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THE
CRISP COLLECTION
OF
ANTIQUÉ MICROSCOPES

Tuesday, February 17th, 1925.

A CATALOGUE
OF
THE COLLECTION OF
ANTIQUÉ MICROSCOPES,

FORMED BY THE

late Sir FRANK CRISP, Bart.

It includes many rare and beautiful Instruments, by Hooke,
Marshall, Campani, Culpeper, Brander, Costa, Scarlett,
Adams and Martin.

RARE ITALIAN MICROSCOPES,
EARLY AND DECORATIVE SOLAR MICROSCOPES,
AND POCKET INSTRUMENTS,
by Lindsay, Clark, Martin, Watkins and Culpeper,
in Fishskin Cases,

ALSO

A MAGNIFICENT SILVER INSTRUMENT,
by George Adams the Elder.
Lieberkuhn's Dissecting Microscope and Two Pocket
Instruments, by Musschenbroek.

Which will be Sold at

STEVENS'S AUCTION ROOMS LTD.

*At their Great Rooms,
38 King Street, Covent Garden, and 15/16 Floral Street,
London, W.C.2,*

On TUESDAY, FEBRUARY 17th, 1925,
at 12.30 o'clock precisely.

On view day prior and morning of sale till 11.30.

Catalogues on application.

Telephone : Gerrard 1824.

Telegrams : " Auks, Rand, London. "

Established 1760.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2, two shillings and sixpence; and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

LASTLY.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques.

A CHARGE FOR WAREHOUSING WILL BE MADE ON
LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD 1824.

Telegrams :—
AUKS, RAND, LONDON.

FOREWORD.

This being the first occasion on which a Collection of Antique Microscopes has ever been catalogued for sale by Public Auction, it may not be altogether out of place to give a short account of the Crisp Collection. In its entirety it consisted of nearly 3,000 Microscopes and over 1,000 pieces of apparatus. When that part of the Collection consisting of the modern Microscopes was sold in these Rooms in a series of sales during the years 1920 and 1921, the earlier and rarer Microscopes now about to be offered were reserved for this final sale.

The Collection was formed during the latter half of the 19th Century by the late Sir Frank Crisp, Baronet, who for many years devoted himself to the study of their history and development. He was universally recognised as the leading authority, and all the important finds were brought under his notice during that period. He was able to obtain many rare and interesting forms that it would be now impossible to duplicate.

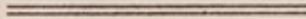
In the restricted space available in an auction catalogue it is only possible to give a very short description of most of the lots, and many of the interesting features have had to be omitted. Although the Auctioneers placed no restrictions of any kind on the cataloguer, he has found it necessary in many cases to be very brief, reserving more space for those Microscopes which, on account of their rarity and scientific interest, may justly claim a full description.

In arranging the Collection for sale by auction it has been thought best to depart from the chronological and perhaps the more scientific method, and sell them in groups, viz. :—

- (1) Simple Microscopes and small pocket compound Microscopes.
- (2) Compound Microscopes dating from the 17th Century to the introduction of achromatism in the early part of the 19th Century.
- (3) Optical Cabinets, Solar and Projection Microscopes. (The various Nuremberg wooden Microscopes have been placed by themselves.)

In each division, within limits, the instruments are catalogued in chronological order, original forms first, and then their variations and modifications by other makers.

It is perhaps advisable to say a few words as to the condition of the Collection generally. Some of the lots are described as "faulty," in most cases, however, the faults are quite trifling, but if there is any serious defect it will be found noted in the catalogue. As is nearly always the case with these early Microscopes, many are without some, or all, of their accessories (some of the earlier types, however, never had any), but this is only a secondary consideration, as both from an artistic and scientific point of view the interest is chiefly in the stand itself.



CATALOGUE.

ON TUESDAY, FEBRUARY 17TH, 1925,

AT 12.30 P.M. PRECISELY.

SIMPLE AND SMALL COMPOUND POCKET MICROSCOPES OF ALL PERIODS.

(NOTE.—*The rule shown in the photographs is 6 inches high.*)

LOT

- | | | |
|---|--|-----------|
| 1 | Three modern reproductions of rare microscopes—viz., Leeuwenhoek's hand microscope, in case, an interesting early 17th Century museum microscope, and a model of Leeuwenhoek's aquatic microscope | £ 3. 5. 0 |
| 2 | An old ivory screw-barrel microscope, with compound body ; very rare form | 2. 10. - |
| 3 | A turned ivory case, divided into compartments, which contain a flea microscope, a small microscope, magnifying lens, etc. ; rare form | 2. 10. - |
| 4 | Musschenbroek's simple hand microscope (1702), first form, in original leather case ; very scarce, only a few being now in existence
(See ILLUSTRATION.) | 5. - - |
| 5 | Musschenbroek's second form (1702), with a number of powers and other fittings (not quite complete), in original case, decorated with gold stampings ; very rare
(See ILLUSTRATION.) | 8. - - |
| 6 | Another example of the second form of Musschenbroek, with part fittings, in mahogany box (not original) ; very rare | 2. 15. - |
| 7 | Unique miniature Wilson screw-barrel microscope and fittings, the whole enclosed in a turned ivory case of 3 compartments ; one contains the microscope, one the powers, and one the ivory slides ; it is in a beautiful state of preservation | 3. 10. |

2. 15.0

8 An ivory Wilson screw-barrel microscope, with powers, etc., in fishskin case ; scarce

2. 10.-

9 Another, very similar

3 2. -

10 A beautifully engraved (on back and front) brass 17th Century hand microscope, after the form of that made by Cosmus Conradus Cuno of Augsburg, *circa* 1686; it consists of 2 plates, connected at the bottom by a hinge, below this is fixed the turned ivory handle ; in the front plate, near the top, and in the centre, the lens, which is of very high magnifying power, is placed in a circular fitting ; immediately behind this is fixed a brass wheel, containing 8 objects, which can be rotated ; the focusing is effected by a milled edge wheel, which connects the back and front plates ; on the back plate is a small aperture, to act as a diaphragm ; there is an additional small plate bearing a less aperture, which can be used when required ; this beautiful little instrument is signed Depovilly à Paris ; the length of the instrument is 5½ in., and it is in a perfect state of preservation, optically and mechanically ; extremely rare

Began at H

(See ILLUSTRATION.)

