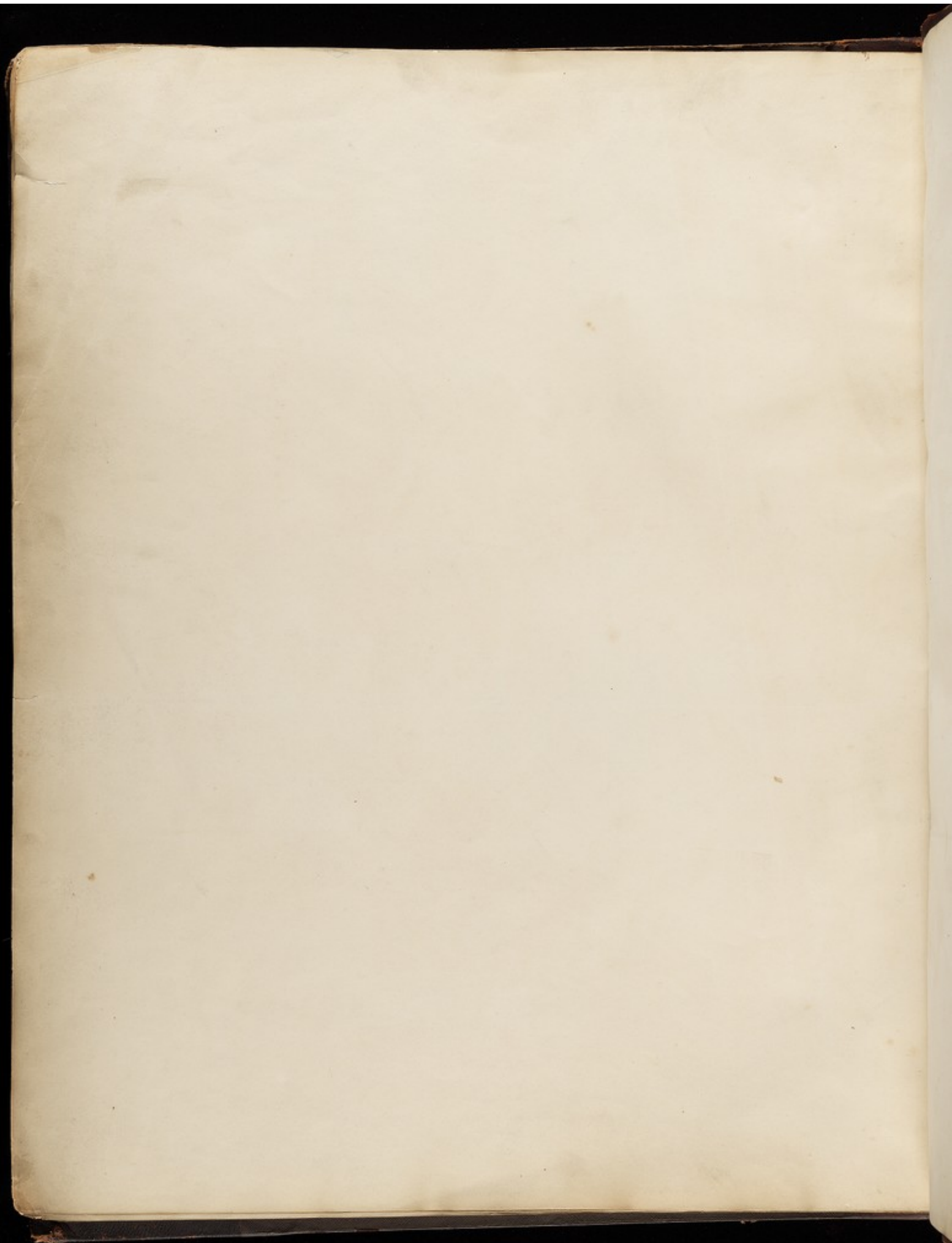


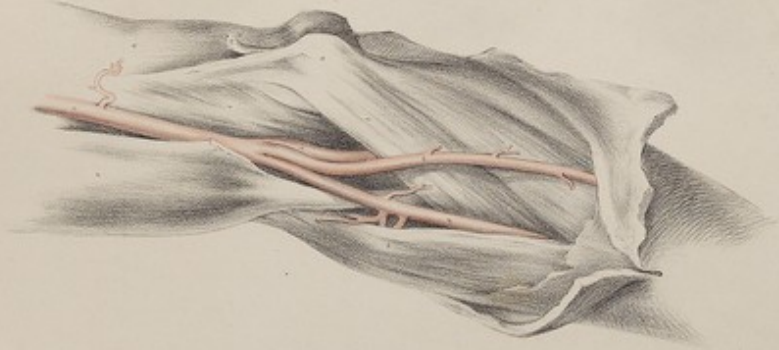
Fig. 1.

J. G. Cooper del.



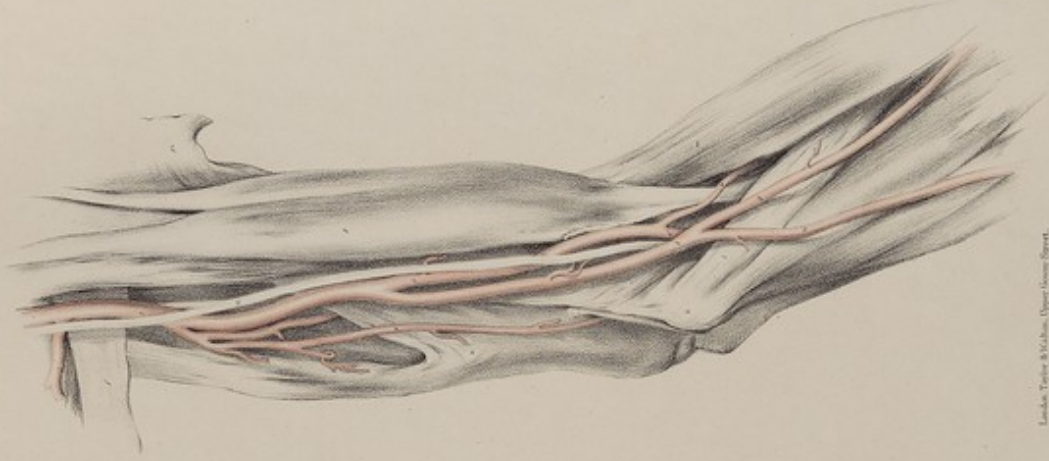
174. 22

Fig. 5.



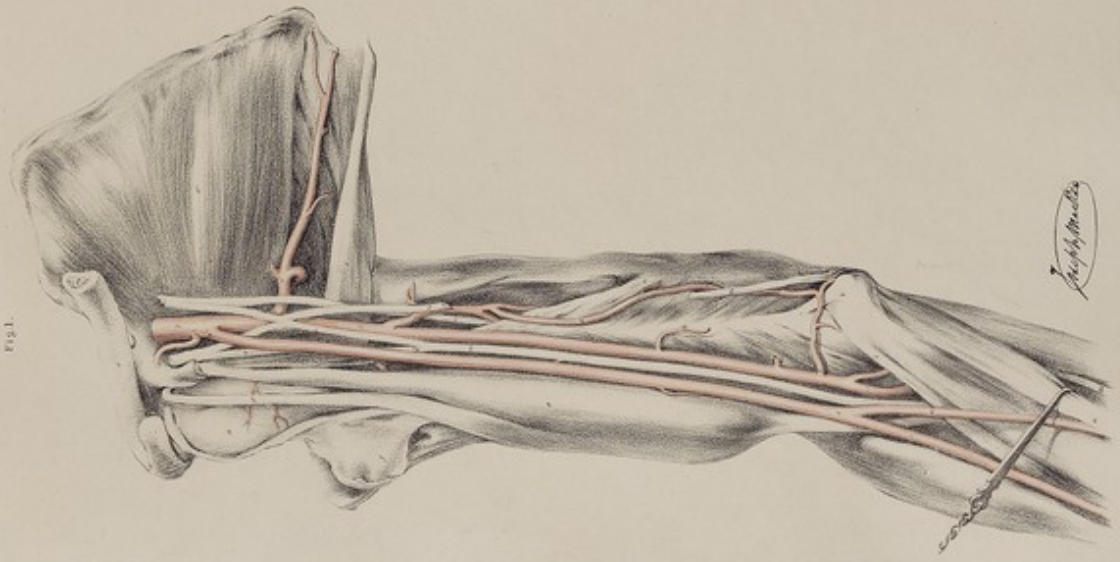
Wm. Jones sculp.

Fig. 2.



London, Taylor & Michx. Opposite Cannon Street.

Fig. 1.



J. Knight sculp.

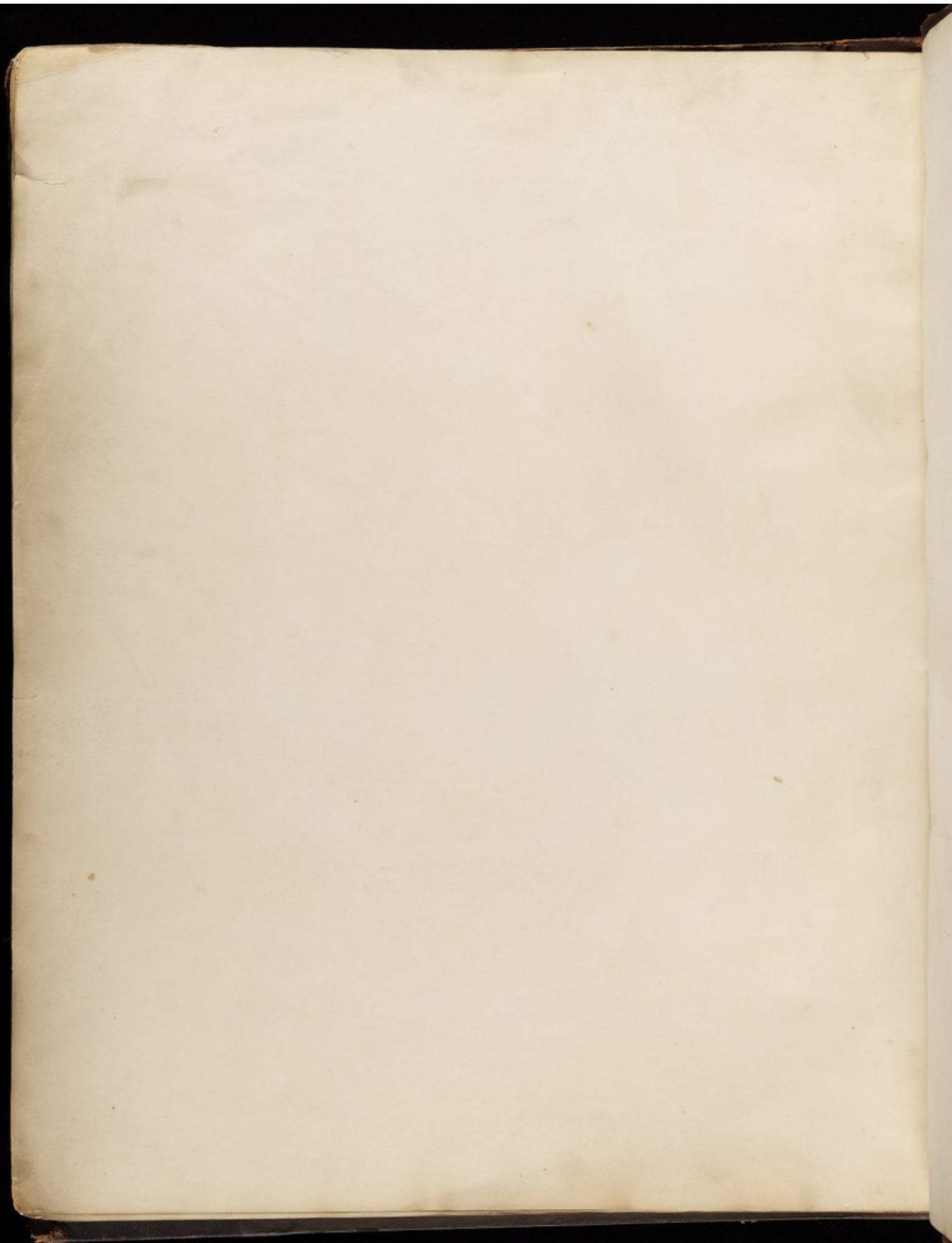


Fig. 4.



Fig. 3.

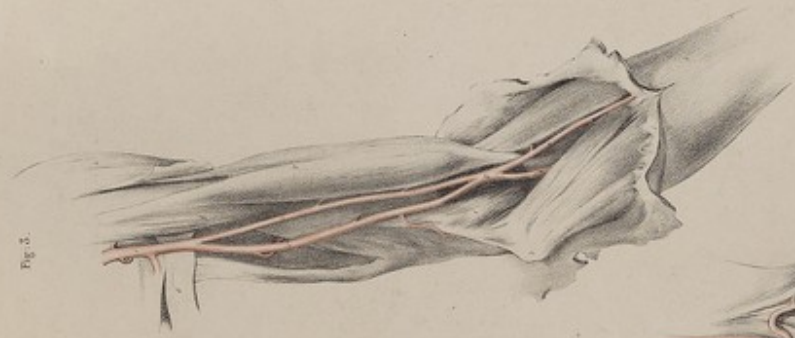


Fig. 2.

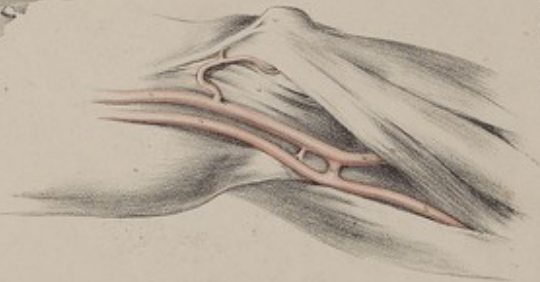
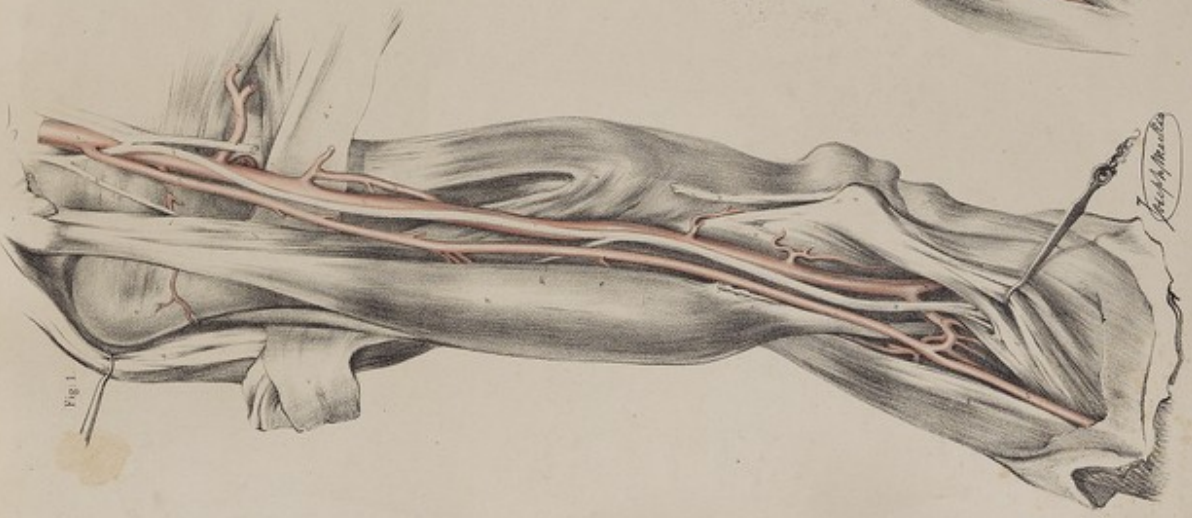


Fig. 1.



W. Cheselden del.

London: Taylor & Welford, Upper Great Street.

W. Cheselden del.

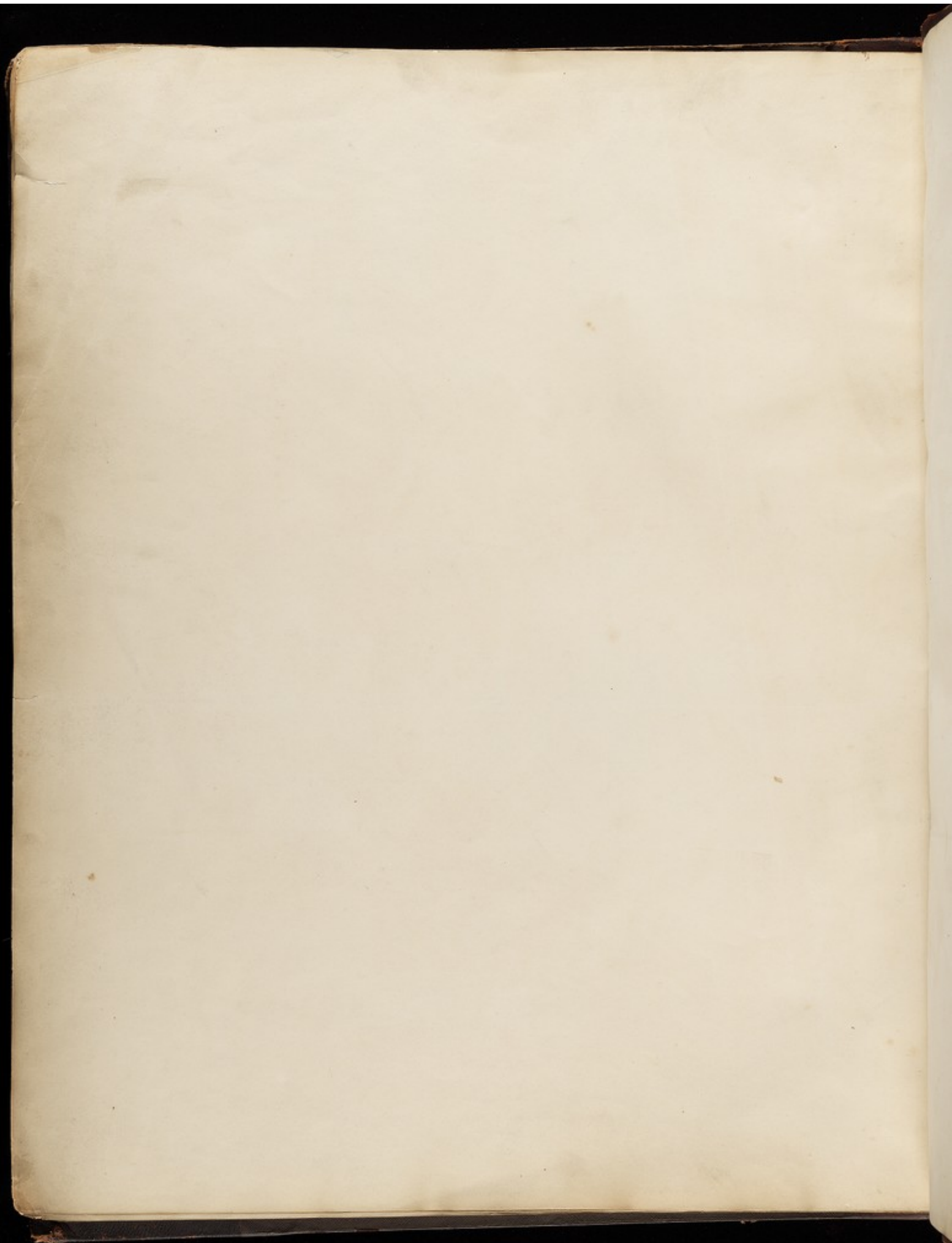


Fig. 4.

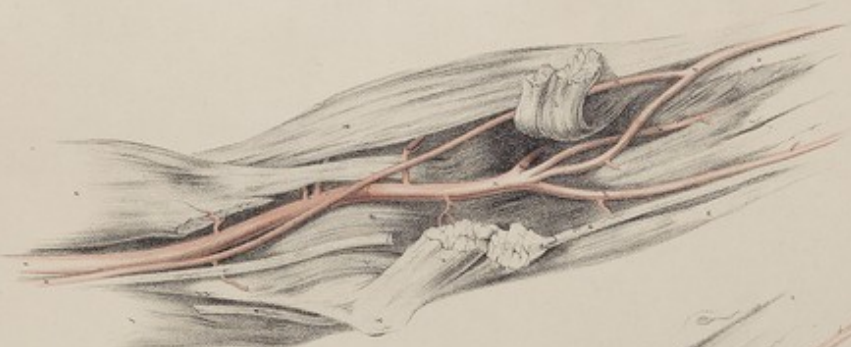


Fig. 3.



Fig. 2.

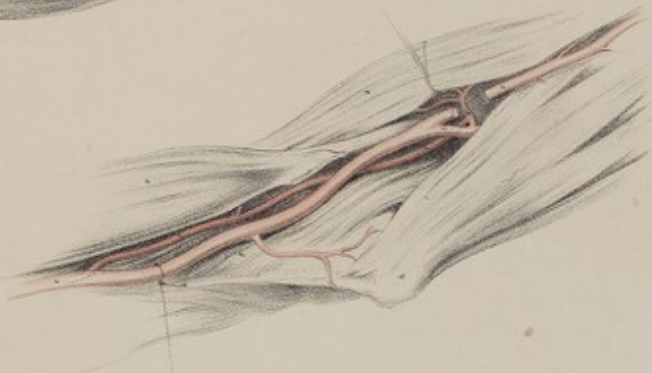


Fig. 1.

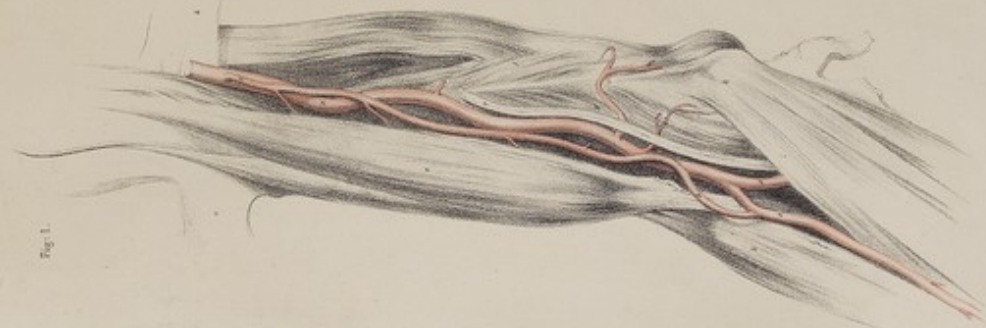
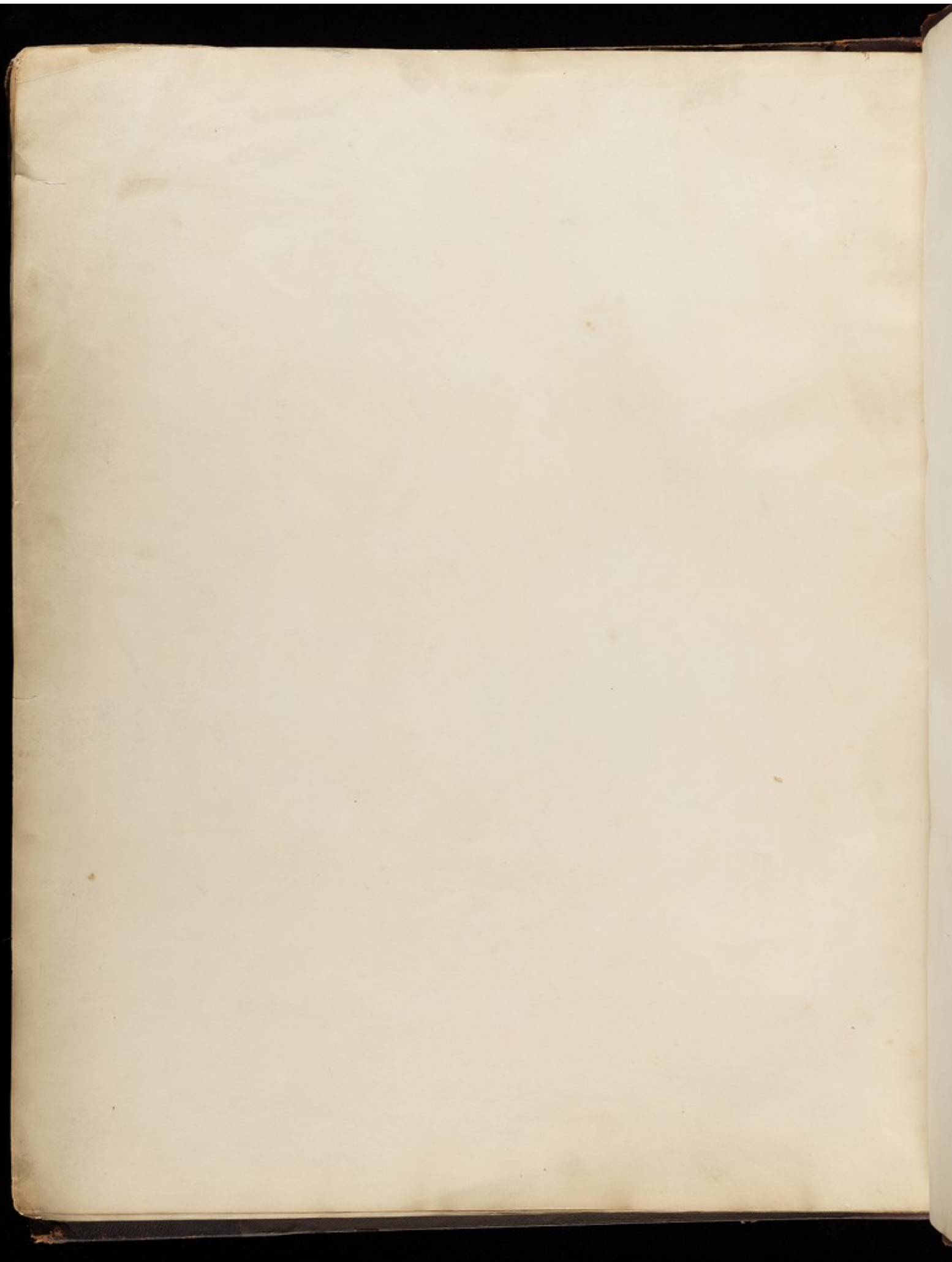


Fig. 4. Arteries in the Muscle.

London: Taylor & Walton, Copper-Engravers.

J. G. M. 1825



M. 36

Fig. 4.

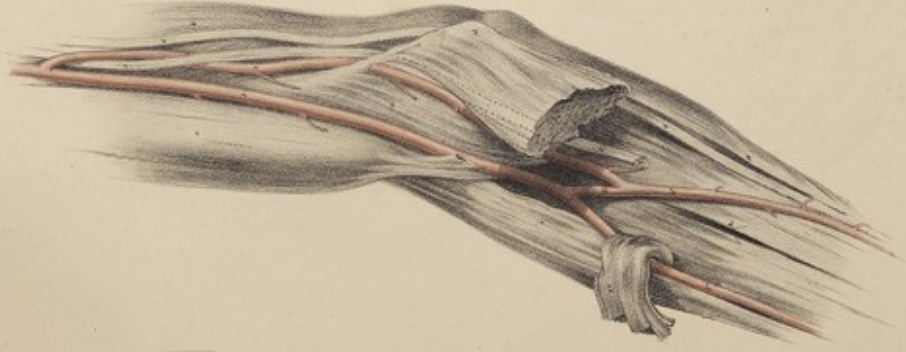


Fig. 2.

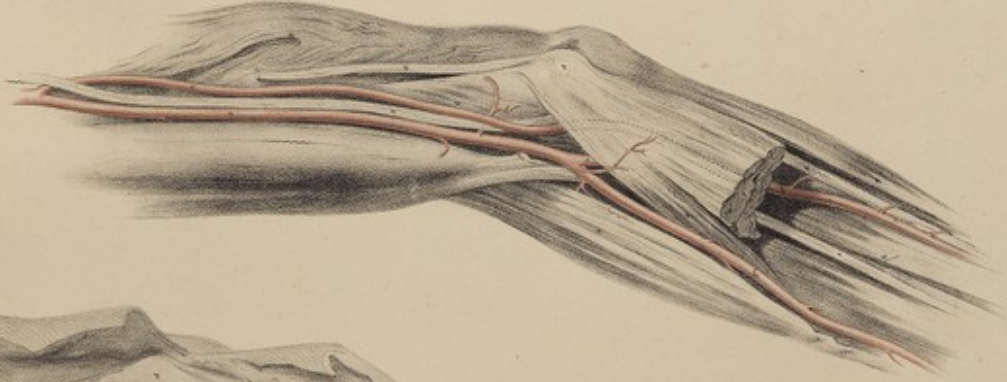


Fig. 1.

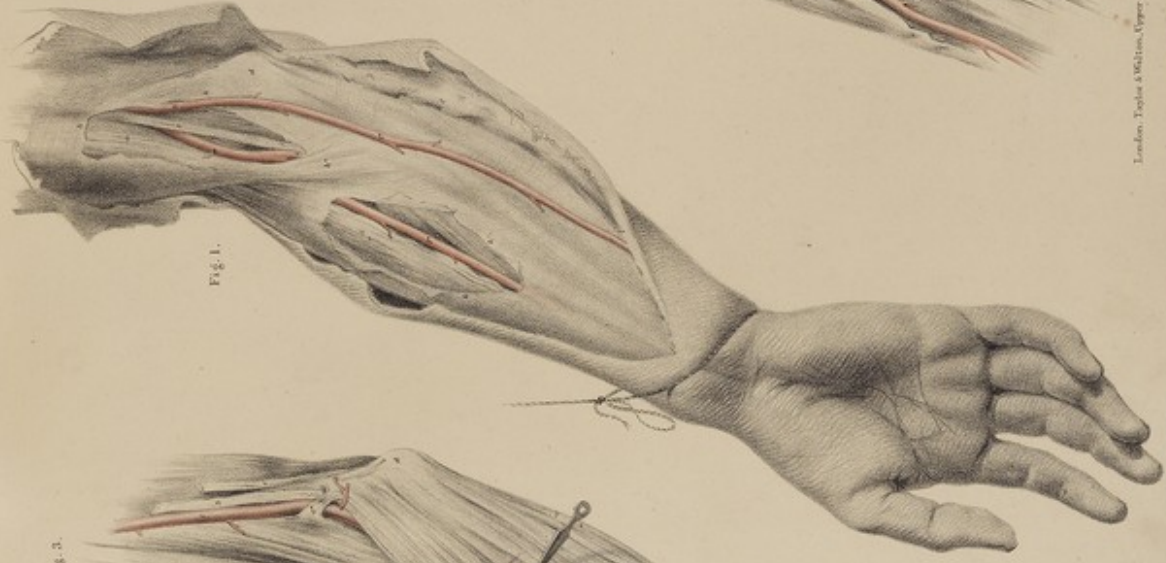
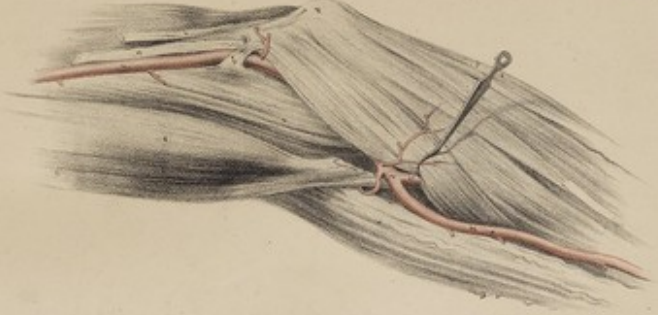


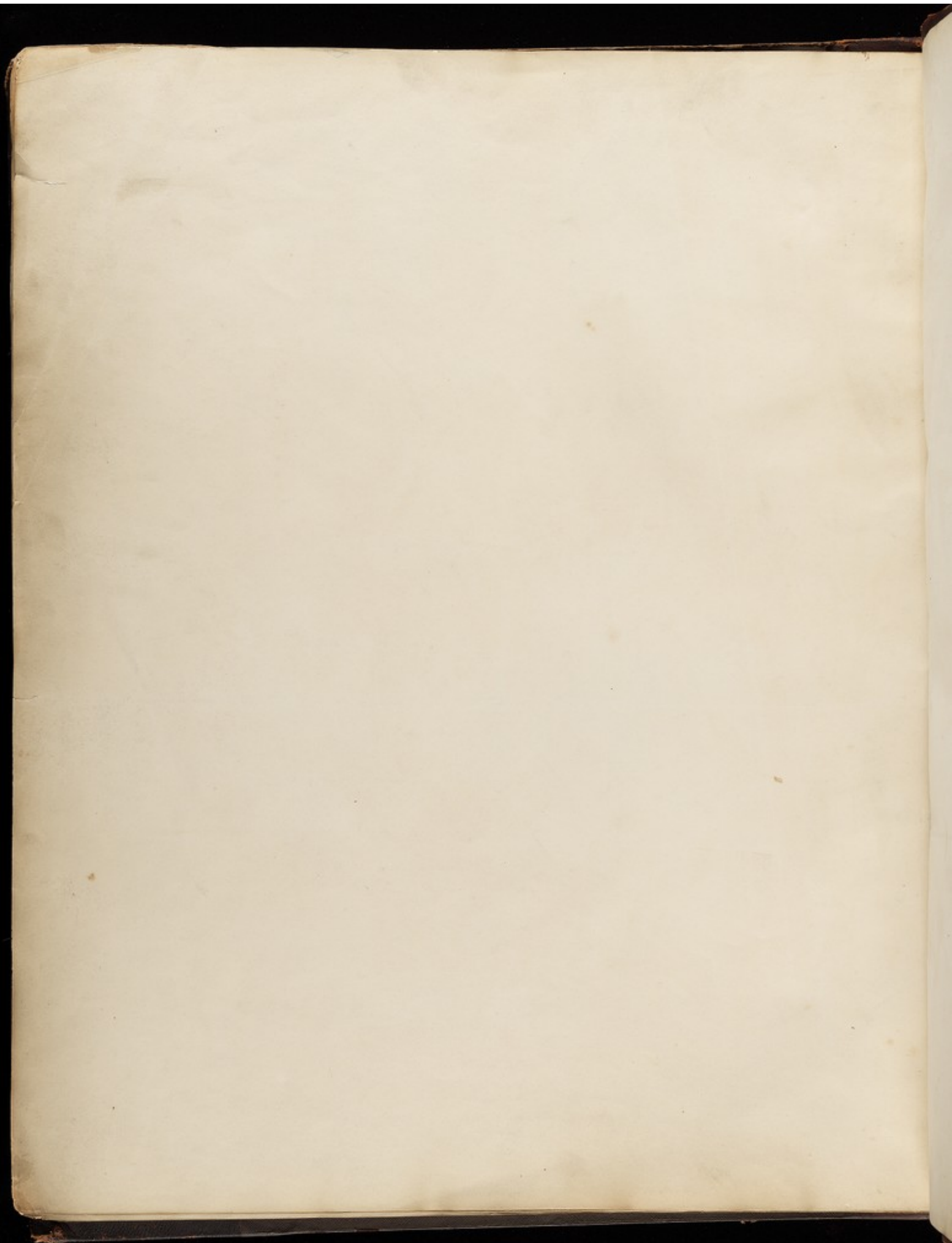
Fig. 3.



J. Smith Pinch to the Right

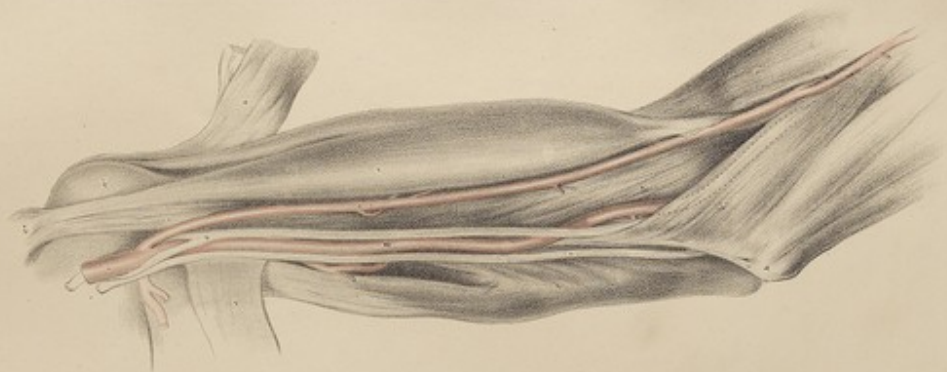
London: Taylor & Walton, Upper, Green St.

J. Smith Pinch



Pl. 37

Fig. 1.



Chief Division of the Brachy

Fig. 2.

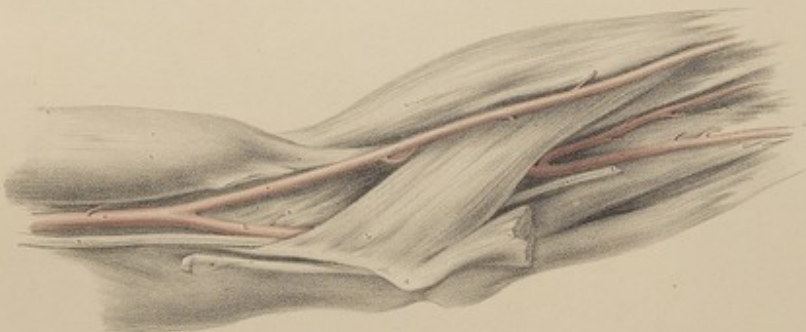


Fig. 4.

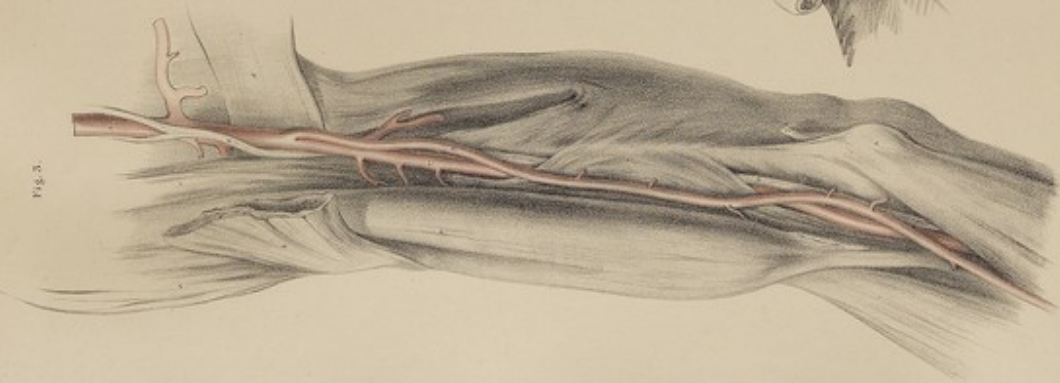


Fig. 5.



London, Taylor & Maltby, Printers, Queen-Street.

Fig. 3.



J. G. M. M. M.

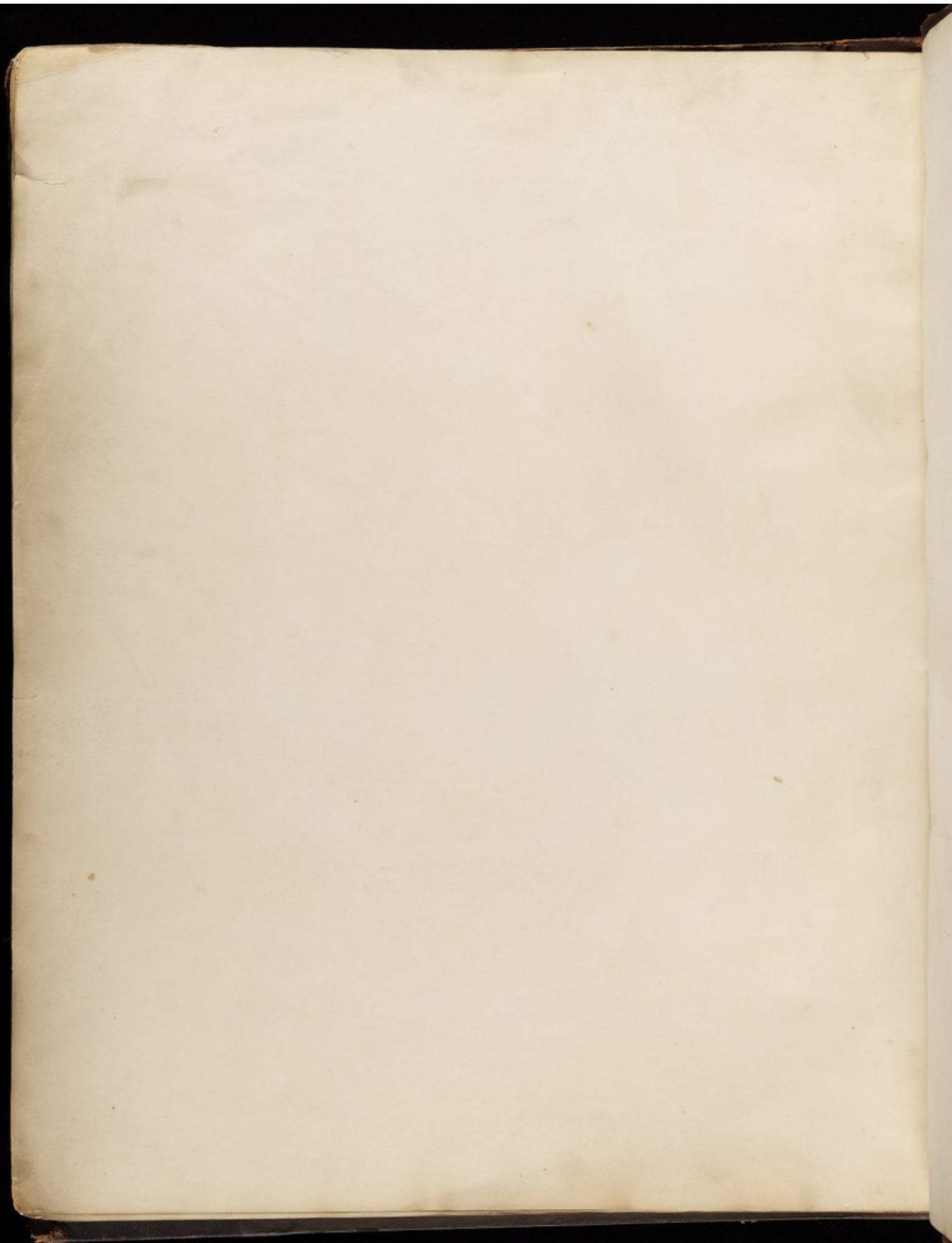


Fig. 1.

Fig. 2.



Joseph Martin

London, Taylor & Walton, Upper Great St.

J. Gray, Printer in the Strand

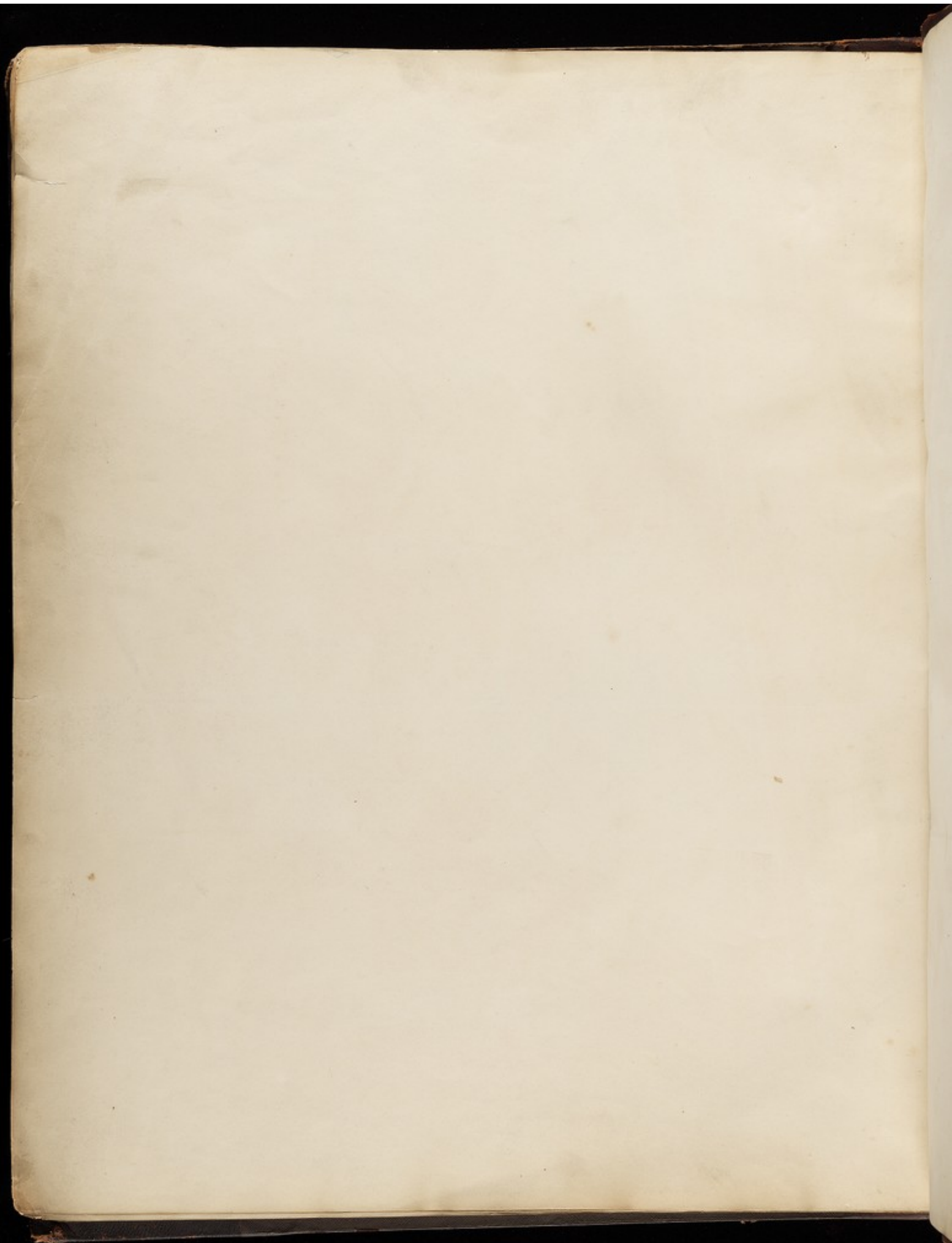


Fig. 1.

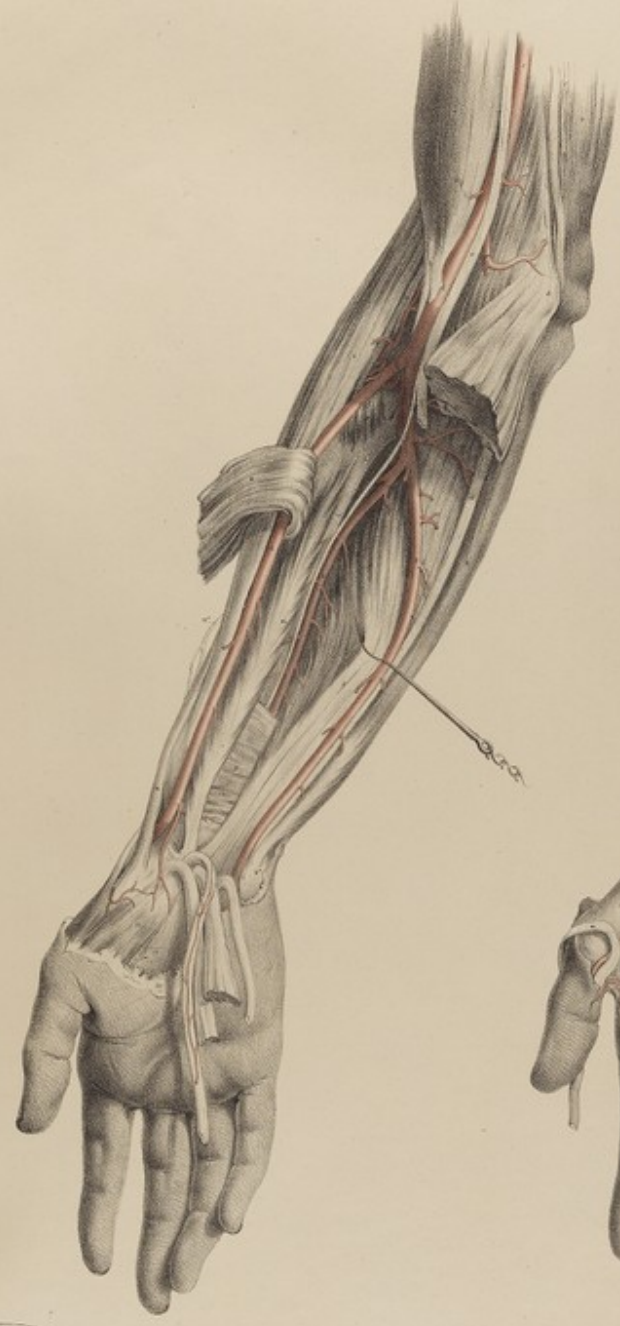


Fig. 2.



Joseph Martin

London, Taylor & Walton, Upper Green Street.

J. Gray, Pinna in the Rightly.

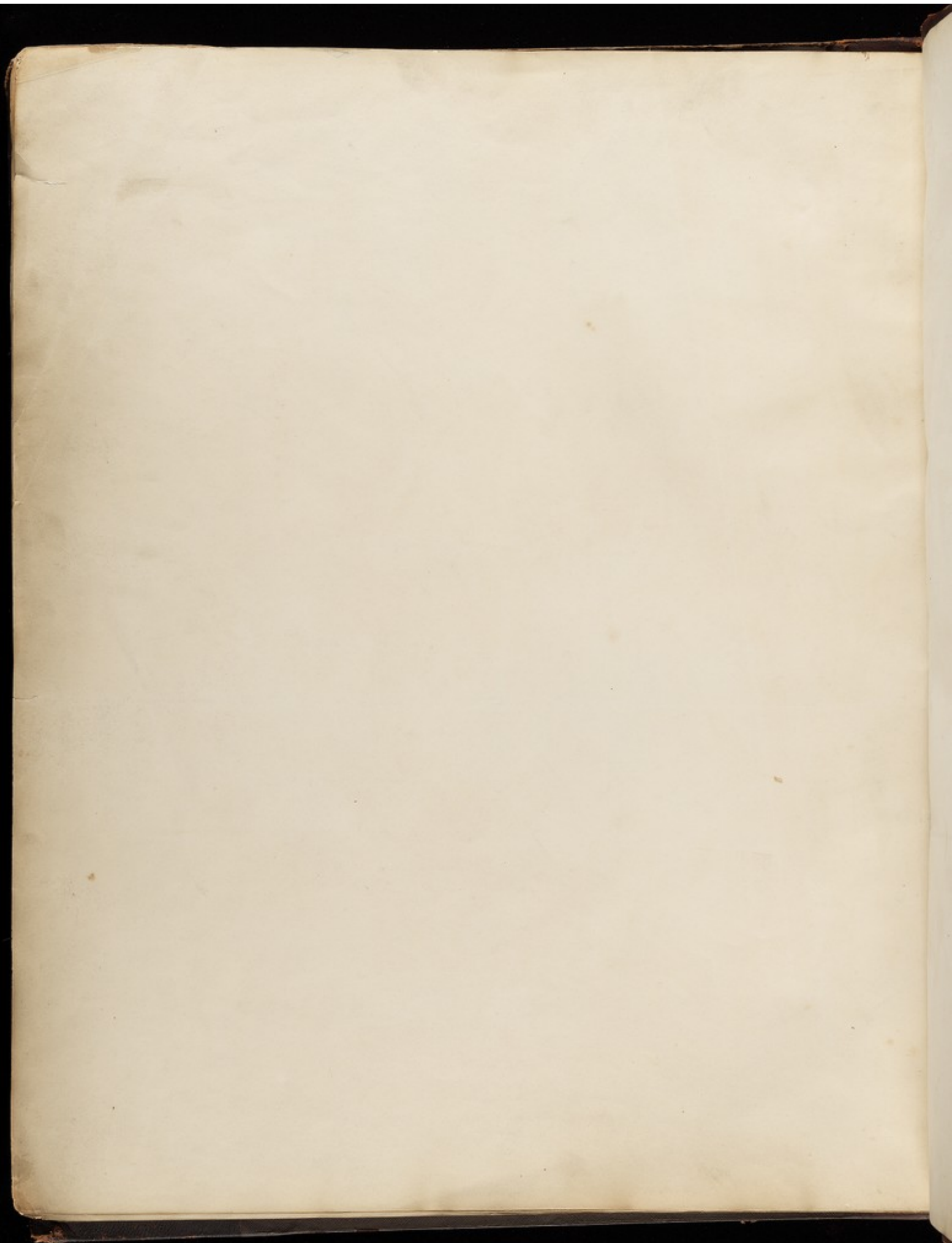


Fig. 1.

H. 40

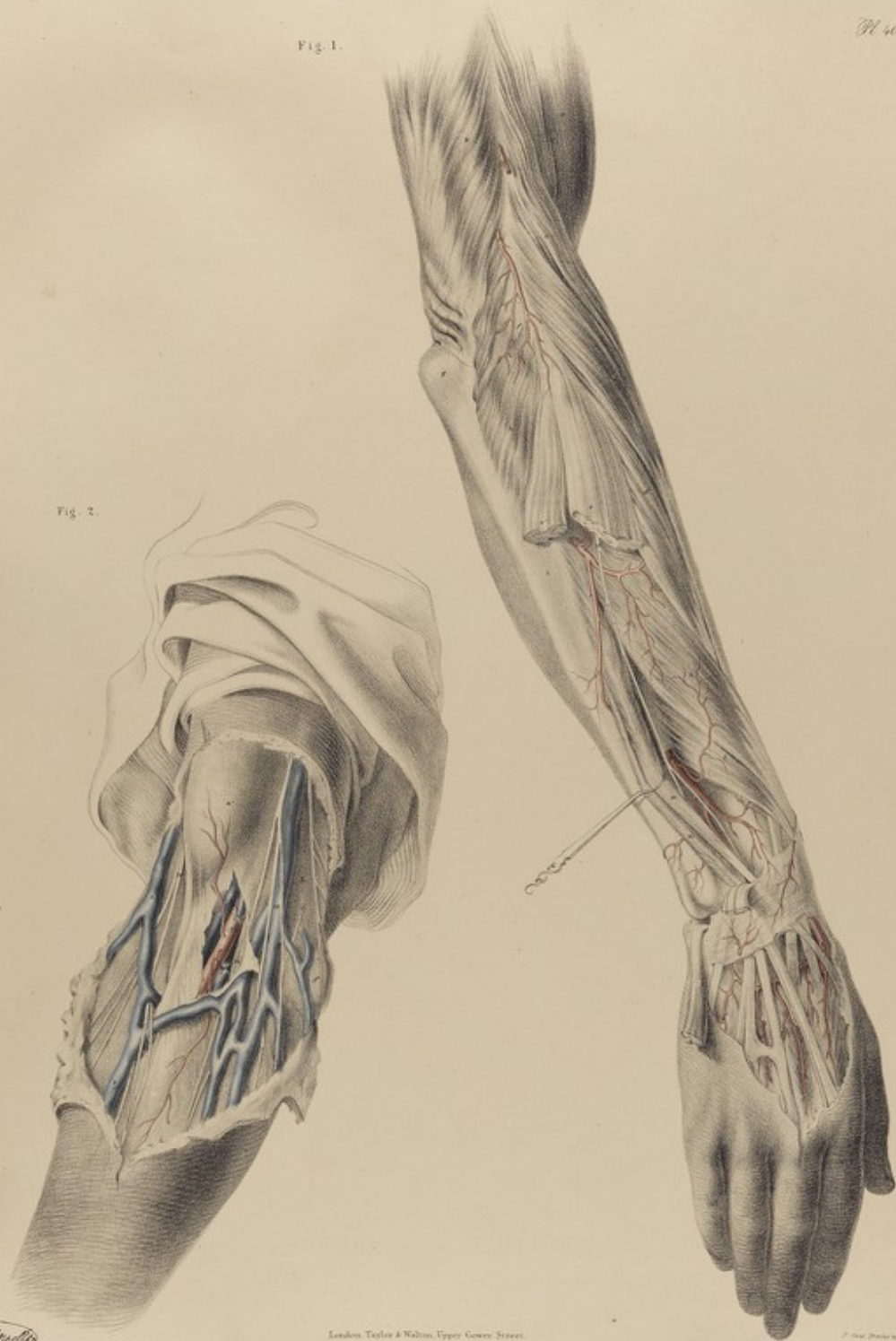


Fig. 2.

J. G. Thompson

London: Taylor & Walton, Upper Gower Street.

J. G. Thompson del.

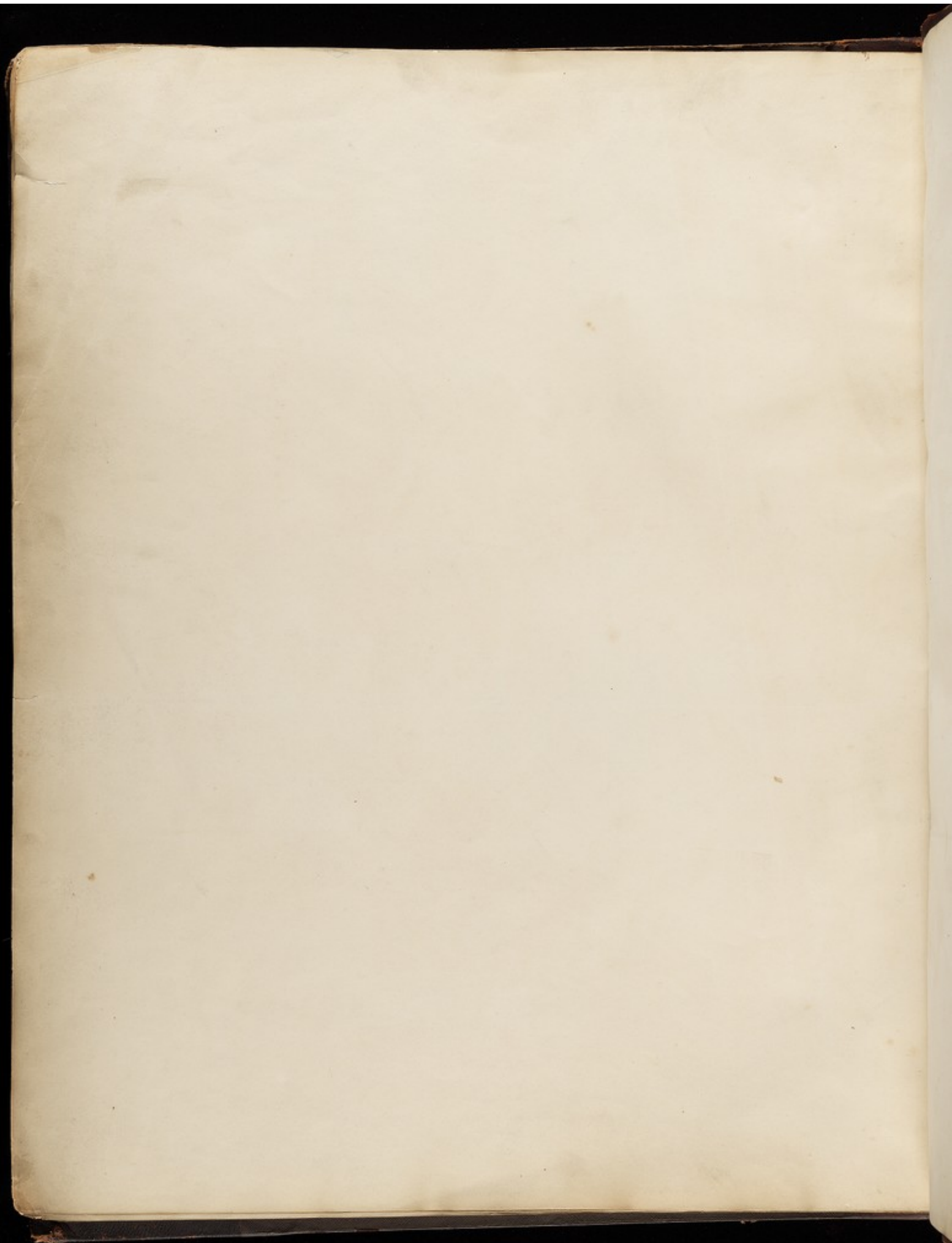




Fig. 1.

Fig. 2.

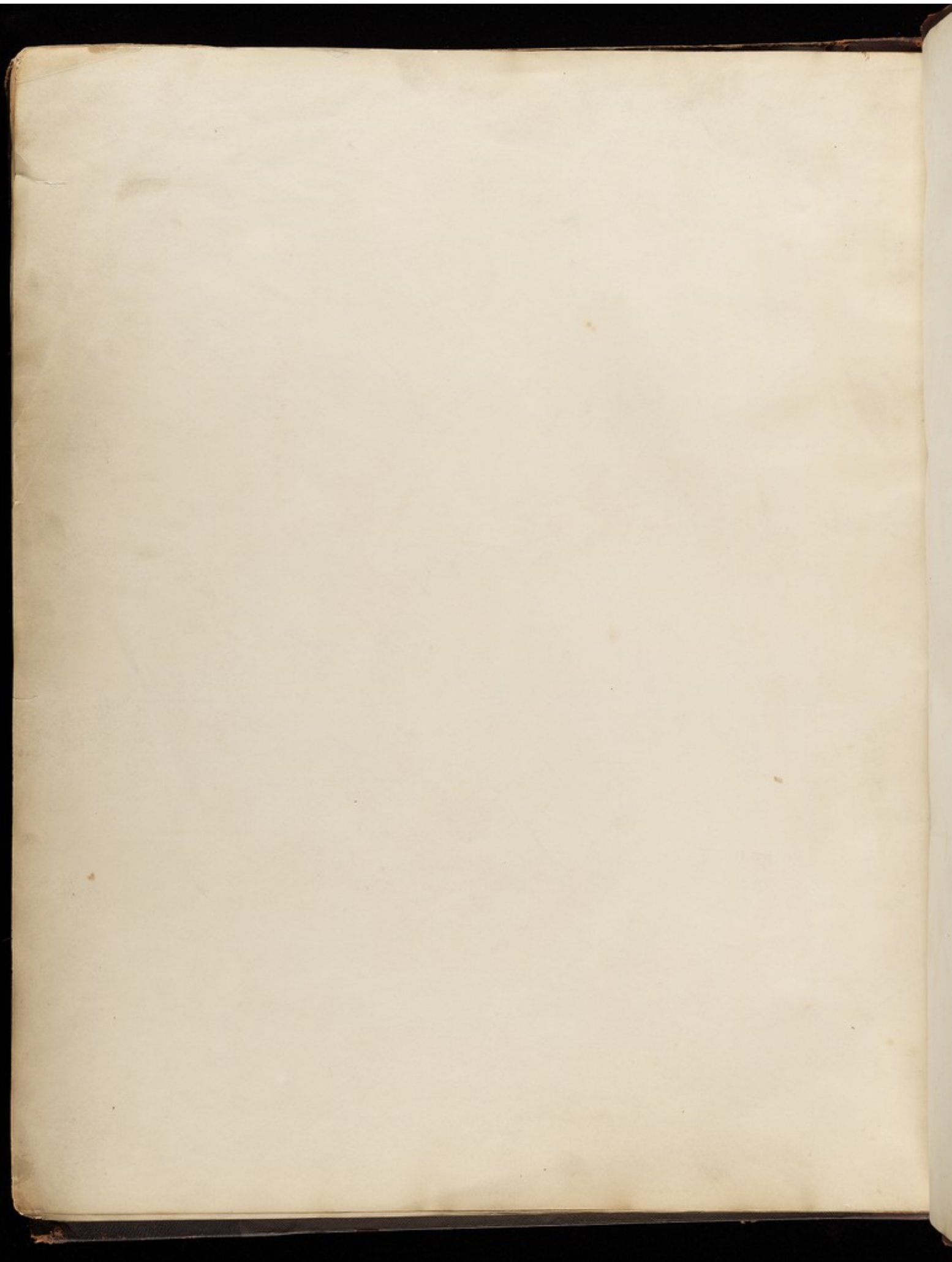
Fig. 3.

Fig. 4.

Joseph Bevan delin.

London, Printed & Sold by W. Wood, in Queen-Street, 1771.

Fig. 5. Dissection of the Artery.





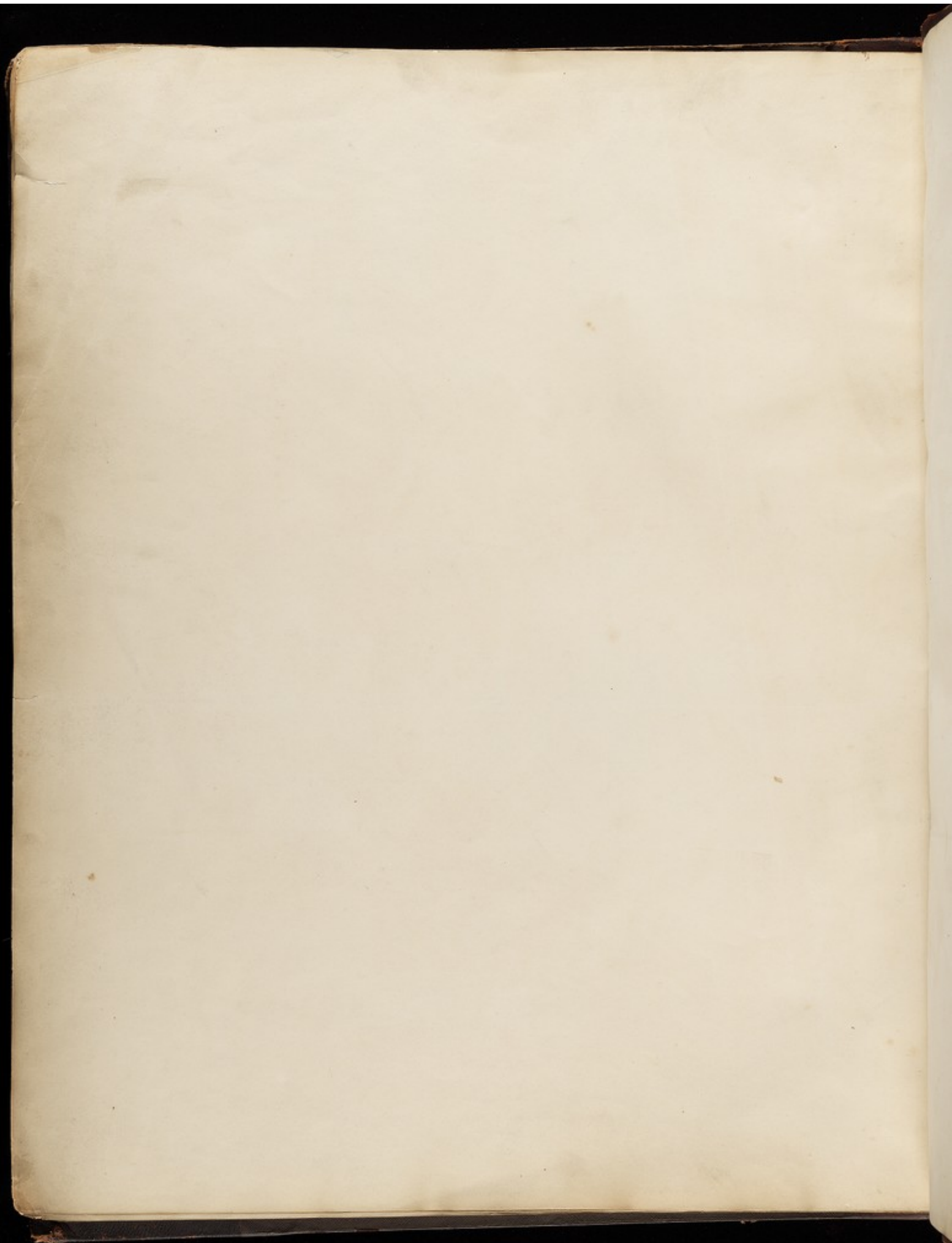


Fig. 2.

Fig. 3.

Fig. 1.



Joseph Martin

London, Taylor & Walton, Upper Church Street.

J. Goussier del. Sculp.

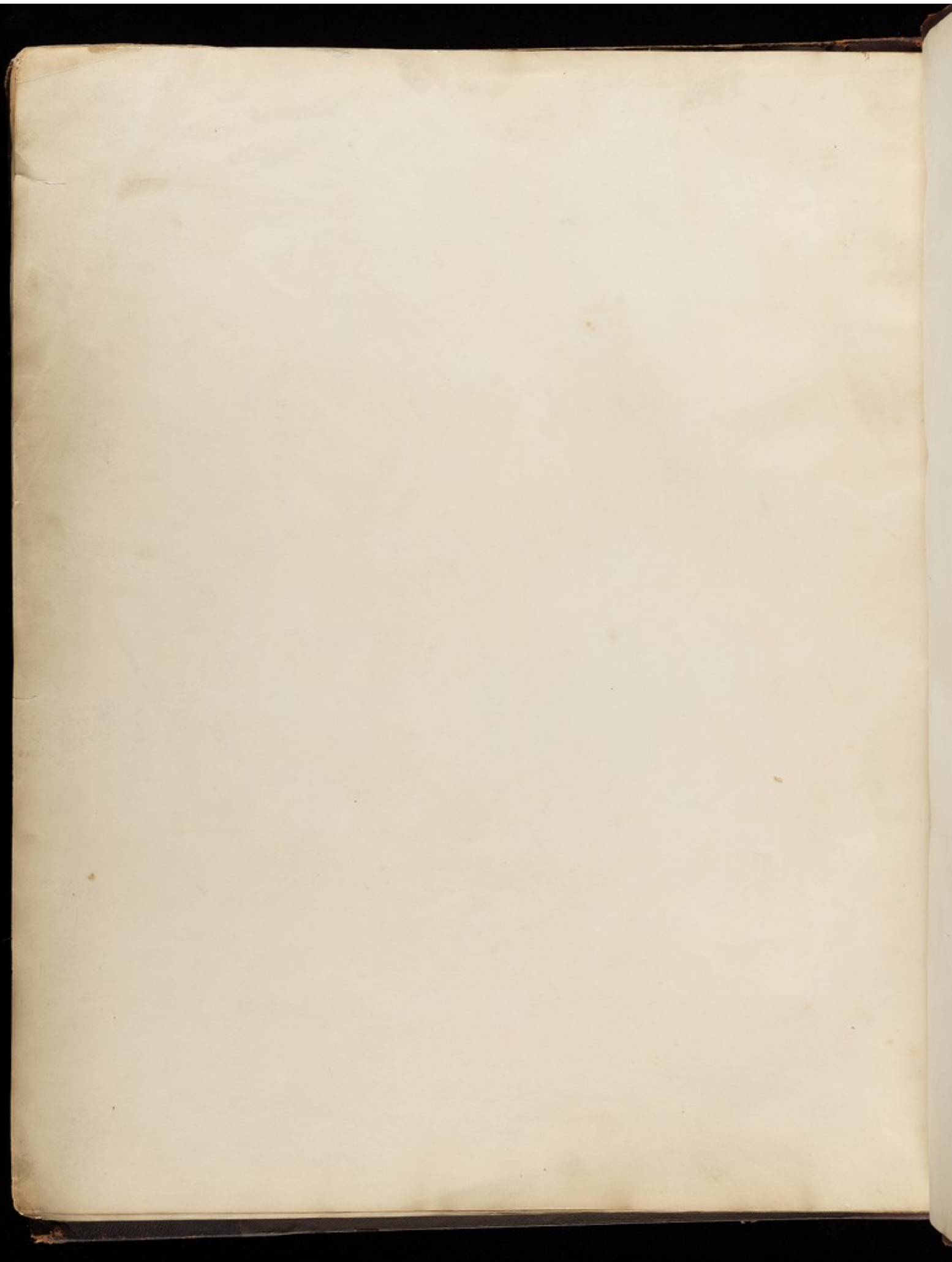
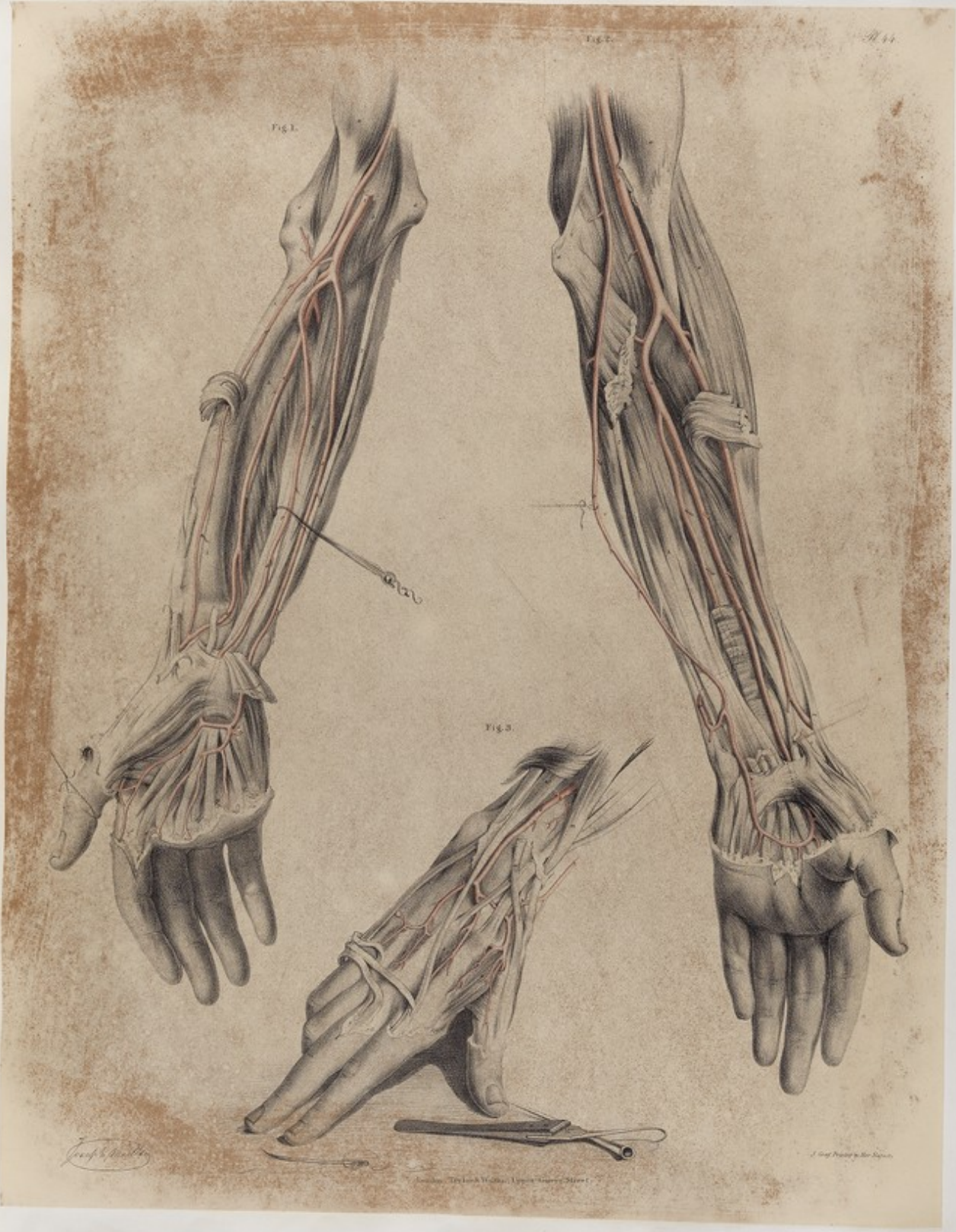


FIG. 2.

FIG. 1.

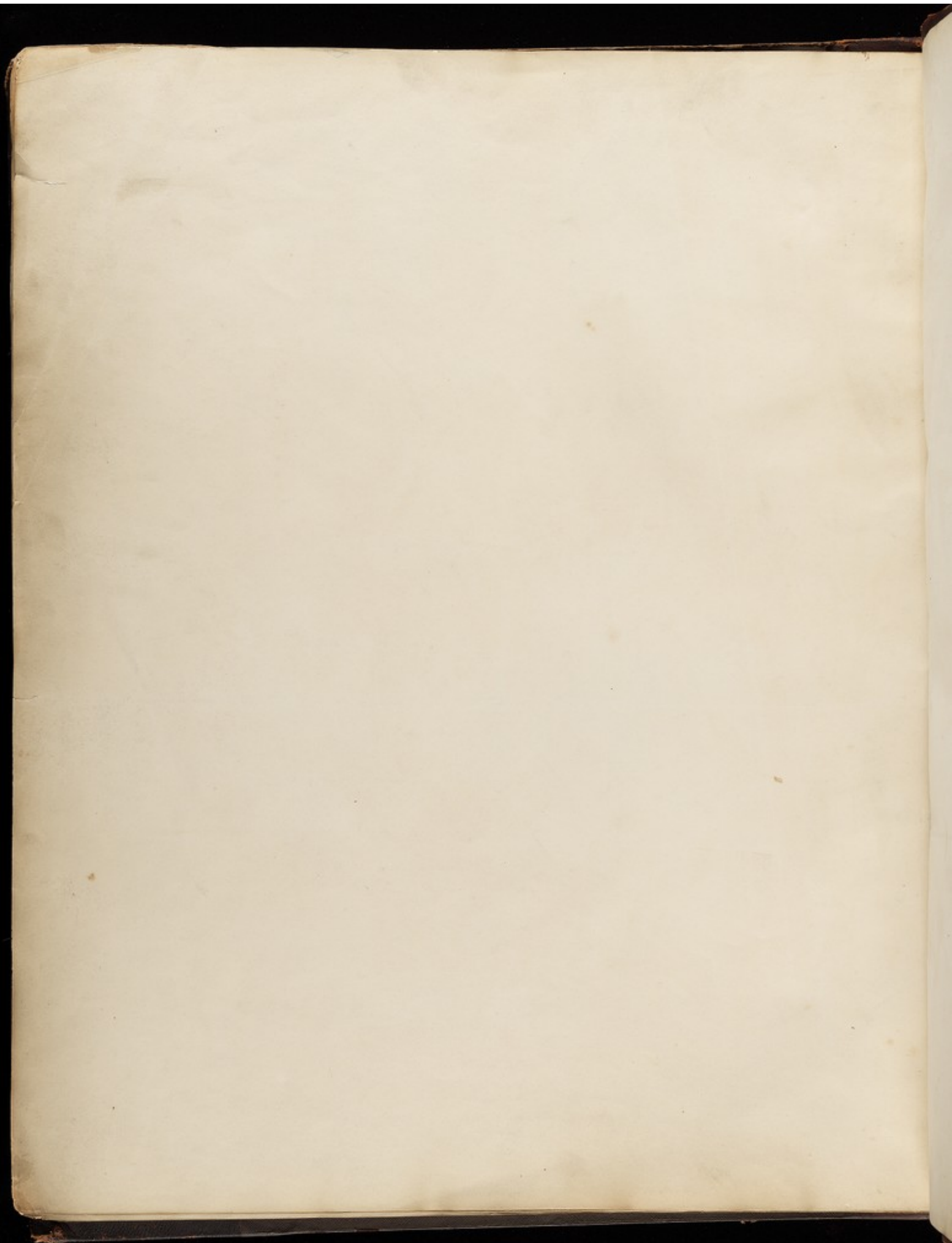
FIG. 3.



Joseph Beatty

J. Ward Printed by the Author

London: The Lock, Wallcut, 1788. Anatom. Tab. 1.



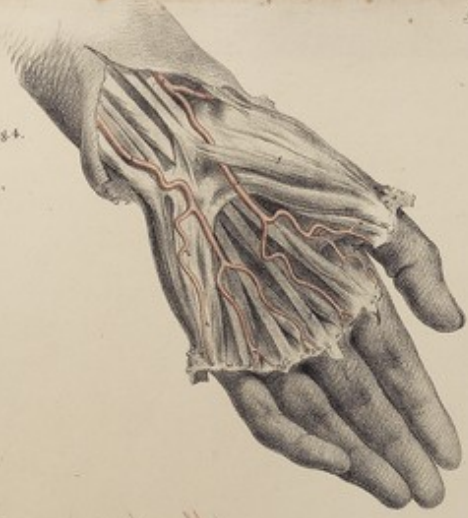


Fig. 4.



Fig. 2.



Fig. 1.



Fig. 3.

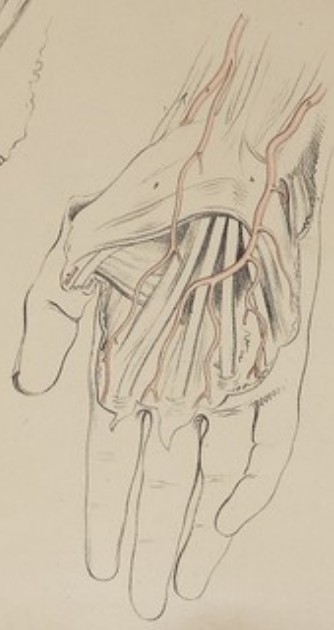


Fig. 6.

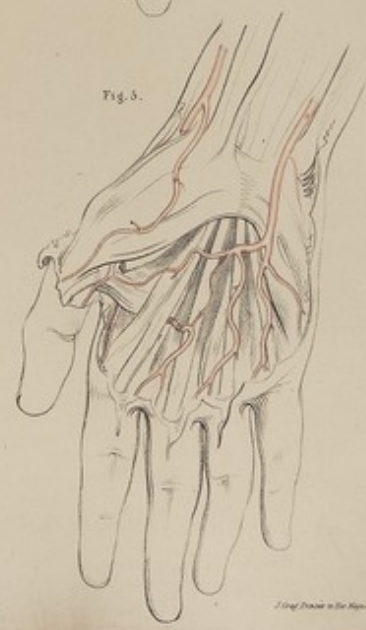
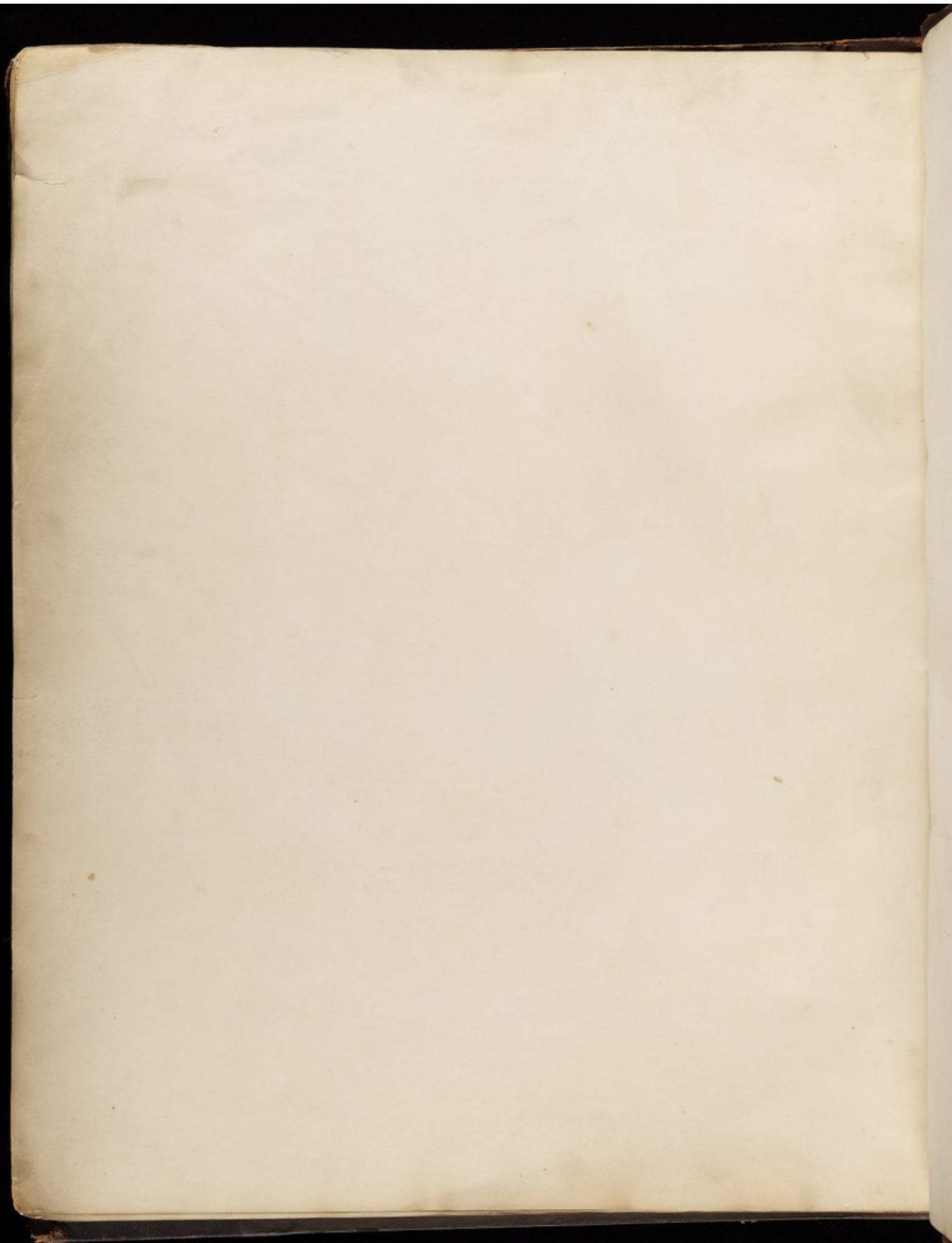


Fig. 5.

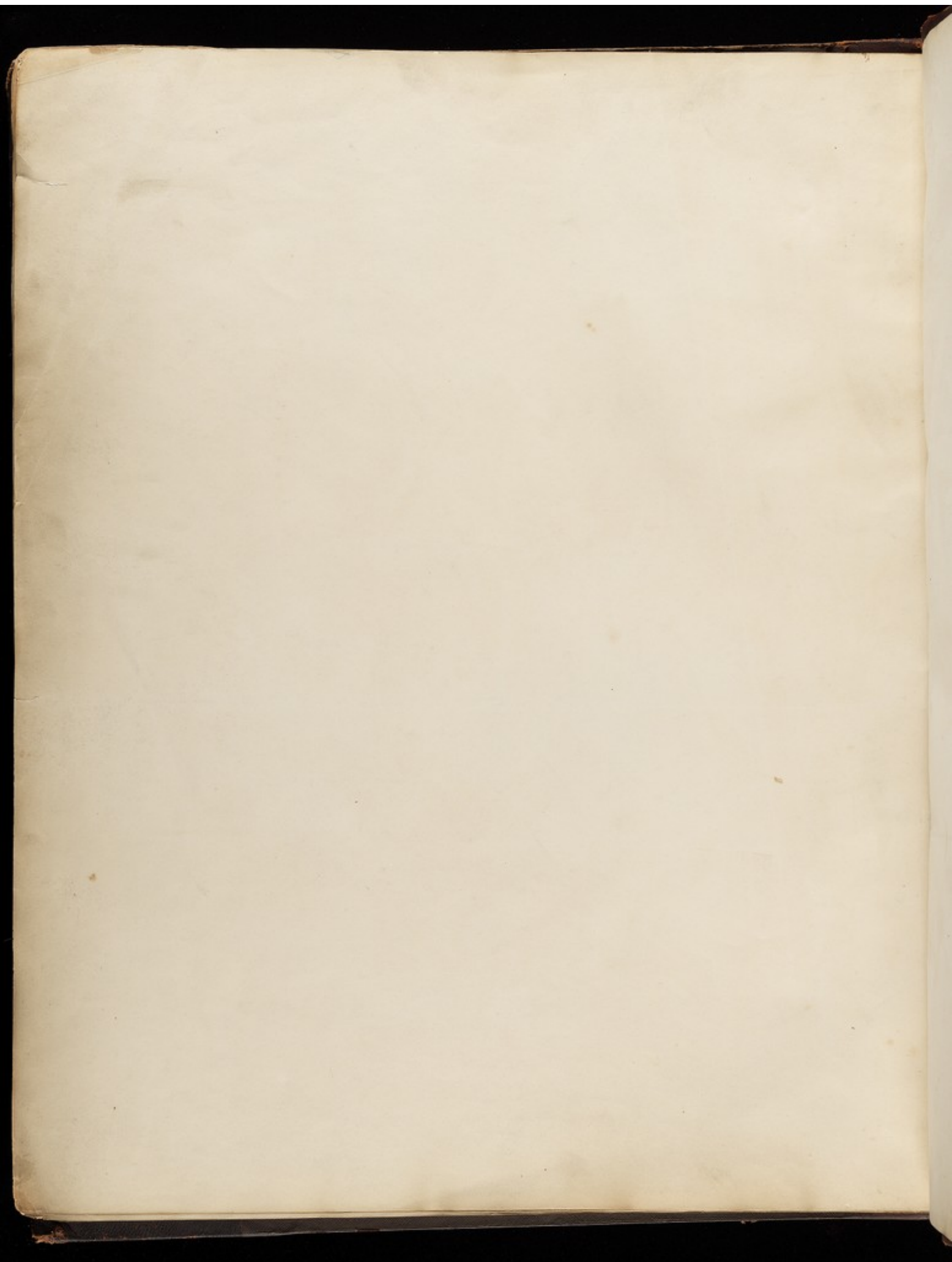
Joseph, Maclure

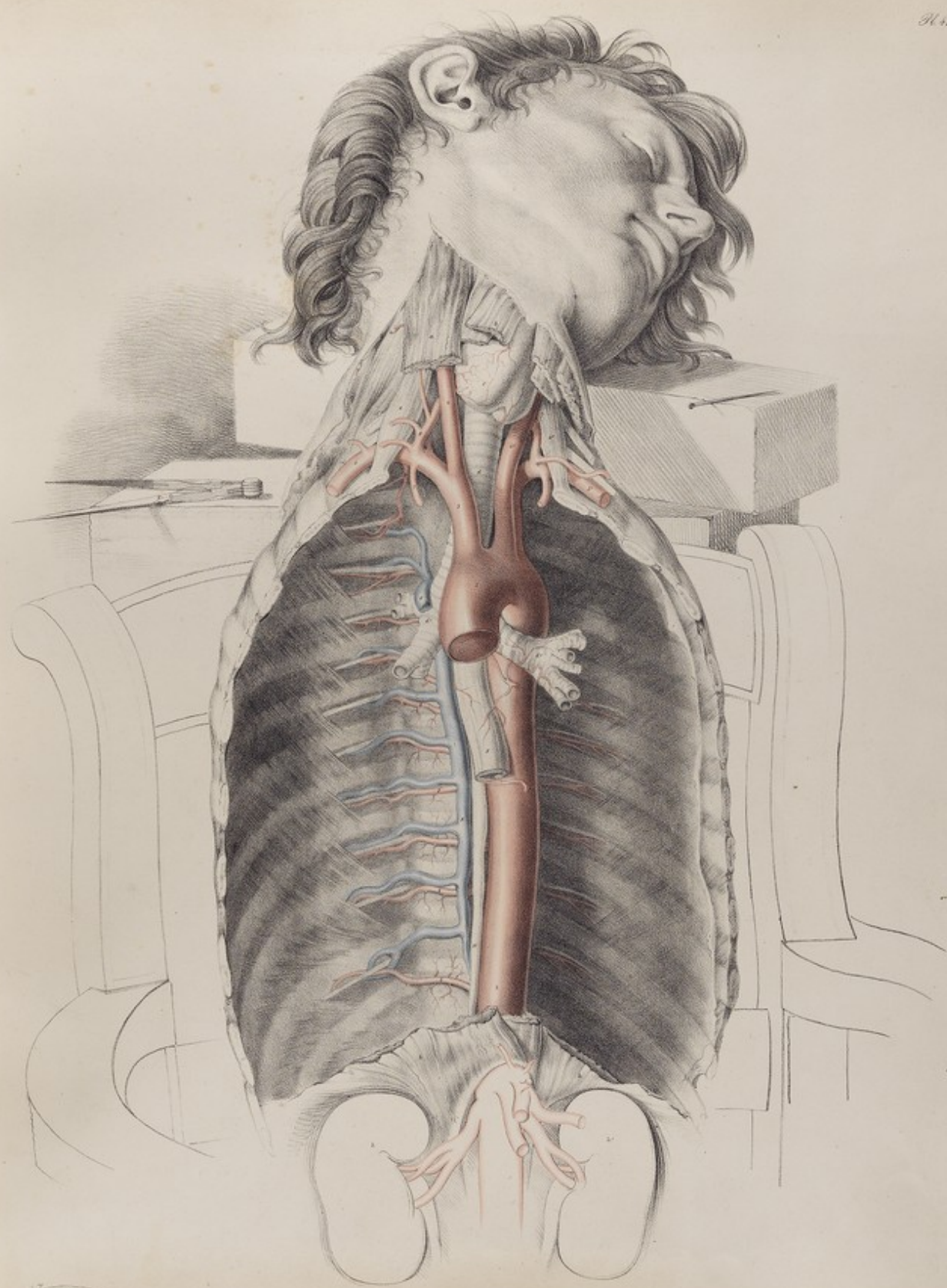
London: Taylor & Walton, Upper Gower Street.

J. Gray, Printer to the Museum









Joseph Martin

London, Taylor & Walton, Upper Gower Street.

W. Gray, Dublin in the North

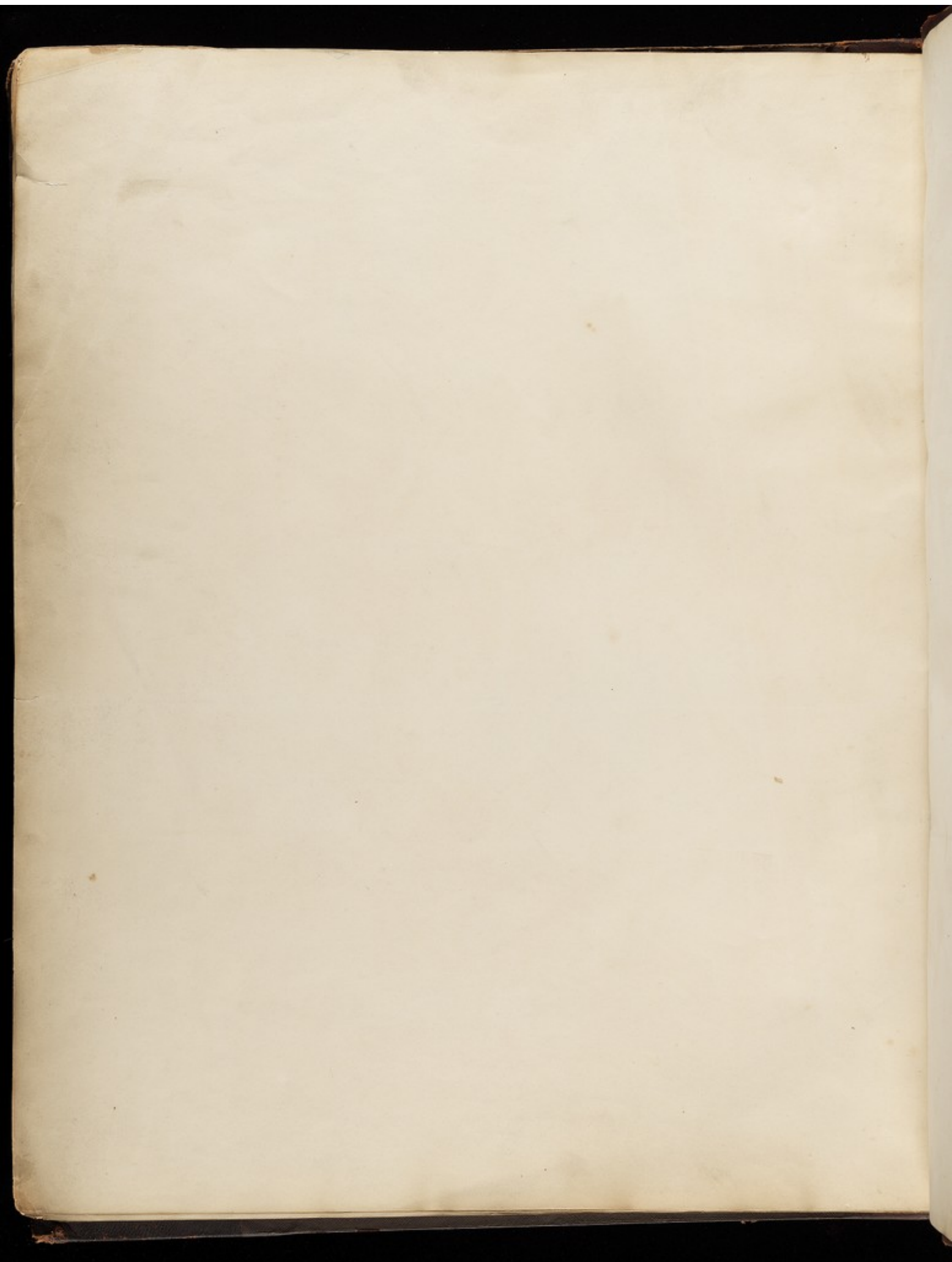


Fig. 3.