1. 2.0

11 A Wilson screw-barrel microscope, in black fishskin case ; signed E. Culpeper

1. 5.0

12 A Wilson brass screw-barrel microscope, in case ; signed E. Scarlett

1. 7.6

13 A Wilson screw-barrel microscope in brass, and a botanical microscope ; both in fishskin cases, with fittings

1. 12.6

14 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases

3 -

15 An early Wilson screw-barrel microscope, with ivory body, and some fittings ; in flat leather case

1. 5.0

16 A Wilson screw-barrel microscope, and another smaller ; both in fishskin cases

5. 10.-

17 A Wilson screw-barrel microscope, with compound body, and fitted to a tripod stage with folding feet, by E. Culpeper ; no case or fittings

2. 2.-

18 A Wilson screw-barrel microscope, with compound body ; no fittings or case

2. 5.-

19 A ditto, on scroll stand, and wooden base, with brass compound body, by G. Cramer of Groningae ; no fittings or case

10. 10.-

20 A small pocket microscope, with compound body, Demainbray form, by Thomas Bureau ; in grey shagreen case, and fittings

4. -

21 A ditto (no compound body), by Sisson ; in green shagreen case

1. -
2. 15.
3. -
4. 5.
5. 5.
6. -
- 22 A fine example of a compass microscope (no case) ; and a brass Wilson microscope (no case)
- 23 A Wilson brass screw-barrel microscope (no fittings or case) ; and small Wilson screw-barrel ; in fishskin case
- 24 A beautifully made microscope, on flat folding foot ; this is an exceptionally small portable microscope, and rare
- 25 A fine Wilson and Ellis aquatic combined microscope ; in fishskin case, very complete ; by Dollond
- 26 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 27 A fine and very complete compass microscope ; in fishskin case
- 28 A compass microscope, in leather case, with fittings ; signed Passemant, au Louvre
- 29 A Wilson screw-barrel microscope, part fitted, in fishskin case ; and a small compass microscope, in fishskin case
- 30 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in mahogany case
- 31 An Ellis aquatic microscope, with rack adjustment ; in fishskin case ; by Dollond
- 32 A pocket compound microscope, in fishskin case ; and a flower microscope, in case
- 33 A hand microscope, with a large wheel of objects, in leather case ; and a compass opaque microscope, in leather case ; both modern
- 34 A compound microscope, in red leather case, with fittings ; and a botanical microscope
- 35 An old French compass microscope, in case
- 36 A beautifully made little compass microscope, in rosewood case, with fittings
- 37 A compound microscope, in fishskin case, with many fittings, by Gilbert & Sons
- 38 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in case
- 39 An Ellis aquatic microscope, in fishskin case
- 40 A Wilson screw-barrel microscope, on scroll stand, fitted on turned circular base

5
~~12.0~~
 1. 5.0
 1. 5.0
 3. ~~10.0~~
 3. - -
 1. 5. -
 2. 5. -
 2. 10. -
 1. - -
 18. -
 2. - -
 1. 15. -
 1. 5. -
 14. -
 1. 5
 2. 12. 6
 12. -
 2. - -
 10. 7
 1. 7. 6.

12. 0 41 An Ellis aquatic microscope, in fishskin case ; and a botanical microscope, in mahogany case, by Bancks
3. - - 42 A beautifully made pocket compound microscope, with prism illuminator, and other fittings ; complete in mahogany case
- 14 - 43 A pocket compound microscope, with fittings, in mahogany case ; and another, folding into the case by a hinged joint at the base
12. - 44 A pocket microscope, in red leather case, by Bancks ; and another, part fitted, by Tuther ; both 19th Century
1. 6. - 45 A small pocket microscope, in fishskin case, with fittings ; and a Wilson brass screw-barrel microscope, in fishskin case
1. - - 46 A small microscope, on tripod stand ; not signed, but probably by Lindsay ; no case or fittings
18. - 47 A folding microscope, in mahogany case ; and a small pocket microscope ; both 19th Century
1. - - 48 A small microscope and fittings, by Cuff, in mahogany case (broken)
1. - - 49 Lyonett's dissecting microscope, with ball-jointed arm, one power ; no case or other fittings
10. - 50 A brass microscope, on tripod stand, by Hughes ; a lens holder ; and a small hand microscope ; all 19th Century
1. - - 51 A curious vial microscope, by A. Pritchard, 3 powers, 2 being in a glass-lidded case
1. 2. 52 A microscope, with a multiple eye lens ; and a botanical microscope, with screw adjustments
5. 10. - 52A A Wilson pocket screw-barrel microscope, in leather étui case, by Culpeper, with fittings
1. 1 53 An early Wilson screw-barrel microscope, of foreign make, in leather case ; scarce form
- 14 54 A Wilson screw-barrel microscope, part fitted ; and a botanical microscope ; both in fishskin cases
1. 10 55 A curious and rare form of hand microscope, with a large brass wheel fitted with objects, and a wheel for focusing, with wooden handle ; very scarce
1. 15. - 56 A ditto, all brass
1. 1. - 57 A ditto, all brass
16. - 58 A lignum vitæ hand microscope, in compartments ; and a bone ditto

1. - - 59 A bone hand microscope ; and 4 small Granger microscopes
2. 15. - 60 A rare type of pocket microscope, in the form of a book, by Fuller of Norwich, with fittings
3. - - 61 A spy-glass, with diagonal mirror, in fishskin case ; and an engraved linen testing microscope, in fishskin case ; both rare
1. - - 62 A Wilson screw-barrel microscope, on scroll, with folding feet
5. 5. - 63 Clark's pocket microscope, 1776, in fishskin case, with fittings
4. 10. - 64 A ditto, dated 1773
1. 1. - 65 A ditto, part fitted
- £32. - 66 Beautifully made solid silver microscope, by George Lindsay. This miniature microscope is of great interest. (1) It was the first microscope for which a patent was registered (1742) ; (2) on account of the neatness and compactness of the design ; (3) the beauty of its workmanship. Lindsay was watchmaker to George II., and this no doubt accounts for its neatness and accuracy ; the instrument and its fittings are contained in a fishskin case, $4\frac{1}{2} \times 2\frac{1}{2} \times 2$; only one other example in silver is known—viz., that in the Science Museum, South Kensington (Court Collection)
- (See ILLUSTRATION.)
13. 13. 0 ~~#~~ 67 Clark's pocket microscope, solid silver ; this is an interesting form of microscope, made by J. Clark of Edinburgh at the latter end of the 18th Century ; the instrument fixes in by screw to the base of the case, which is of fishskin
11. - - 68 An aquatic hand microscope, with 2 powers, in fishskin case ; and a botanical microscope, in mahogany case ; both scarce forms
1. - - 69 A portable compound microscope, in fishskin case, inclining at the base, folding tripod foot ; very complete
4. - - 70 A Wilson screw-barrel microscope, with black ivory compound body, in fishskin case ; and a number of fittings
6. 10. - 71 A ditto, larger
18. - 72 A fine Ellis aquatic and Wilson microscope, combined with fittings, by Dollond, in fishskin case
2. - - 73 An early type of wooden lignum vitæ microscope, with fittings, in cylindrical fishskin case ; very rare form
1. - - 74 A pocket microscope, with beautifully engraved stem and feet which fold, by F. Watkins ; complete in fishskin case