Fig. 1.

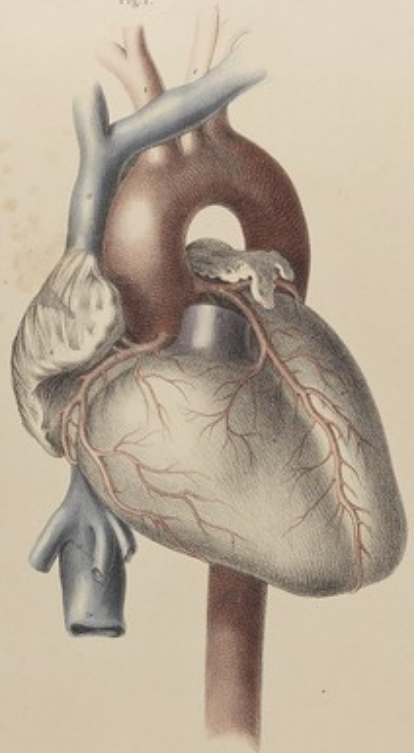


Fig. 4.

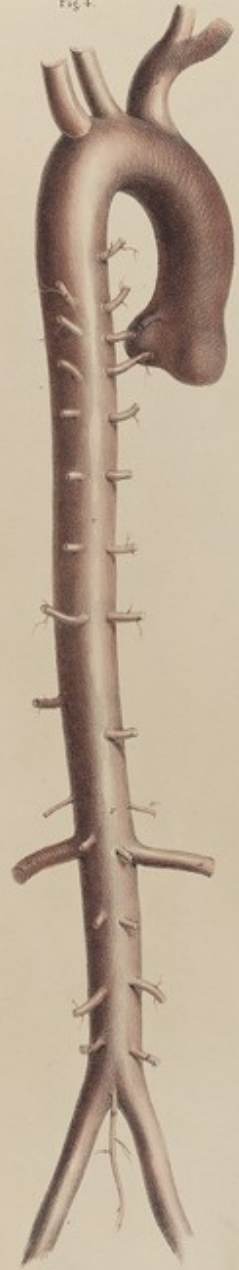
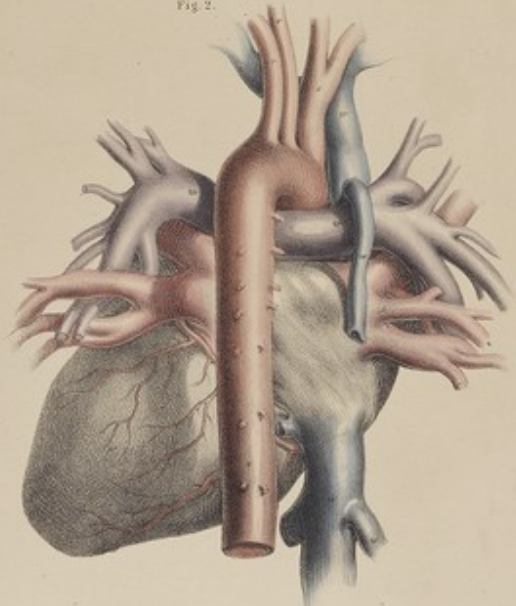


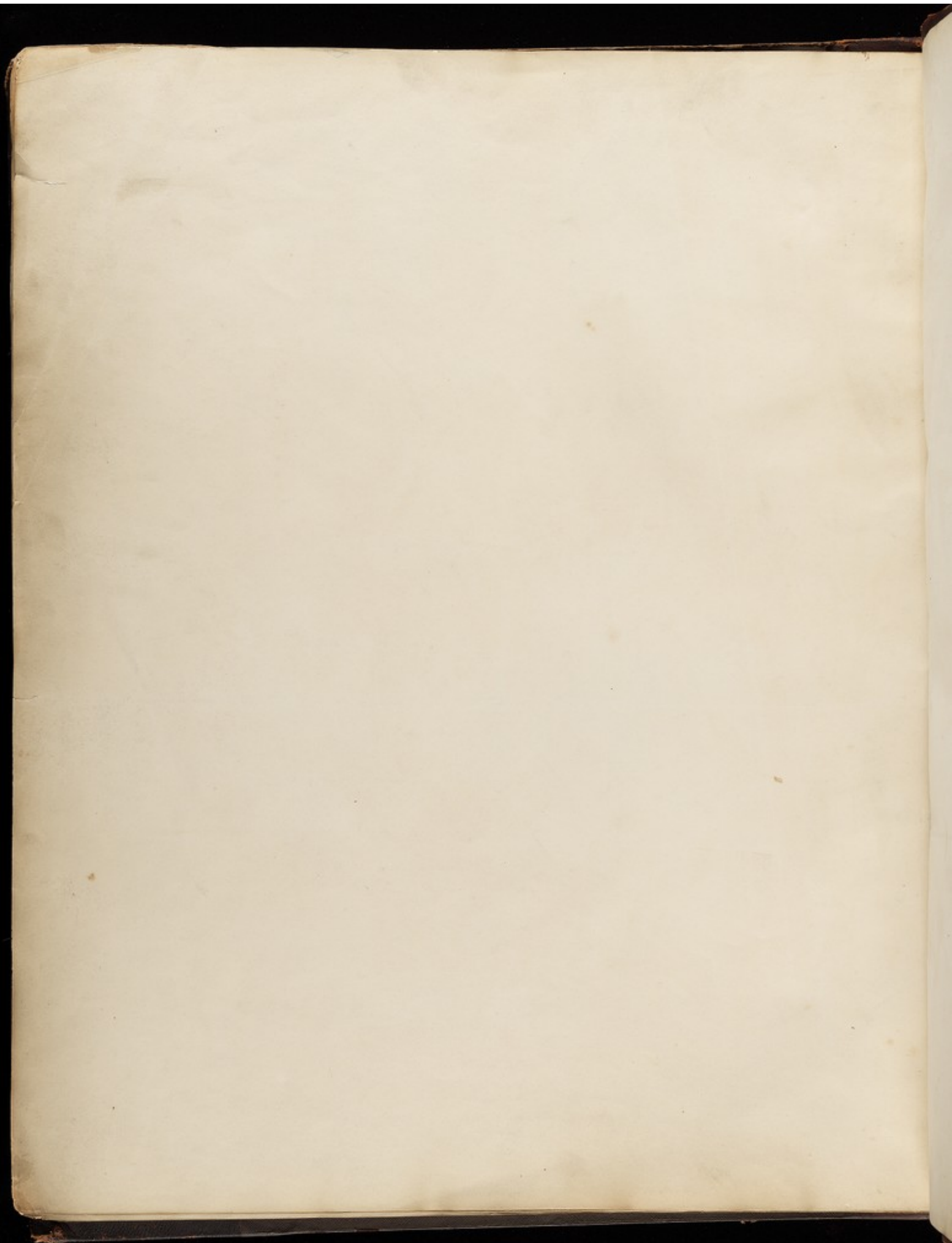
Fig. 2.

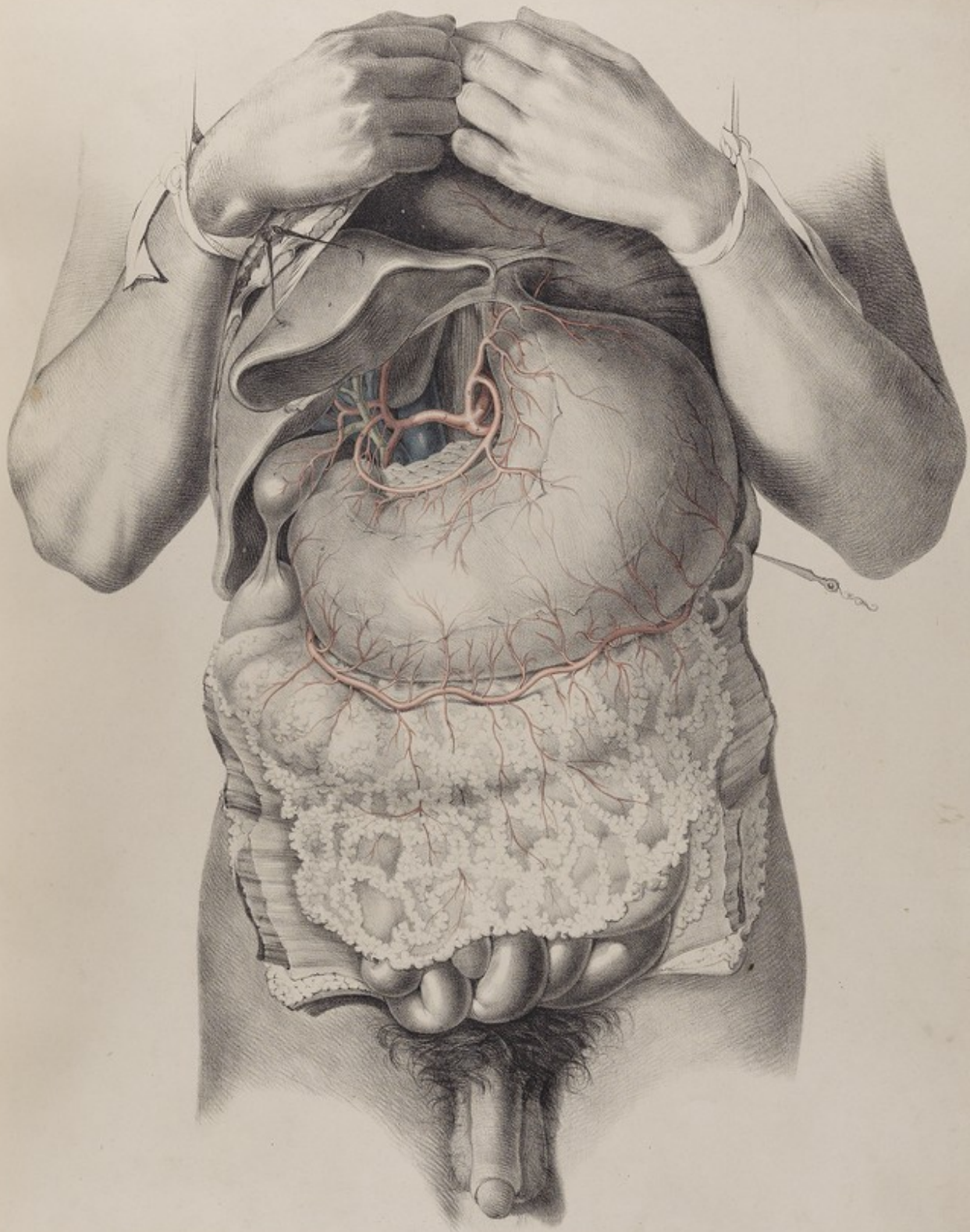


Joseph Martin

London, Taylor & Walton, Upper Gower Street.

J. Hall, Sculp. in the Original.





J. Wandelaar del.

London, Taylor & Walton, Upper Gower Street.

J. Wandelaar del.

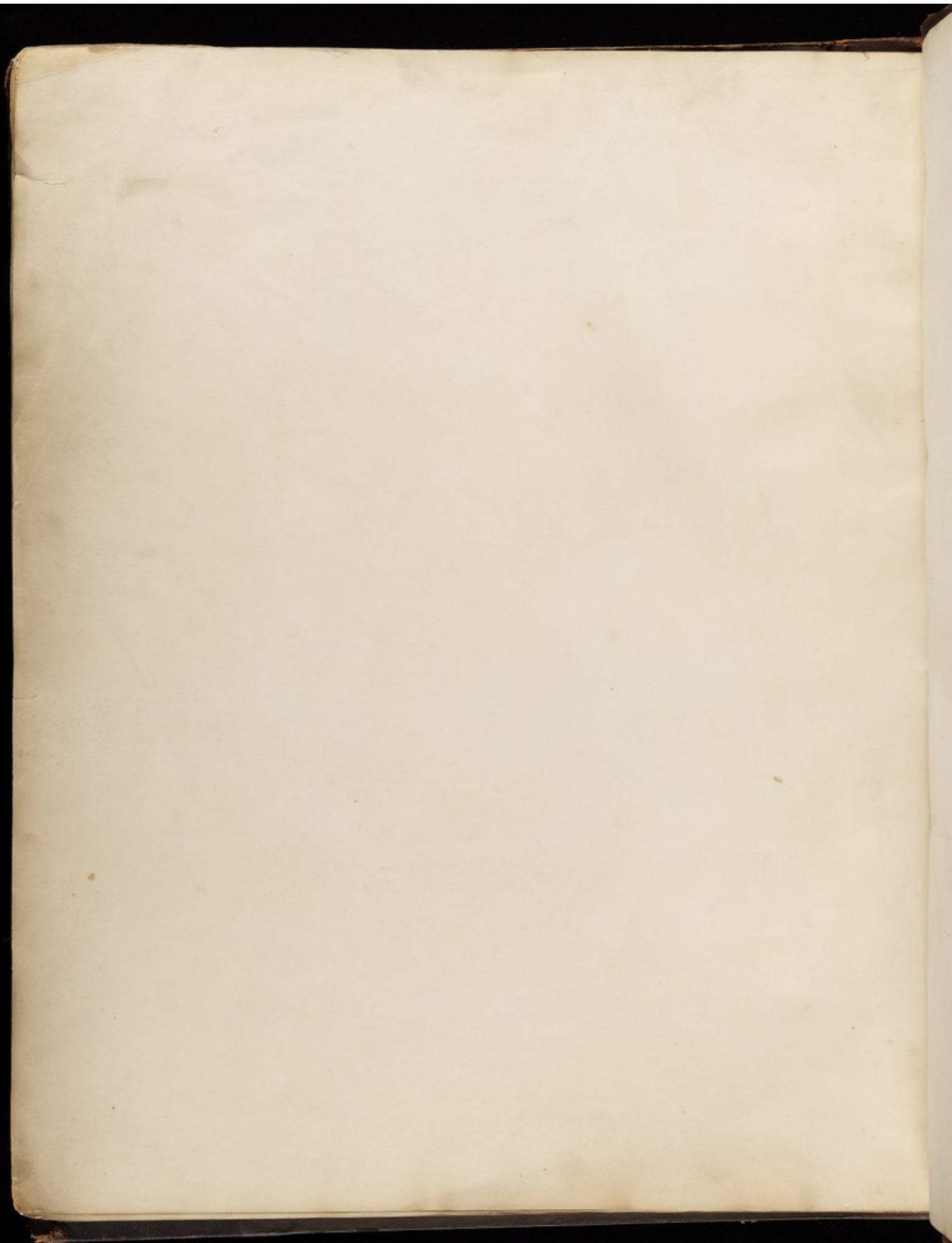


Fig. 1.

H. 50

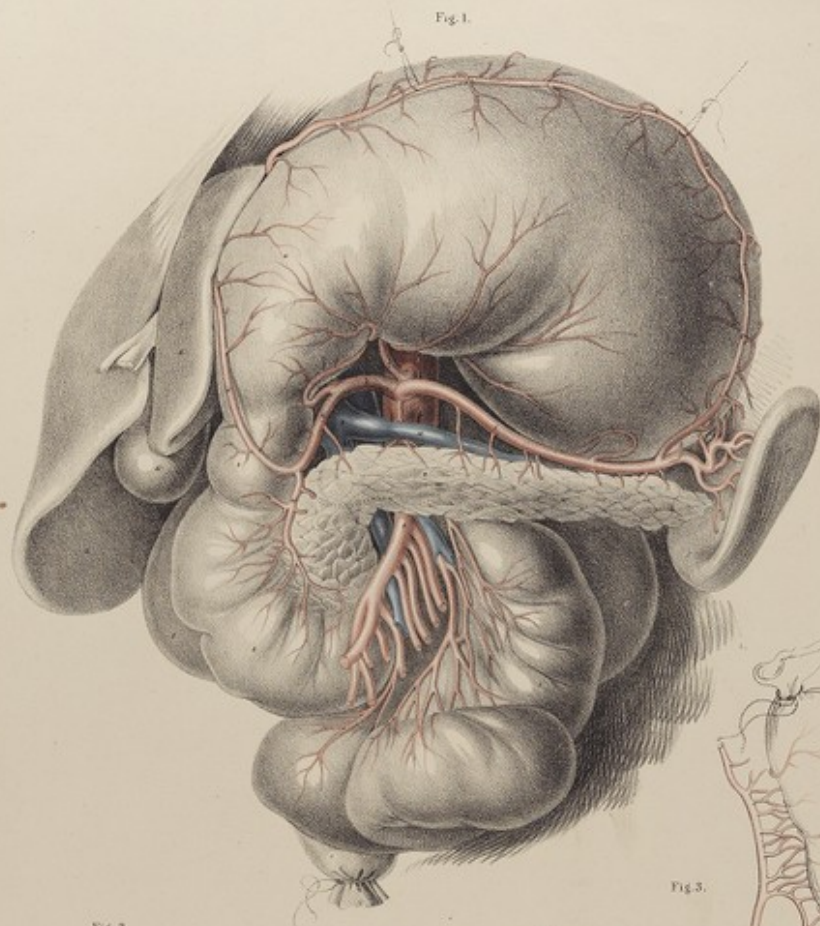


Fig. 2.

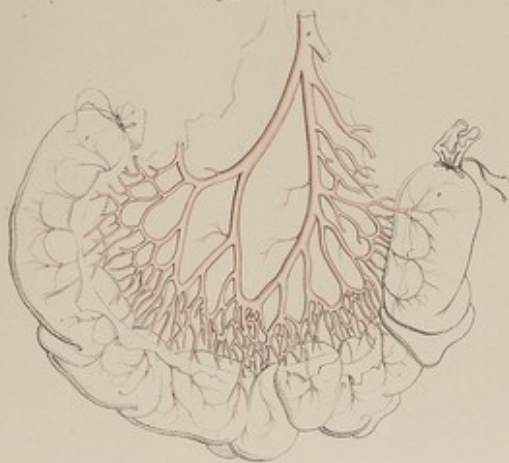
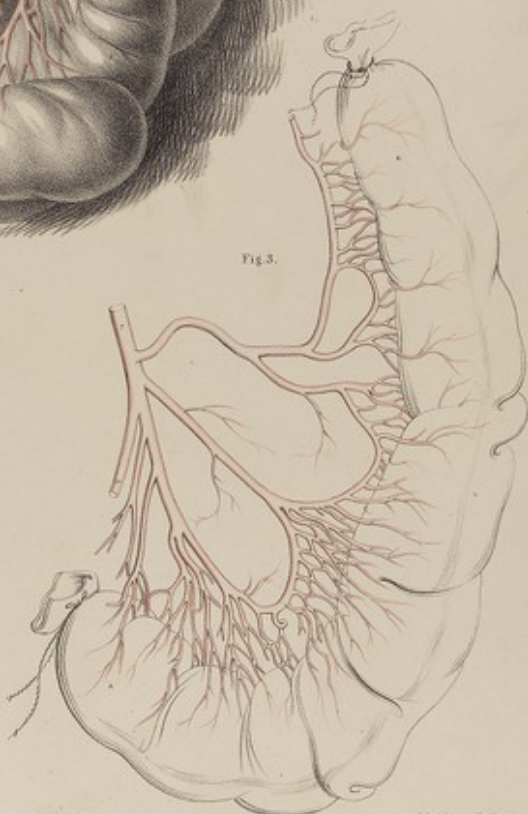


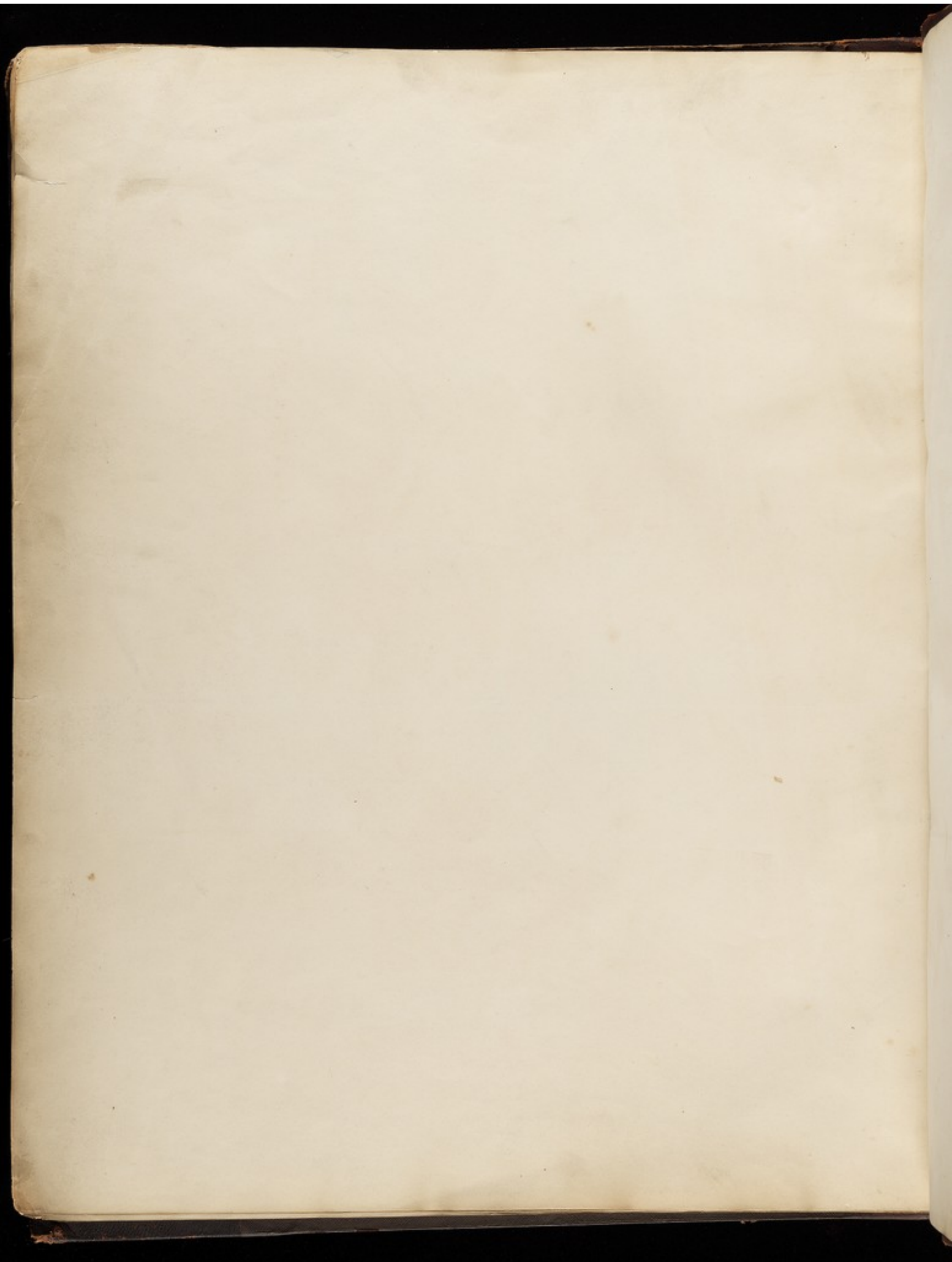
Fig. 3.

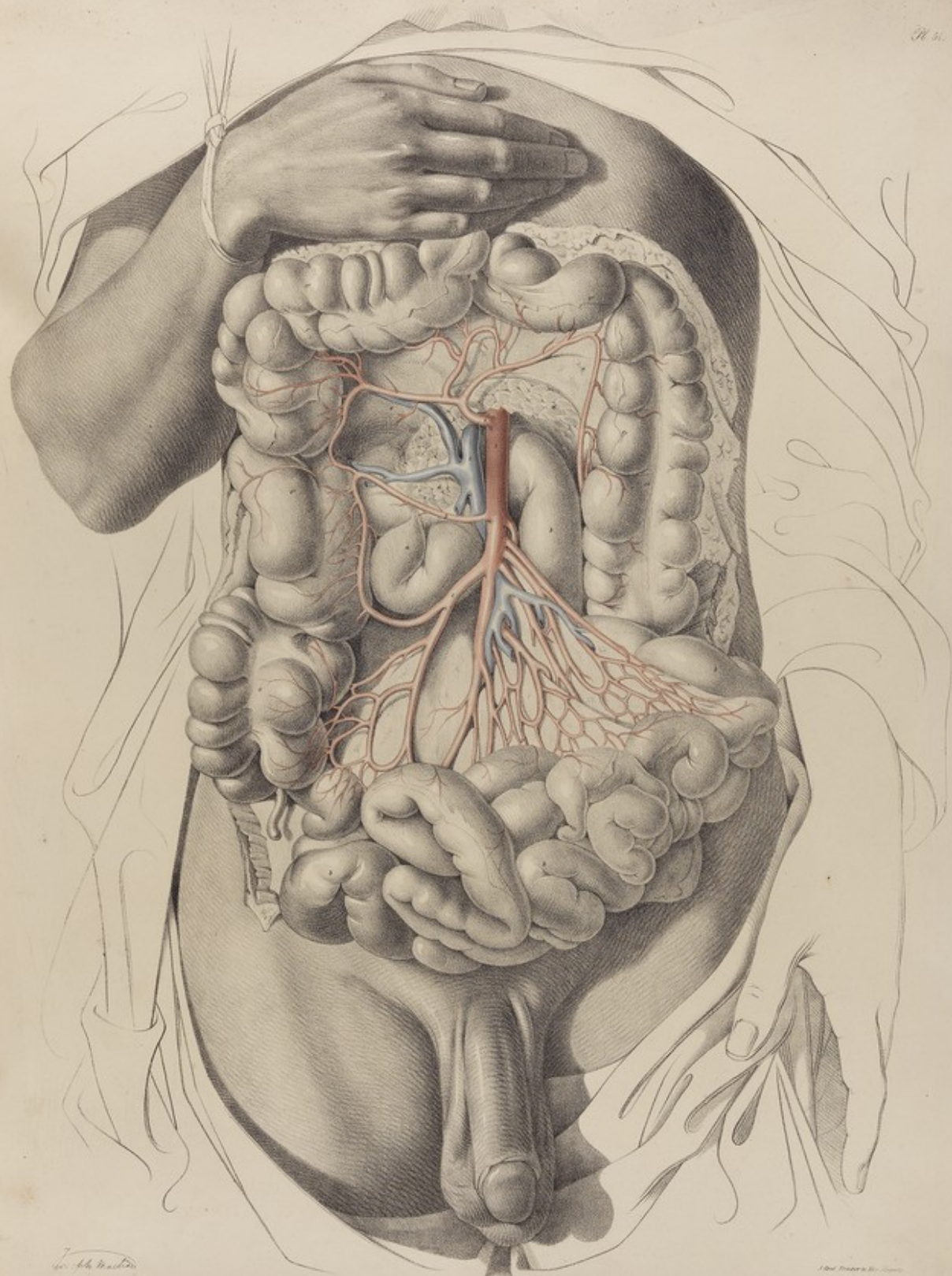


Joseph Muller

London: Taylor & Walton, Upper Cover Street.

J. Goussier del. et sculp.

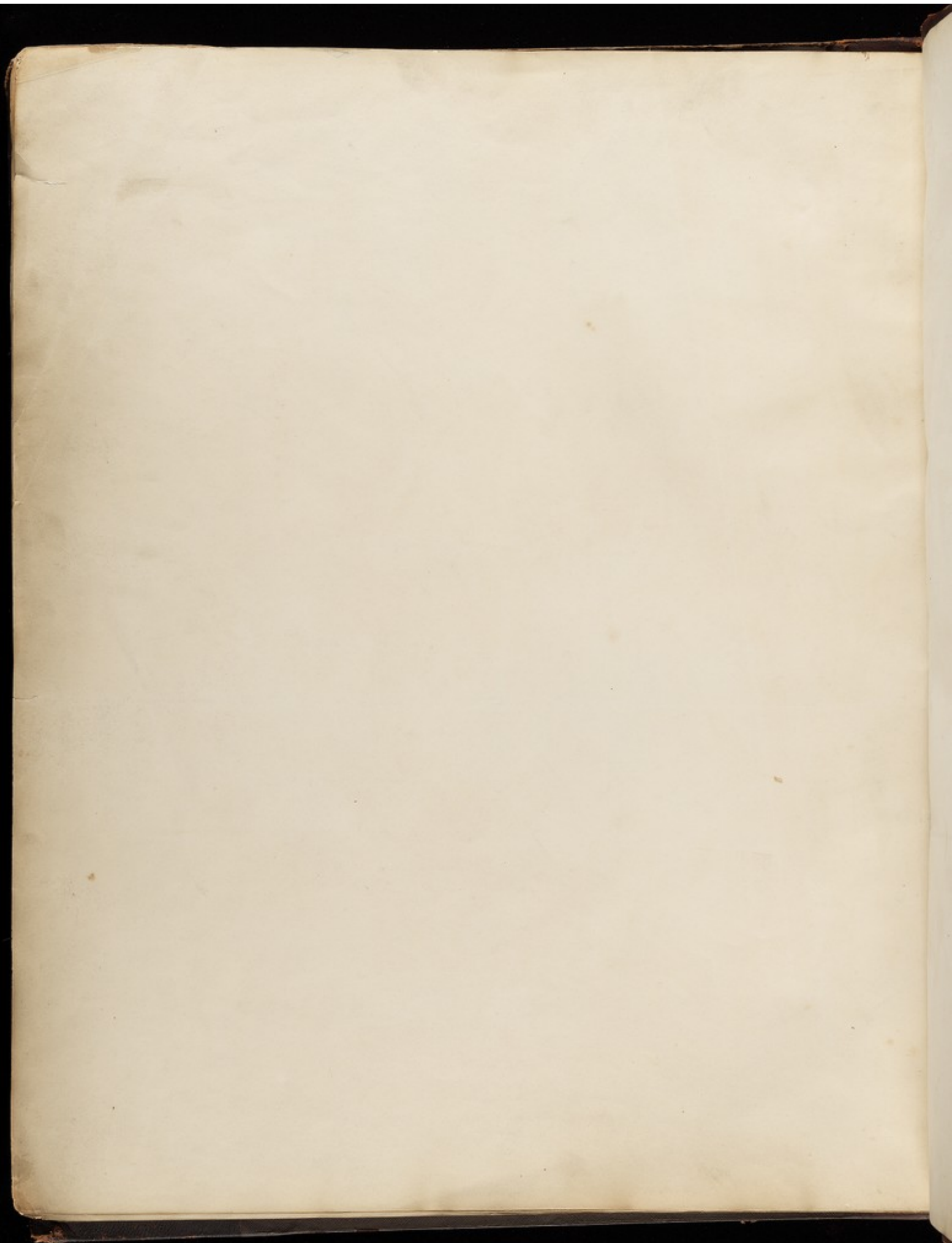




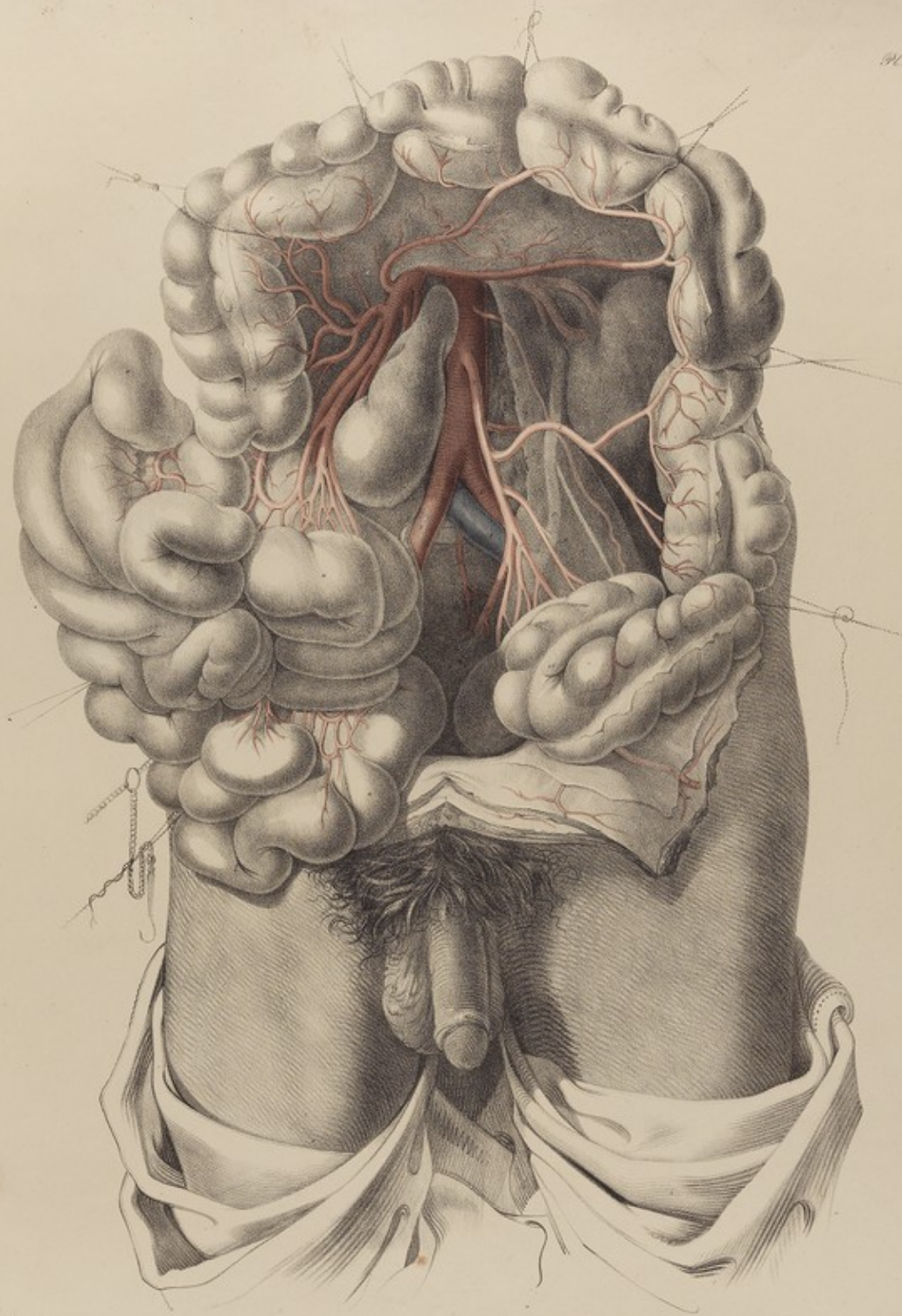
J. G. Kneller del.

London, Taylor & Walton, Upper Cover Street.

J. G. Kneller del.



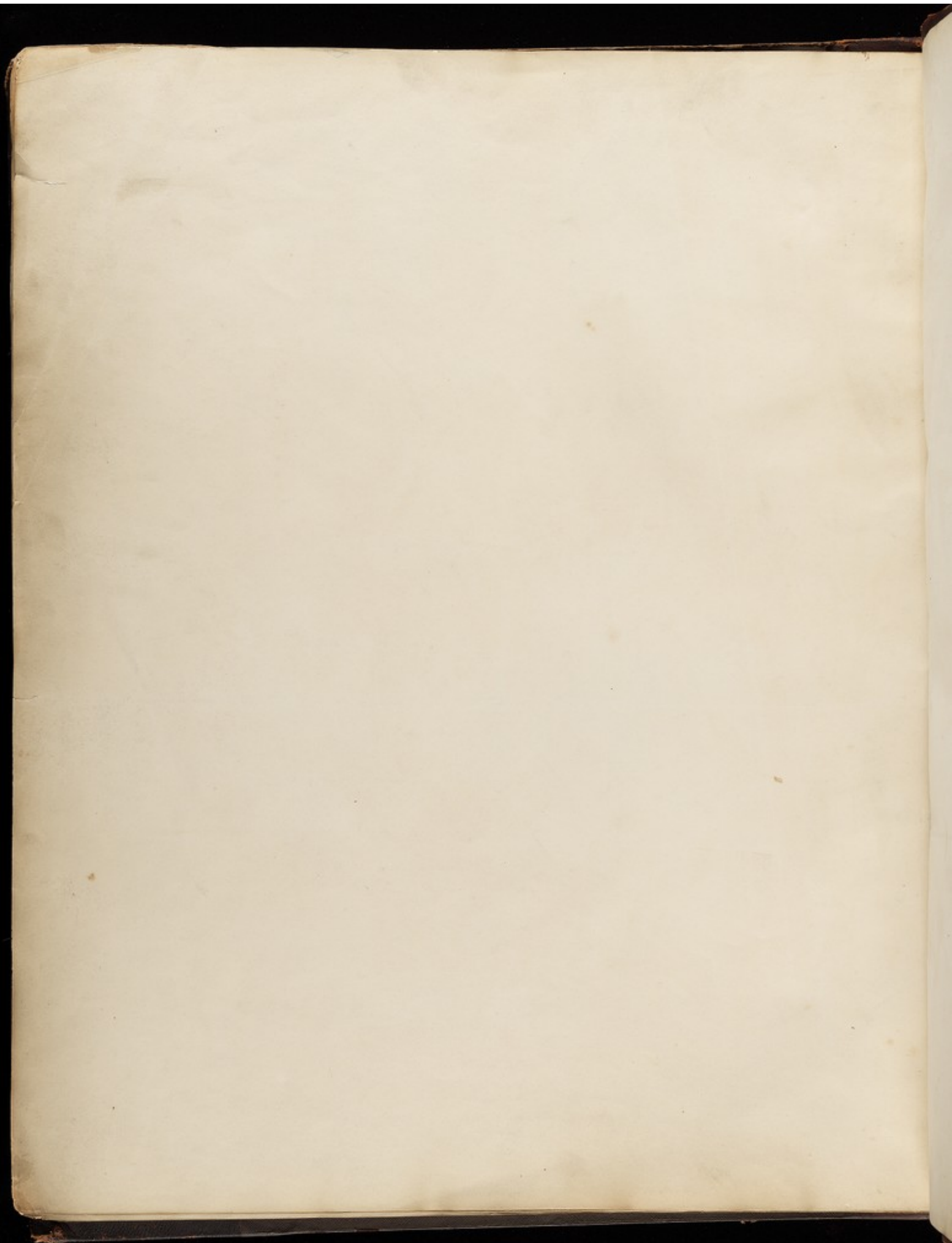
PL. 3.

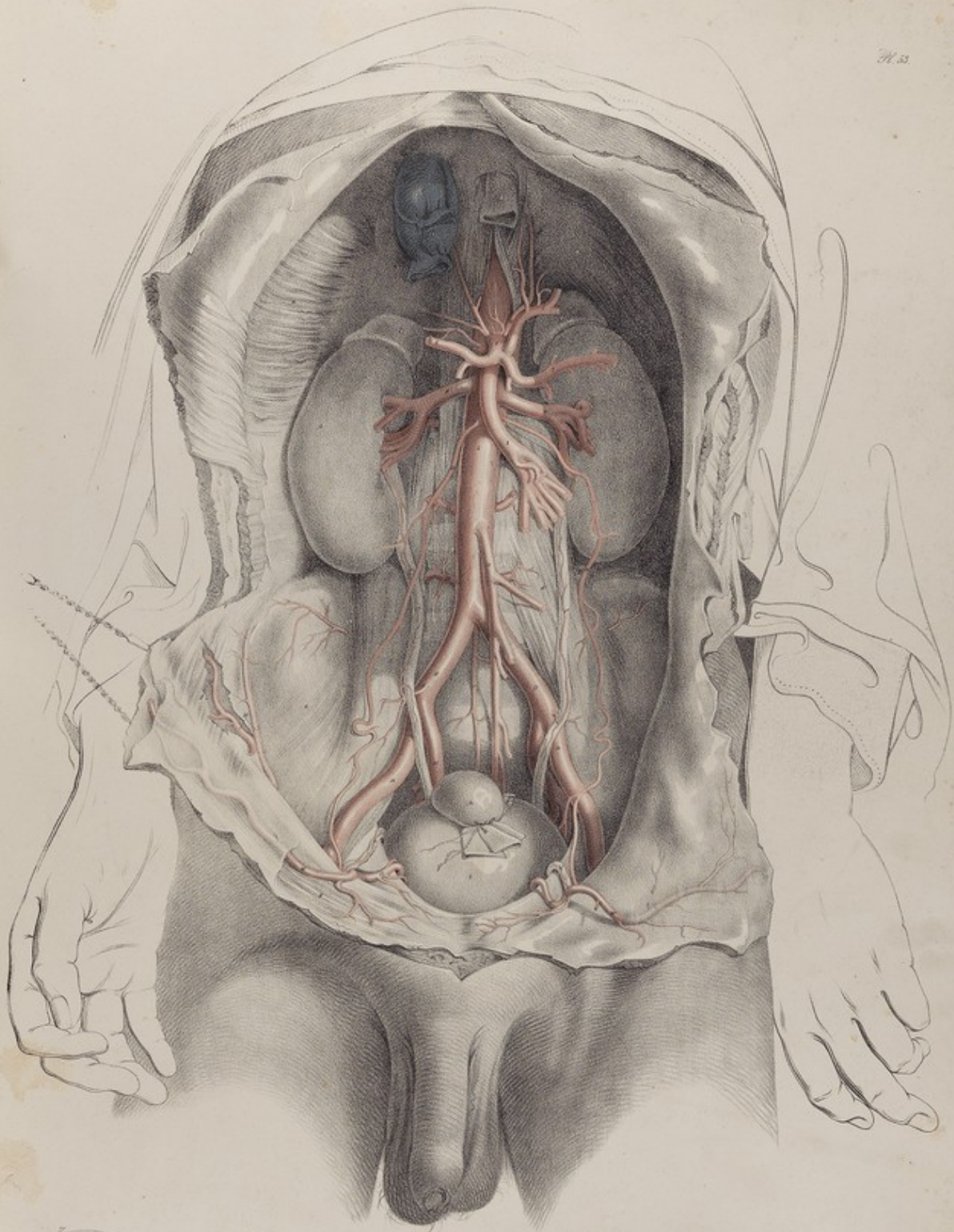


Joseph Martin

London, Taylor & Walton, Upper Gower Street.

J. Smith, Printer to the Royal Society.

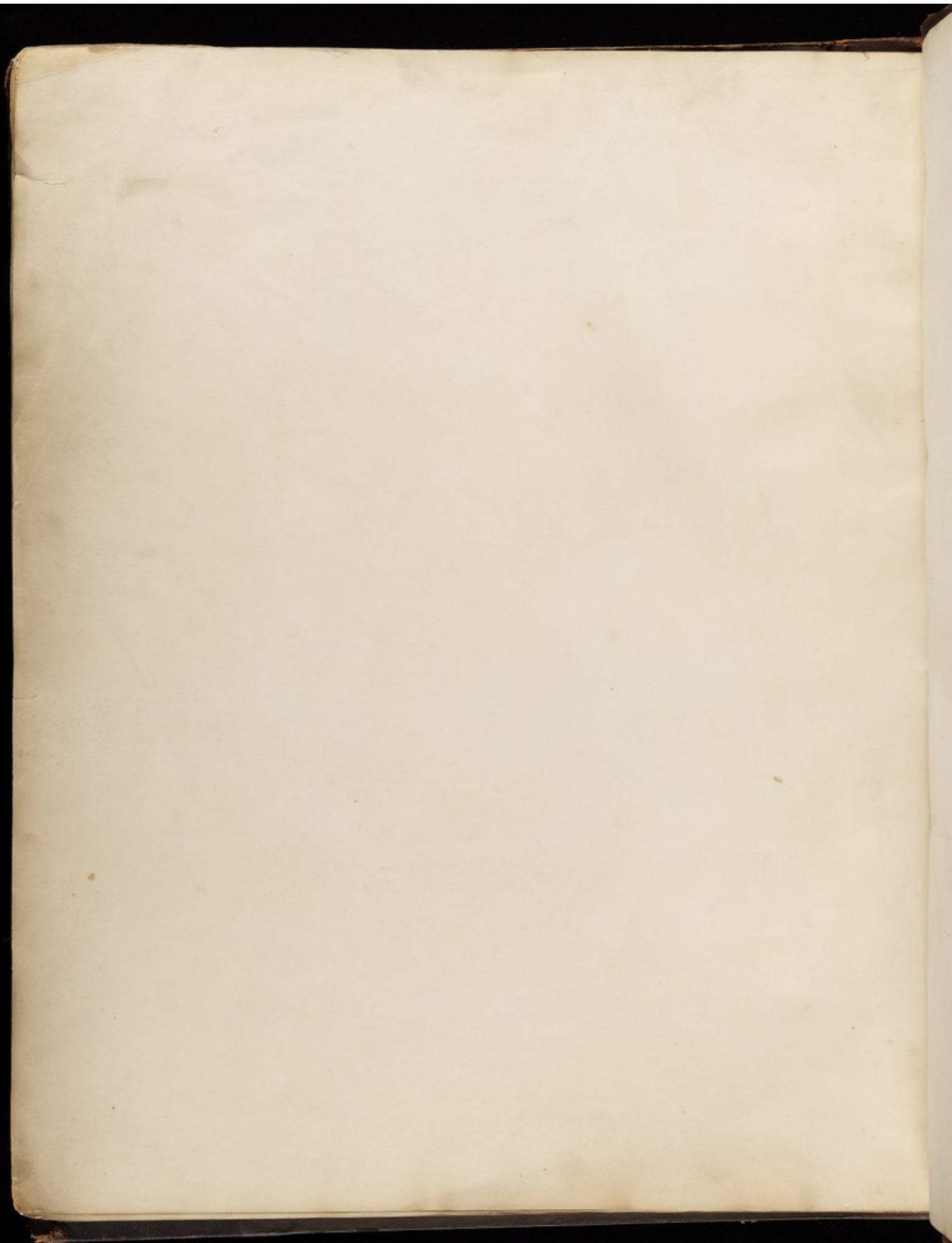


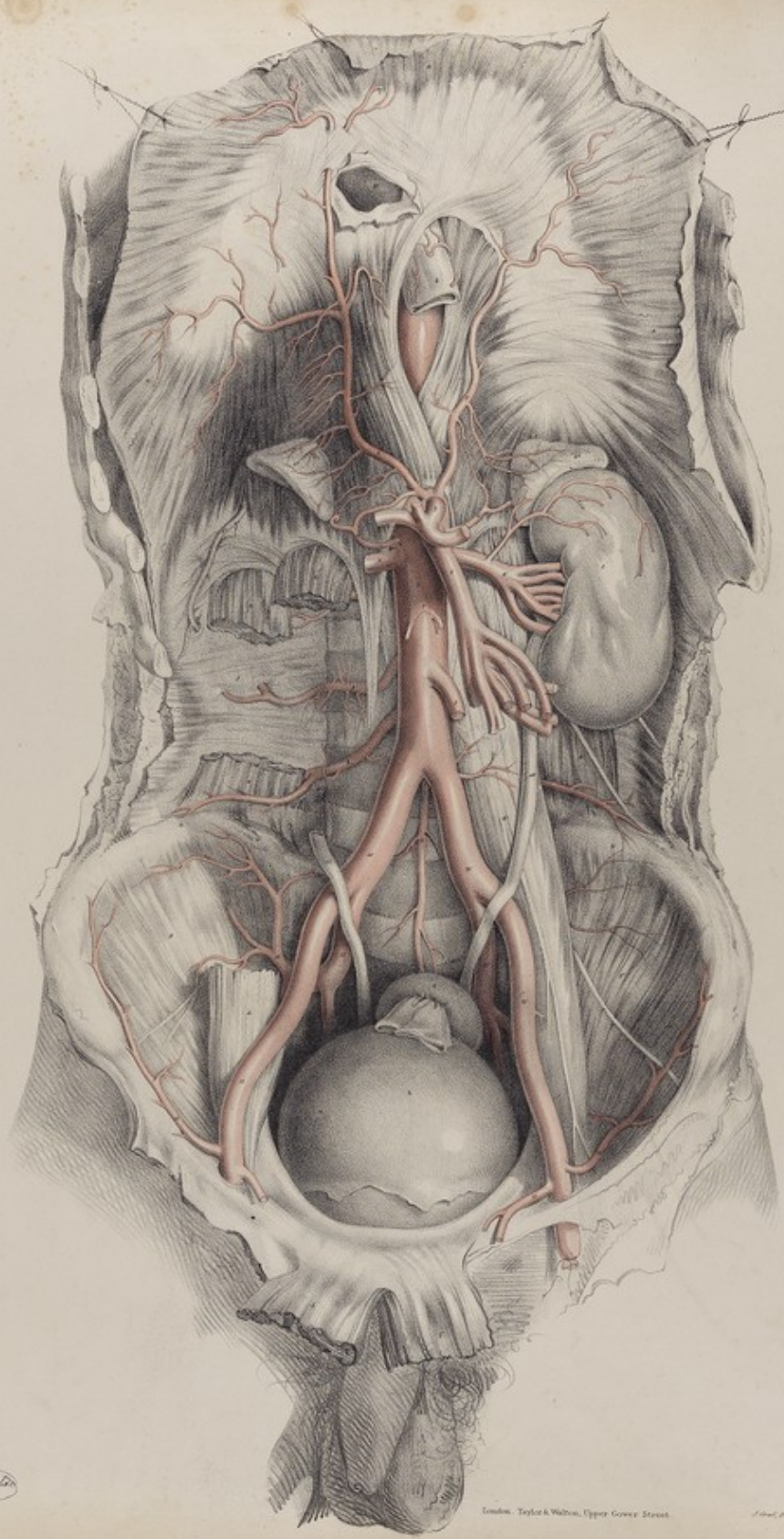


Joseph Martin

London, Taylor & Walton, Upper Cover Street.

J. Goussier del. et sculp.

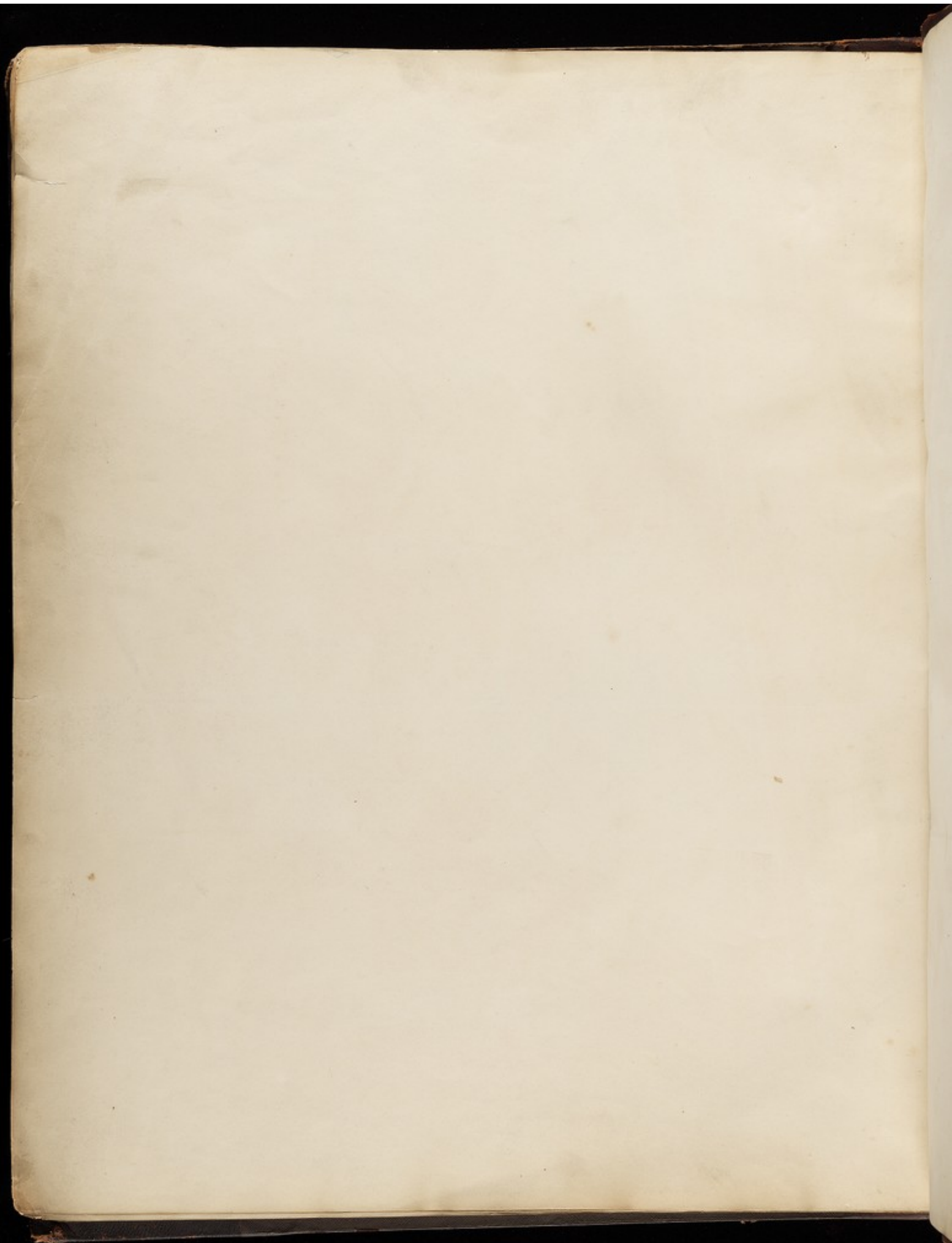


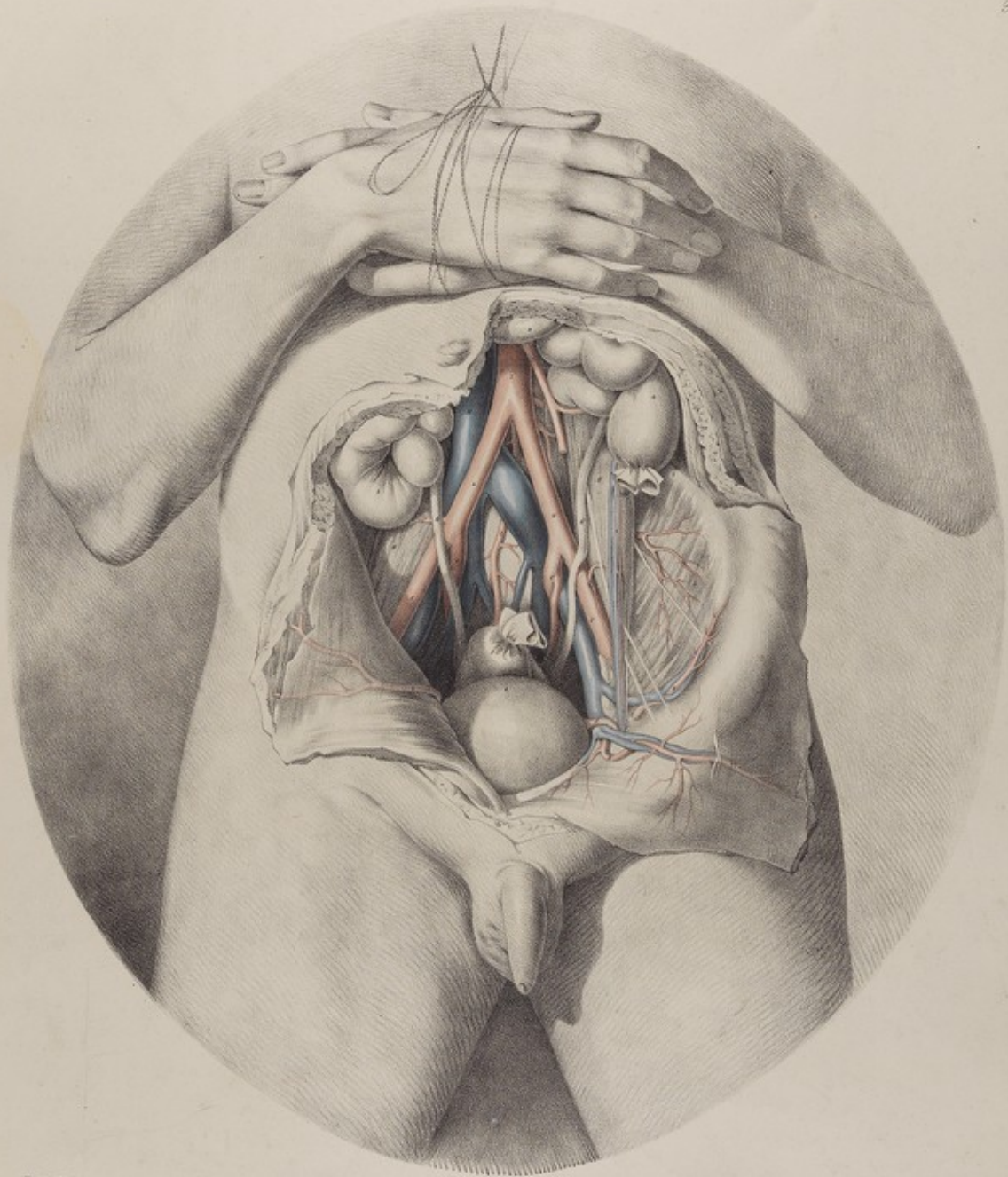


Joseph Madden

London, Taylor & Walton, Upper Currier Street

J. Smith, Printer to the Author

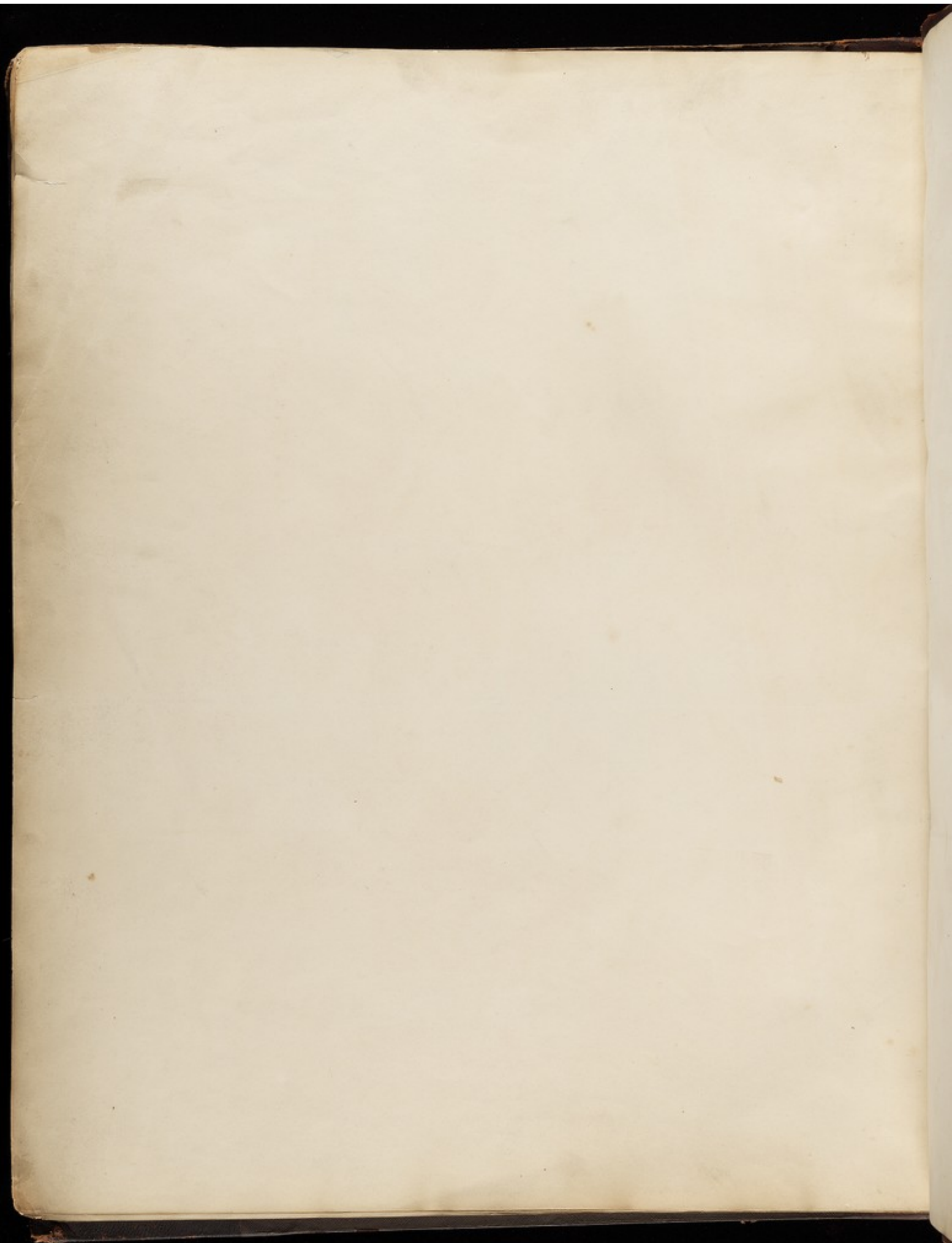


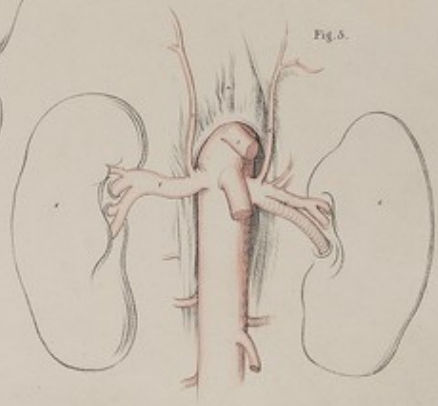
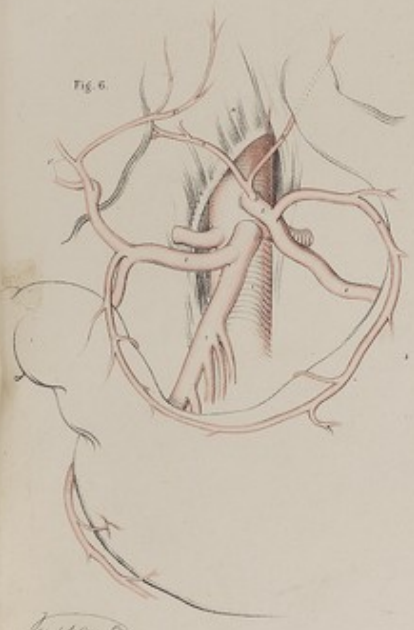
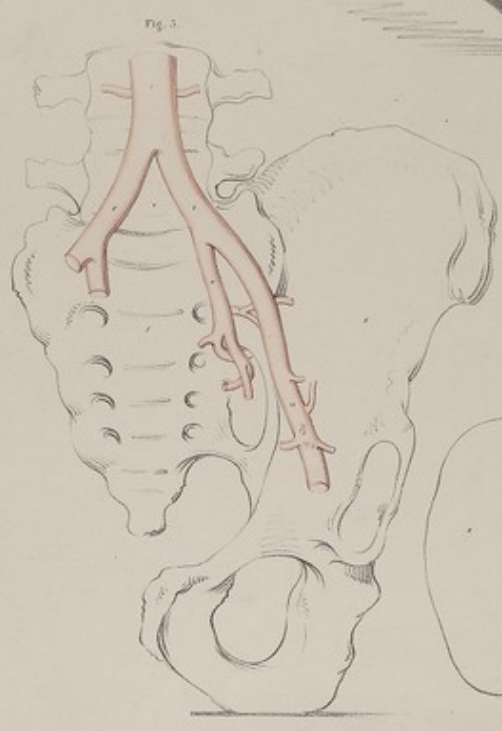
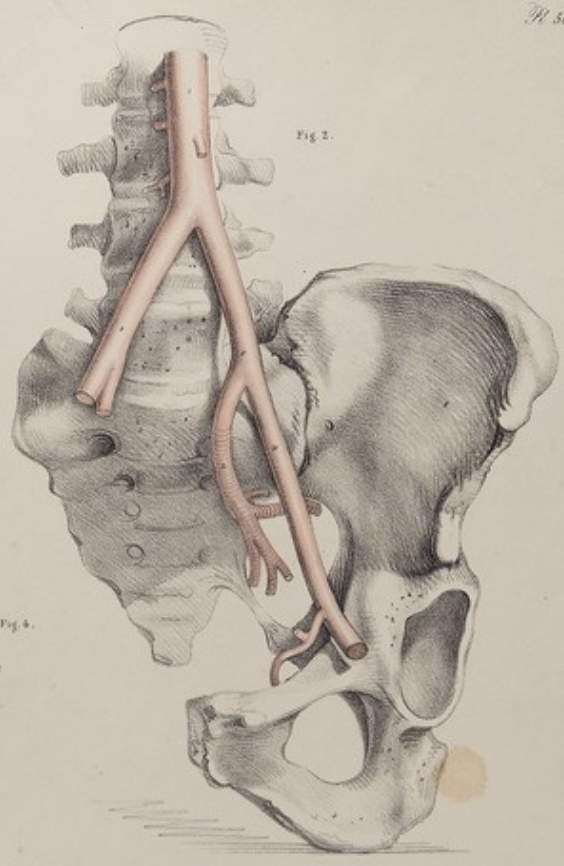
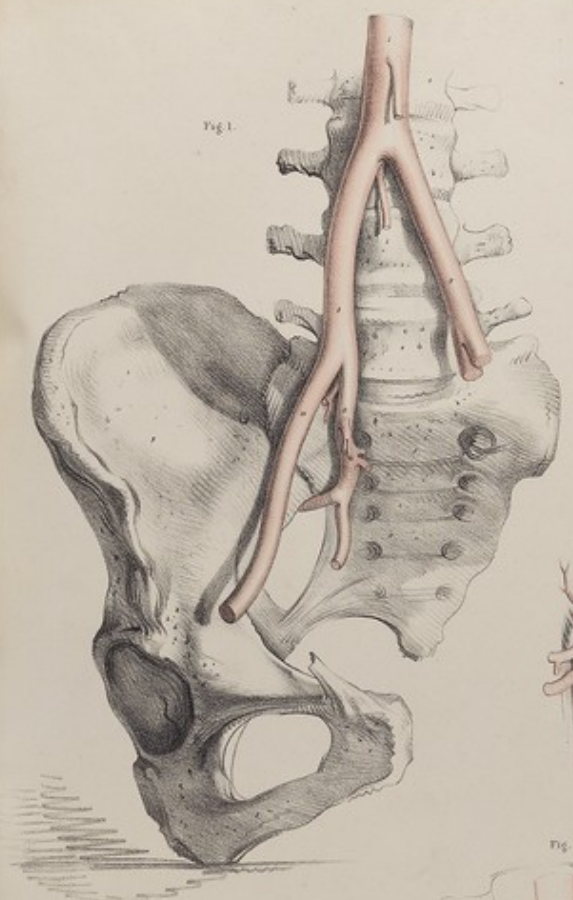


Joseph Martin

London: Taylor & Walton, Upper Cowcross Street.

J. Hall, Sculp. in the Figure.





Joseph Martin

London, Taylor & Walton, Upper Green Street.

Chas. Bell & the Engraver

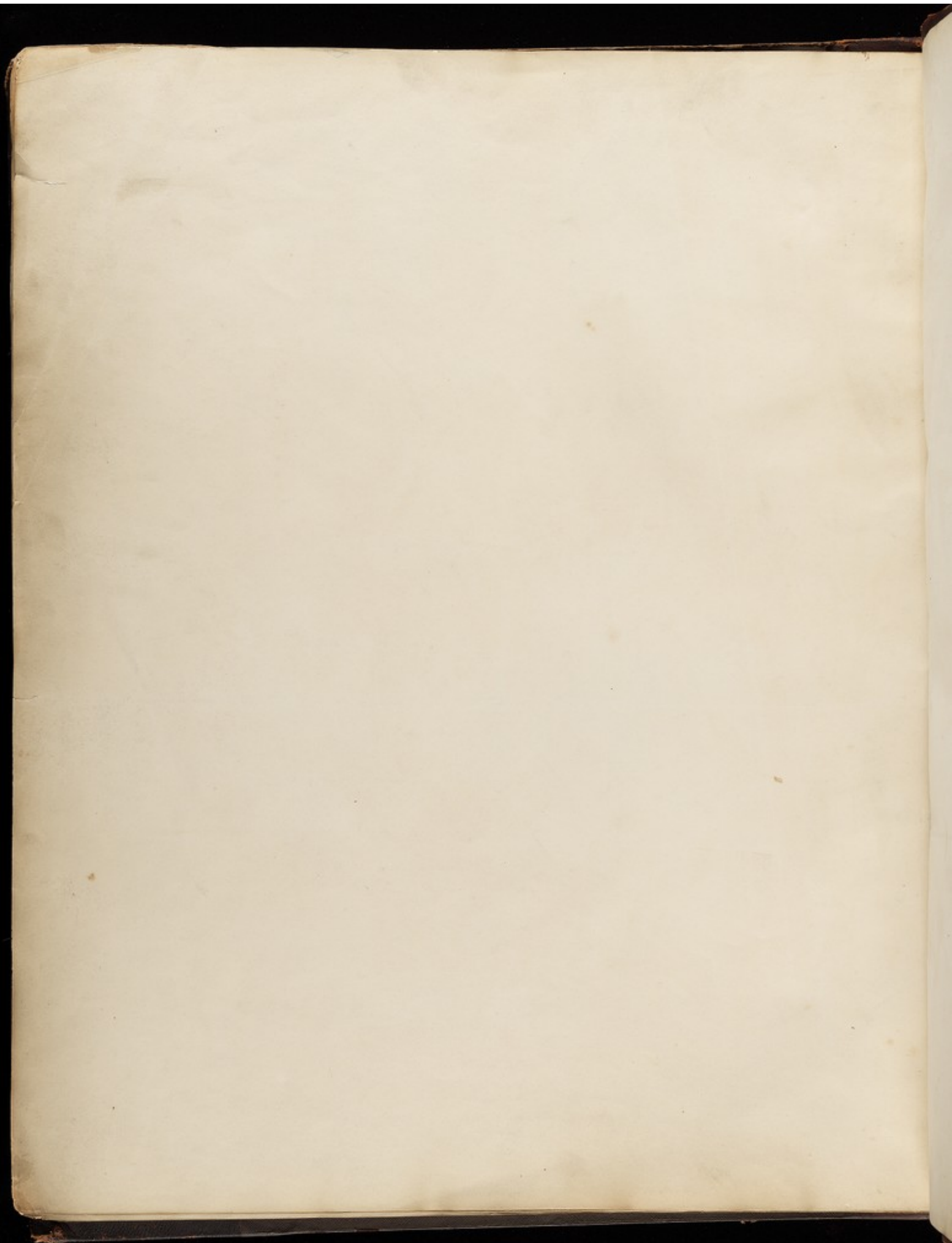


Fig. 1.

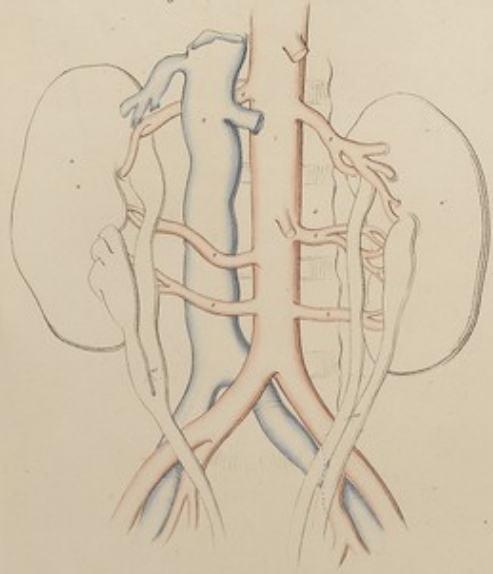


Fig. 2.



Fig. 3.

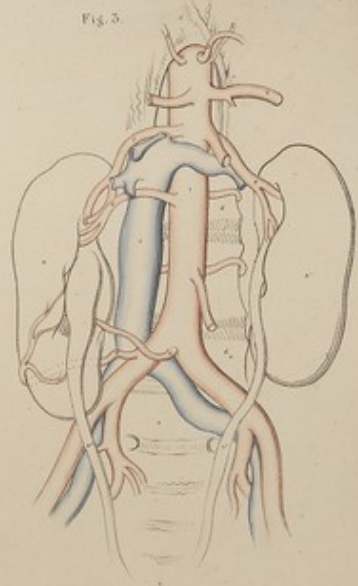


Fig. 4.

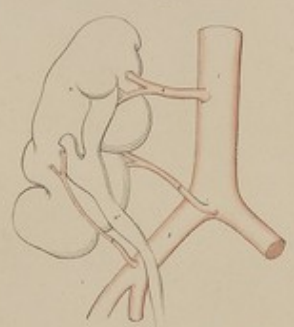


Fig. 5.



Fig. 6.

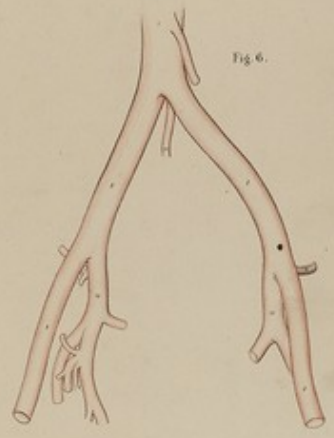


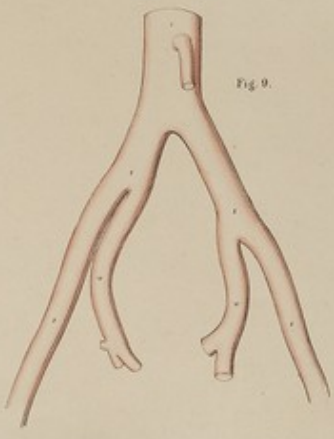
Fig. 7.



Fig. 8.



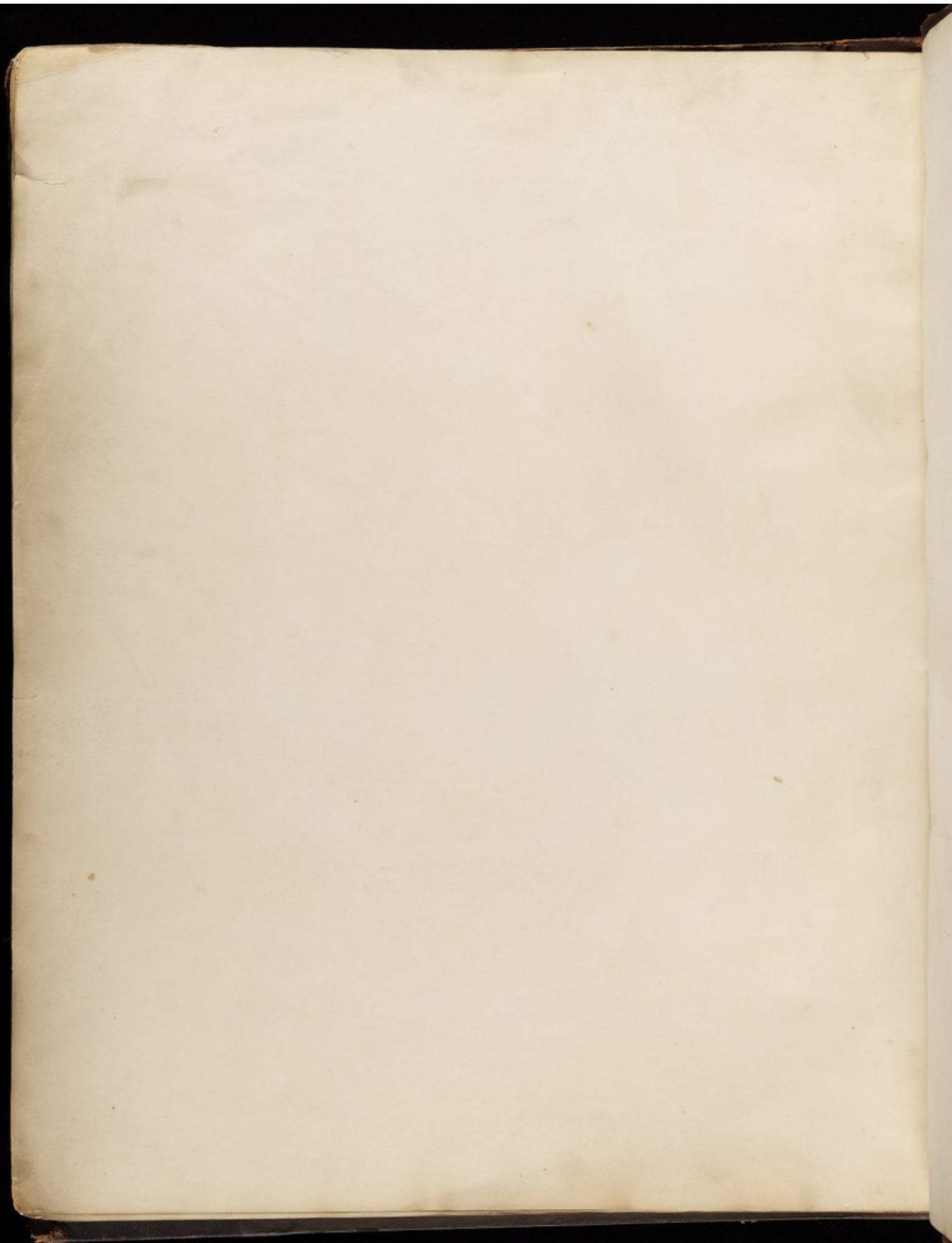
Fig. 9.

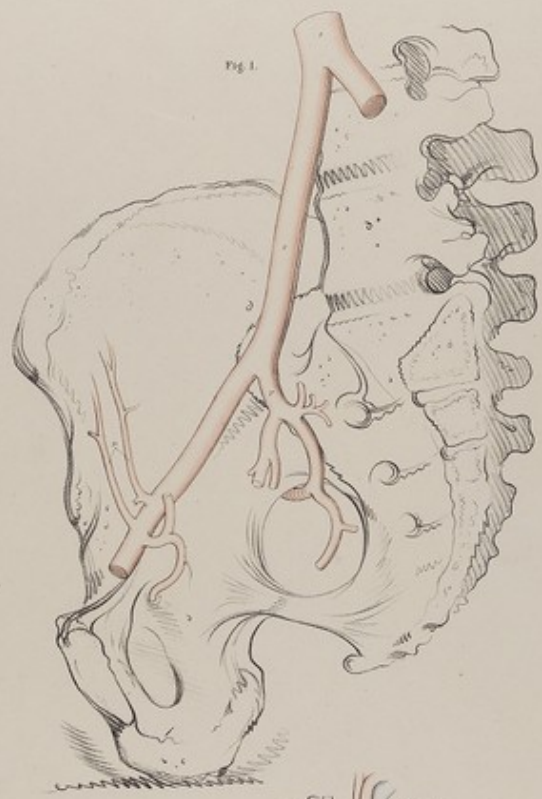
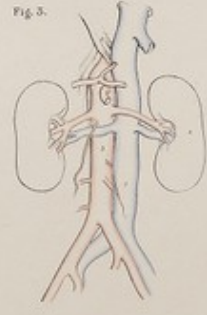


W. Woodcut.

London, Taylor & Walton, Upper Green Street.

C. Nees, Printer to the King.

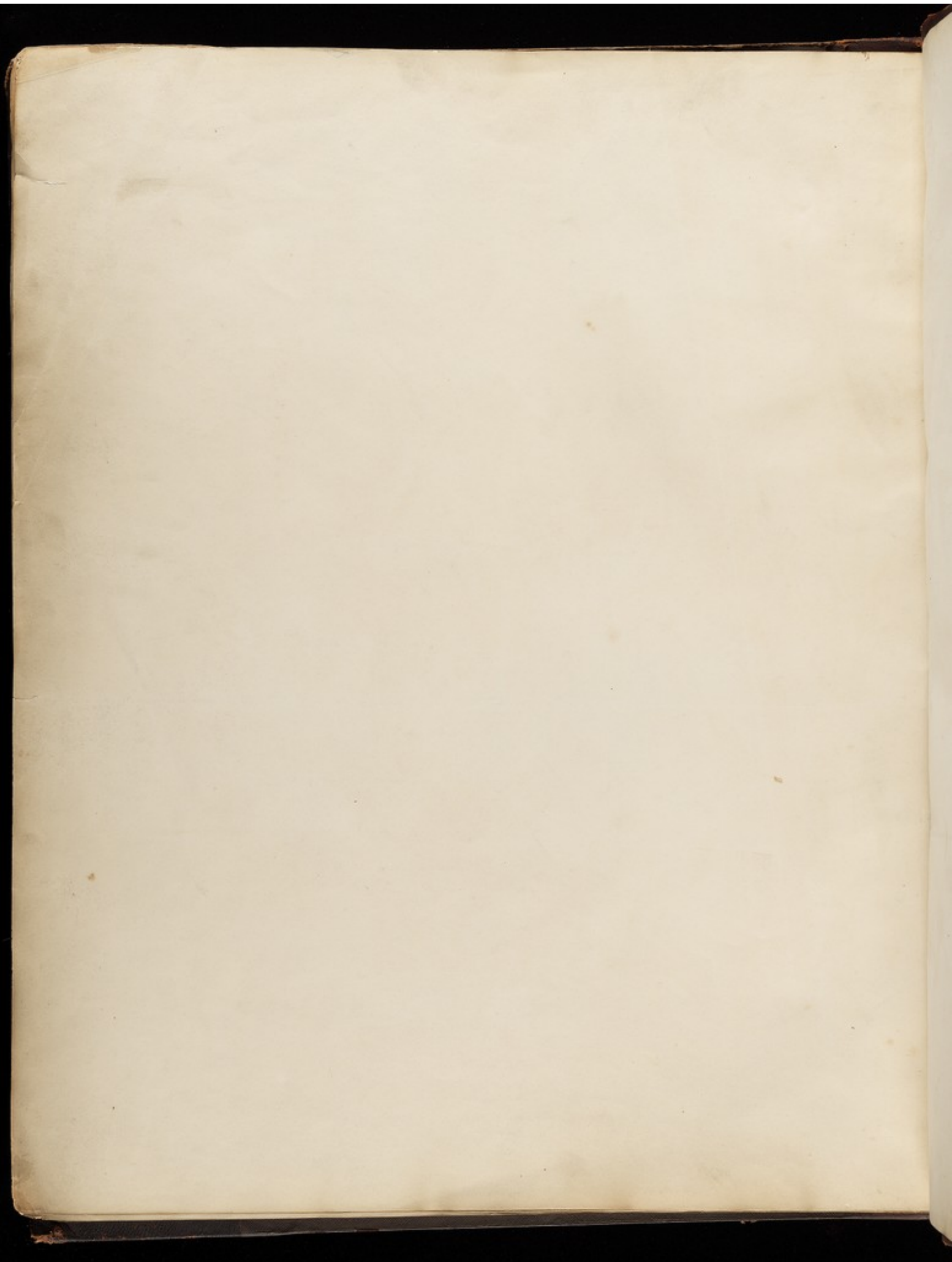


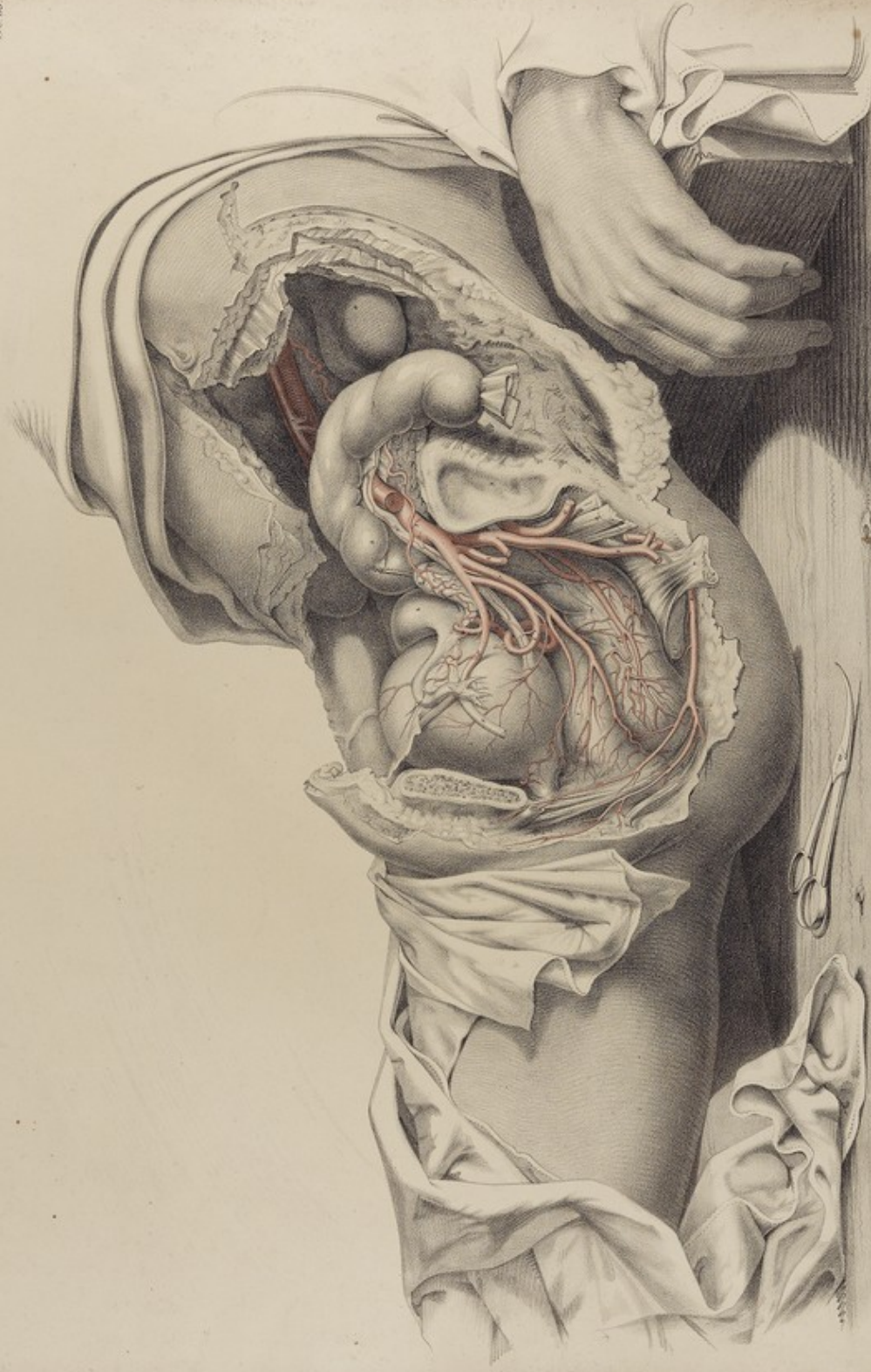


Joseph Maudslayi

London, Taylor & Walton, Upper Green Street.

C. and P. Printer to Her Majesty

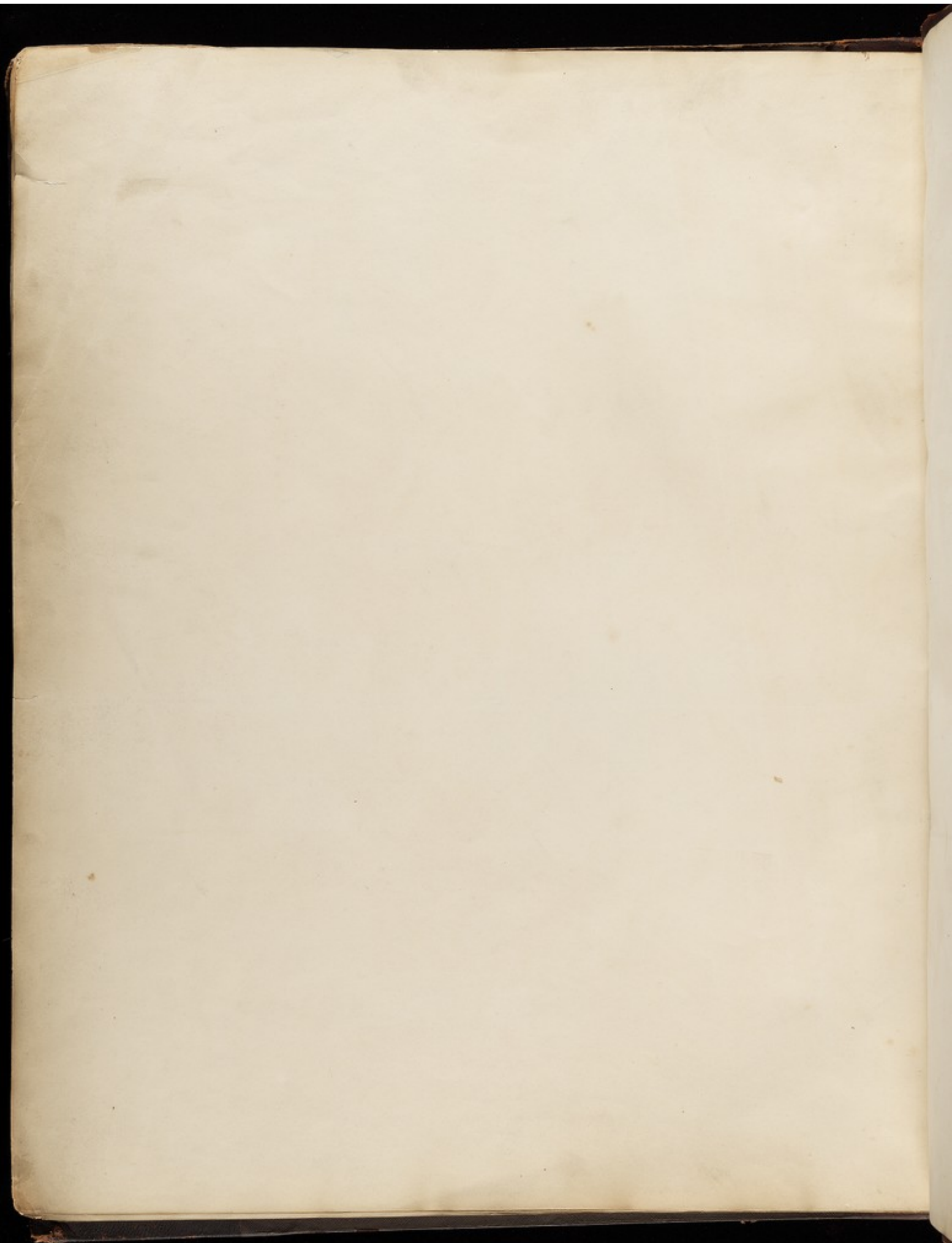




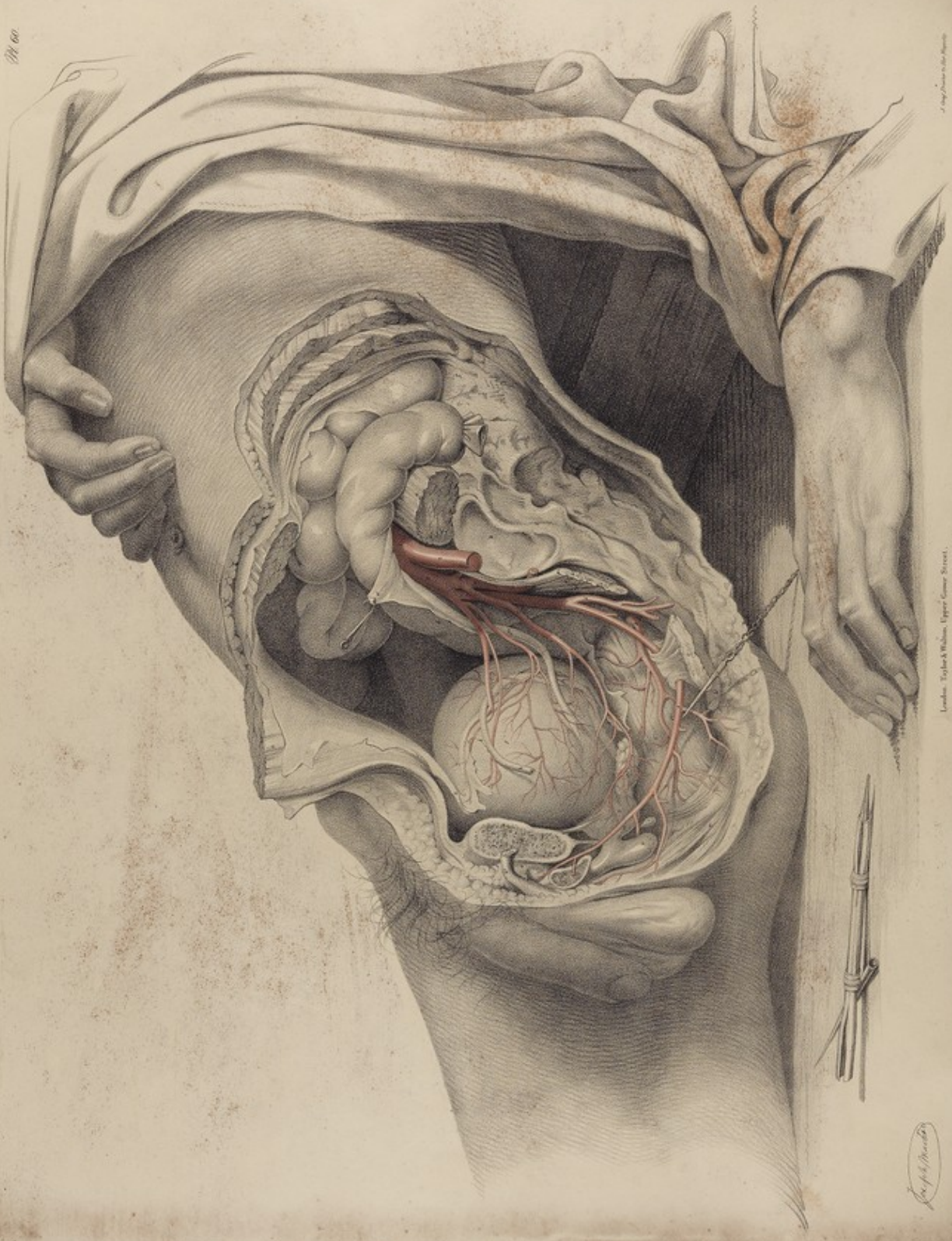
J. Wandelaar del. et sculp.