1. 10. - 75 A curious old ivory microscope, with powers, etc., in square ivory box with sliding lid; probably unique
- 10^s
~~#~~ 16/- 76 An Ellis aquatic microscope, in fishskin case
- 12/- } 77 Two small Goulds' pocket microscopes, and another; all 19th Century
- 78 A brass botanical microscope, with compound body; and 2 other botanical microscopes, in black cases
- 79 A Wilson screw-barrel microscope, with rack adjustment, on flat folding feet stand; scarce form
1. 5. 0 80 A fine pocket compass microscope, with fittings, in green leather case; probably French
10. - 81 A small brass drum microscope, by Secker à Paris; and another microscope, faulty
10. - 82 A portable microscope, in mahogany case, by Bancks, and another, portable; both 19th Century
4. 10. - 83 A Wilson screw-barrel microscope, on decorated scroll stand, fitted to a mahogany box base, with drawer
2. 10. - 84 A Wilson all-brass screw-barrel microscope, with compound body, on tripod stand
3. - - 85 A case of 11 dissecting lenses, by Pritchard, said to be jewel lenses
12. - 86 A compass microscope, on stand; and a small single lens magnifier, on stand
8. - 87 A curious microscope, on wooden base, with metal mirror; and a wood imitation of a Wilson microscope
1. - - 88 A very curious early simple microscope, with rack adjustment, on circular wood base
- 3 - - 89 A small model of Cuff's double microscope, on mahogany box base
10. - 90 An Ellis aquatic microscope, no case or fittings; and another microscope, on wood base, with drawer
2. 2 91 A dissecting microscope, in mahogany case, with fittings, by Chevalier
10. - 92 Part of a microscope, in mahogany box; a hand-glass, in wooden frame; and a pocket walking-stick telescope; all 19th Century
3. - - 93 A beautifully made miniature microscope cabinet of 5 drawers, containing a collection of arranged microscopic objects, mounted in ivory

3. 10. - 94 A pocket microscope, by Cuff, on wooden oval base, 1 power, and forceps, no case or other fittings
16. - 95 A microscope, with rotating wheel of objects; and another, with 2 Lieberkuhns on the same mount, in leather cases
2. 2. - 96 A microscope, on tripod stand, by Watkins; and another (smaller), no case or fittings
8. - 97 A vial microscope, and a mounted magnifying glass
5. - 98 A wooden microscope (modern), and 2 mounted lenses, on stand
16. - 99 A botanical microscope, in pyramid-shaped case; pair of mounted lenses, and 2 hand-flower microscopes
2. 0. 0 100 Lyonett's dissecting microscope, in mahogany case, with fittings
3. 0. 0 101 A small camera-obscura microscope, by Chevalier
10. - 102 A portable microscope (incomplete), 2 boys' microscopes, and 2 small hand microscopes; all 19th Century
4. 0. 0 103 A hand microscope, with rotating wheel of powers, in mahogany case; and a compass microscope, no case
10. - 104 A hand-glass magnifier in ivory, a cup set of magnifiers, 2 compass microscopes, and a hand-flower microscope; all 19th Century
12. - 105 Small lignum vitæ microscope, botanical microscope, small hand microscope, in case, part of another, and a seed microscope
8. - 106 Two small ivory Coddington lenses, 2 others, by West, 4 small hand microscopes, and part of a microscope; all 19th Century
12. - 107 A snuff-box, fitted with a spy-glass, a hand microscope of lignum vitæ, small botanical microscope, and a medal

COMPOUND MICROSCOPES,

the bodies being made of wood, ivory, etc., with screwing or sliding adjustments; late 17th and early 18th Centuries.

12. 10. 0 108 Modern copy of Janssen's compound microscope; the original is in the Museum at Middelburgh, and a copy of Divini's compound microscope (1667-8)
20. - - 109 A full-size copy of Robert Hooke's original compound microscope, as described in his book, "The Micrographia," 1665.

Shepherd

- £ 160. - - - 110 An original modification of the Hooke microscope, dating from about the year 1675; the outer body is covered in dark crimson leather decorated with gold stamping, the inner bodies are of white vellum undecorated, the mounts in turned lignum vitæ, the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached, up or down, on the vertical column; this instrument is in a good state of preservation, certainly very rare, and probably unique

(See ILLUSTRATION.)

- £ 45. - - - 111 A beautiful little compound microscope, made by the celebrated Italian optician Guiseppe Campani; the compound body is entirely of wood, screwing into a brass tripod base, with an interesting spring attachment to hold the slides; the focusing is effected by screwing the compound body into the top of the brass tripod, which bears the maker's signature—viz., G. Campani in Roma; the eye-lens is double convex, of about 1-in. focus; there is no field-lens; the objective lens is a double convex of about $\frac{3}{8}$ -in. focus; the distance between the eye-lens and the objective can be varied; this beautiful little microscope is very rare, only about a dozen examples being known; it is both optically and mechanically perfect

(See ILLUSTRATION.)

14. 14.0 112 An early Italian microscope, with wooden body, mounted on an open brass tripod; this instrument closely follows the design of other microscopes known to be made by Campani, and may perhaps be attributed to him; it, however, bears no signature of any kind

13. - - - 113 An old English microscope, with green vellum outer body, signed J. Mann Fecit, and mounted in wood (broken); the entire base is not original, being more modern (A.F.)