London, Taylor & Walton, Upper Cannon Street.

Joseph Wandelaar



Pl. 60

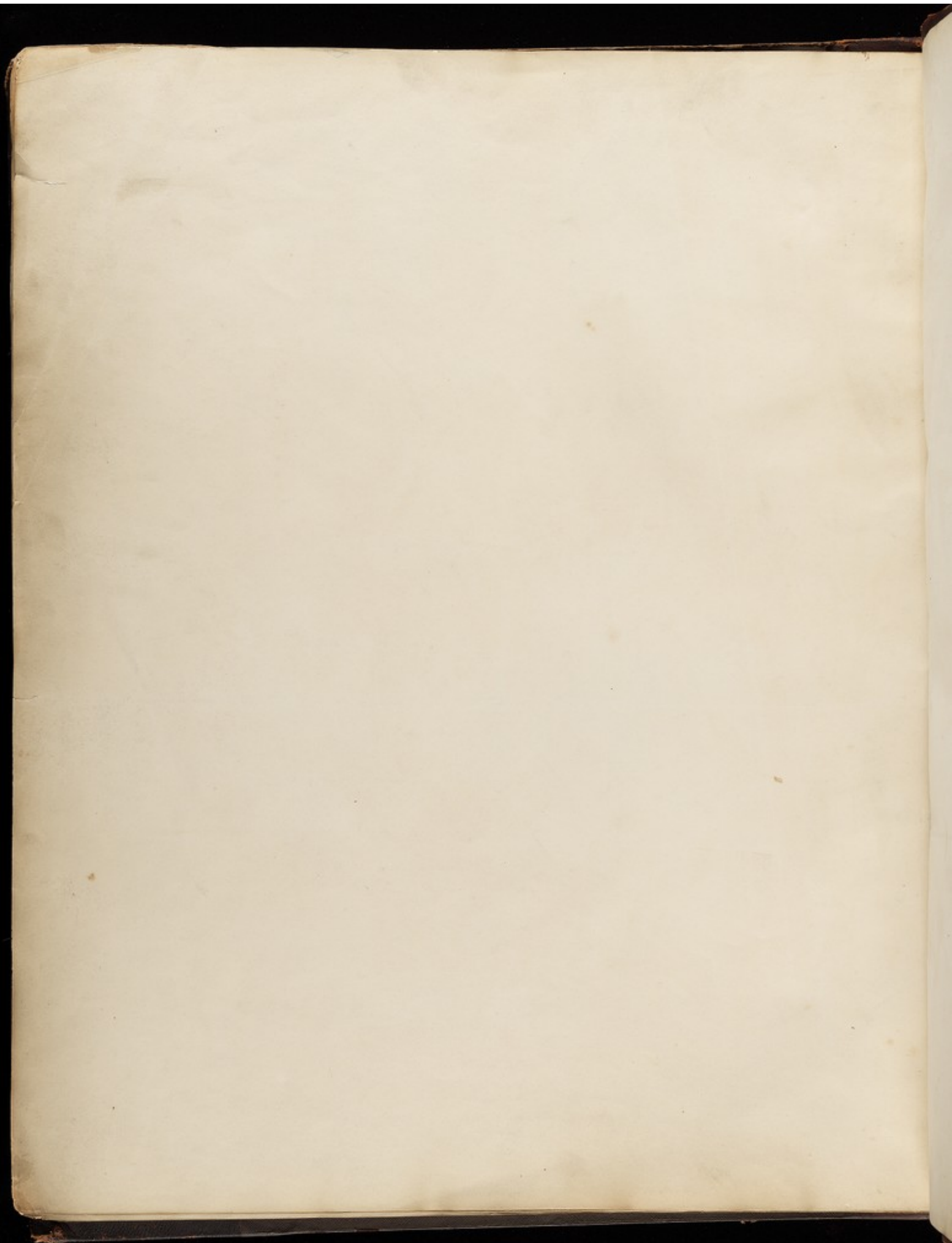


J. Wandelaar del. et sculp.

London: Taylor & Walton, Upper Corner Street.



J. Wandelaar sculp.

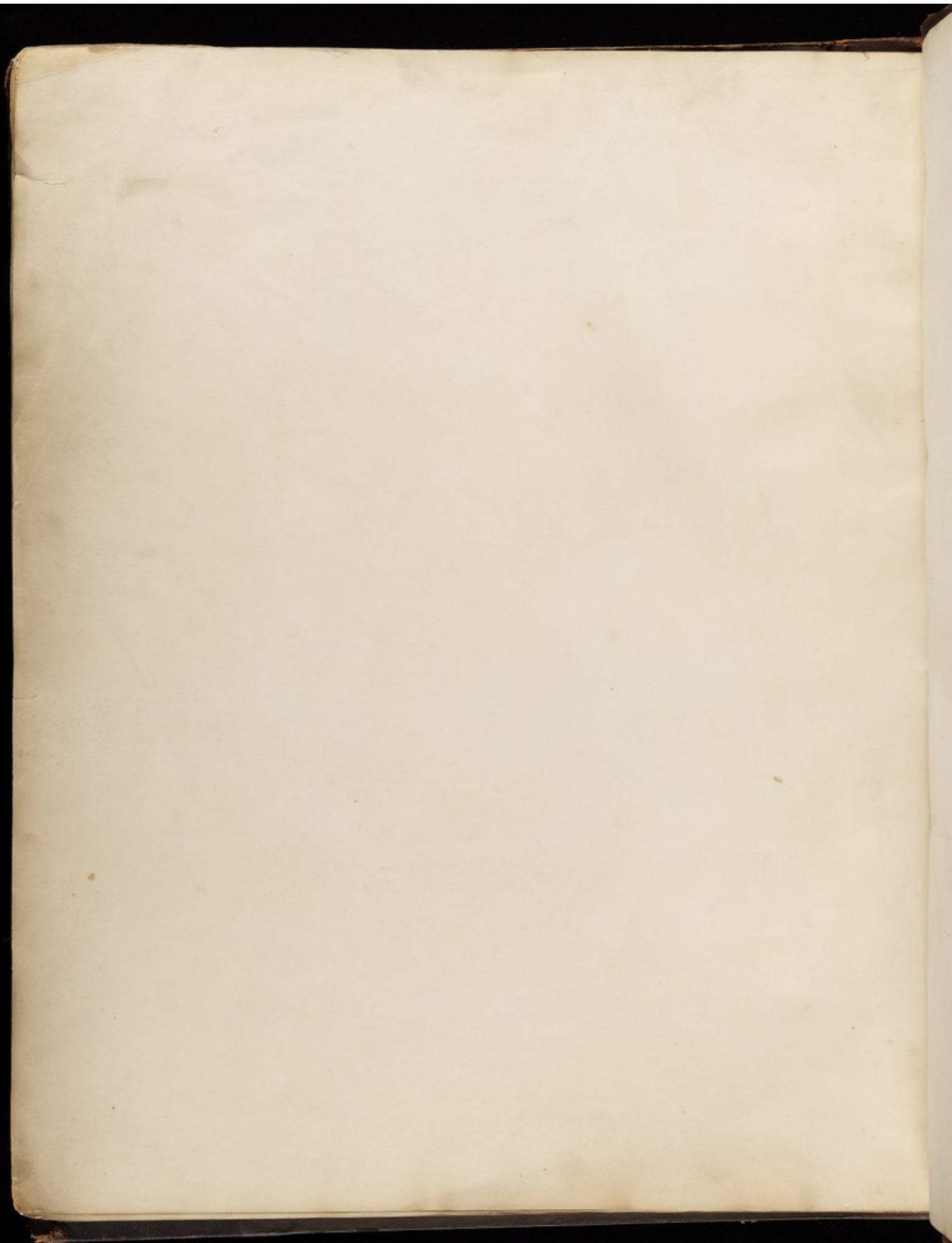




Original del. & sculp. J. Smith.

London, Taylor & Maltby, Upper Great Street.

J. Smith del.





Great Hall in the Theatre

London: Taylor & Walton, Upper Great Street.

James Smith

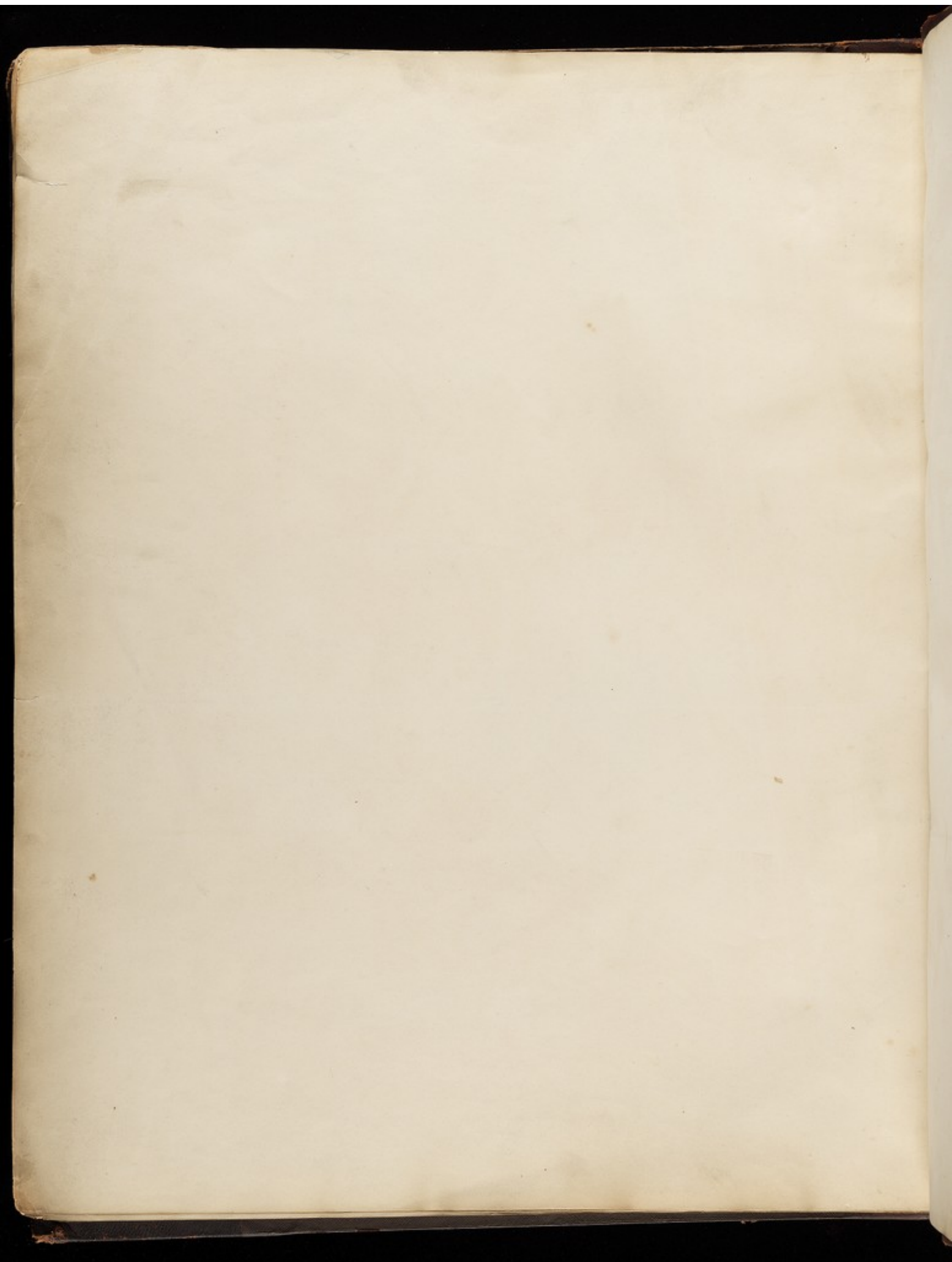


Fig. 2.

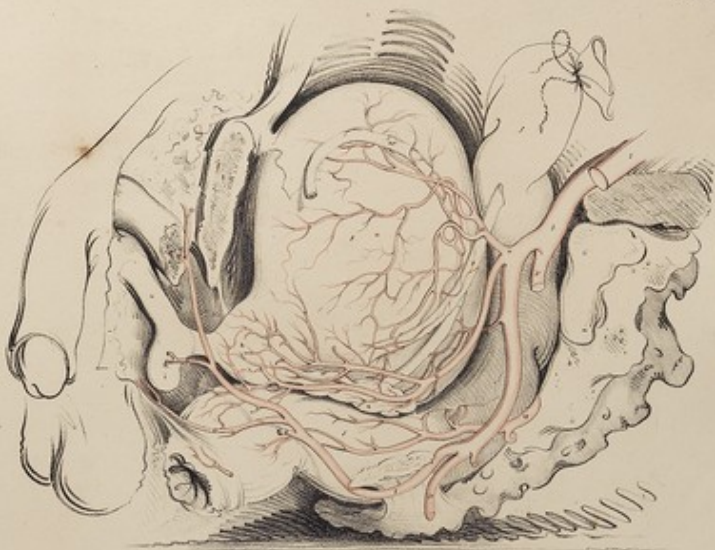


Fig. 4.



Fig. 3.

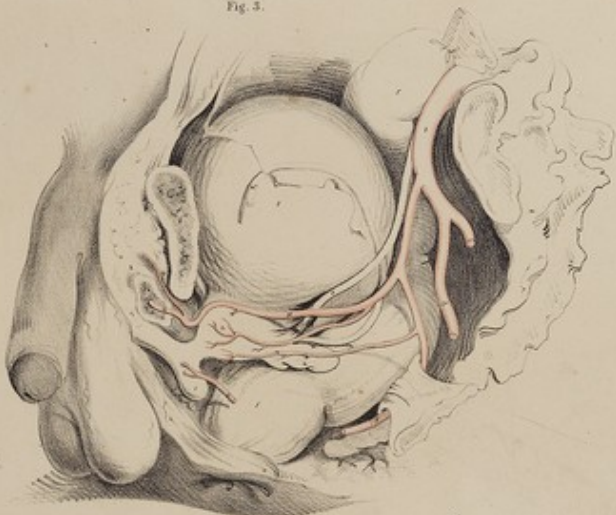


Fig. 1.

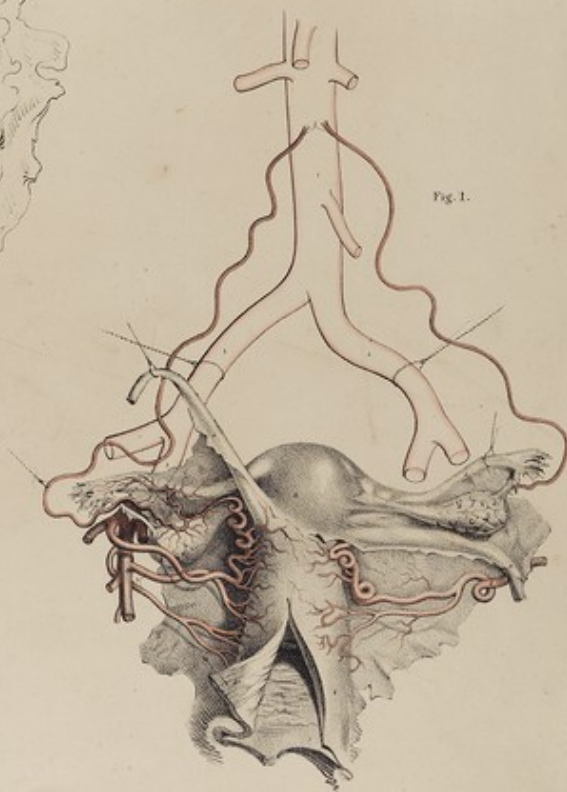


Fig. 5.



W. Woodcut.

London, Taylor & Walton, Upper Cover Street.

Joseph Martin

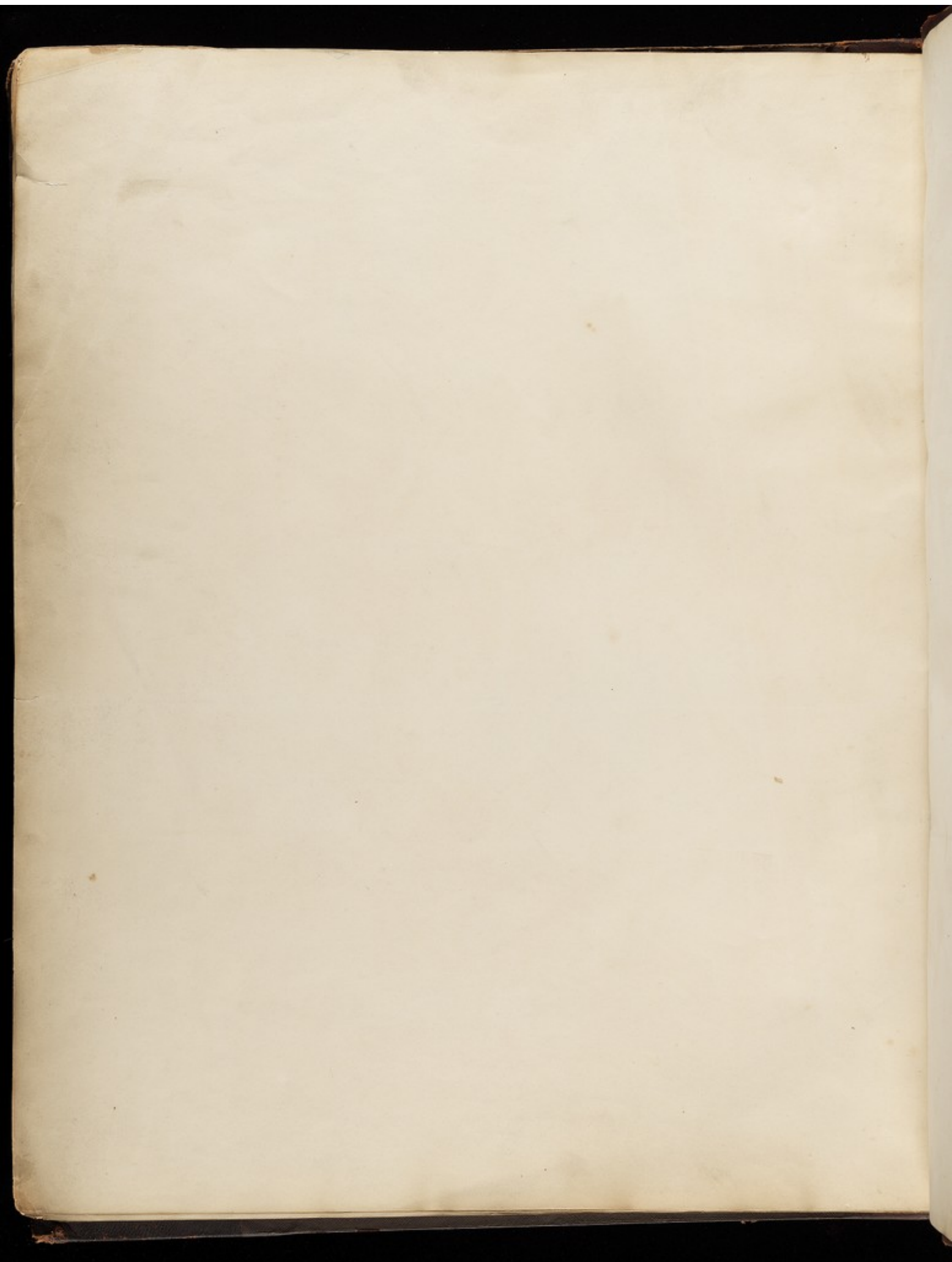


Fig. 1.



Fig. 4.

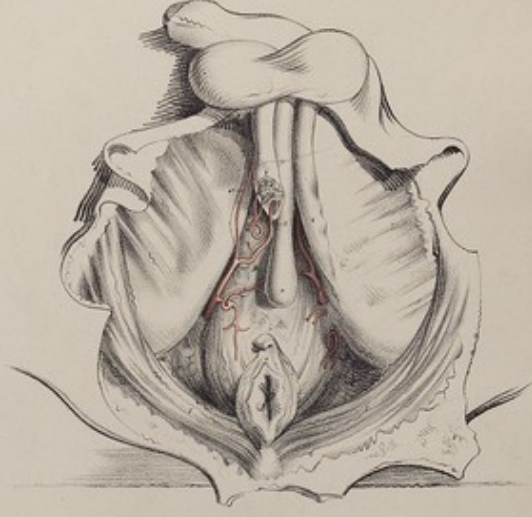
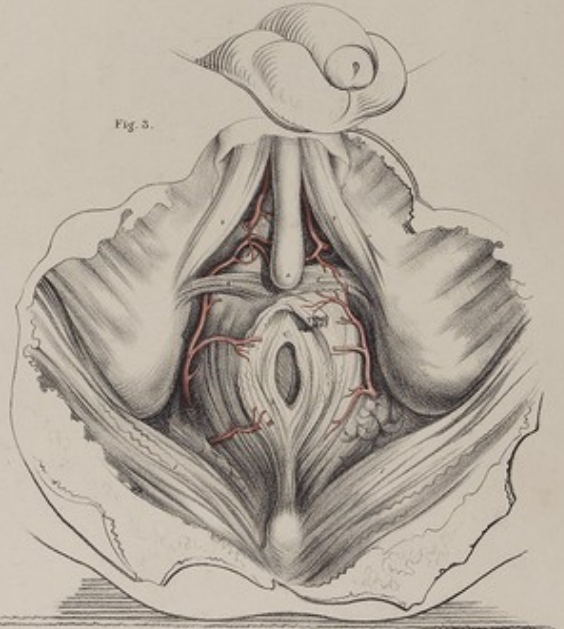


Fig. 2.



Fig. 5.



W. H. Miller

London, Taylor & Walton, Upper Gower Street.

Chas. Bell & Sons

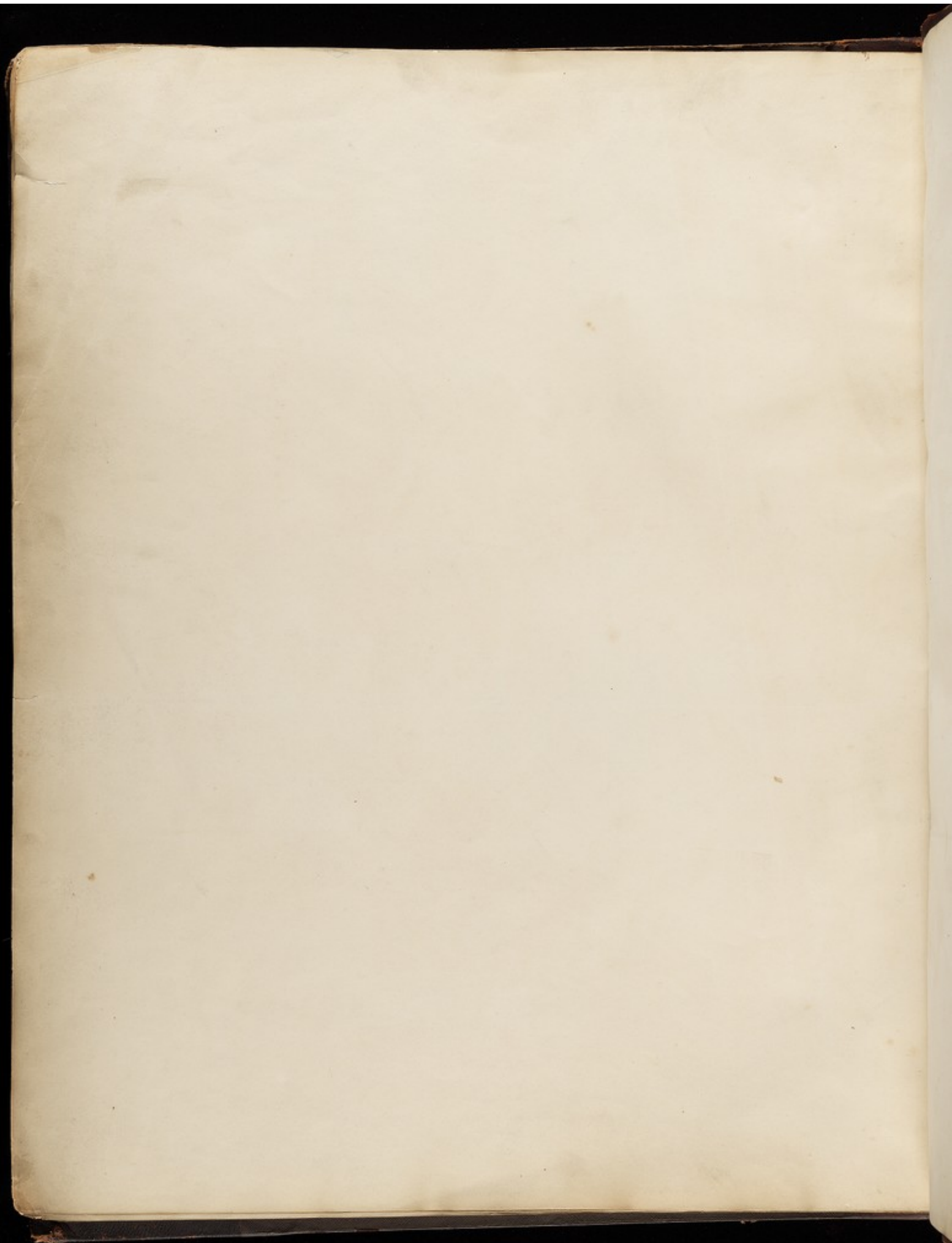


Fig 1.



Fig 2.

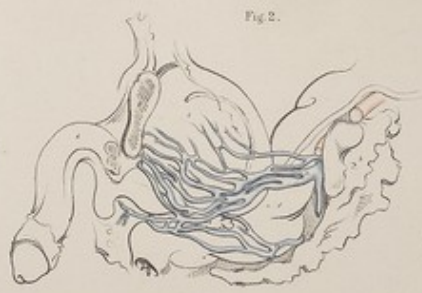


Fig 3.



Fig 4.



Fig 6.



Fig 5.



Fig 7.



Joseph Martin

London, Taylor & Walton, Upper Gower Street.

Chas. Bell & Co. Sculp.

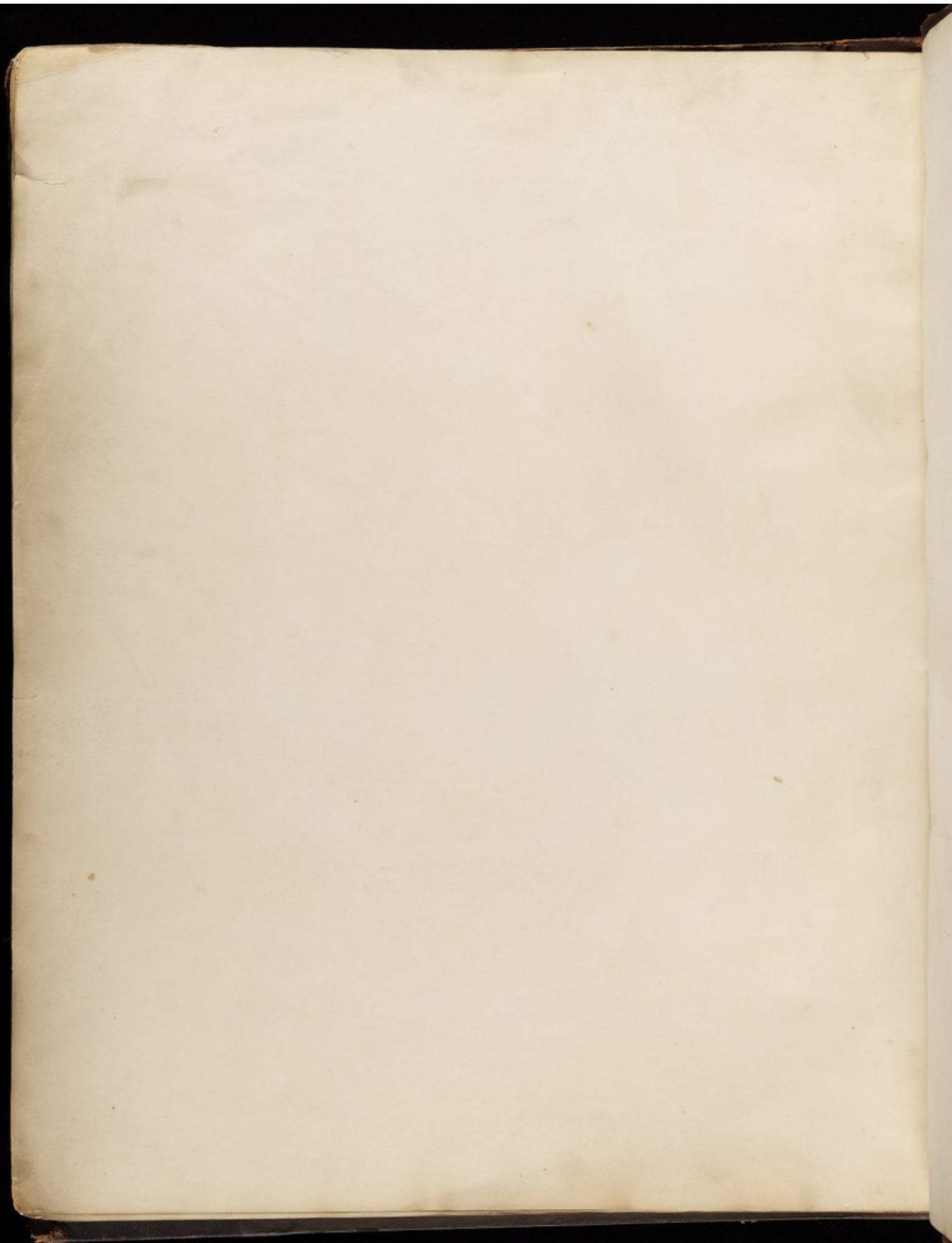


Fig. 1.

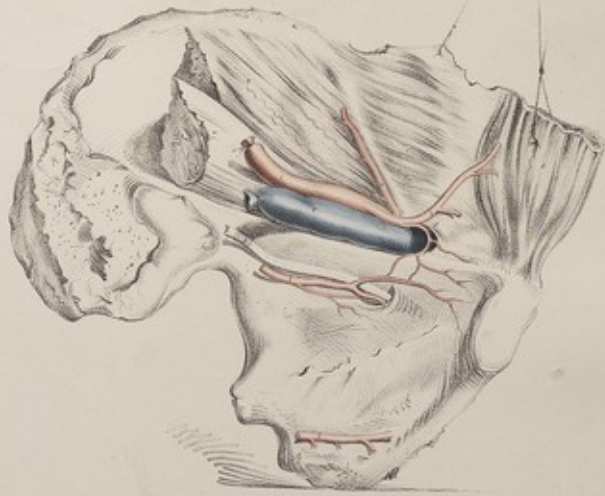


Fig. 4.

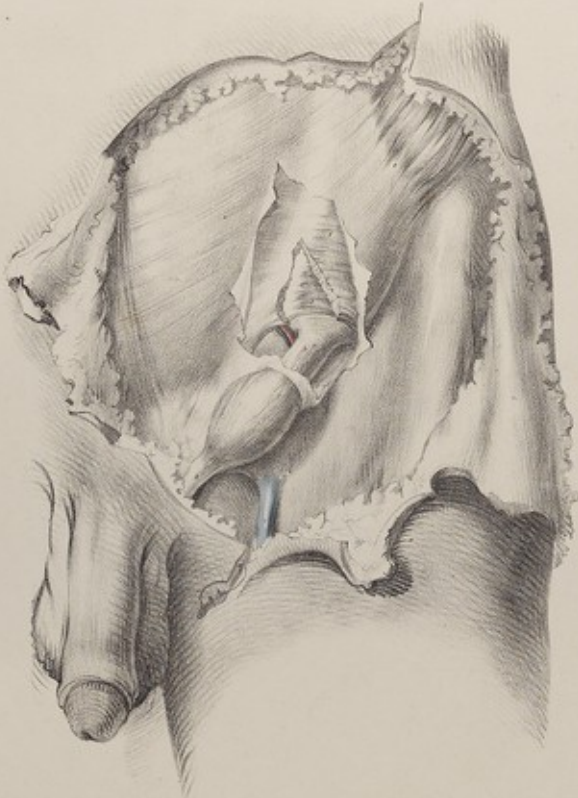


Fig. 2.

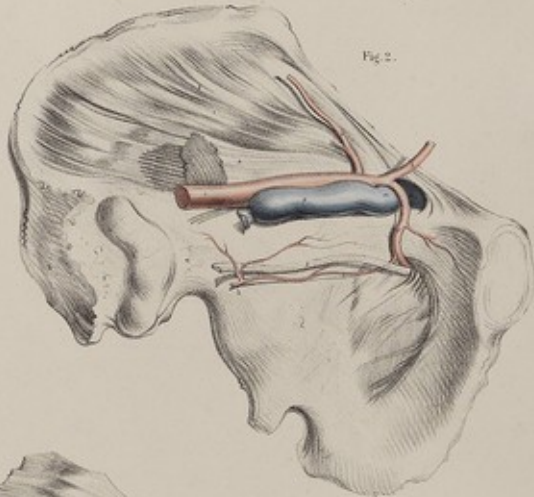
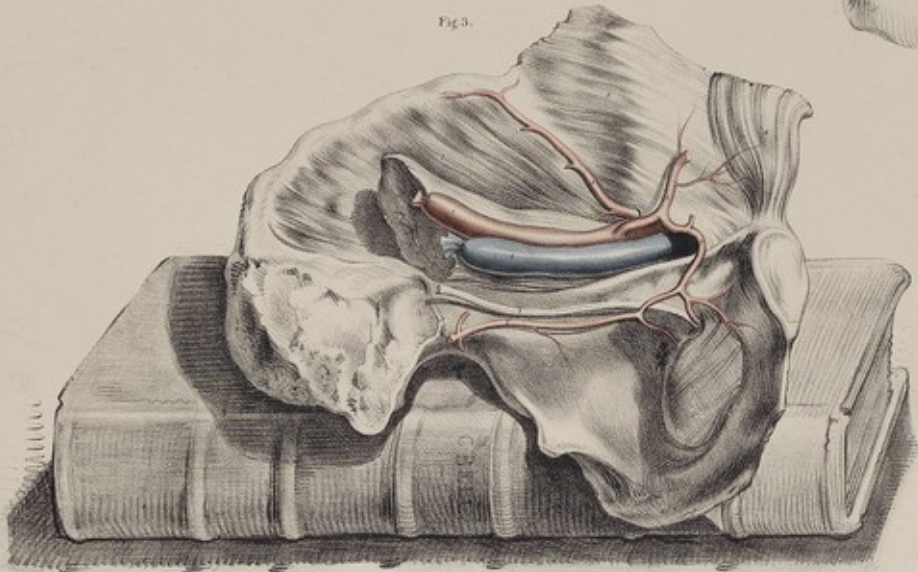


Fig. 3.



Joseph Master

London, Taylor & Walton, Upper Gower Street.

Printed by R. D. Baynes

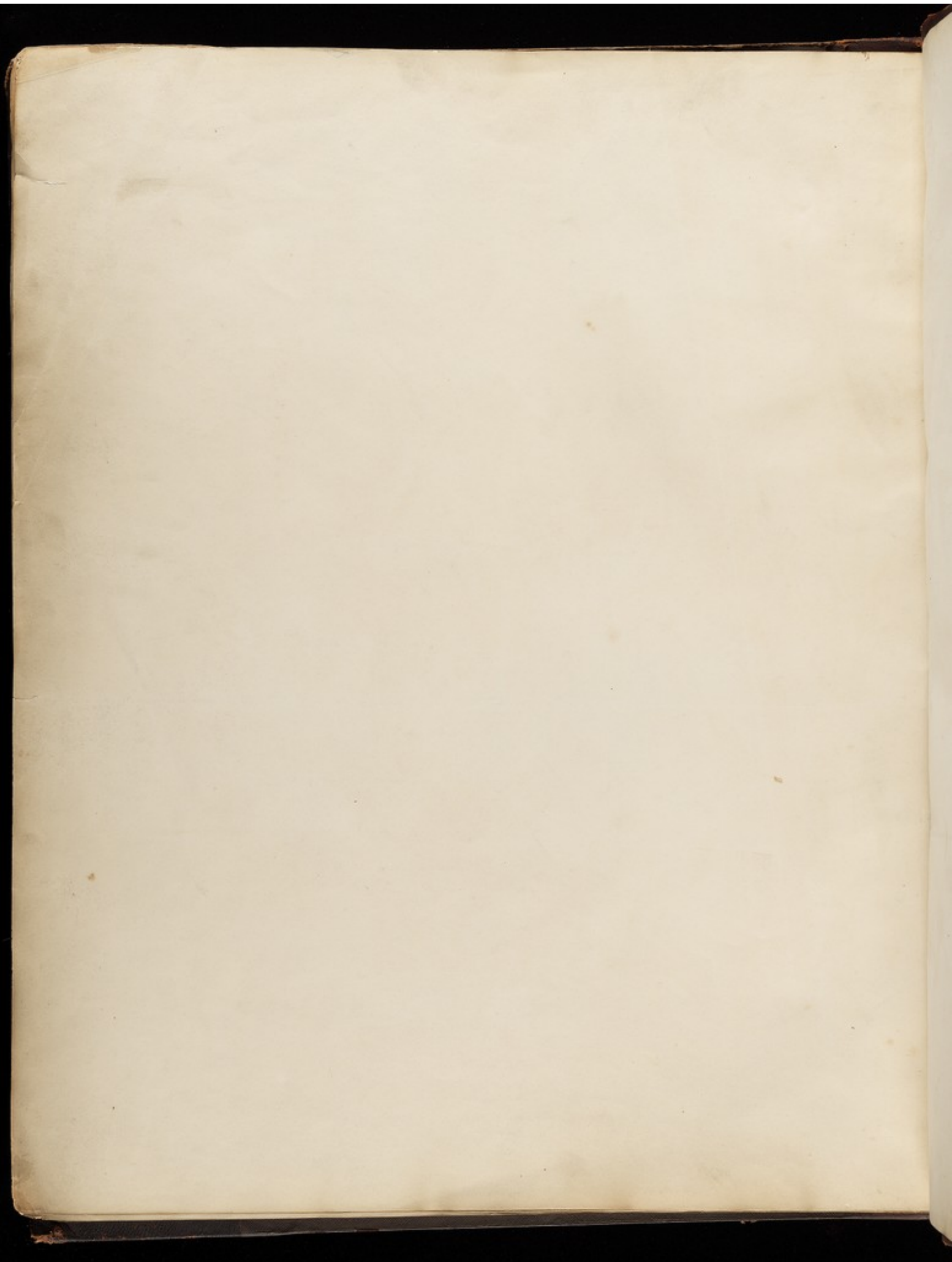


Fig. 1.

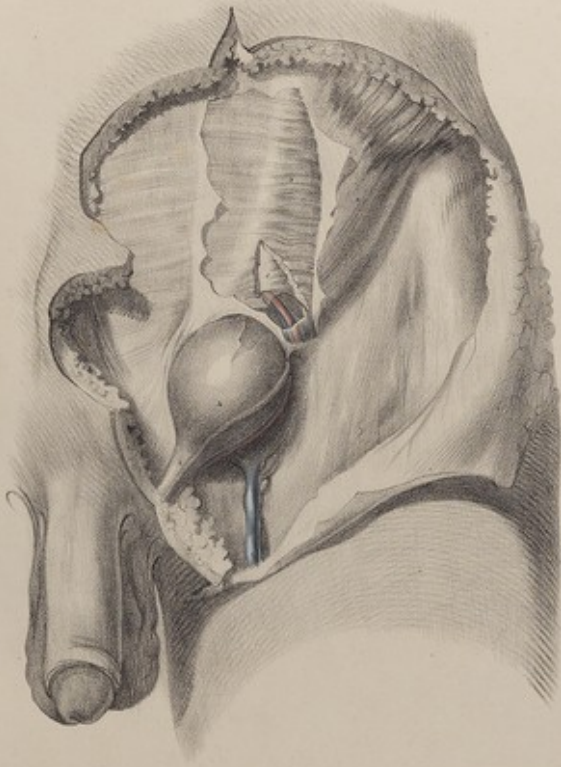


Fig. 2.

Pl. 67.



Fig. 3.

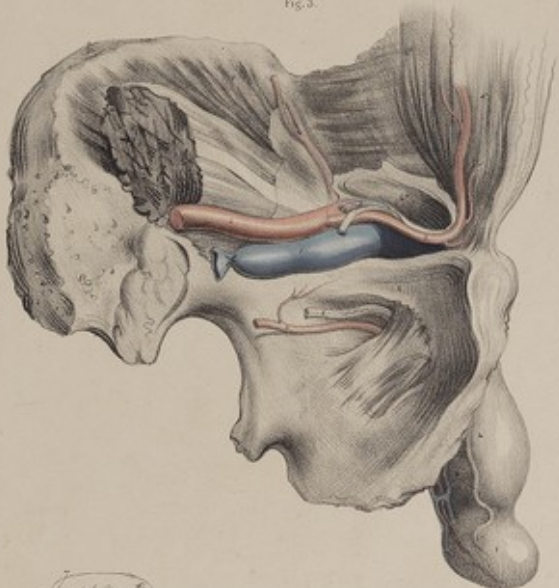
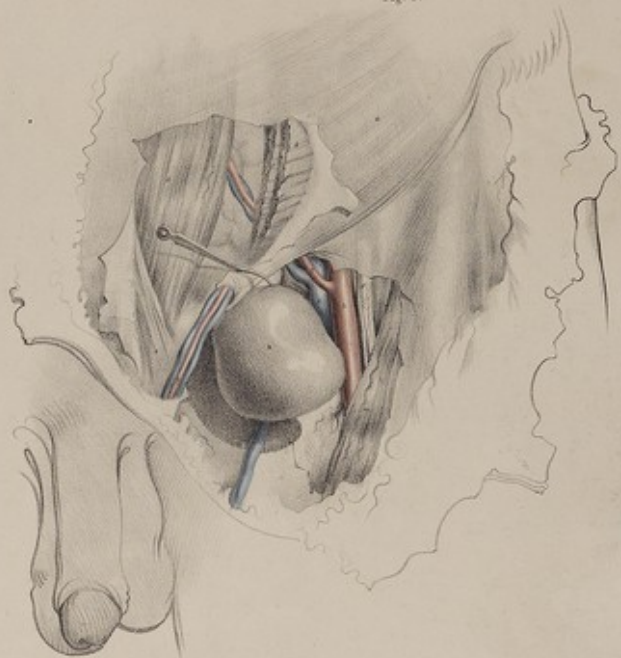


Fig. 4.



Joseph Martin

London, Taylor & Walton, Upper Cover Street.

Printed & Sold by the Author.

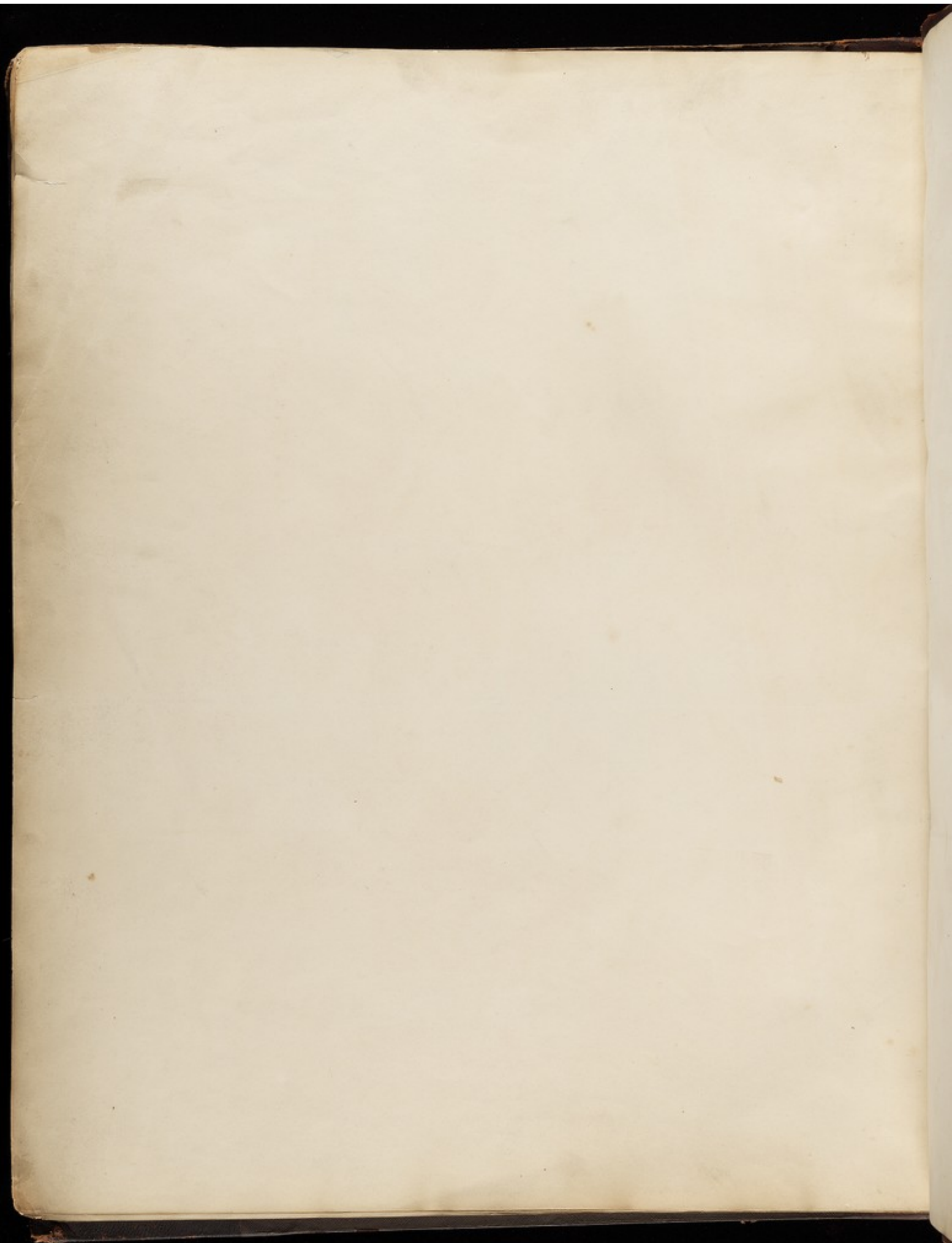


Fig. 4.

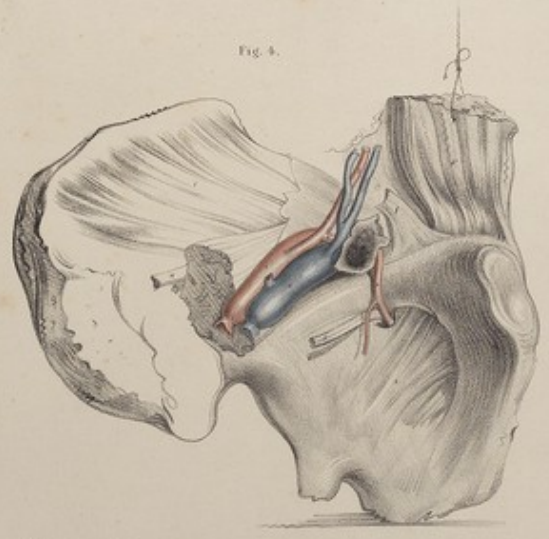


Fig. 3.