26. 5.0 114 An early English tripod microscope; the outer body is of white spotted vellum, decorated with gold stamping, the mounts being in wood; the focus is effected by screwing the nosepiece into a collar at the top of the tripod; the circular wooden base bears the object carrier; very scarce

14. 14.0. 115 Another similar form of microscope, with both the outer and inner bodies covered in green vellum, with gold stamps; the base, which is of lignum vitæ, has been repaired; very scarce

16. 16. - 116 A tall tripod microscope, of early date and foreign origin, probably German; the outer body is elaborately decorated with designs in red and green; the base, which is in the form of a tripod, together with the objects carrier, are all beautifully carved wood; unique

£17. - - 117 An early English compound microscope, made by J. Marshall, in Ludgate Street, London, *circa* 1704 ; the outer body covered with white vellum, with red and green spotted ground, with gold stampings ; the mounts are of wood ; the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached up and down on the square vertical column, and fixed by a jamb screw, the finer focusing being effected by means of an octagonal nut working on a screw ; both eyepiece lenses missing, and all other fittings ; it has, however, 5 out of the 6 original objectives ; very rare, only about 12 being now known

£22. - - 118 An early English microscope, made by John Marshall, in Ludgate Street, London, *circa* 1704 ; the design and mechanical adjustments are similar to the preceding microscope ; the covering of the outer body is of bright green vellum, with gold stampings ; the inner body is green vellum, undecorated, the mounts are of turned lignum vitæ ; the whole instrument can be inclined by means of a ball-and-socket joint at the base of the pillar ; the whole is fixed on a rectangular octagonal base, with drawer ; this instrument has 4 out of the 6 original objectives, a holder for opaque objectives, and a pair of stage forceps

(See ILLUSTRATION₉)

£13. - - 119 Another example of John Marshall's double microscope ; the outer cover is grey shagreen, the inner body being green vellum, with gold stamping ; this microscope has the 6 original object-glasses, the opaque holder, a small stage condensing lens that can be attached to it, another holder carrying a spring stage, hand forceps, and a small mirror, which is not contemporary ; on octagonal base, with drawer to hold the apparatus

£14. - - 120 A modified form of John Marshall's double microscope of later date ; in this model the ball-and-socket joint is replaced by a vertical column, which is rigidly fixed to the box base ; the transverse arm, which carries the compound body, can be moved up or down to focus in exactly the same way as the Marshall microscope ; the fitting which carries the stage and other accessories is rigidly fixed to the upright column ; the outer body is covered with crimson leather, with gold stampings on both edges, the inner body is of green vellum, with similar stampings, the mounts being of turned wood ; the instrument has the 6 original objectives, the stage condenser fixed to a movable arm, stage forceps, opaque holder, spring stage, and 3 ivory slides ; this instrument is fitted with a plain mirror

10. - - -

- 121 An early tripod microscope, with green vellum outer body, fitted with 2 draw tubes; the focusing is effected by sliding the nosepiece of the compound body into a wooden collar surmounting the tripod; this instrument closely follows the form of Divini's microscope; the base is circular, with a curious movable object-plate; very rare

3. 10. -

- 122 An interesting tripod microscope, with compound body of very unusual form, being constructed of ebony with ivory mounts; the focusing is effected by screwing the nosepiece into the collar of the tripod; it is fitted with a mirror; very rare

£31. - - -

- 123 An early Italian microscope, of very original design; the compound body is covered with black leather, and the mounts are of turned ivory; the transverse arm that carries the compound body can be moved backwards or forwards on the upright column, and also up or down to focus the instrument; the whole is mounted on a brass tripod base, to which are attached a ball-and-socket arm, carrying a stage condensing lens; it is also fitted with a mirror, a rotating object-carrier; it bears the inscription, *Elaboratum a Blasis Burlini Venetiss Optico*

(See ILLUSTRATION.)

7. 7.0

- 124 A microscope of unusual construction, the outer and inner bodies of green leather, richly embossed with gold stampings; it bears the inscription in gold lettering on the front of the body tube, *Johann Balthasar, Oppelt Opticus Auspach in Francken*

13. 13. -

- 125 A modified form of Hooke's microscope, the outer body decorated with gold designs, rigidly fixed to a vertical column; the compound body, however, can be moved laterally, and fixed in position by a jamb screw; the stage is movable up or down to focus, and there is a mirror; on box foot, with drawer; rare form

£4.

- 126 An early type of tripod microscope; the focusing is effected by screwing the nosepiece into a collar at the top of the tripod; the body is of wood, and there is a mirror fitted to a turned wood base

£5.

- 127 A French modification of Marshall's double microscope, the top being of turned wood, and the body of brass; the fine adjustment screw is at the back of the vertical column, which carries the compound body; the instrument is inclinable, by means of a compass joint; the base is of brass, fitted with a mirror, which, with the stage, are probably of a later date than the rest of the instrument; rare

- £3. -- 128 A microscope of unusual design, with conical body, the outer body of red lacquer fixed on the top of a slender brass rod, from which, by means of a joint, it inclines; the box base is of wood, inlaid, fitted with a drawer; unique
9. -- 129 A beautifully shaped box form of microscope, the mirror being enclosed in the box base; in use, the front of the box is removed from its grooved fitting, with 4 ormolu claw-shaped feet; the outer covering of the compound body is of green shagreen, with wood and ivory mounts; it is fitted with a rotating object-holder and stage forceps; probably of French make, and in perfect condition
6. 6. -- 130 A similar microscope, with stage condenser, stage forceps, and rotating holder for a fish-plate; the compound body covered in shagreen, with wooden mounts
9. 9. -- 131 A similar microscope, elaborately decorated with ormolu mounts, and claw feet; in this instrument there is a wheel of diaphragms in front of the mirror; the outer covering of the compound body is black leather, the mounts being of wood
(See ILLUSTRATION.)
- £31. 132 The historical microscope, formerly the property of Pope Benedict XIV, who succeeded to the Pontificate A.D. 1740; this beautiful little microscope, in general design, resembles the 2 preceding microscopes; the beautifully made box base is elaborately inlaid with designs in marquetry on all sides, the front panel having a decorated shield design surmounted by the triple mitre and cross-keys; the compound body is covered in delicate green shagreen, with wood and ivory mounts, the metal parts being gilt; it has an engraved arm to carry the condensing lens, and a beautifully-engraved scalloped rotating object-holder; the hand forceps are also engraved; the apparatus is contained in a drawer in the base; this instrument is in perfect condition, and complete
(See ILLUSTRATION.)
- £4. 10. 0 133 A box form of microscope, with ornamental feet, the adjustment being effected by a rack and pinion; the compound body is of brass
4. 10. -- 134 A similar microscope, but no ornamental feet
5. 10. -- 135 A box form of microscope, the compound body covered with fishskin, with wood mounts, and drawer under, which contains a few fittings
6. 6. -- 136 A box form of microscope, with all-brass body; the focusing is effected by rack and pinion; 2 drawers in the base contain the object-glasses and other fittings