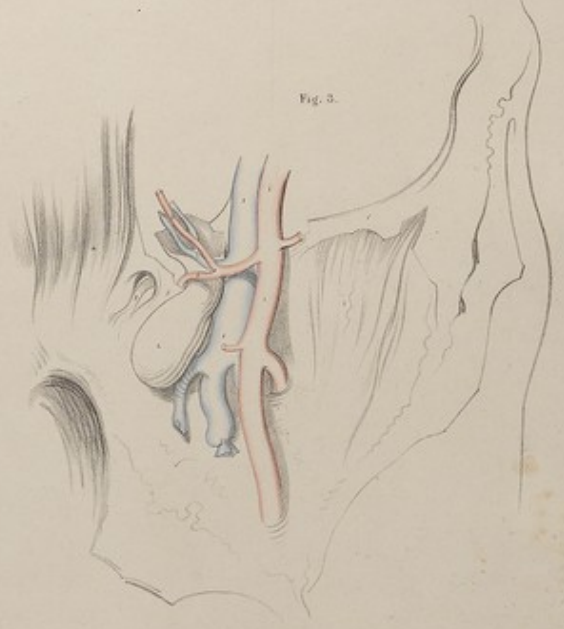


Fig. 1.

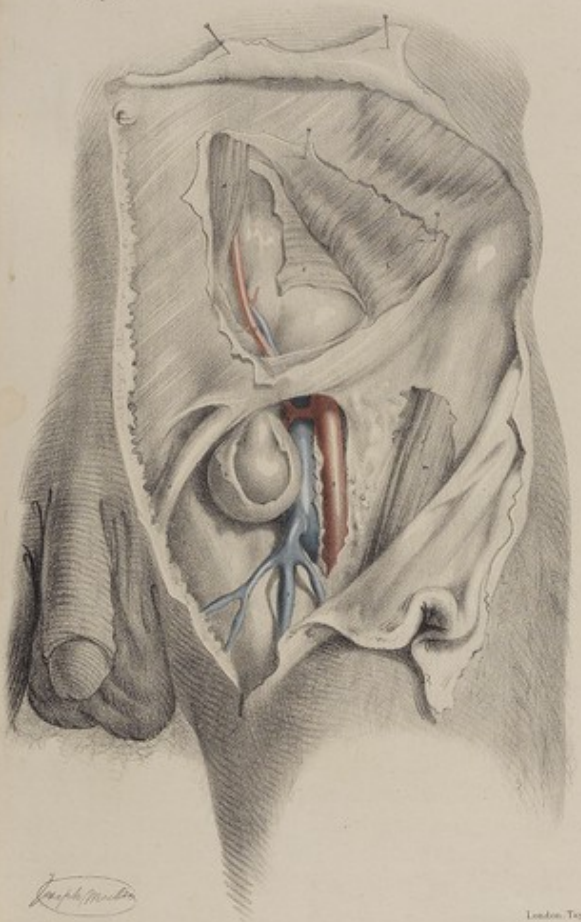
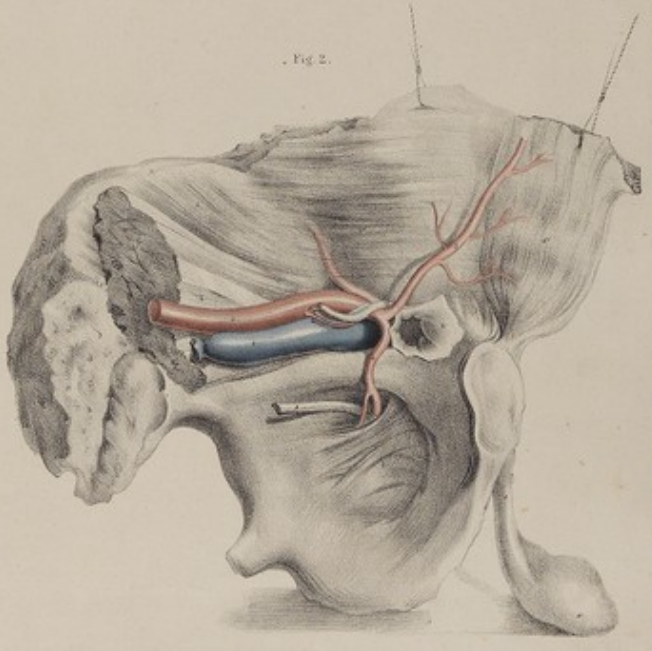
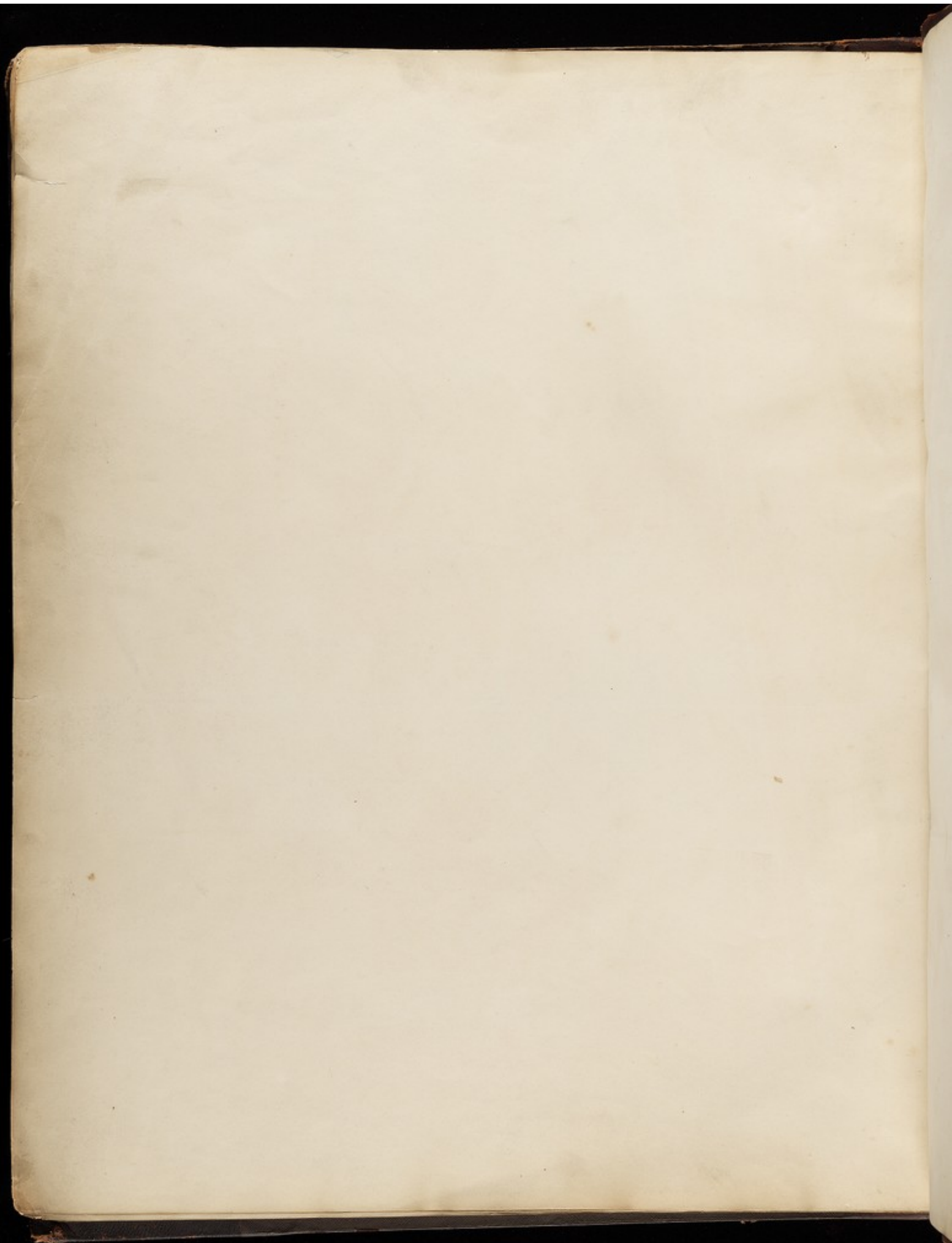


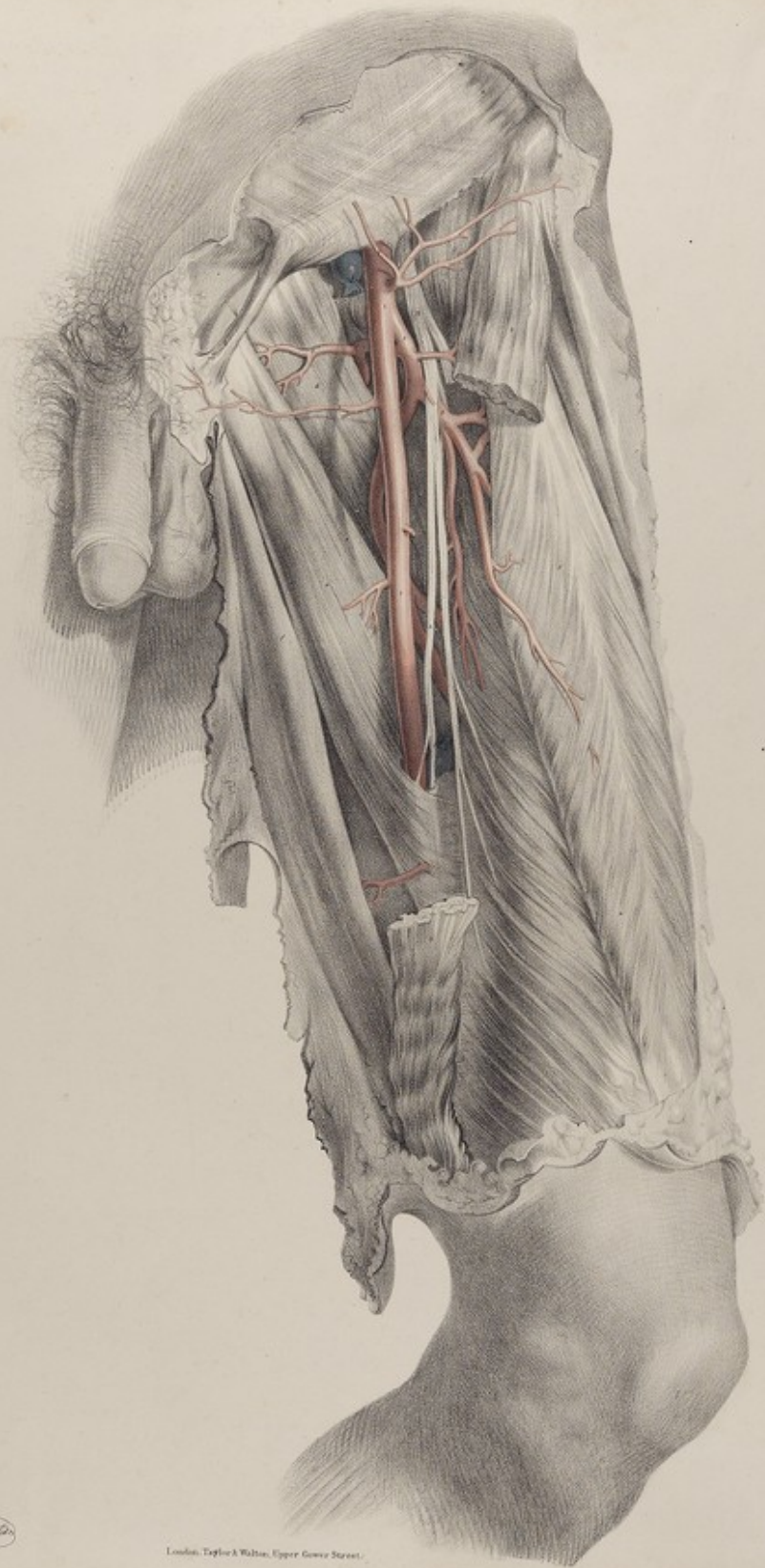
Fig. 2.



Joseph Martin

Printed by G. & C. Whittaker, Strand.

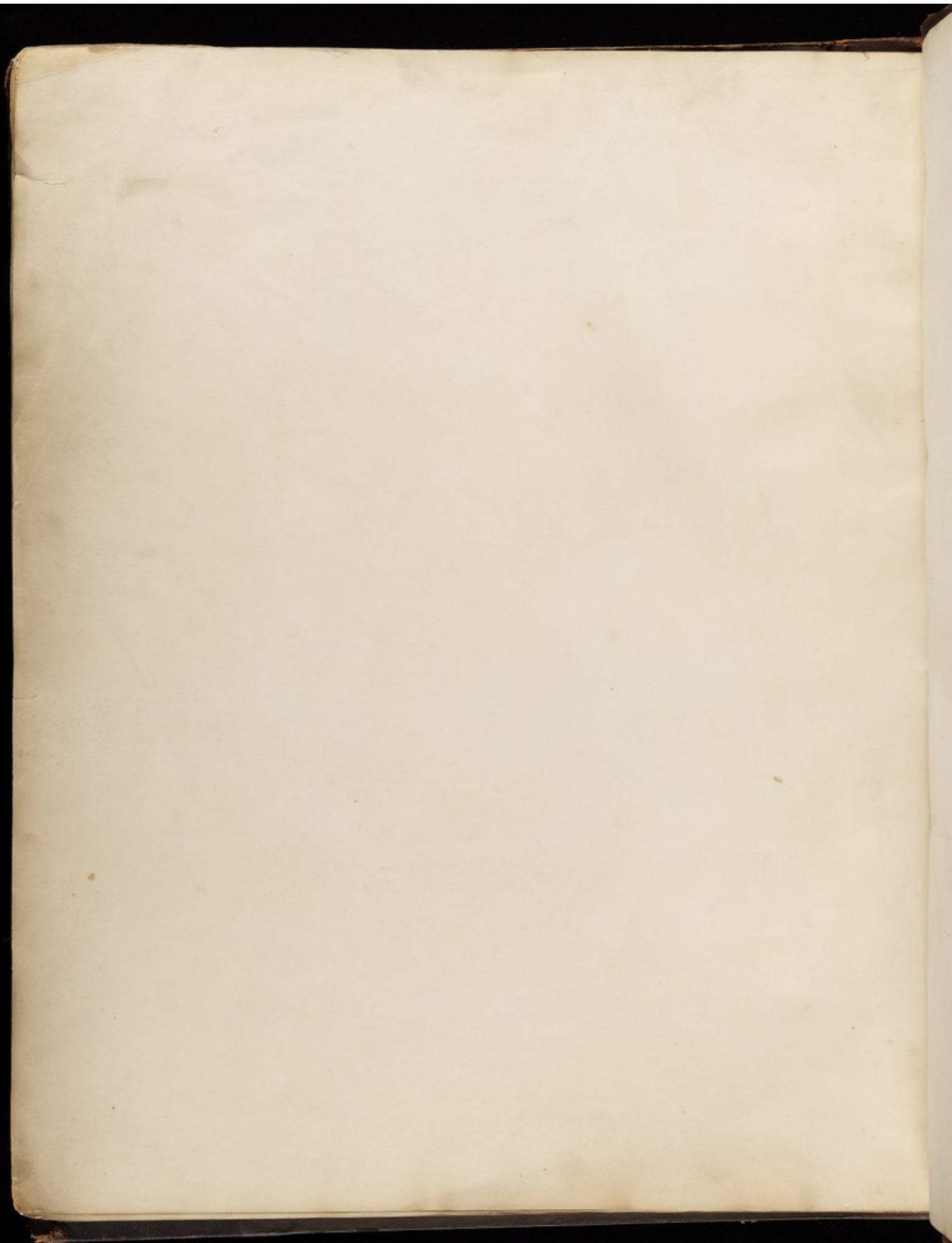




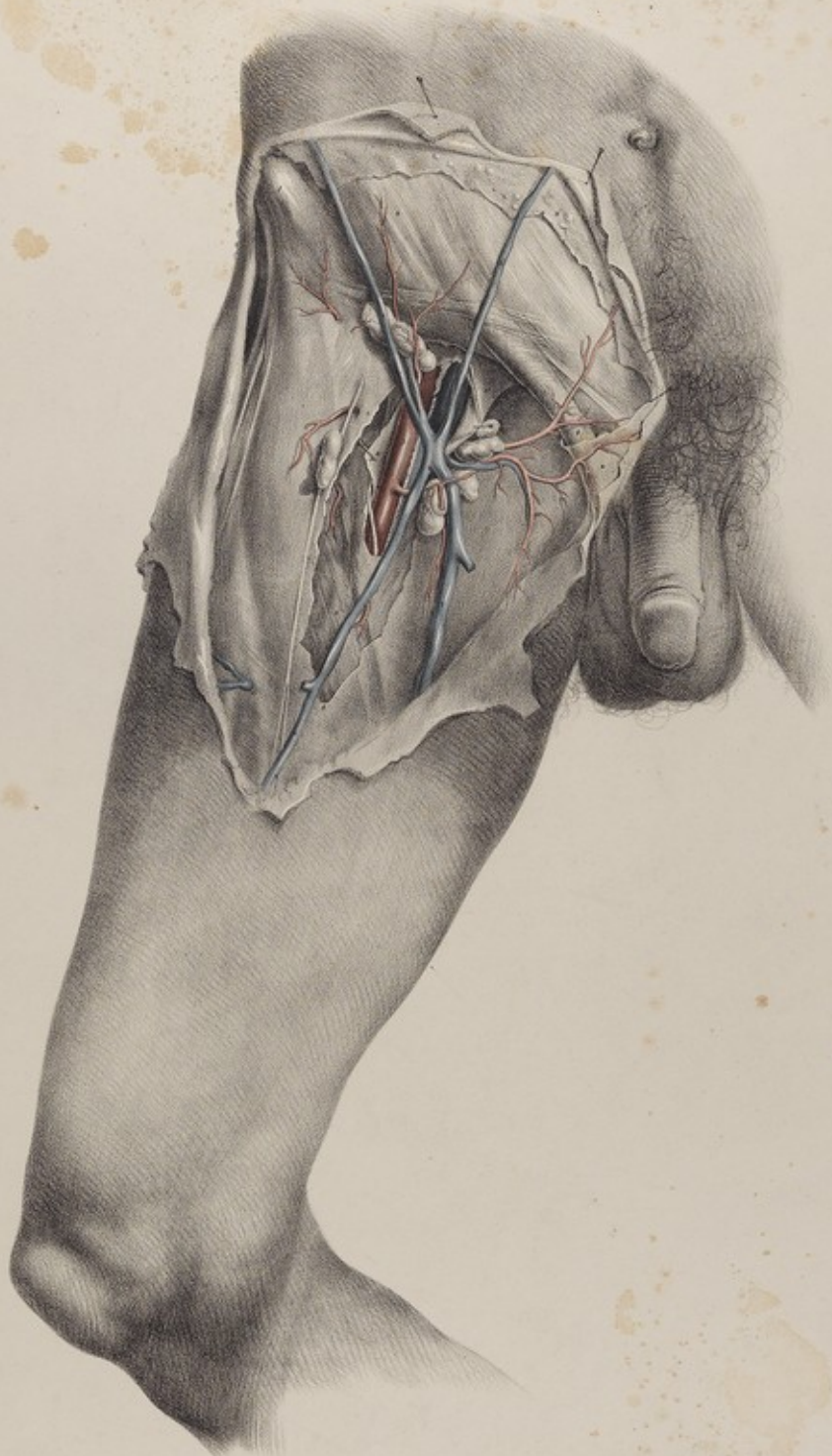
Joseph Martin

London, Taylor & Walton, Upper Gower Street.

Wm. Lusk sculp.



Pl. 70



Joseph Master

London, Taylor & Walton, Upper Cowee Street.

Chap. 10th in the History

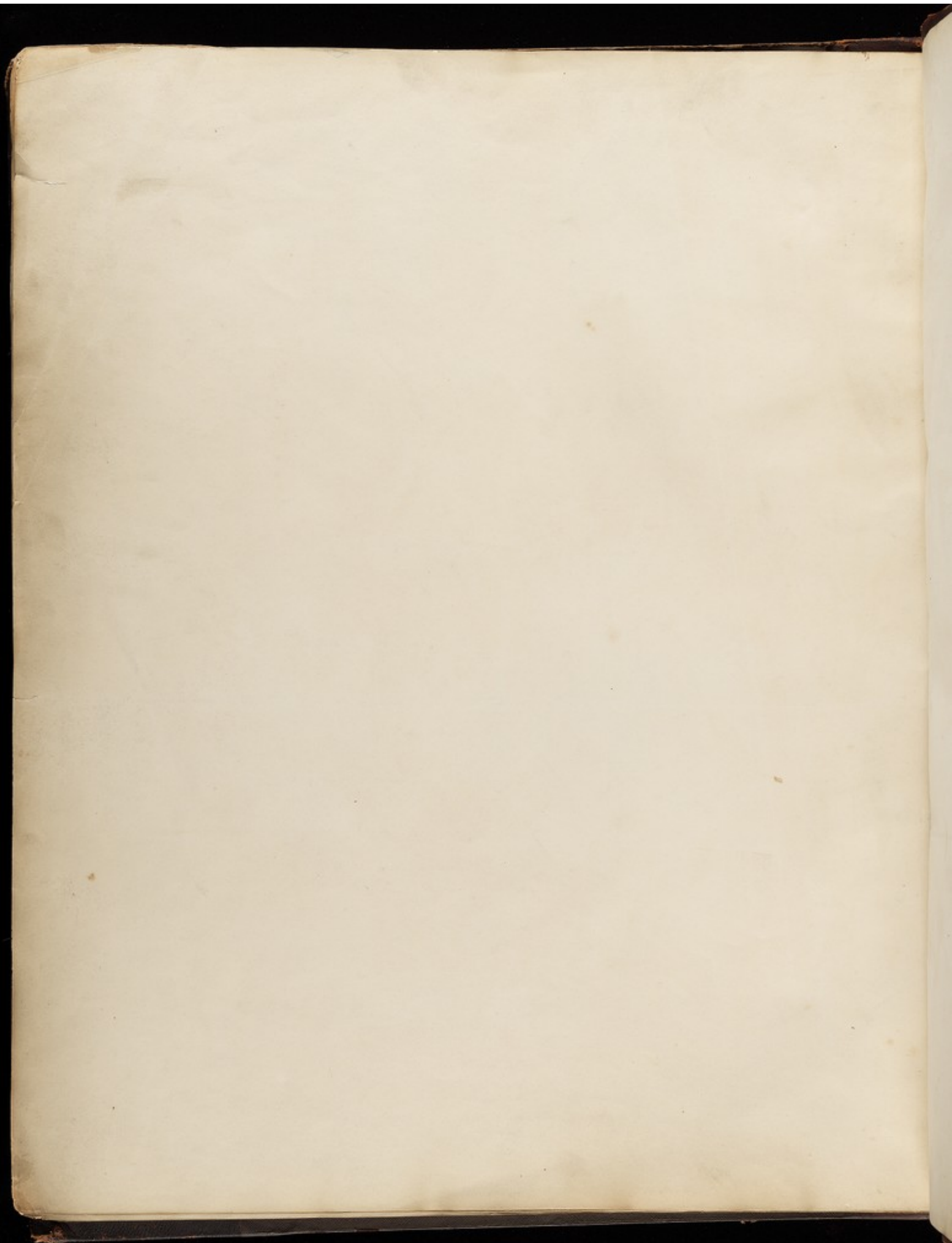
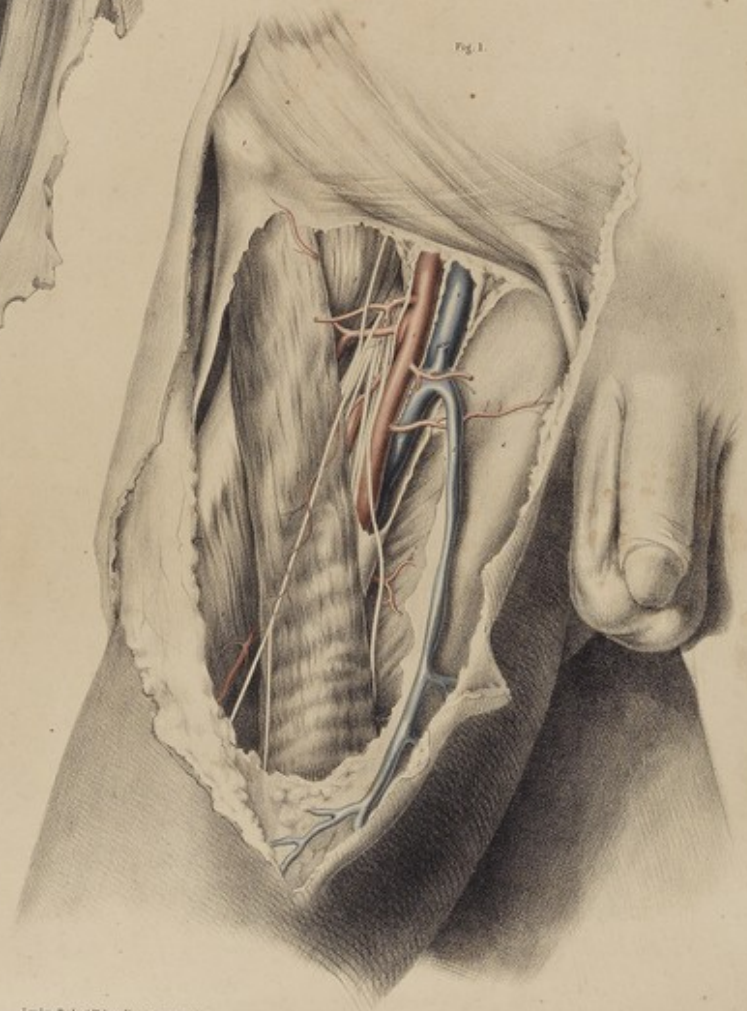


Fig. 2.



Fig. 1.



Joseph Becher

London, Trench & Walton, Upper Court, Street.

1791, J. Becher del. & sculp.

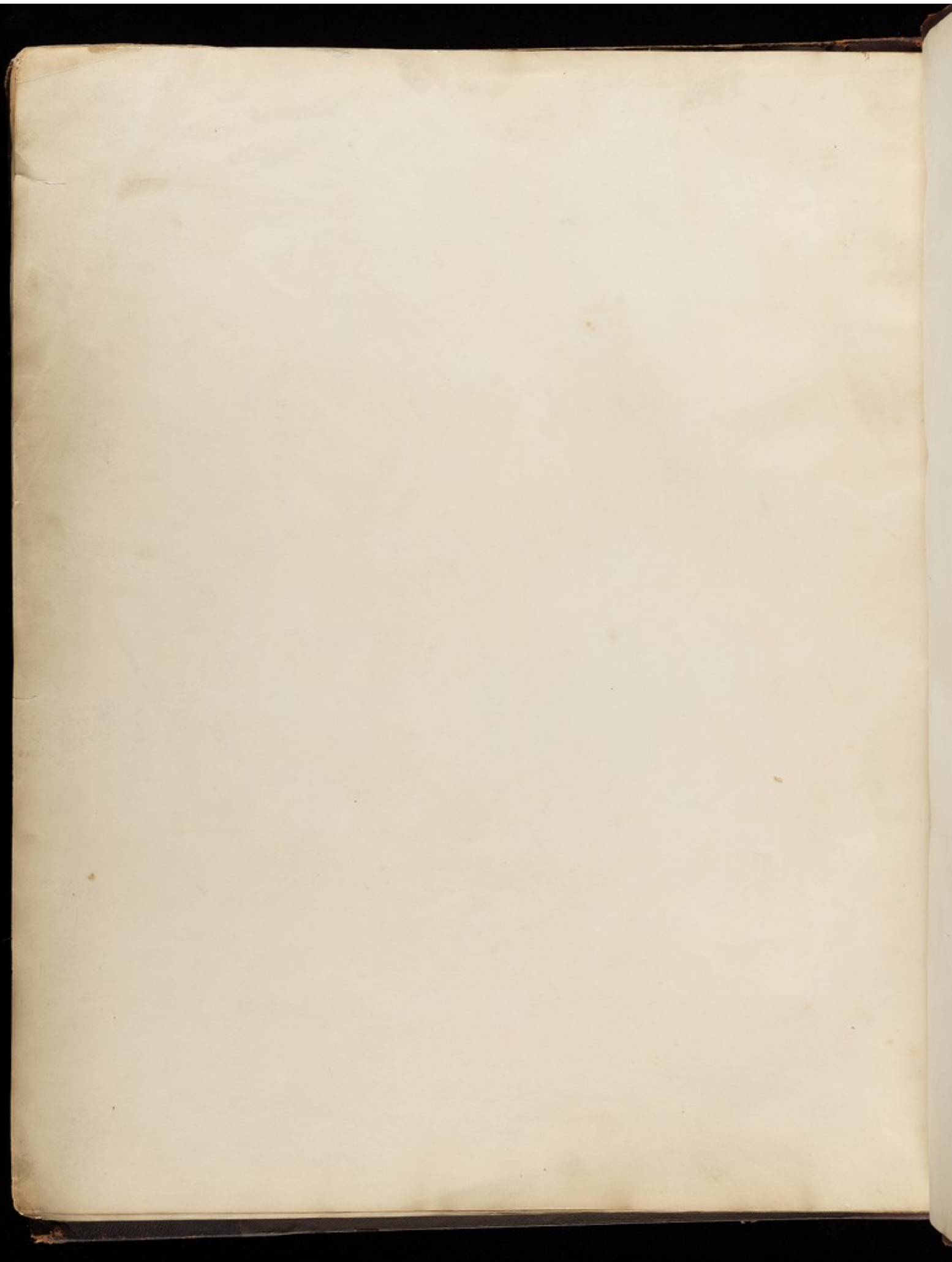


Fig. 6.



Fig. 2.

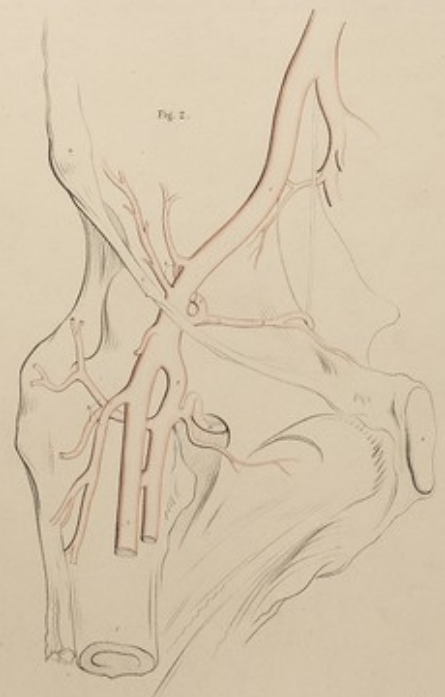


Fig. 3.



Fig. 4.



Fig. 1.

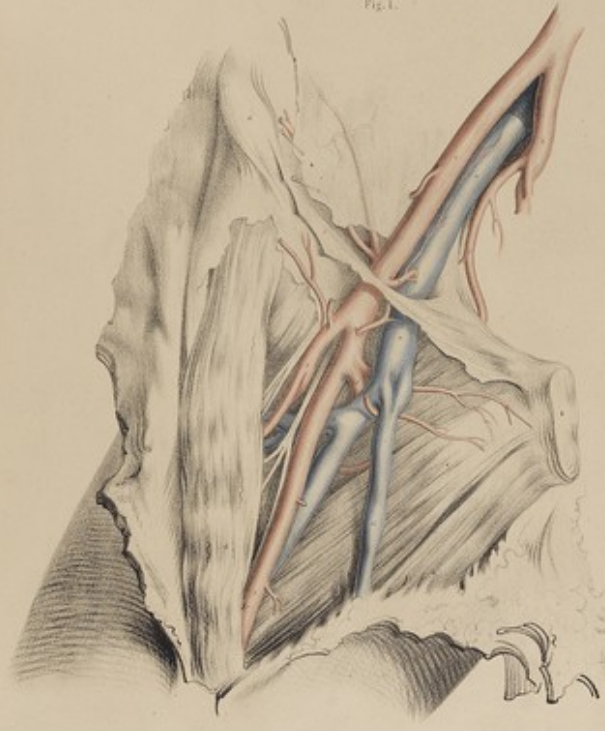


Fig. 5.



Joseph Martin

London, Taylor & Walton, Upper Green Street

Printed by G. & W. B. De Witt

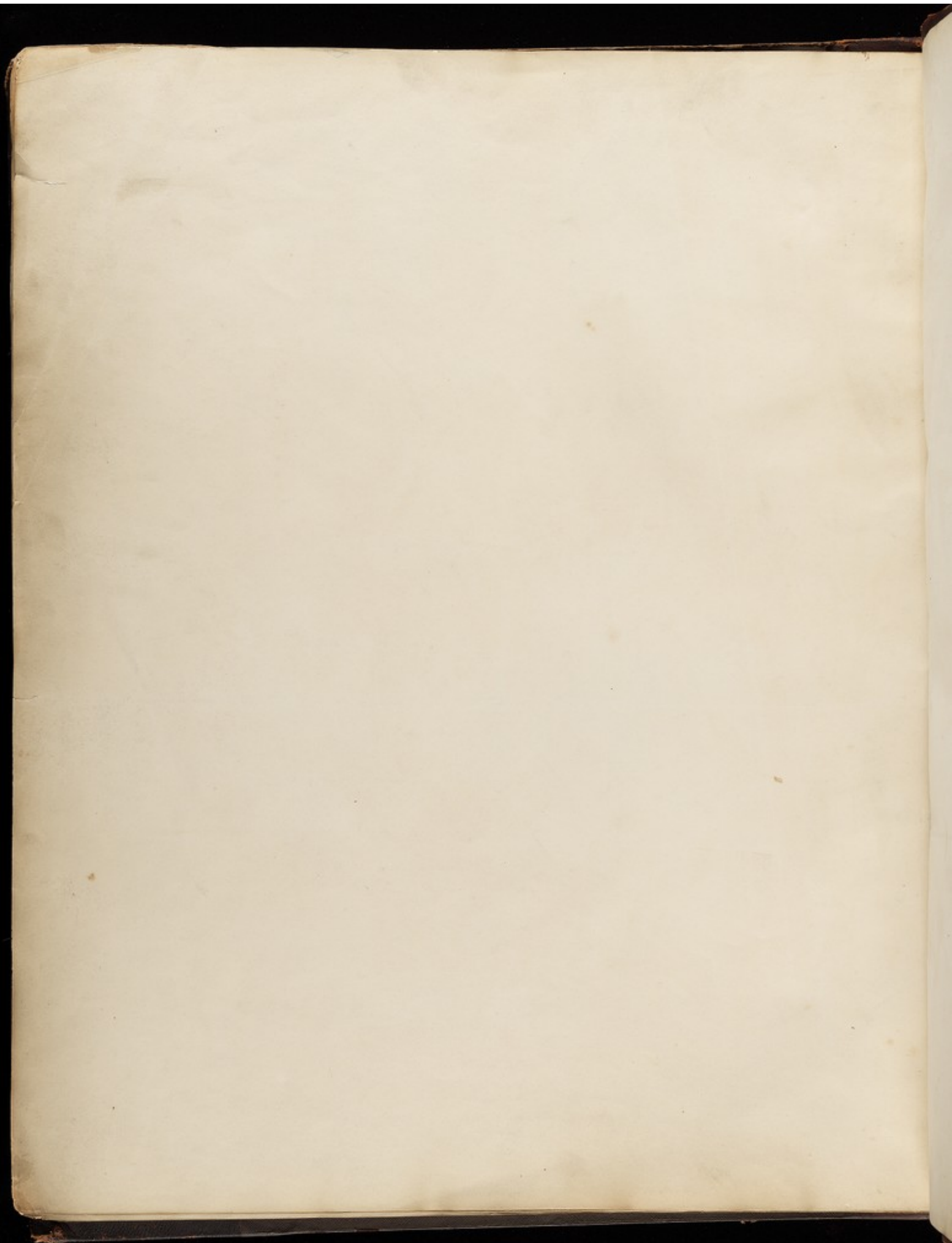


Fig. 3.

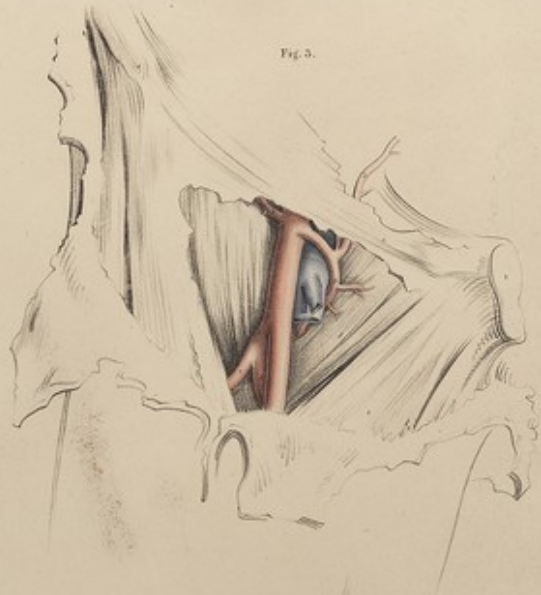


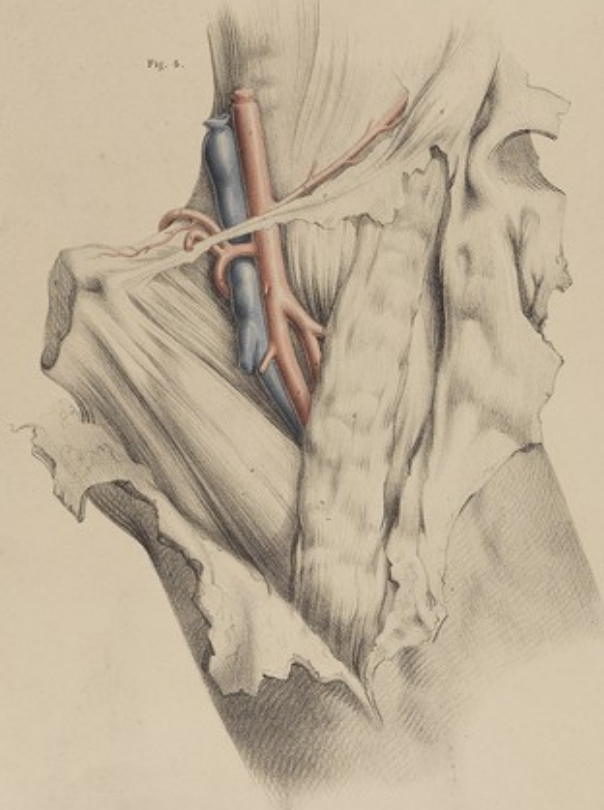
Fig. 4.



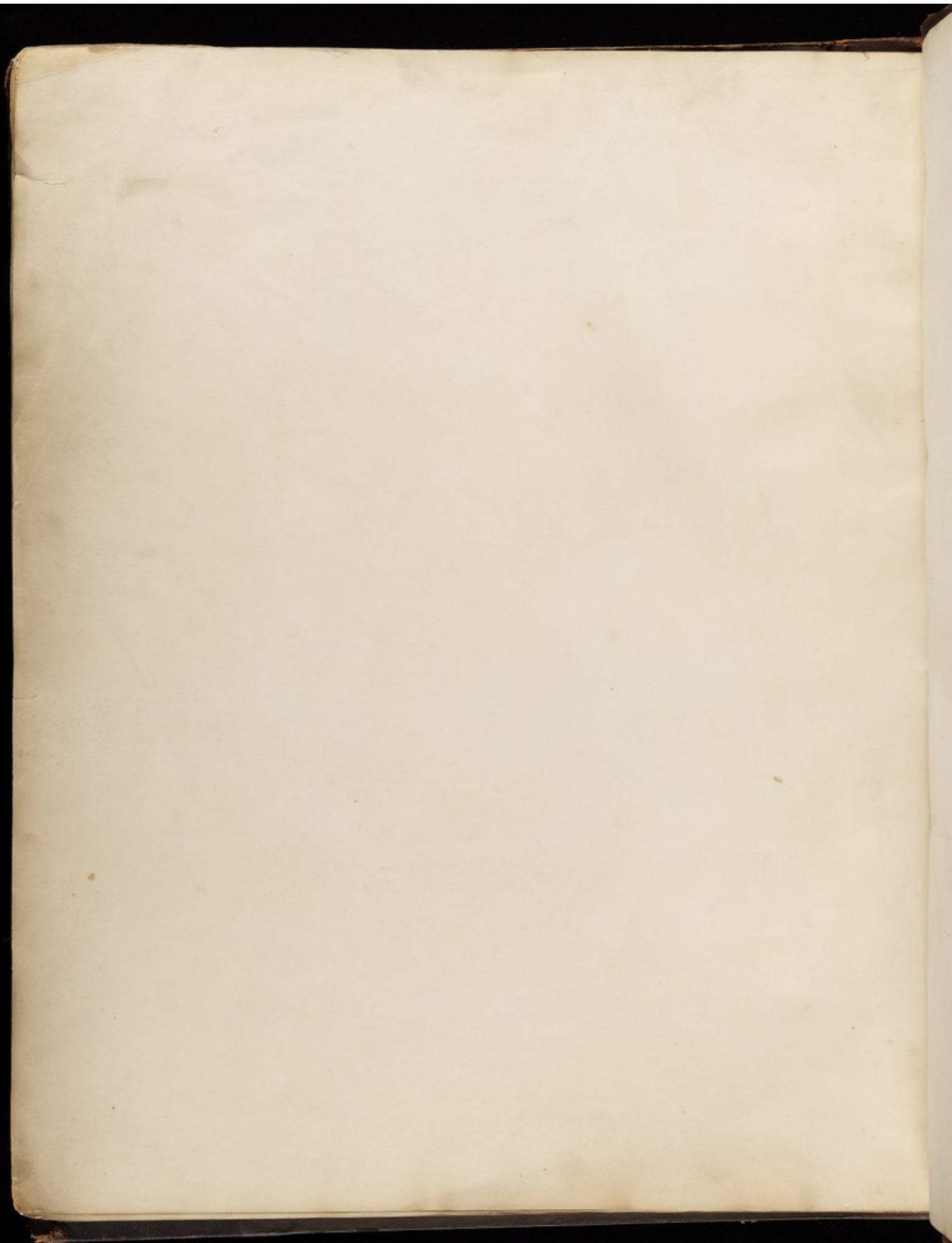
Fig. 1.

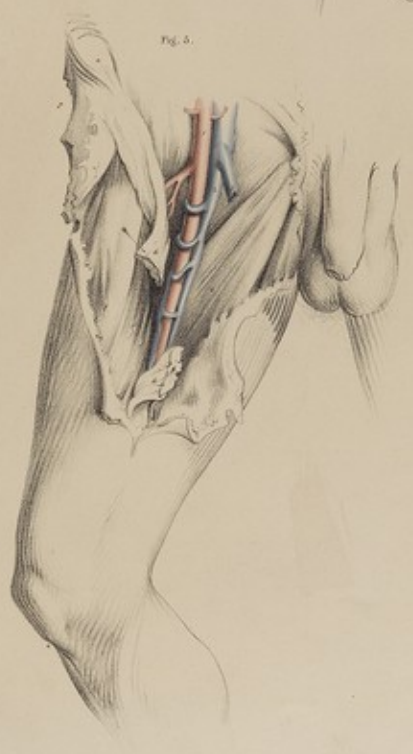
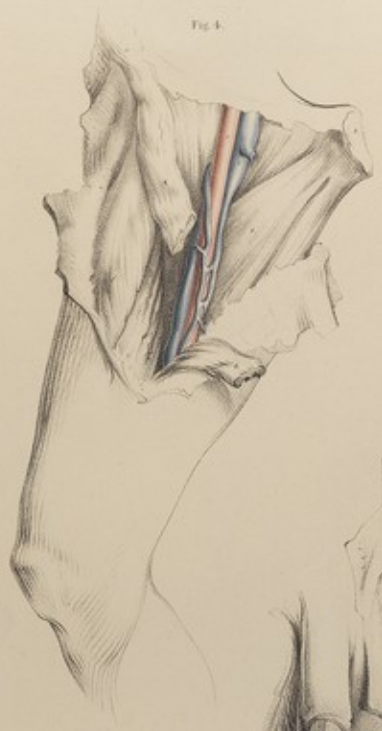


Fig. 2.