- £ 3. - -
- £ 33. - -
3. 10. -
2. - -
11. - -
2. 15. -
4. - 5. -
5. 5. -
4. - -
3. 10. -
3. 5. -
6. - -
3. - -
3. 10. -
- 137 A curious old microscope, adjustable, on an upright brass rod; the stage is fixed at the top of a small tripod, the mirror being underneath, mounted on a square wooden base, with drawer; a very scarce form of microscope
- 138 A beautiful microscope, the compound body of tortoiseshell and ivory, fitted with a complicated micrometer stage, screw adjustment to the mirror; on a beautifully shaped box foot; it bears the inscription on the stage, D. Joannes de Guevave, Fecit 1752; the instrument itself is in very good condition, but unfortunately the optical part is missing
(See ILLUSTRATION.)
- 139 A compass microscope, with ivory compound body, fitted to a box base, with 2 drawers, which contain a number of accessories
- 140 A curious microscope, with compound brass body, the upright pillar and stage being all of wood; on octagonal-shaped base; scarce and interesting form of microscope
- 141 Small microscope, with ivory compound body, on ornamental scroll stand; fine adjustment applied to the stage; on circular base, fitted with mirror
- 142 Another small microscope, signed W. R. Fecit, closely following the design of Wilson's screw-barrel microscope, with the compound body
- 143 An early tripod form of microscope, the outer body covered in red leather with gold designs, and wooden mounts to eye-pieces; probably of Italian origin
- 144 The original form of Culpeper's tripod microscope, the outer body covered in grey shagreen, by Edmund Culpeper; in case, with 5 powers, and other fittings in the drawer
- 145 A similar microscope in all respects; in case, no fittings
- 146 Another, the same as the above
- 147 Another, ditto
- 148 A Culpeper form of microscope, the outer body covered with red leather; the screw cap contains 4 powers; in case, no other fittings
- 149 A Culpeper type of tripod microscope, grey shagreen outer body; a few fittings in case
- 150 A similar microscope, covered in red shagreen; the entire eye-piece is missing; with a few fittings in case (A.F.)

4. 15. - 151 Another, similar, quite perfect ; with a few fittings in the drawer
3. 3. - 152 Another, similar, the outer body covered in red leather with gold designs ; brass inner body ; no case
4. - - 153 Another, the outer body covered in red shagreen, by J. Cuff ; a few fittings in the drawer of the base ; no case
1. 15. - 154 Another, in which the compound body screws up and down to focus, mounted on a square wooden box base
3. - - 155 Another tripod microscope, the outer and inner body both of box wood ; on octagonal box foot, in the drawer of which there are a few fittings
2. 15. 0 156 A Culpeper form of tripod microscope ; outer body covered in black leather ; on octagonal box foot
1. 5. - 157 A tripod form of microscope, all brass
2. 10. - 158 A tripod microscope, outer body in grey shagreen ; on octagonal box foot ; with a few fittings
5. 10. - 159 Another tripod microscope, on octagonal box base, the outer body covered in grey shagreen ; there are a few fittings in the drawer of the box foot
2. - - 160 A tripod microscope, brass outer body, with rack adjustment ; on square box base
3. 3. 0 161 An original Culpeper tripod microscope ; the outer body covered in grey shagreen
7. 10. 0 162 A Culpeper tripod microscope, the compound body being of brass, the eyepiece end in wood, fitted on an octagonal base ; on the instrument is engraved Dr. Demainbray
2. 15. - 163 An interesting old microscope, on brass stand, with wooden compound body and screw focusing ; it is inscribed Guileo Architelle Idranbier Invent e Feci
1. 10. - 164 A similar microscope, all brass, with wooden base ; no inscription
4. - - 165 A pocket drum microscope, the outer body covered in red shagreen, signed B. Martin, London
3. - - 166 A pocket drum microscope, smaller ; the outer body covered in green shagreen
13. 13. 0 167 G. Adams' universal microscope (1746), black ivory body, 8 powers, tripod folding foot, on the upright stem is engraved, " Made by G. Adams, in Fleet Street, London " ; the whole enclosed in a black fishskin case, which contains a number of fittings

£26. --
 Chippendale

- 168 A very fine and improved form of the above microscope, the compound body being covered in green spotted fishskin; it is fitted with a rotating wheel of 8 different powers; the stage is a micrometer one, and has movements in both directions; the instrument is mounted on 2 brass scrolls, and it can be inclined; when used in a vertical position it is secured by a spring, which has to be released when the instrument is to be used in an inclined position; the fine adjustment is actuated by 2 geared bevelled wheels at the base, moving a rod attached to the stage; the instrument is signed, "Made by George Adams, Math: Inst. Maker to His Royal Highness The Prince of Wales"; fitted on a wooden base, with 2 drawers containing a number of fittings

£360
 Dexter

- 169 A magnificent silver Universal microscope, of very elaborate construction, signed on the edge of the objective-holder, *Made by G. Adams, in Fleet Street, London*; the compound body, of elegant proportions, fits into a collar in the centre of a silver wreath, which is supported by 2 allegorical female figures; the whole upper part rests on a fluted Corinthian pillar, rising from a square decorated base, resting on a decorated crosspiece, raised by 2 similar crosspieces placed at right angles to it, thus forming the feet; there is a frog-plate, a bull's-eye stage condenser, with a curious Hooke's joint and ball-and-socket movements; the whole is contained in a beautifully shaped Chippendale case, and is in a perfect state of preservation

(See ILLUSTRATION, *Frontispiece.*)

9. --

- 170 A microscope, with a curious method of inclination, and an early form of direct-acting screw fine adjustment, which moves the body; on a box base; the instrument is inscribed, *F. Villette a Liege*

11. 11. 0

- 171 A microscope, of unusual design, with a rotating triple nosepiece carrying 3 objectives, and fixed on an oval decorated wooden base, with drawer; the instrument is inscribed, *Invt: et Fecit G. V. Schleenstein a Cologne*

12. --

- 172 A fine example of the original form of dissecting microscope, devised by Lieberkuhn, and made by Mitsdörffer, of Berlin, *circa 1750*; it is fitted with a number of adjustable brass hooks, to hold the object under examination; on a brass tripod stand, with ball-and-socket movements

(See ILLUSTRATION.)

£2. --

- 173 Another form of Lieberkuhn's dissecting microscope, with curious spring adjustment for focusing; no stand

- £ 4. - - 174 A smaller form of the above, and 2 others ; no stand
- £ 9. - - 175 The remainder of the valuable catalogue, containing voluminous notes, illustrations, and descriptions of the more modern part of this celebrated collection, the earlier part never having been catalogued in detail

GERMAN WOODEN MICROSCOPES,

made by the Toy Makers of Nuremberg, circa 1750-1780.

- £ 2. - - 176 Two wooden hand microscopes
- £ 3. 3. 0 177 Two tripod wooden Nuremberg microscopes, fitted with mirrors, one stamped with M in a circle, and the other $\frac{1}{F}$ in a heart-shaped shield
- £ 1. 5. 0 178 Two ditto, but with box bases, one marked M in a circle, the other bears no mark
- £ 1. 5. - 179 A modern wooden microscope, and a tripod microscope, marked M
- £ 2. - - 180 A Nuremberg microscope, with fine adjustment, mounted on a single pillar ; and another, with drawer
- £ 3. 3. - 181 A fine Nuremberg microscope of the best kind, on rectangular box base, compound body, supported by 2 parallel arms, I * S in oval stamped on base
- £ 3. - - 182 A ditto, larged stamped M.I. in circle
- £ 2. 15. - 183 Two others, smaller ; no marks
- £ 1. 15. - 184 A Nuremberg imitation of an old form of microscope ; and a wooden microscope, with draw tubes
- £ 1. 15. - 185 A German wooden microscope ; the rack moves the stage ; on square box base ; an interesting 18th Century microscope, and scarce

JAPANESE MICROSCOPES.

- £ 4. 4. 0. 186 A modern imitation of a tripod microscope, the outer body richly decorated with gold designs, the mounts being of horn and lacquer ; this is quite modern, but interesting, as being made in Japan by Japanese workmen
- £ 1. 15. - 187 A ditto, smaller, with metal mounts, and one slider

TELESCOPES, Etc.

2. 5. - 188 A curious artificial eye, on brass tripod stand
1. 5. - 189 A reflecting Gregorian telescope, on brass tripod stand, by B. Martin, London
6. - - 190 A reflecting Gregorian telescope, outer body covered with green shagreen, on brass tripod
7. 10. - 191 A small reflecting Gregorian telescope, by T. Ribright, London, in case
- 12/- 192 A prismatic reflecting instrument, on square black wooden base

MICROSCOPES

of later dates, principally of brass, circa 1740-1835.

- 10/- 193 An old brass microscope, on tall upright pillar rising from a flat tripod, foot stage adjusting by rack, no case or accessories
- 12/- 194 A brass microscope, by Brander, inclining on the top of a pillar, circular base, no case or fittings
- 12/- 195 Curious microscope with wooden body, adjustments by rack, on wooden box foot, with drawer for fittings
4. 10. - 196 A brass microscope, by Brander and Haschel, on flat tripod foot, no case or accessories
14. - 197 A curious old microscope, not signed, but probably by Benjamin Martin
3. 5. - 198 A brass microscope, with curious long lever adjustment which moves the stage; a very scarce form of microscope, but probably a copy of an older instrument
1. 1. - 199 A microscope with catgut focusing to stage
1. 5. - 200 Another microscope with catgut adjustment to stage; rare and scarce form
1. 10. - 201 A microscope of unusual form, mounted on double pillars, rack adjustment which moves the body, the mirror can be adjusted backwards or forwards
4. - - 202 A French microscope, by Lerebours à Paris, on wooden base, with rack adjustment; scarce and interesting type of instrument
1. 1. - 203 Old microscope, the body mounted on a scroll transverse arm, with rack adjustment to stage

1. 10. - 204 A microscope with Cuff's form of fine adjustment, by Brander ;
no case
16. - 205 A small portable microscope, in inlaid case ; a scarce form
2. 8. - 206 A curious old microscope with oval wooden stage ; stamped on
the stage is : " Fecit J. R. Oppelt, Opticus à Anspach " ; on
wooden box foot ; interesting and very rare type of micro-
scope
1. 1. - 207 Small and scarce form of microscope, with concealed coarse rack
adjustment moving the body, an early example of this
feature, on wooden box, with accessories, in a drawer
2. 2. 0 208 Rare and curious type of portable microscope, on wooden box
base, with drawer for fittings under ; this has a curious
form of fine adjustment which is very uncommon
2. - - - 209 Curious 3-pillar microscope, with unusual form of frog plate, on
wooden box with apparatus
1. 15. - 210 Another curious tripod microscope, both upper part and box
ornamented
4. 10. - 211 A microscope of unusual construction, both the compound body
and stage can be adjusted by rack ; a combination rarely
found in a microscope
2. 10. - 212 An extremely interesting old microscope, both body and stage
are supported by 2 pillars for focusing, stage moves up or
down, sliding in grooves, cut in the pillars by a lever acting
on 2 rods to which the stage is connected, this lever being
moved by a knob placed in the front of a turned wooden
box base, with drawer for fittings ; very rare and probably
unique
1. 10. - 213 An early drum-shaped microscope, on an inlaid wooden base, with
drawer for fittings ; the mirror is a silvered convex lens
2. - - - 214 A beautifully made brass microscope, of the Culpeper-Scarlett
tripod form, fitted on a carved box base with drawer con-
taining the accessories ; this microscope is very complete
and was made by George Sterrop, whose instruments are
now rare as he died comparatively young ; he had a
European reputation for his microscopes
7. - - - 215 A brass microscope, signed J. Cuff, Fecit, with micrometer applied
to the eyepiece, on mahogany base, with drawer and some
accessories, no case
6. 10. 0 216 Another, signed J. Cuff, Fleet Street, no case, but a number of
accessories, in drawer of box foot