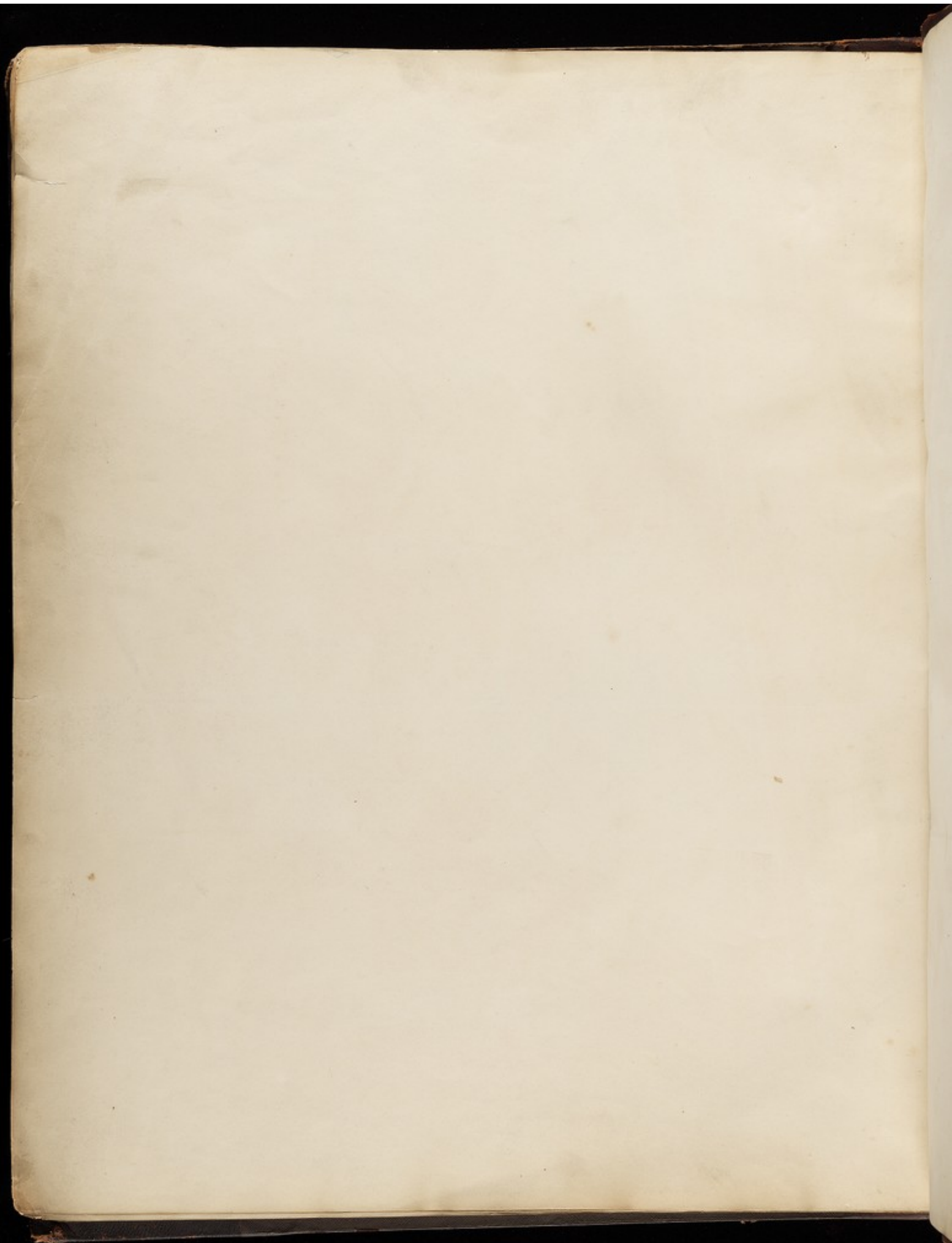


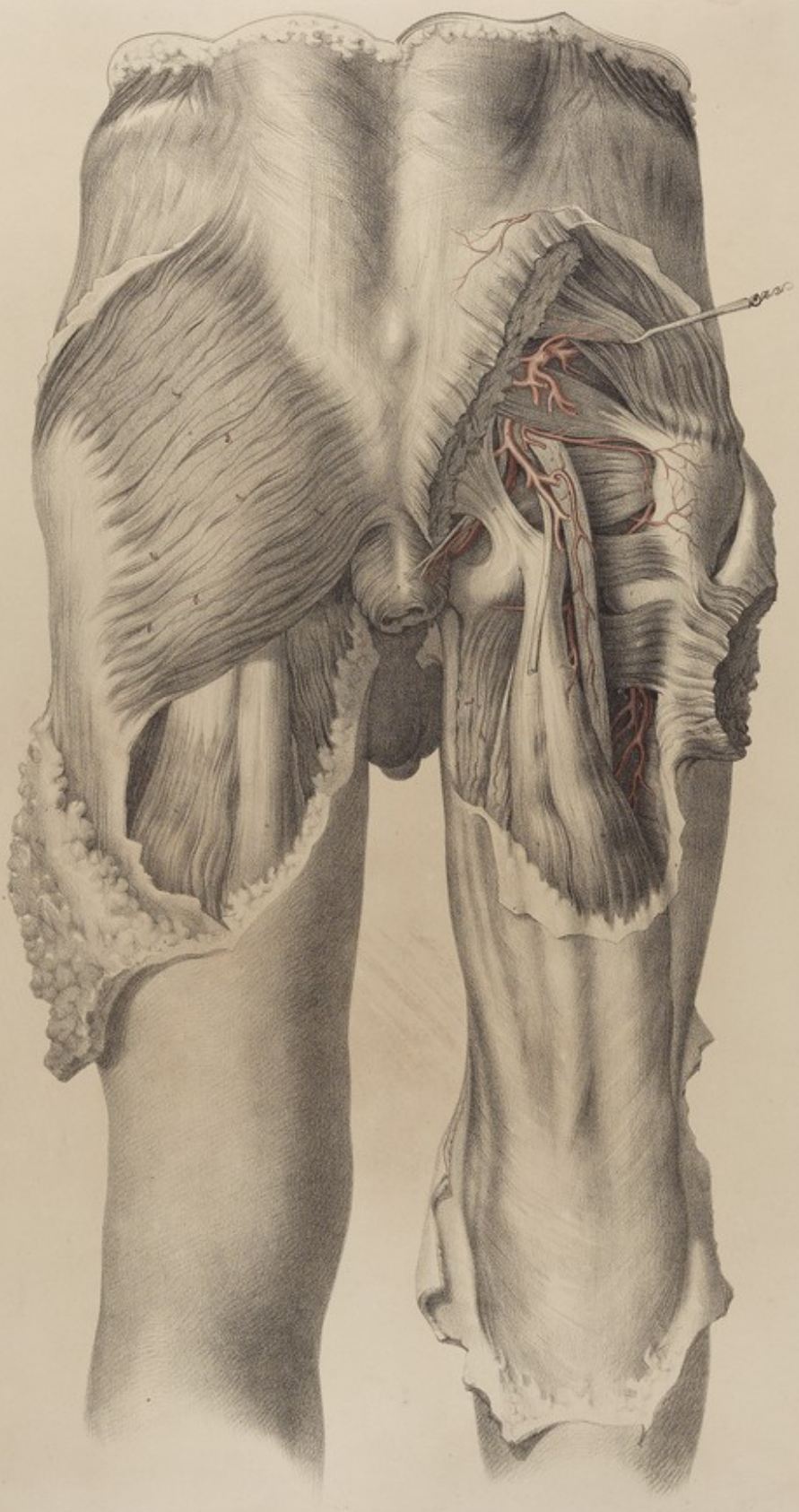
Joseph Moore





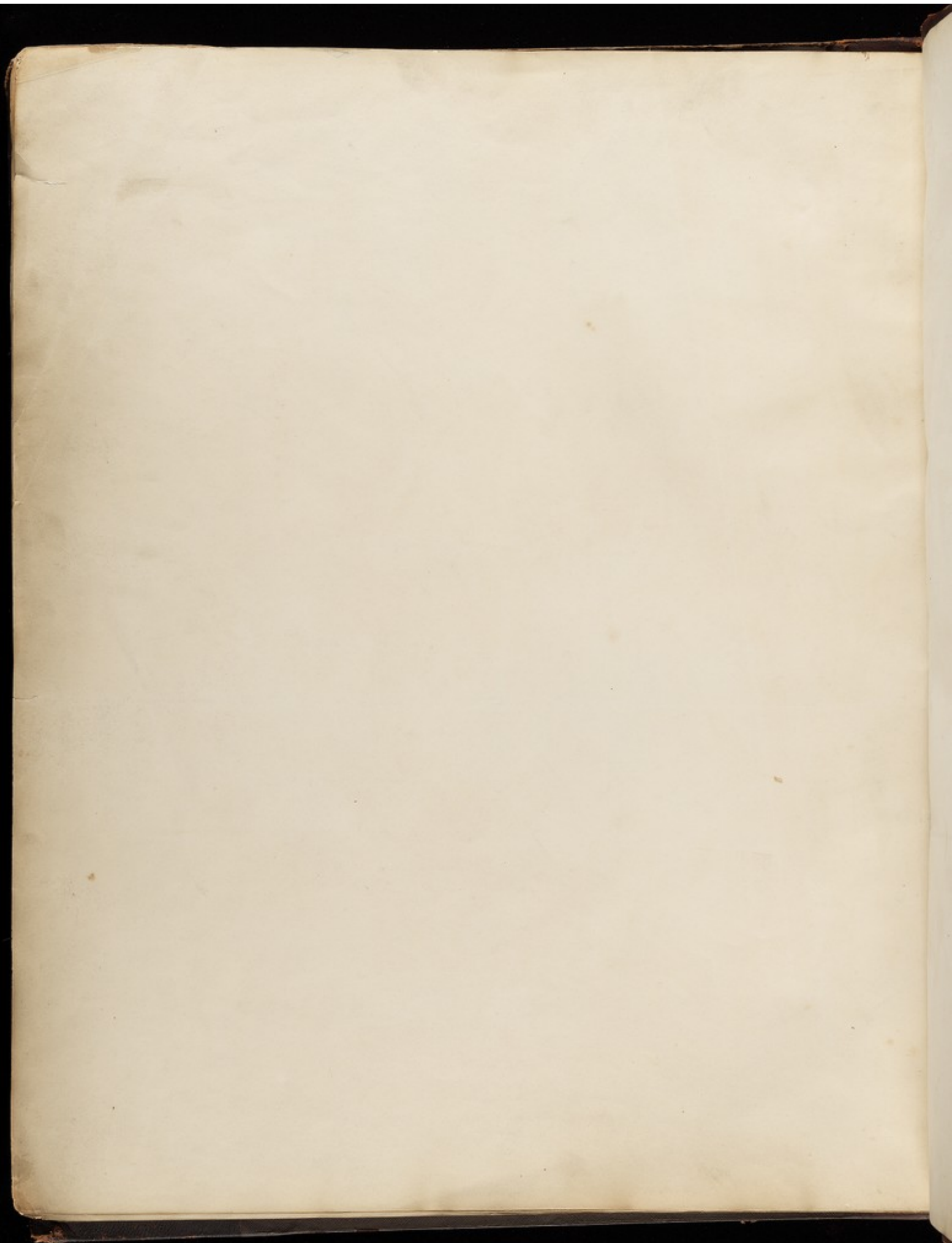
Joseph Martin





Joseph Martin

Tab. 76. (1804) Mus. Pelv. Post.





Joseph Martin

London, Taylor & Walton, Upper Great Street.

Printed and Sold by R. Wallis

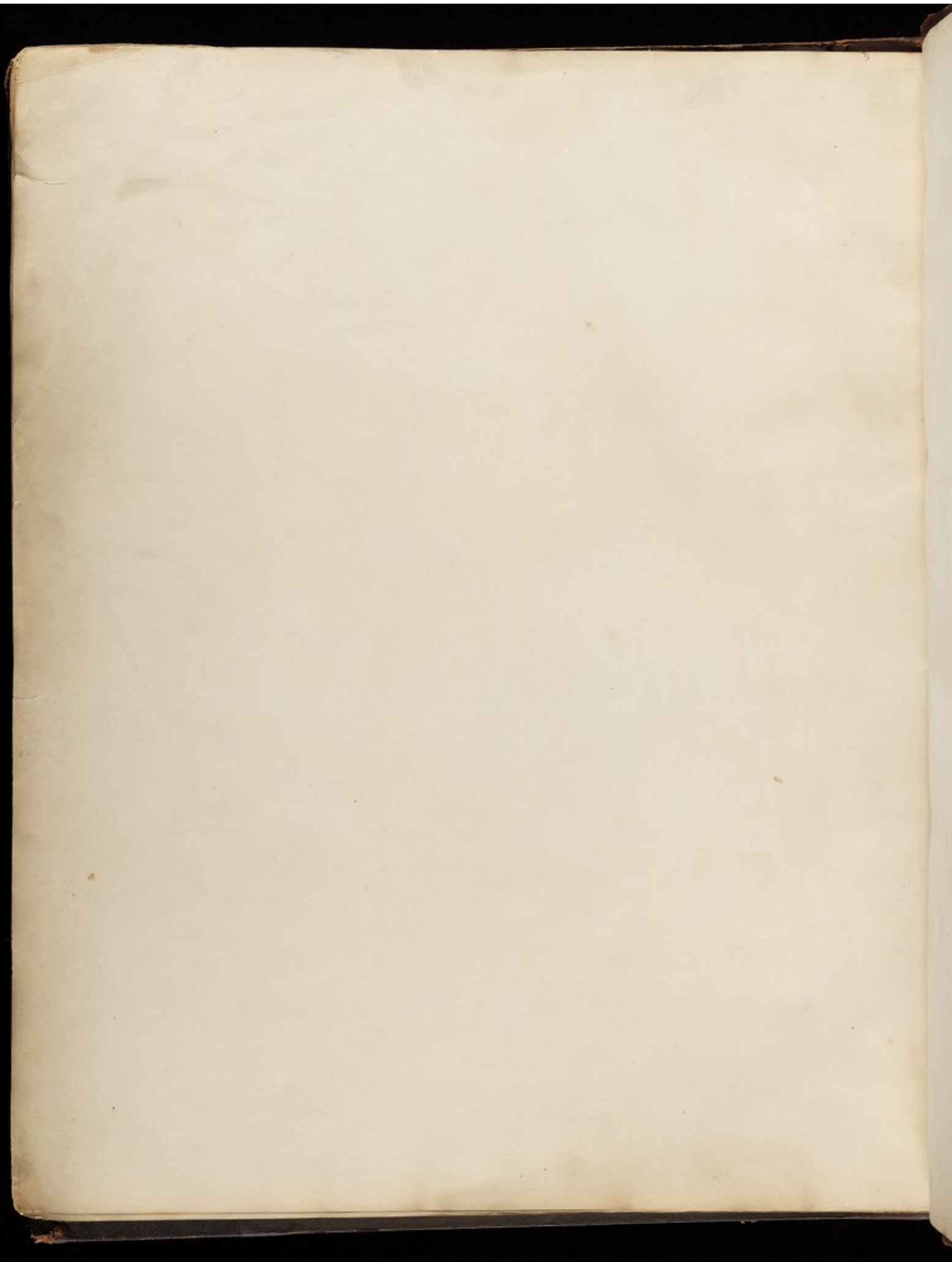


Fig. 1.

2778

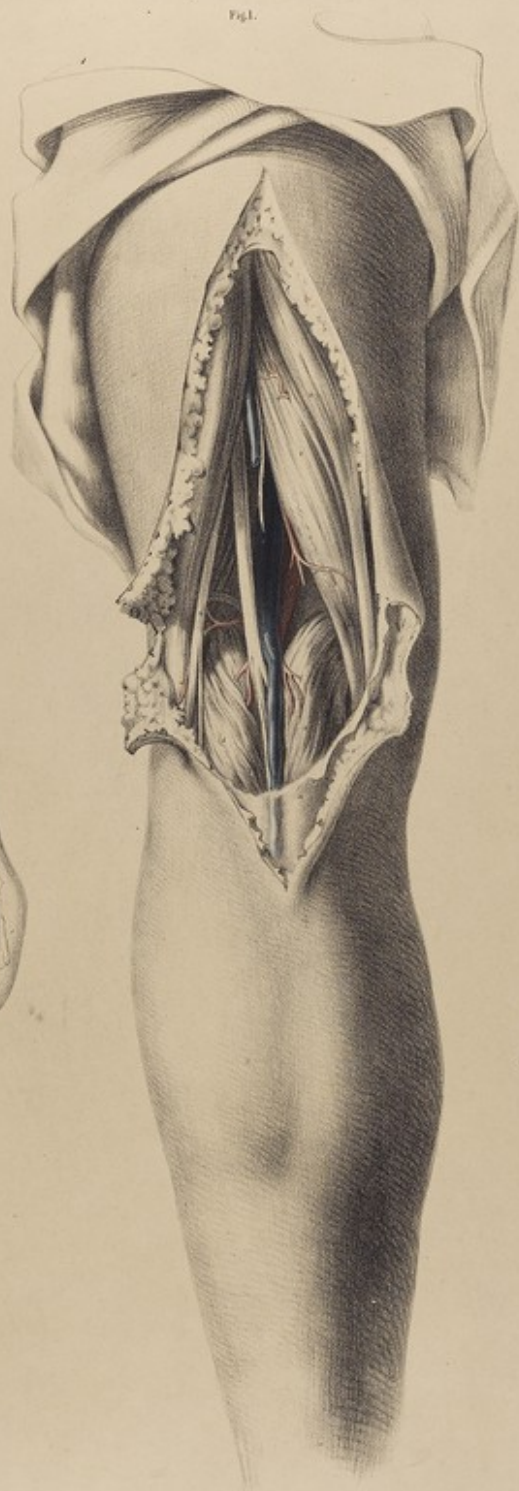


Fig. 3.

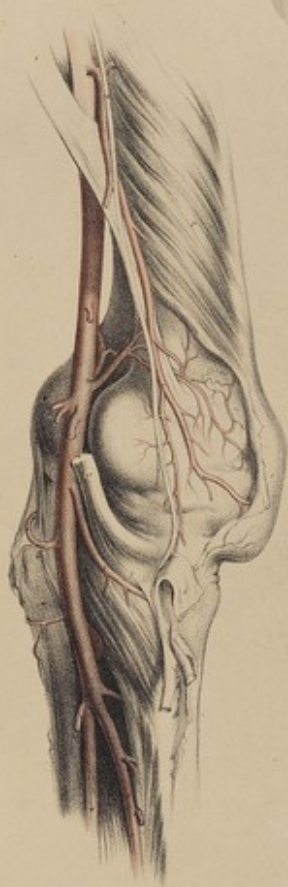


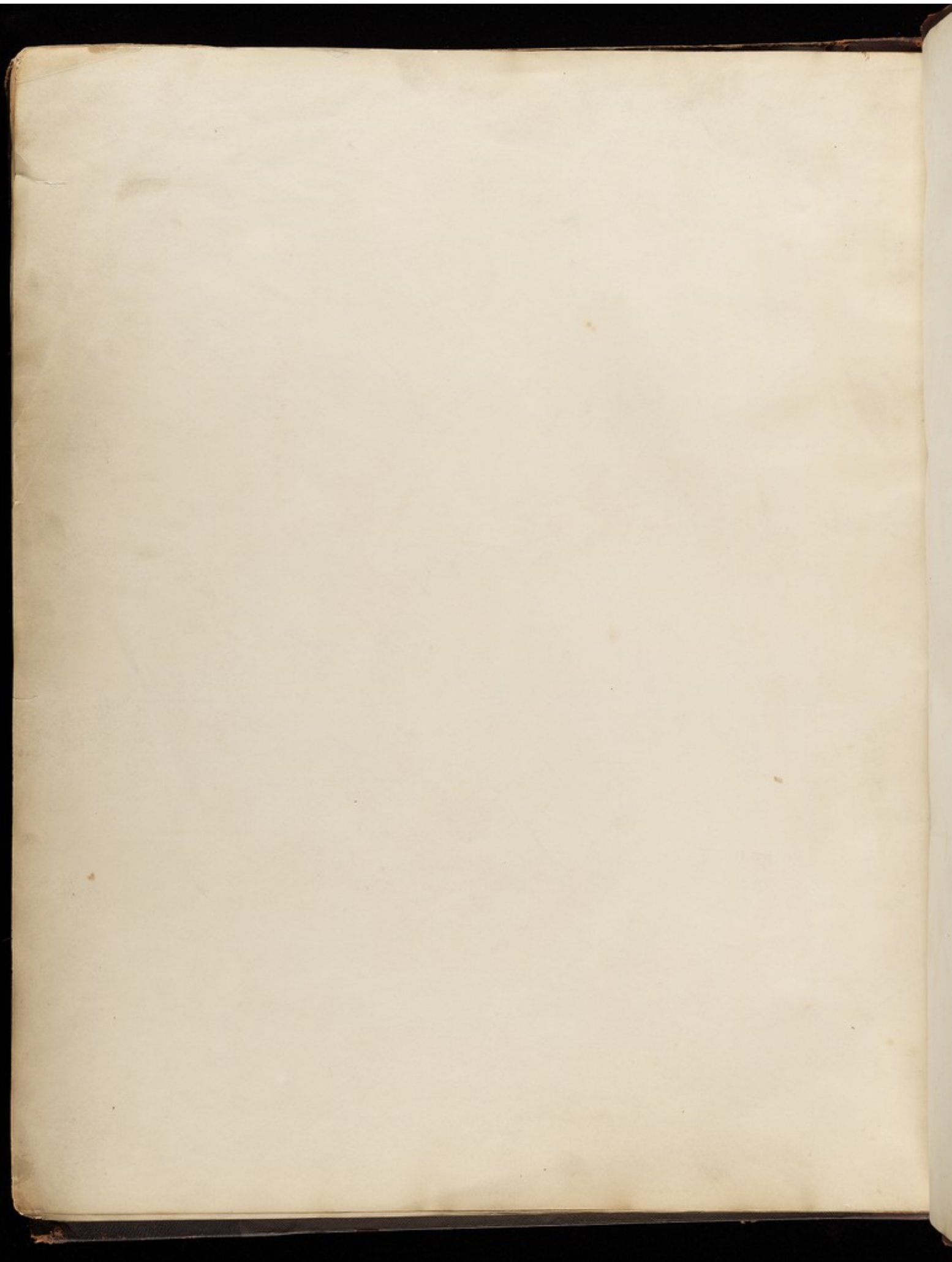
Fig. 2.



Joseph Martin

London, Taylor & Walton, Upper Green Street.

Wm. Wood



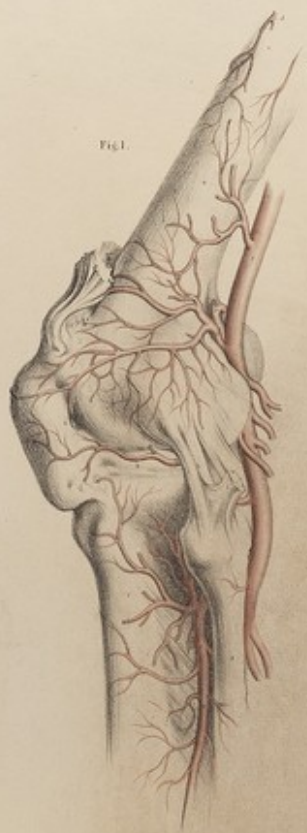


Fig. 1.

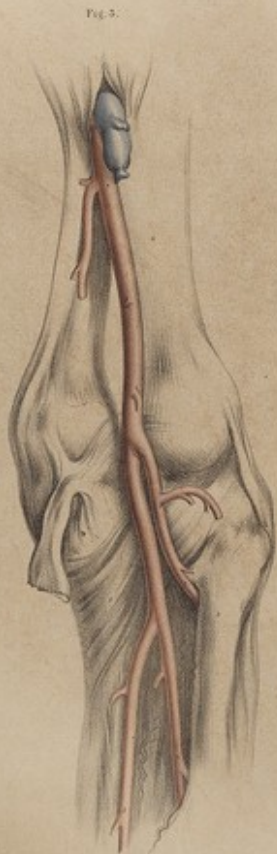


Fig. 3.



Fig. 4.

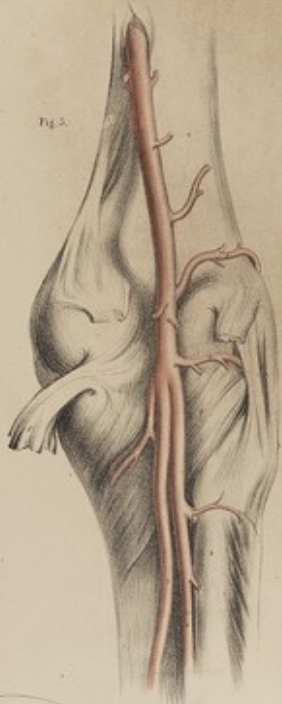


Fig. 5.

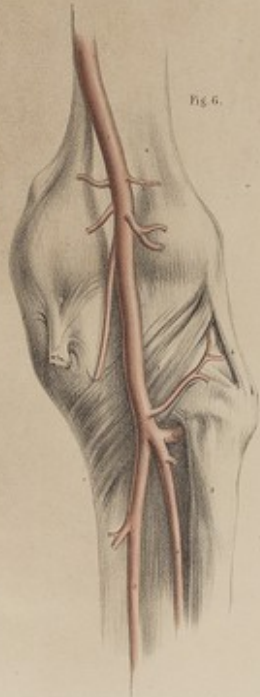


Fig. 6.



Fig. 2.

Joseph Martin

London, Table 4. Wallon, Upper Limb. Stron.

Chap. Lath. in the Report

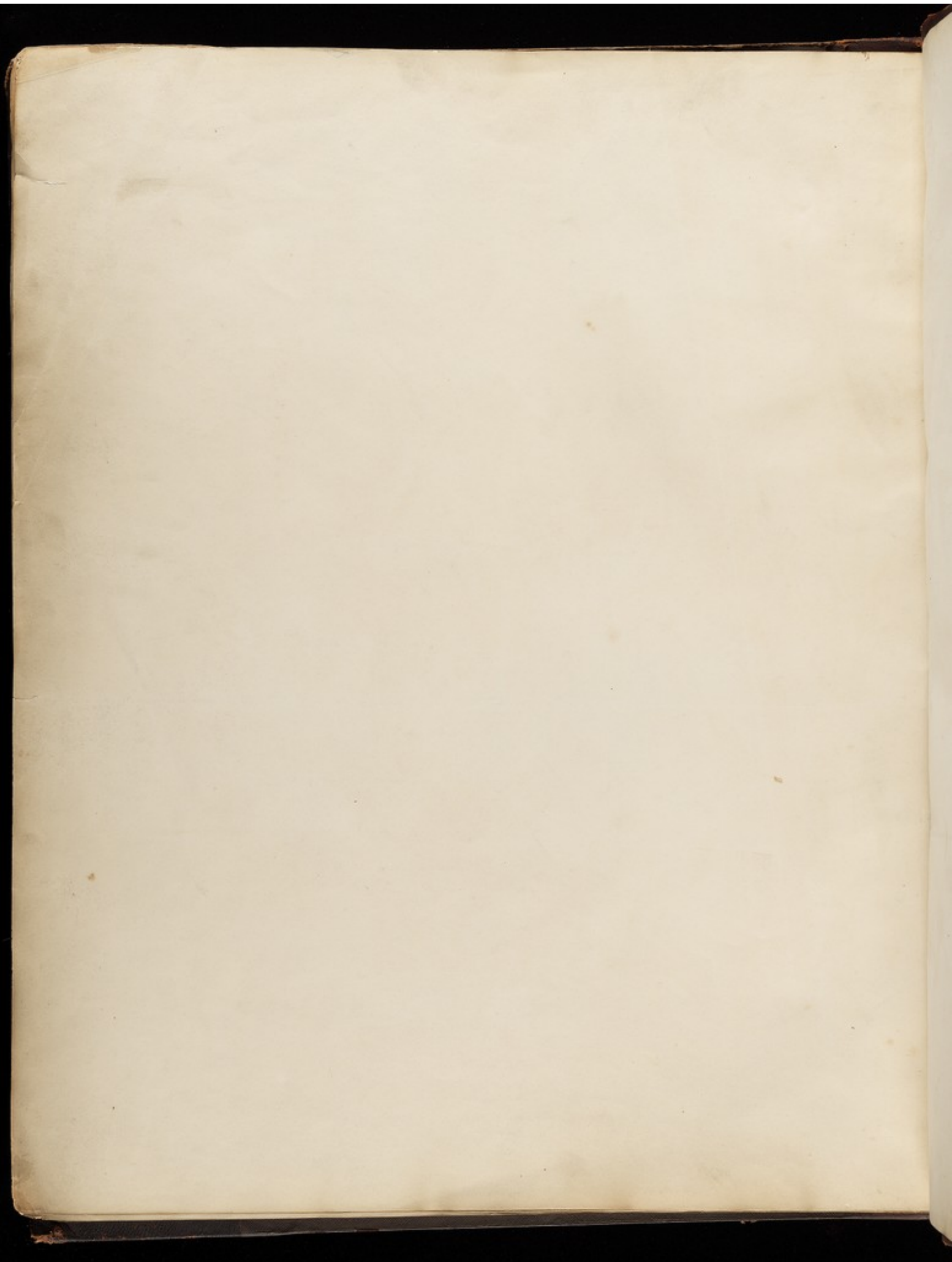


Fig. 1.



Fig. 2.

Pl. 50



Fig. 3.

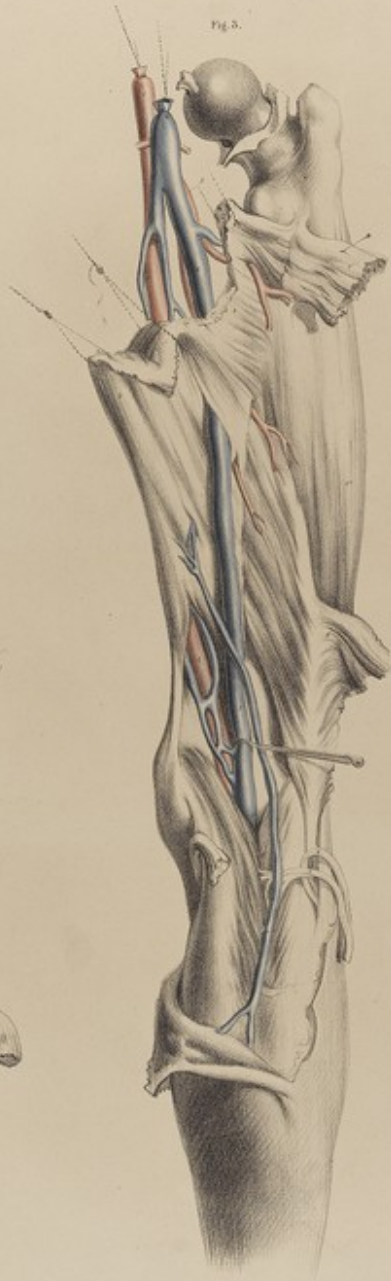
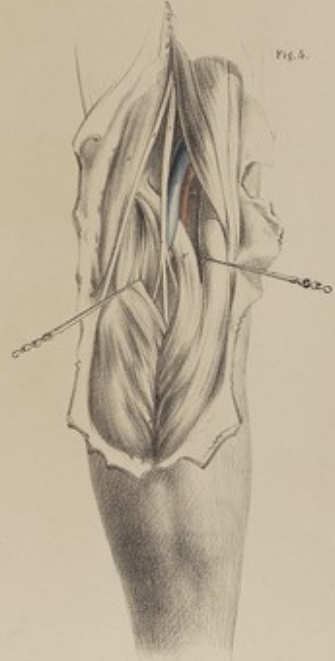


Fig. 4.



Fig. 5.



Joseph Martin

London, Taylor & Walton, Upper Gowrie Street.

Fig. 2. in the margin

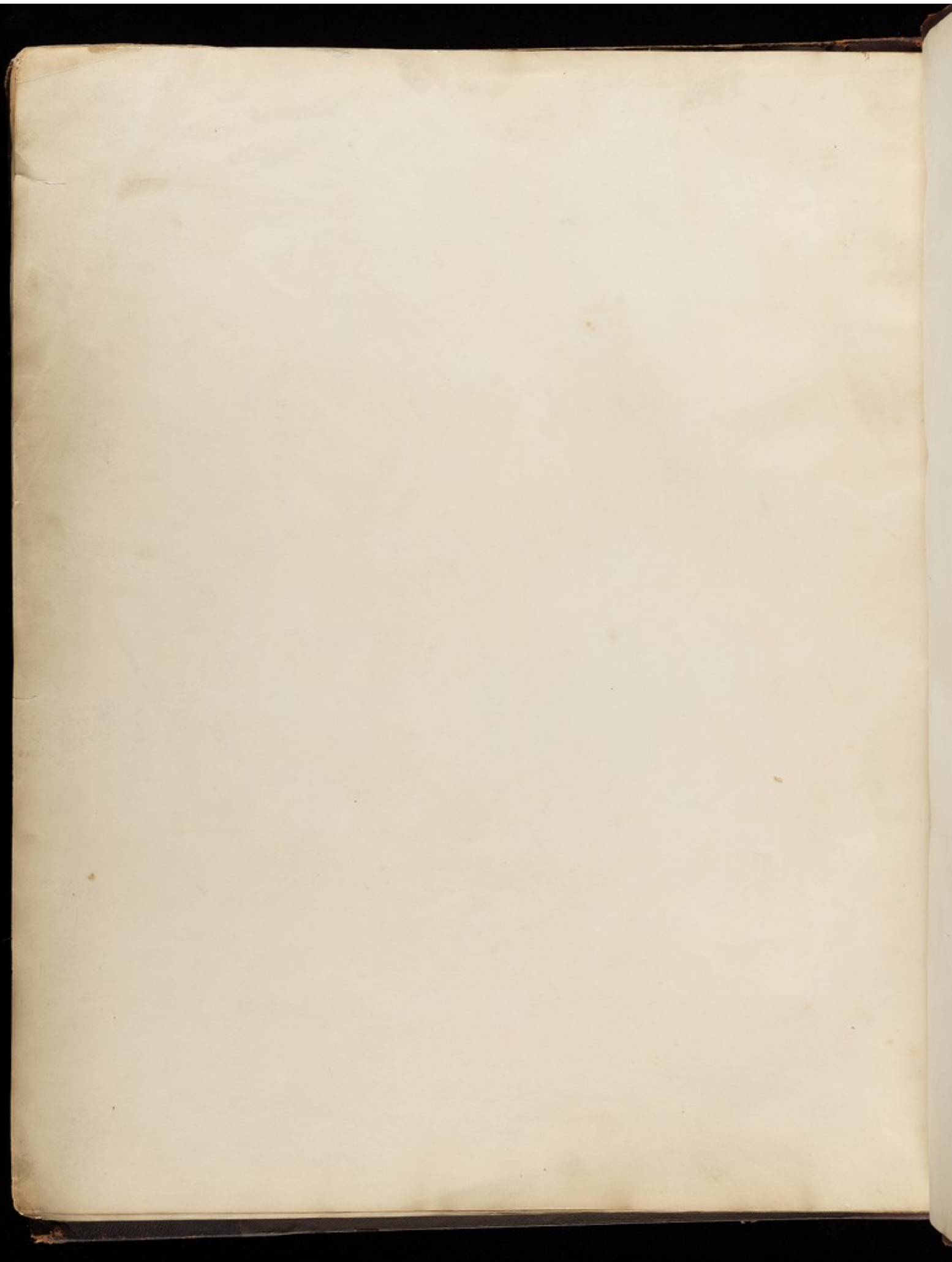




Fig. 2.

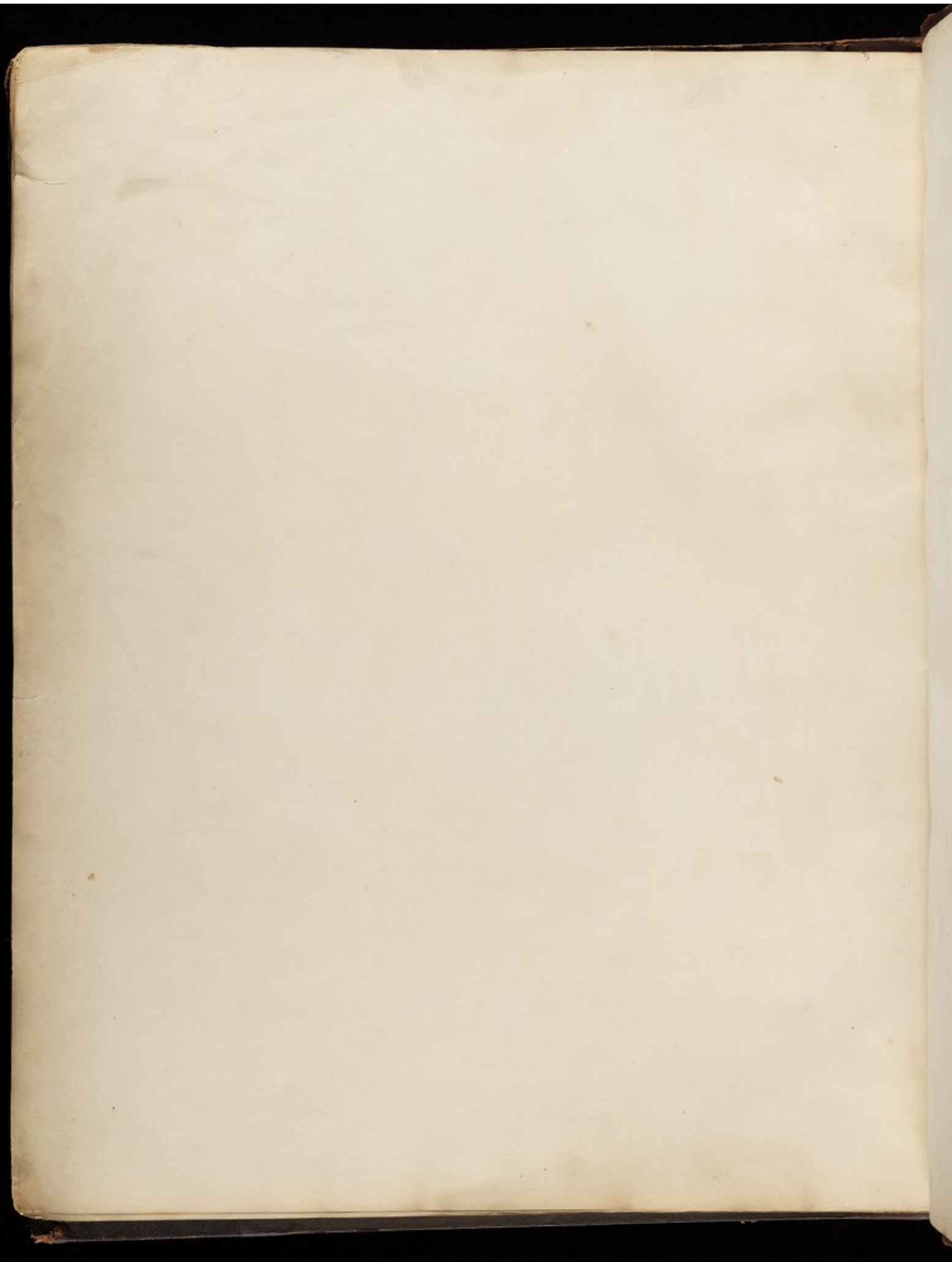


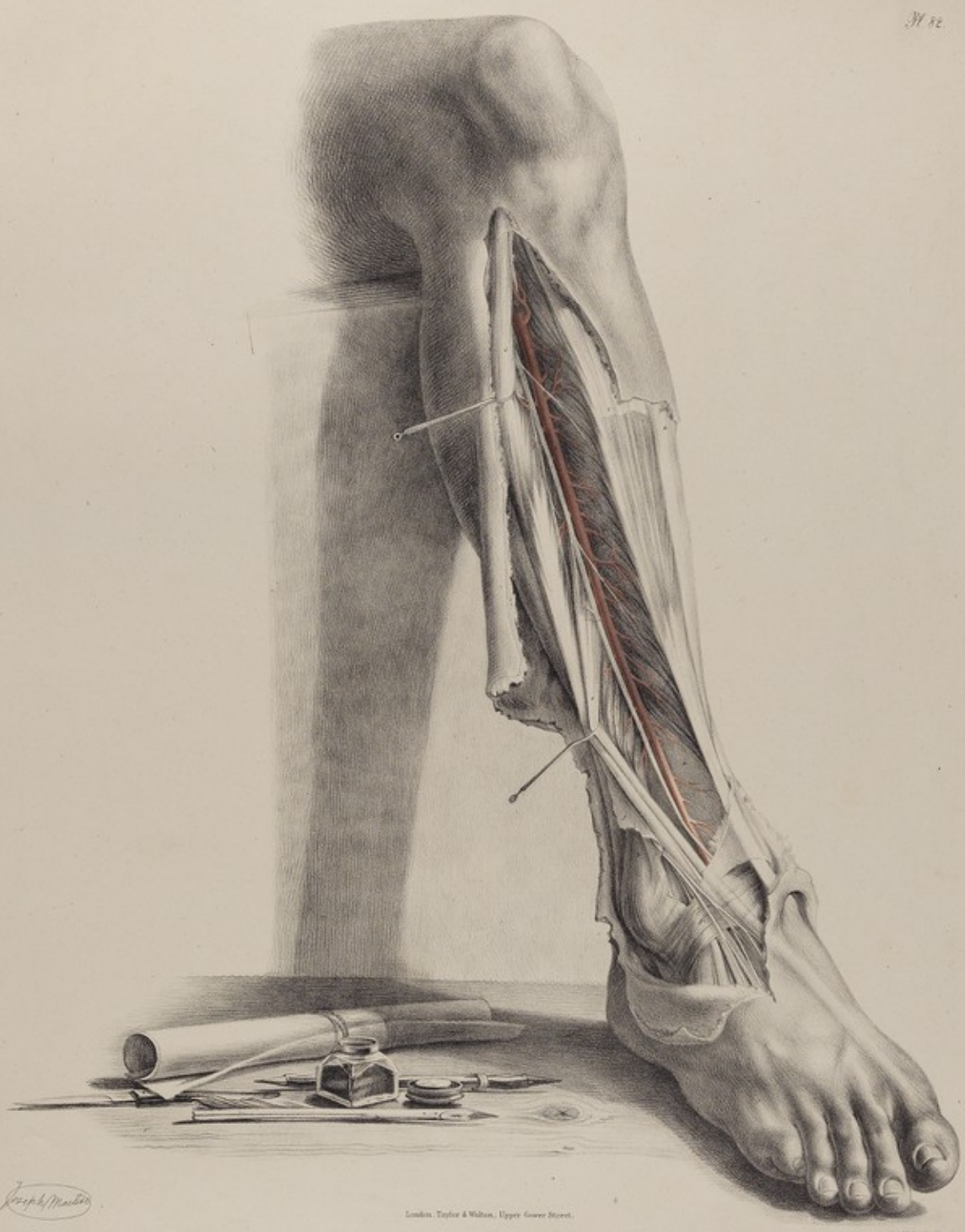
Fig. 1.

Joseph Martin

London, Taylor & Walton, Upper Cover Street.

1794, J. G. S. de la Roche





Joseph Martin

London, Taylor & Walton, Upper Green Street.

Chas. Bell & Co. Sculp.

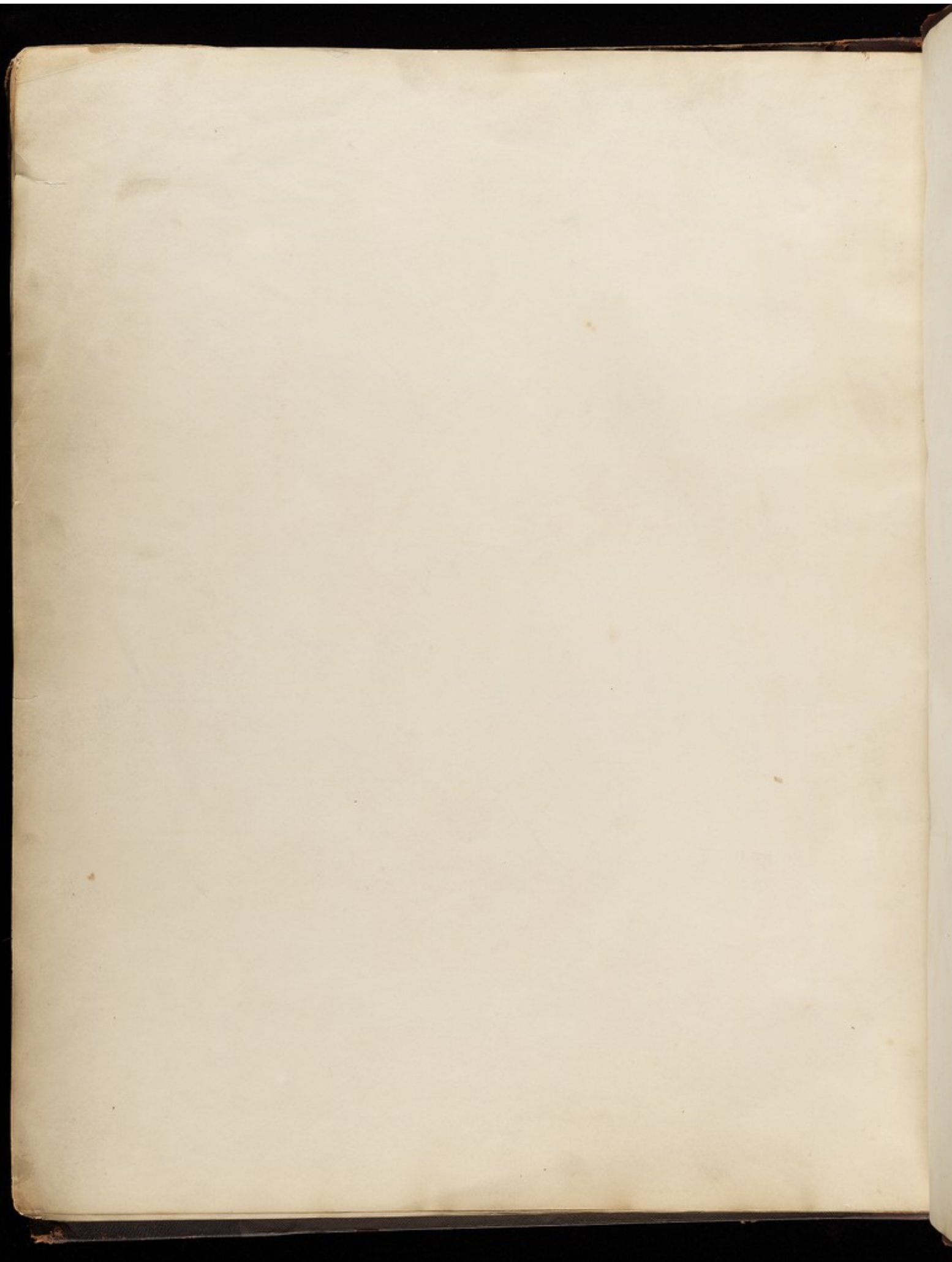


Fig. 3.

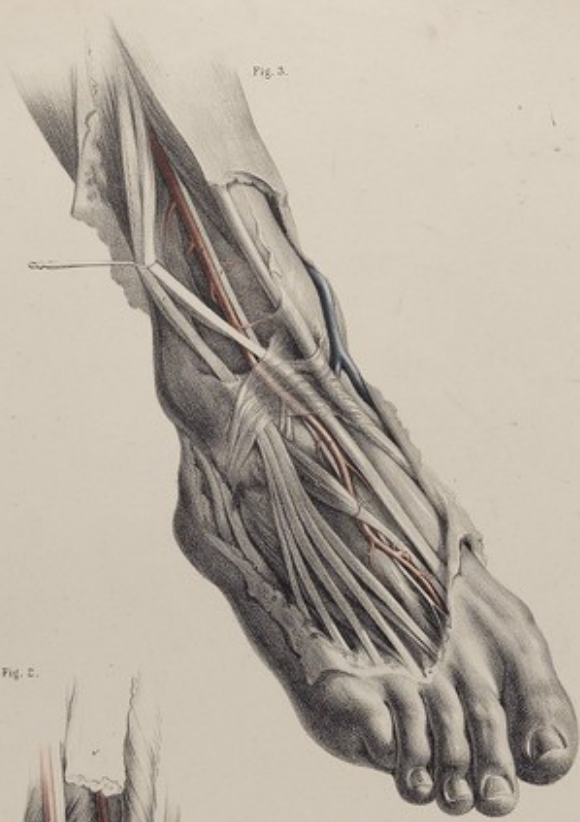
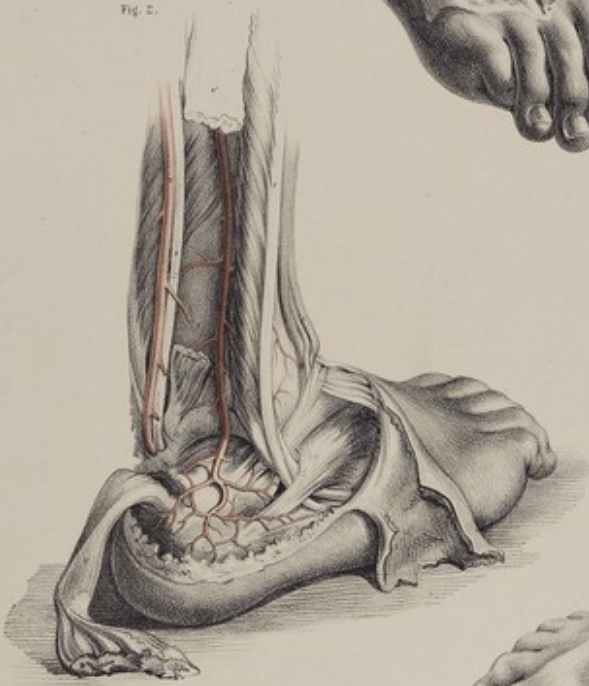


Fig. 1.



Fig. 2.



Joseph Martin

London, Taylor & Walton, Upper Cover Street.

Wm. Smith sculp.