2. 5. - 217 Another, signed J. Cuff, no case, but a number of accessories in the drawer
1. - - 218 Another, Cuff model, not signed, and no accessories
2. 10. - 219 Another, by Benjamin Cole, 136, Fleet Street
1. 1. - 220 Another, Cuff model, but with rack adjustment to stage, and no fine adjustment, no case
2. - - 221 Another, Cuff model, with side rack adjustment to stage, with accessories in drawer, by Dollond
1. 7. 6. 222 A modified form of Cuff's microscope, by Mann and Ayscough, in case, with fittings
7. - - 223 Beautifully made microscope, after Cuff's design, on an inlaid wood box foot, with 2 drawers containing accessories; this beautifully made instrument was constructed by the celebrated French optician, Passemant Ingénieur du Roi au Louvre; very rare
3. 10. - 224 Modification of Cuff's microscope, made inclinable, in case, with Solar fitting and other apparatus, by Dollond
2. 2. - 225 Ditto, as made by Pyfinch, inclining by a joint at the base of pillar on box foot, which contains the accessories, no case
1. 5. - 226 German form of Cuff's microscope, with mahogany base, with drawer and accessories
1. 1. - 227 Scarce model of Cuff's microscope, of foreign origin, on wooden base
2. 5. - 228 Fine old chest microscope, by Nairne, London; quite complete
1. 15. - 229 Ditto, by Dollond, nearly complete
1. 1. - 230 Ditto, by Nairne (faulty); and another, by Dollond (case defective)
2. 10. - 231 A chest microscope, by D. Adams, complete
1. 4. - 232 Ditto, by Nairne and Blunt, nearly complete
1. 5. - 233 A chest microscope of foreign make, fitting into a square hole on a brass plate fixed in the bottom of the box; a very rare and curious form of attachment
1. 10. 0 234 An 18th Century microscope, by D. Adams, on mahogany base, drawer with fittings
1. 1. - 235 A microscope, by Meredith, New Bond Street, in case, with accessories

11. - - 236 Scarce and curious old microscope, which closely resembles the variable, made by G. Adams, *circa* 1771; this instrument is dated 1772; it has 3 powers fitted to a curious sliding nosepiece, no case or other accessories
6. - - 237 A microscope, signed Dellebarre, 1793, no case or accessories; this type of microscope was invented by Dellebarre in an attempt to improve the microscope by correcting the aberrations; in practice, however, it was found not to be satisfactory
3. 15. - 238 Another, signed à Dellebarre, 1806, bears the inscription, Onderdenyngaart Canzuis Confecit Delft, with flat folding tripod foot
1. 1. - 239 Another, not signed; no accessories or base
1. 10. - 240 Another, ditto
1. 15. - 241 Another, ditto
1. 4. - 242 Another, ditto
1. 15. - 243 Another, ditto
2. 2. - 244 A curious and rare form of drum microscope; can be used either as a compound or solar microscope, in ornamented case, with drawer under, containing a large number of slides and accessories; extremely rare form, and very complete
- ^s 14. - 245 Another, stand only, no solar attachment, case, or accessories
3. - - 246 An interesting and scarce microscope, rack adjustment moving the stage, fitted with a candle holder, and stage divided into squares; 2 drawers, in box base, containing slides and fittings, signed Tiedemann
1. 5 246* -
2. 10.0 247 Polished mahogany cabinet, containing a very fine microscope with solar attachment, and drawer under, containing apparatus, by Dollond; very fine and scarce optical outfit
- ^s 2. 5. - 248 Semi-portable microscope, by Dollond, on shaped tripod foot; in case, with drawer containing a number of accessories; the design of this microscope is very curious in many respects
1. 15. - 249 Microscope, of unusual form, signed on base, Officina Gottlo Stegmanni; a scarce type of instrument
1. 5. - 250 Microscope, on wooden box, with drawer for fittings, with square mirror; rare, perhaps unique
2. 10. - 251 Small microscope, signed P. and J. Dollond, probably made by Benjamin Martin for the Dollonds; very scarce
- 243* £2. 10. -

- 252 Microscope, with rack adjustment to body, tripod legs folding downwards
- 253 An old microscope, with ornamented tripod feet ; scarce form
- 254 A microscope, fitted with curious mirror movement on crank arm, so that it can be used either under or over the stage
- 255 Massive microscope, of unique design, constructed by Kleman, of Amsterdam ; this extraordinary microscope has an eyepiece, of which the field lens is nearly 5in. in diameter, the body is conical, and about 24in. in length ; the stage racks for focusing the mirror is not attached to the body, but on a separate base, and can be used independently of the microscope ; there is a solar attachment, with mirror, so that it can be used as a solar microscope when required ; it is mounted on a tall pillar, fitted to a tripod with shaped legs ; the whole contained in a large cabinet, in the drawer of which is an extra stage and other accessories ; this microscope is probably unique
- 256 Oberhauser form of drum microscope, in case (broken) ; and a tripod microscope (faulty)
- 257 An unusually tall and fine example of an early 19th Century Culpeper form of microscope, with all fittings, in pyramid-shaped mahogany case
- 258 Small pocket microscope, in case, by Cary ; and parts of another microscope
- 259 Beautifully made early 19th Century achromatic portable microscope, by Plassel ; complete in case with accessories
- 260 A stand only, no fittings or objective, of Chevalier's best horizontal achromatic microscope ; a very fine instrument, but unfortunately all the accessories are wanting
- 261 A large microscope, of very unusual form, with folding tripod feet, by Dollond ; this remarkable microscope is fitted : 1st, with an oil lamp, swinging in gymbals, attached to the tail piece ; 2nd, a peculiar screw movement to the stage ; 3rd, the screw adjustment fitted to the eyepiece. This is a very rare and unusual combination to find in any microscope ; it is certainly very rare
- 262 A rare and early type of reading microscope with table clamp and rod fitting, in case
- 263 Portable microscope which screws into the base of the box, an interesting and complete microscope of a scarce form
- 264 Folding tripod microscope, by Nobert, with curious wheel micrometer adjustment ; no case or objective