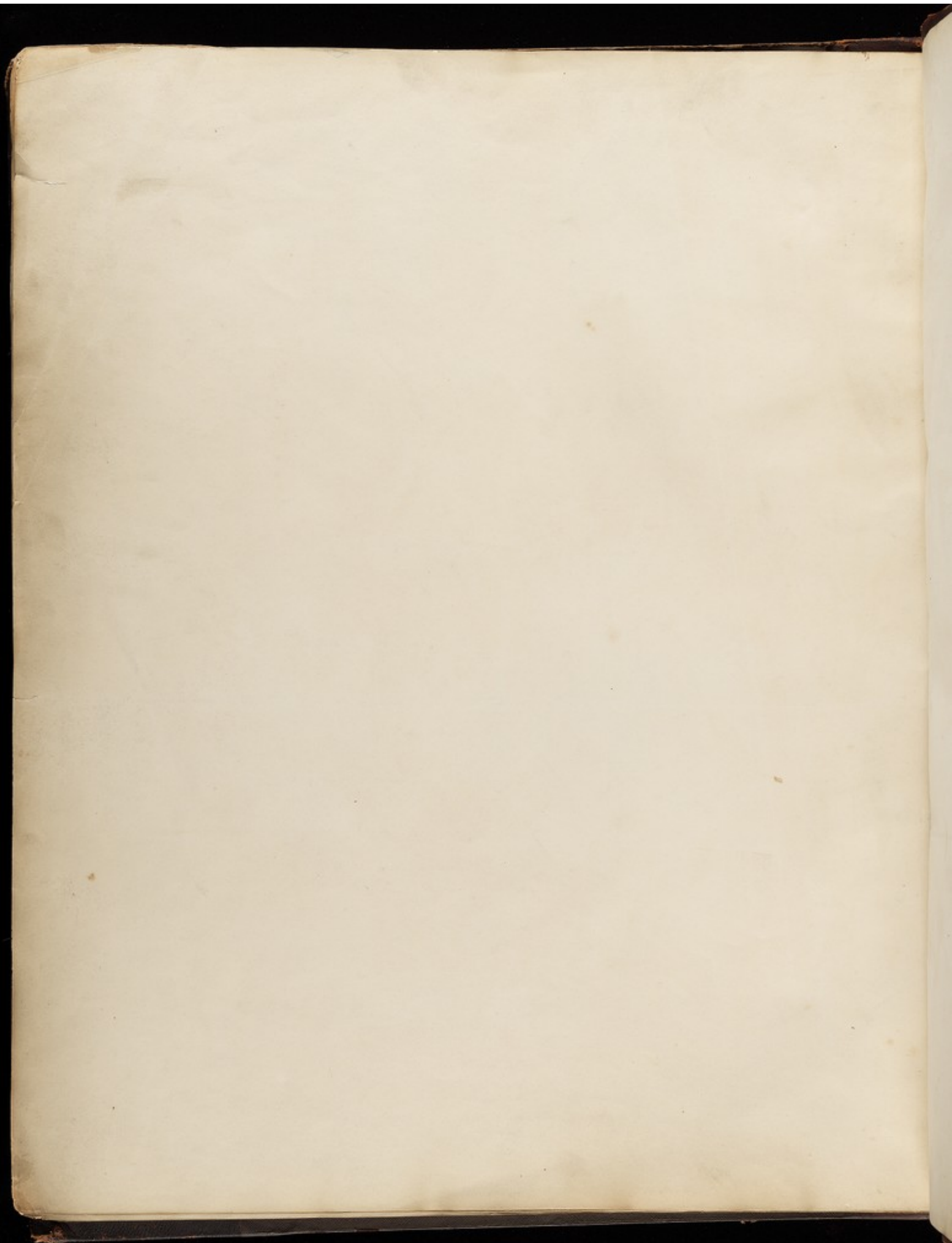


Fig. 3.



Joseph Mackenzie

Fig. 4.

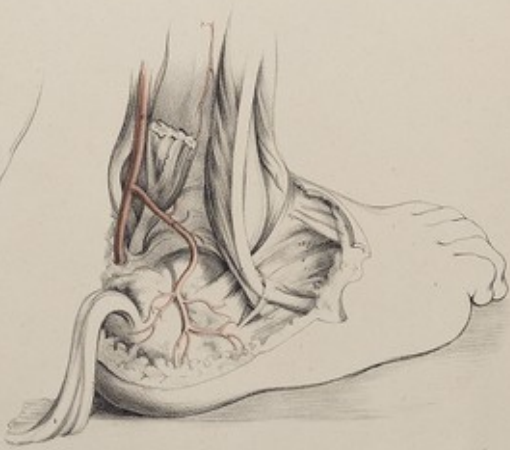


Fig. 1.

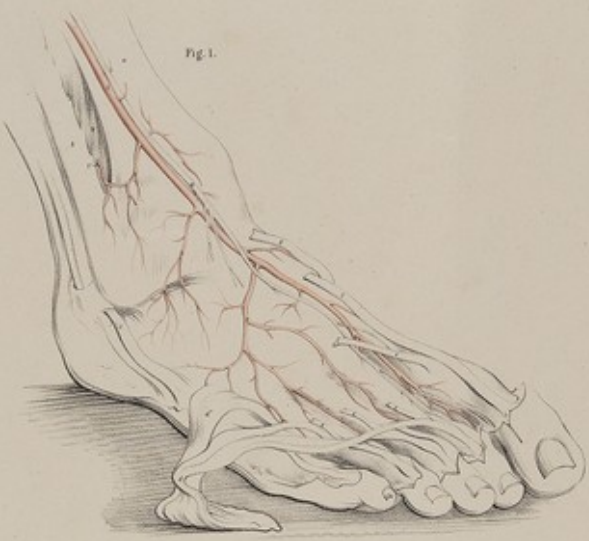
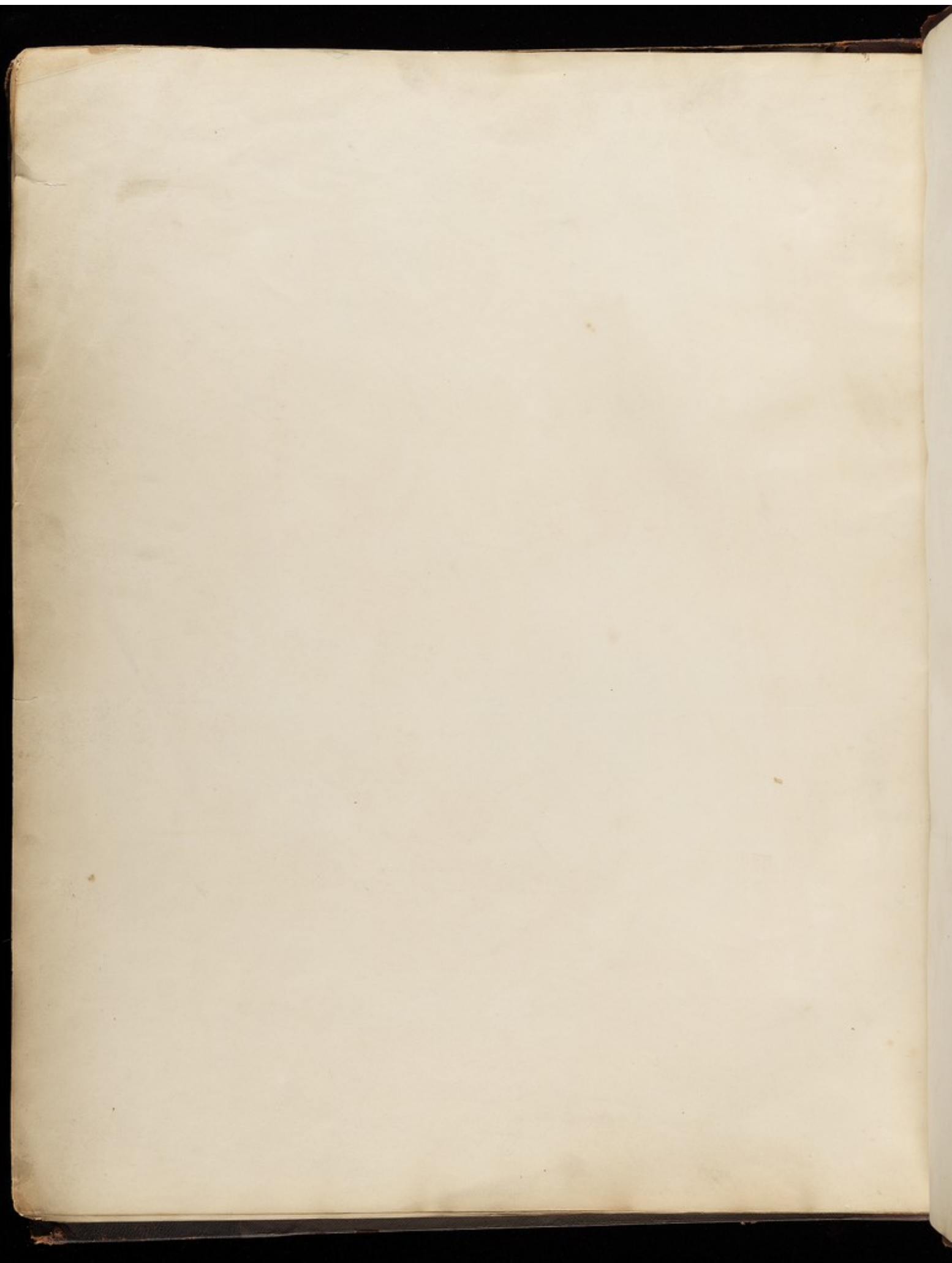
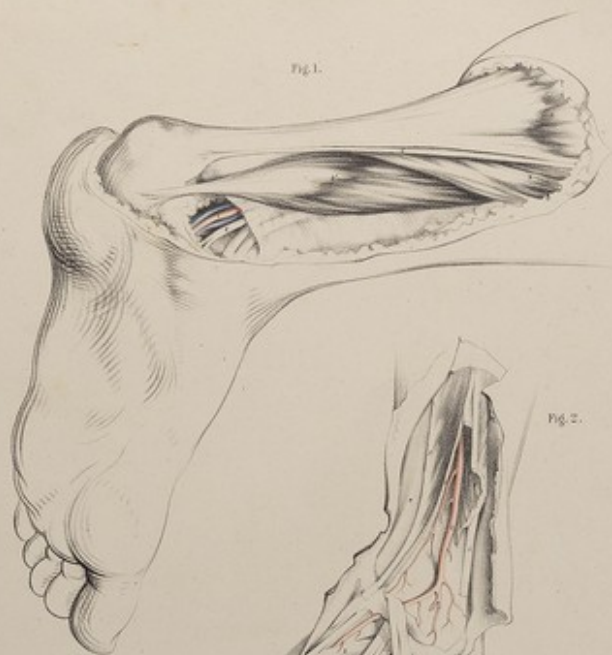


Fig. 2.



C. Drel. del. in the original





Joseph Maudslayi

London, Taylor & Walton, Upper Gower Street.

Printed by G. & C. Whittaker, York.

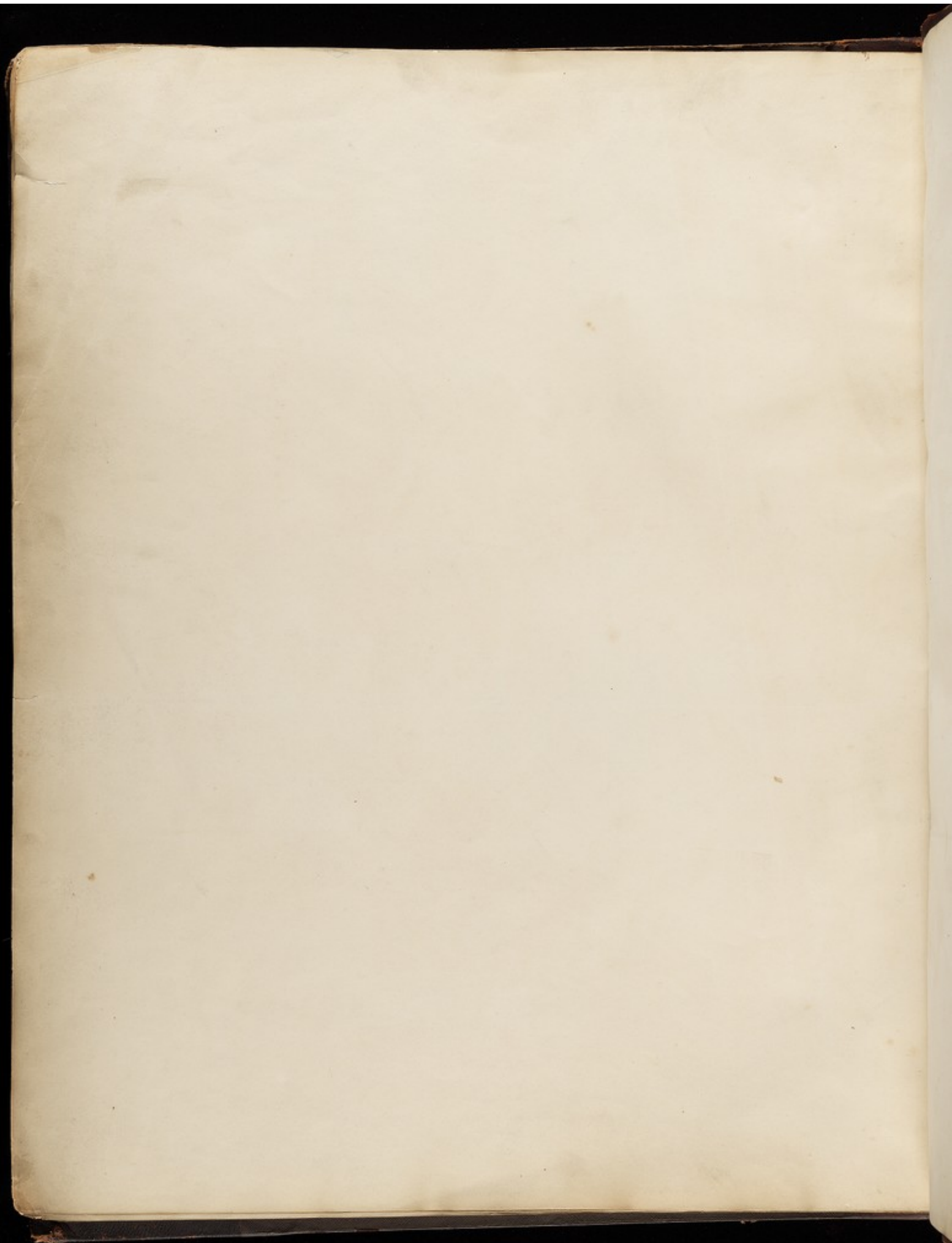


Fig. 1.

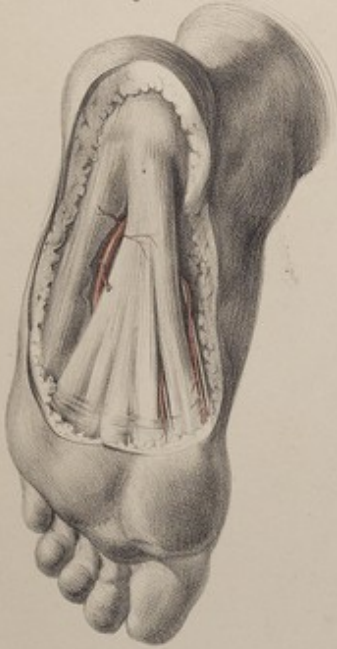
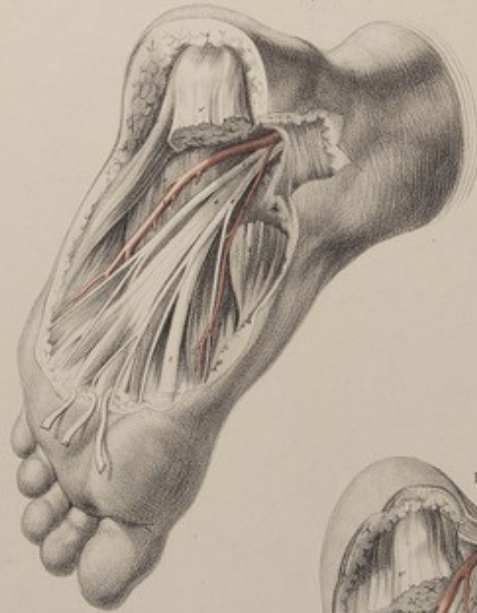


Fig. 2.



Pl. 86.

Fig. 3.

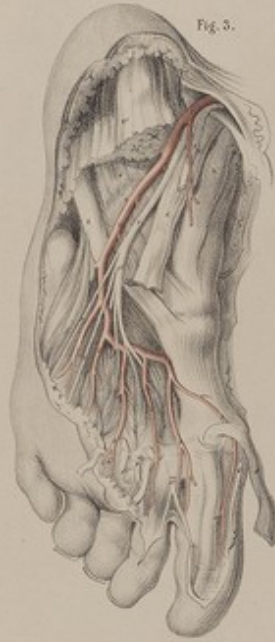


Fig. 4.

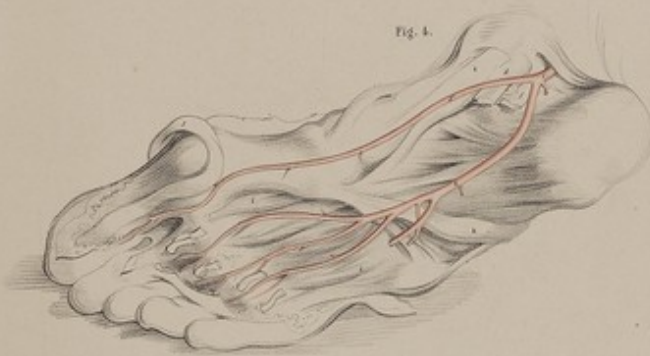


Fig. 5.



Joseph Maudslayi

London, Taylor & Walton, Upper Cover Street.

1 and 2, 1810, 1811, 1812

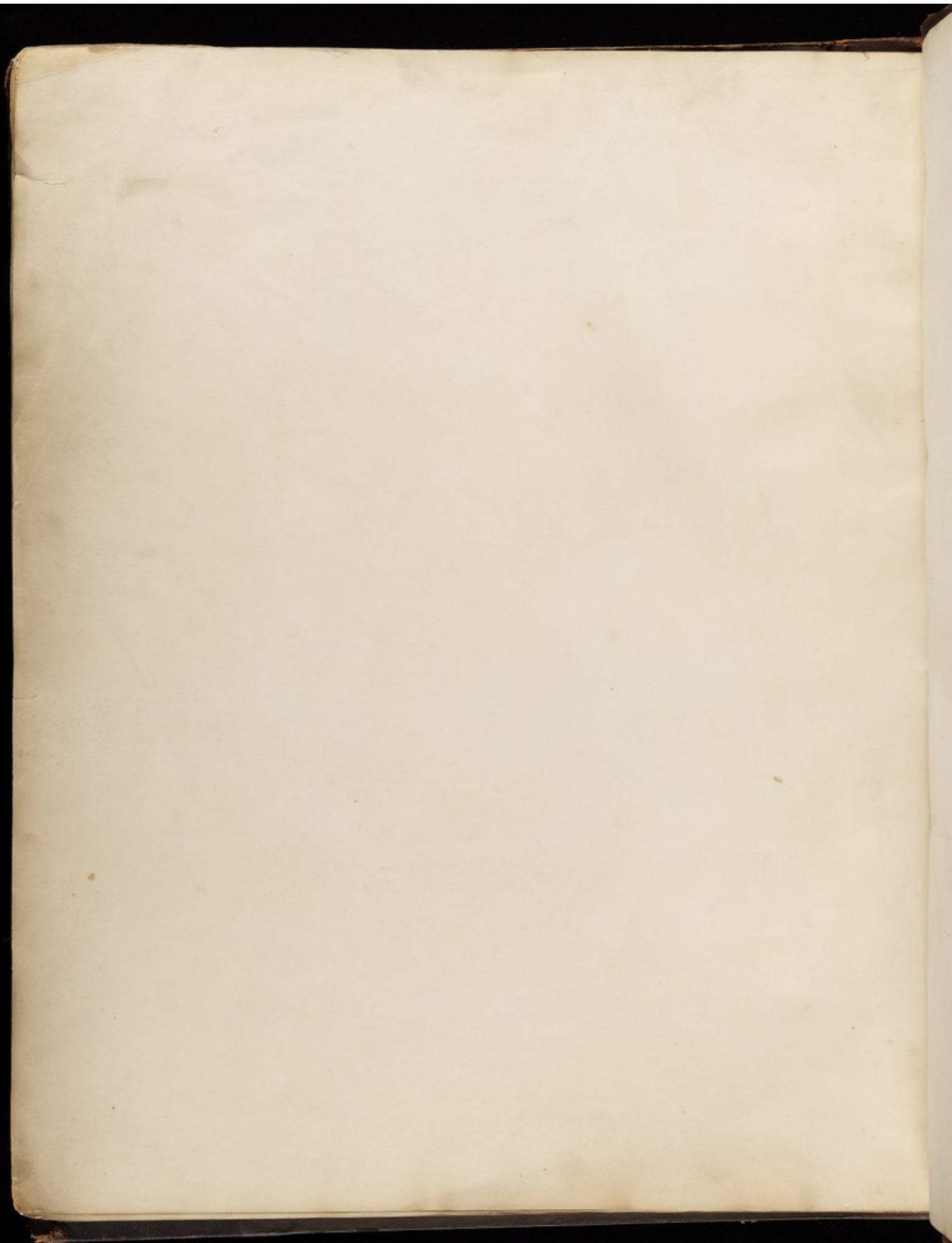


Fig. 1.

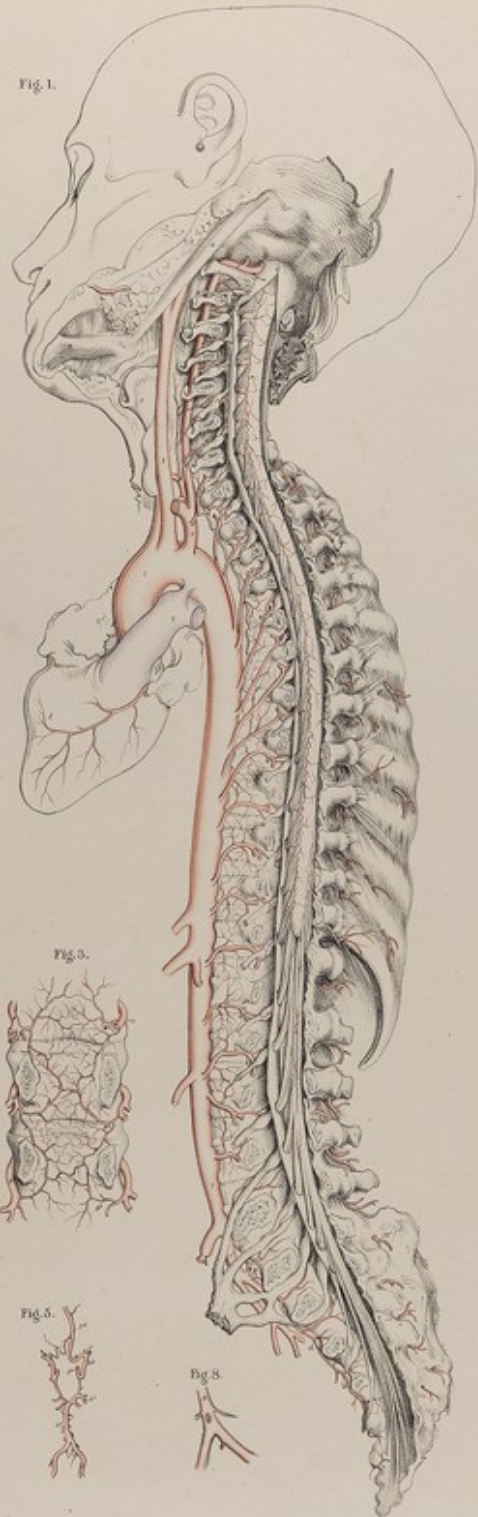


Fig. 2.

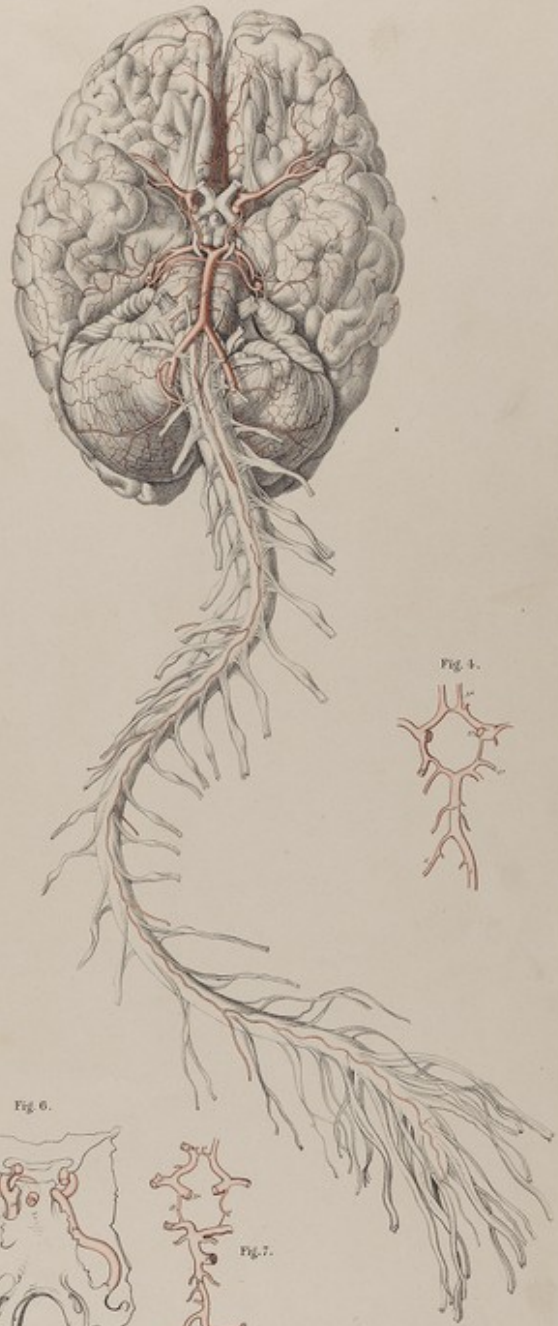


Fig. 3.



Fig. 5.



Fig. 8.



Fig. 4.



Fig. 6.



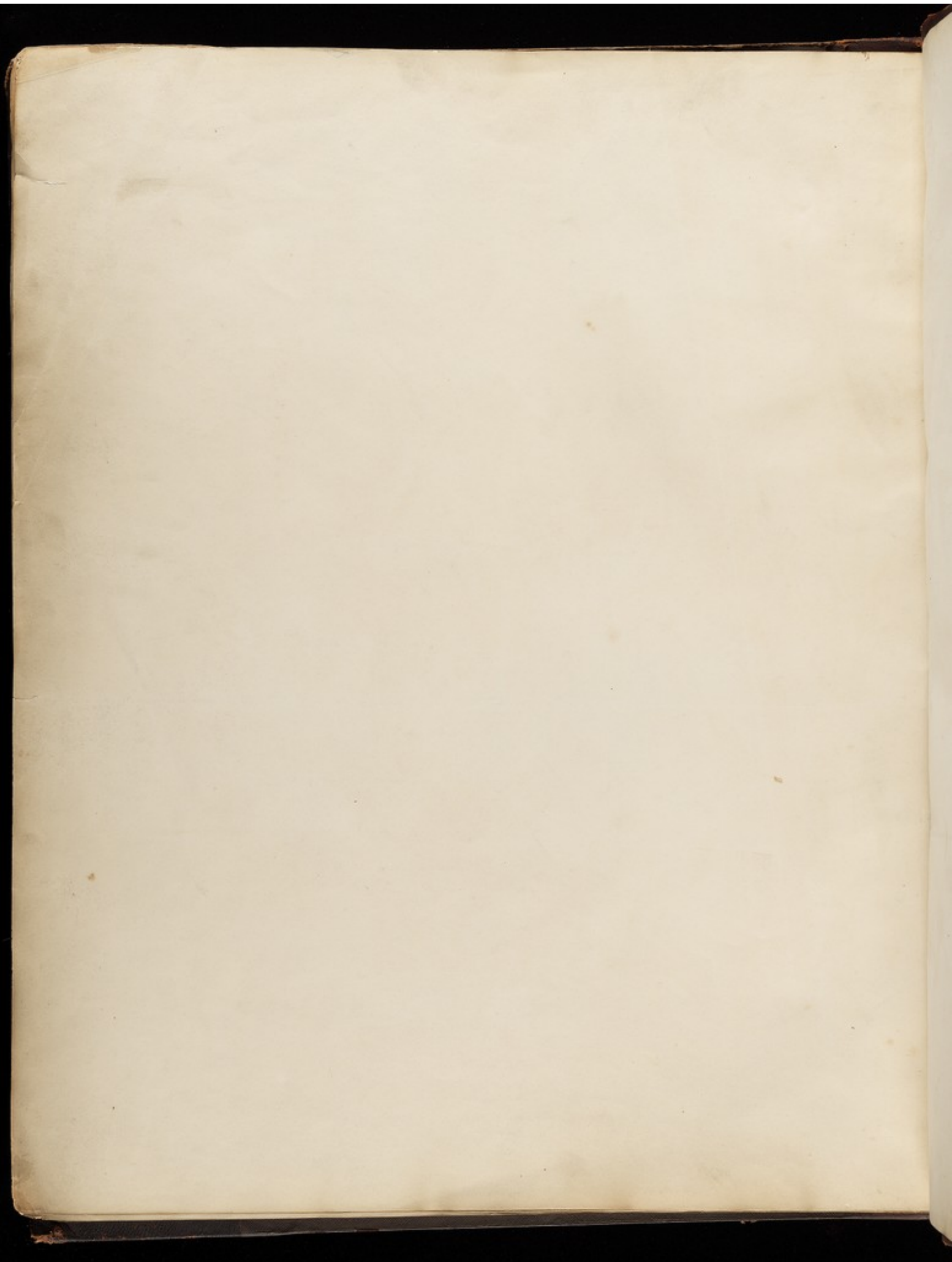
Fig. 7.

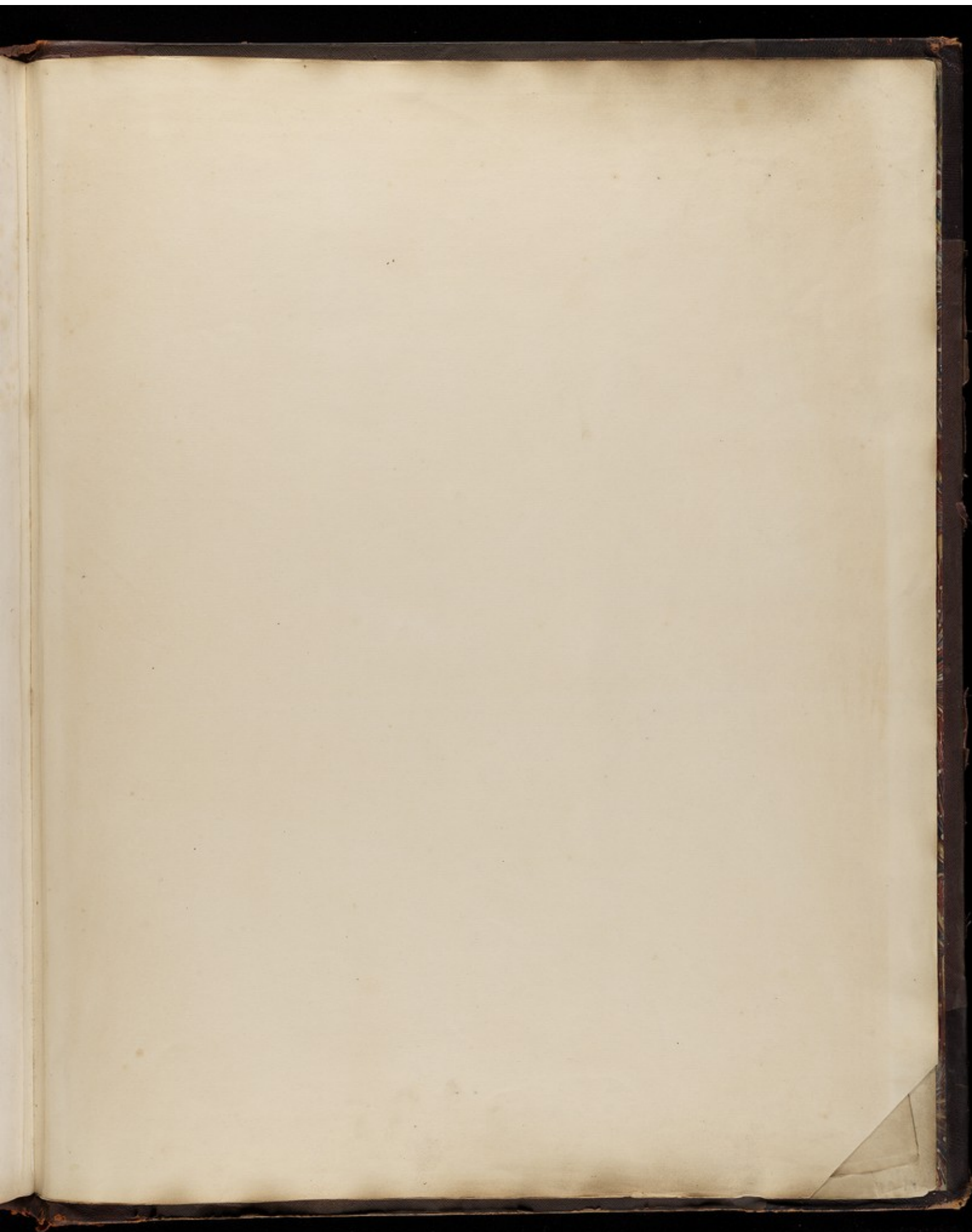


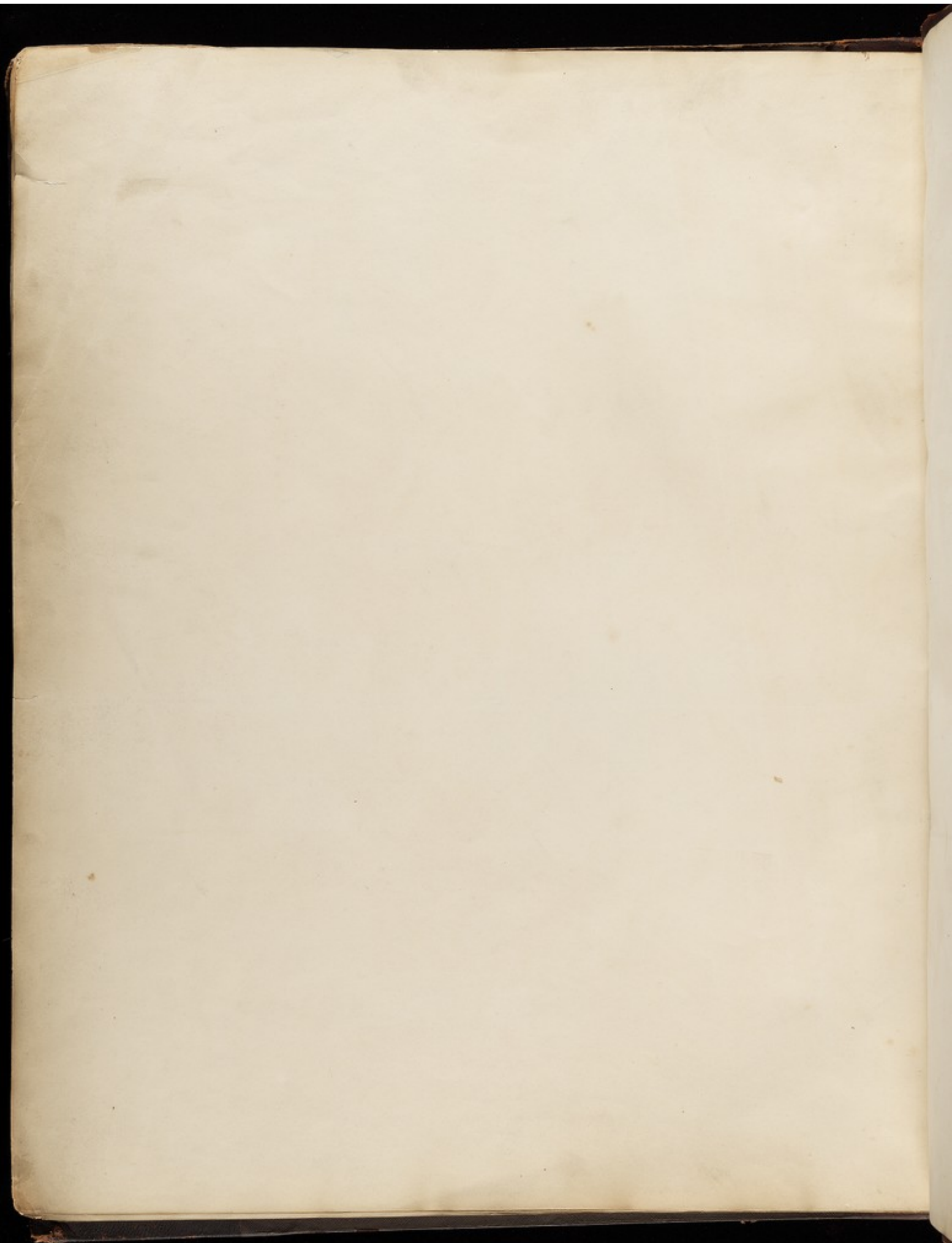
Joseph Martin

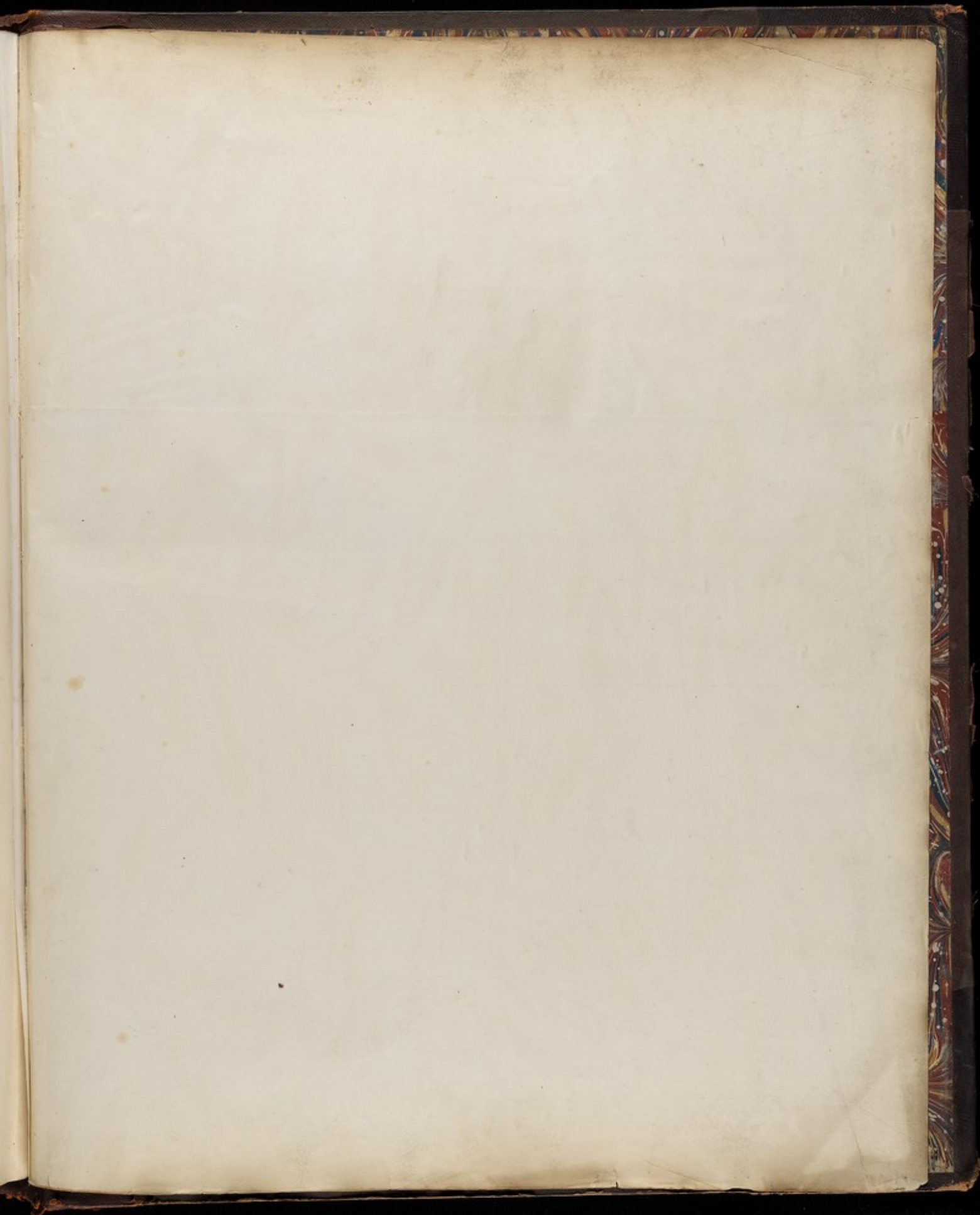
London, Taylor & Walton, Upper Gower Street.

Printed by J. G. & Co. in the Strand.

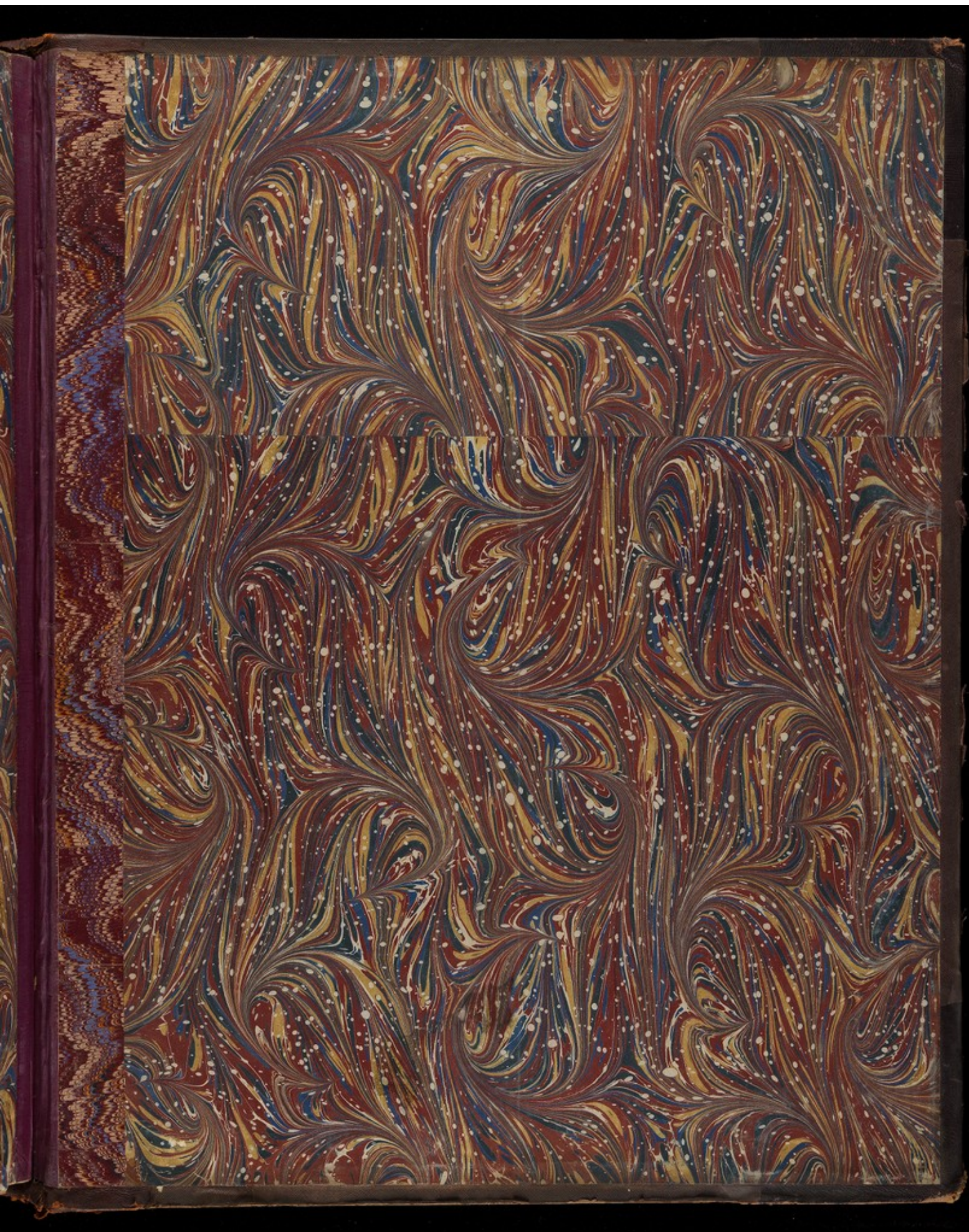


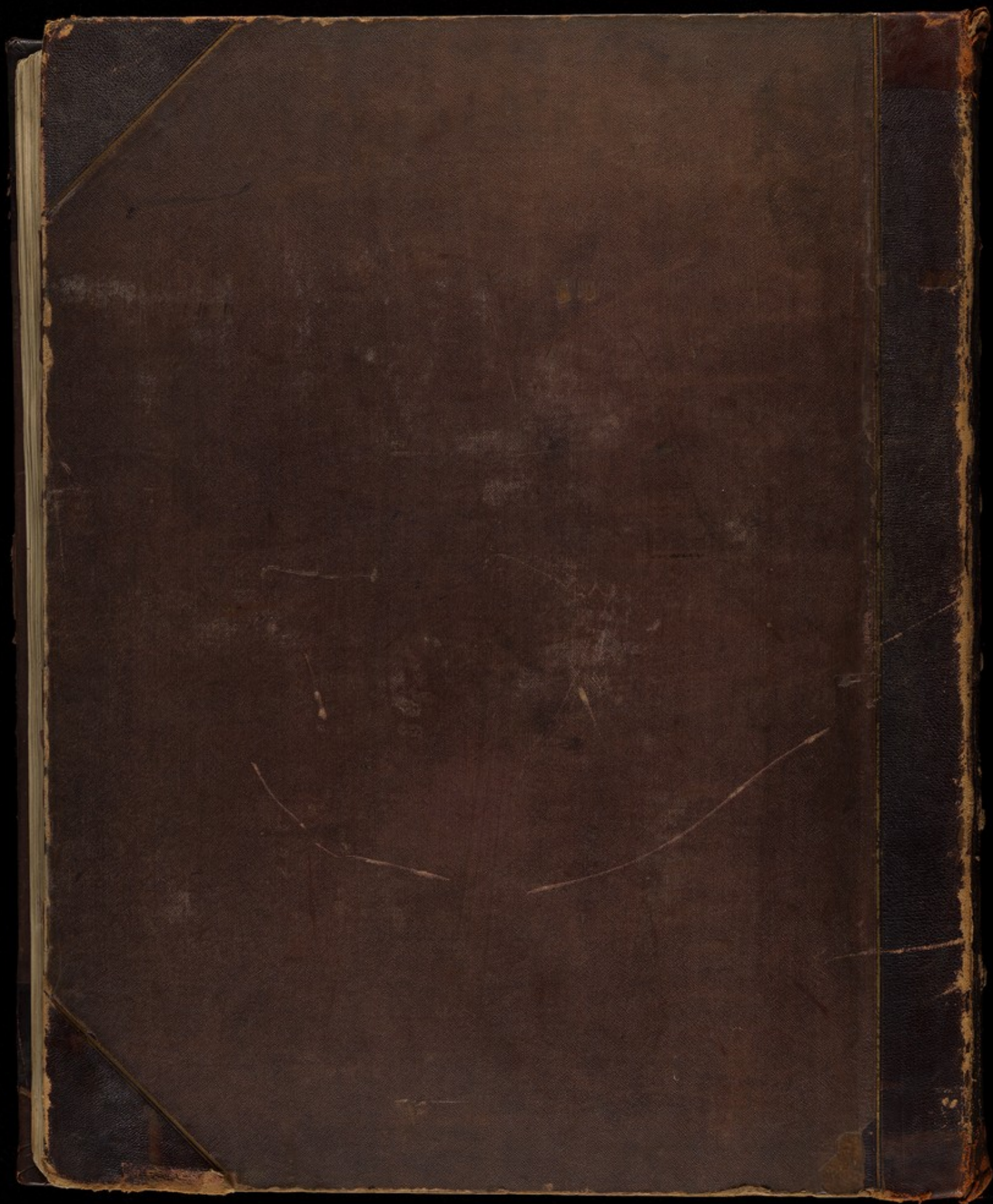












ANATOMY
AND
OPERATIVE
SURGERY
OF THE
ARTERIES

QUAIN