- 265 Tripod microscope, with feet folding downwards, rack adjusting stage, and adjustable mirror ; an interesting form of French microscope
- 266 Microscope, on wooden box foot, the body being mounted on top of a pillar, which can be inclined ; fitted with drawer, which contains accessories ; probably of French make, and scarce
- 267 Jones' improved form of microscope, rack adjusting stage, many accessories in box foot, by Bate
- 268 A rare form of microscope, by Dollond, rack adjusting stage, with steadying rod
- 269 Folding tripod type of microscope, in case, complete with fittings, by G. Adams ; a very nice example of G. Adams, Junior, work
- 270 Tripod microscope, on circular wooden base, with sliding adjustment, in case
- 271 Jones' improved form of microscope, in mahogany case, with under drawer for fittings
- 272 Small flat tripod microscope, with rack adjusting stage ; and another, on circular wooden base
- 273 Rare and unusual type of microscope, with steadying rod, and ivory scale attachment for direct comparison of measurements ; this very interesting microscope is probably unique ; it bears the name of P. Carpenter on the base
- 274 Brass inclining microscope, very complete, in polished case, the lid richly inlaid with mother-of-pearl, with drawer under, containing a large number of slides, by Cutts
- 275 Portable microscope, in case, by Adams
- 276 Double pillar microscope, probably French, on mahogany base ; and another Jones' most improved type
- 277 Small brass microscope, in case, by W. & S. Jones ; and another, by Dennis
- 278 Portable microscope, by Francis ; and a brass 19th Century Culpeper type of microscope
- 279 A fine example of Dr. Goring's Aplanatic Engiscope ; this extremely rare form of early achromatic microscope is particularly interesting as being the original model bought by the late Sir Frank Crisp from the son of the maker ; it bears the inscription on the tripod foot, W. Brittan, optical instrument maker ; only one other example is at present known, that at the Science Museum, S. Kensington ; the sheet from the Crisp Catalogue describing the instrument is included

- 280 Reflecting microscope, Amici form, no accessories ; very scarce, only a few of such instruments now being in existence
- 281 A beautifully made example of the Amici horizontal achromatic microscope, with various adjustments not generally found in this type of instrument ; this is no doubt due to the fact that it was Professor Amici's own working microscope, purchased by the late Sir Frank Crisp from Professor Golfarelli Officina Galilao, of Florence, who had it direct from Amici's heirs ; the sheet from the Crisp catalogue giving full details is included
- 282 A rare and curious microscope, fitted with an ivory wheel to hold 51 objects ; this early form of museum microscope was made by T. Winter, who worked for the trade
- 283 A similar microscope, but of a simple form, signed T. Winter ; both forms are now very scarce
- 284 Scarce form of drum microscope, with curious rotating wheel object carrier
- 285 An upright microscope, by Adams, on folding tripod foot
- 286 Most improved microscope, by W. & S. Jones, has a curious movement in arc by rack acting on stage ; very scarce
- 287 Inclining brass microscope, rack adjustment, on triangular bar
- 288 Small microscope, with fine adjustment to stage, on wooden base, with fittings ; and a small ditto, with folding feet, no case
- 289 Museum microscope for 10 objects, with eyepiece and objective, on round brass base
- 290 Brass microscope, by Chevalier, on rigid tripod foot, no objective
- 291 Two brass microscopes, one defective
- 292 Small microscope ; and another (faulty)
- 293 Student's microscope, Pritchard form, fitted with an early form of fine adjustment
- 294 Folding tripod foot microscope, with early form of direct acting, fine adjustment ; probably French
- 295 Brass microscope, with curious compound body, by Crickmore of Ipswich
- 296 An inclining rack adjusting microscope, on block wooden base ; and another, in case
- 297 A very elaborate compound microscope, and a large number of accessories, forceps, etc., by G. Adams ; this appears to be an improved form of the variable, 1771 ; very rare

- 298 A very complete compound microscope, by Dollond, with numerous accessories ; very rare
- 299 Microscope, in case, 2 eyepieces, no objective
- 300 Portable microscope, with numerous fittings, in case, by Huntley
- 301 A small portable microscope, by Watkins & Hill ; and another, by F. Watkins (defective), no case or fittings to either
- 302 Jones' most improved microscope, by Dollond, in case, with fittings
- 303 Early 19th Century French microscope, in cardboard case, with accessories
- 304 A very complete portable microscope, with tripod folding feet inclining in case, with fittings
- 305 Single pillar brass microscope, in mahogany box foot, which contains accessories
- 306 Portable microscope, with folding feet, in mahogany case, with fittings
- 307 A very elaborate and complete improved opaque and transparent compound microscope, with a multiplicity of expensive accessories ; a remarkable example of a high-class early 19th Century microscope ; very scarce in any condition, and probably unique in its present state of preservation
- 308 Another similar, but nearly all the fittings are missing, and the case is defective
- 309 Brass microscope, on folding tripod foot, with a few fittings in case, which is slightly defective
- 310 Portable microscope, Jones' most improved form, with fittings, in case
- 311 Portable microscope, by Dollond, Jones' improved form, fitted in case
- 312 A microscope, on tripod foot, by A. Pritchard, with some fittings ; and another (faulty)
- 313 Microscope, rack adjusting, with folding tripod foot, in case
- 314 Jones' most improved microscope ; in addition to the usual fittings there is a compass microscope fitted into the case
- 315 Portable microscope, with fittings, in case, by Cary
- 316 Ditto, by Dollond

- 317 Portable microscope, with folding feet, in case, complete with accessories
- 318 Youth's drum form of microscope, in mahogany case, with accessories, complete
- 319 Portable microscope, in case (faulty)
- 320 Portable microscope, T. Harris & Sons, in mahogany case, with fittings
- 321 Pocket microscope, with folding foot, by Duncan, Aberdeen, in case
- 322 Beautifully made silver-plated pocket compound microscope, by Sphere, of Dublin ; complete with all accessories, in case
- 323 Flat tripod microscope, in case, fitted with drawer, and some fittings by Pritchard
- 324 Portable microscope, in polished mahogany case, with accessories, by Crichton, London
- 325 Small portable microscope, in case ; and 2 other hand microscopes
- 326 Microscope, with folding foot, and a drum form of microscope
- 327 Curious microscope, signed Brock, invent Fecit
- 328 Inclining microscope, by Abrahams
- 329 Two old microscopes, 19th Century
- 330 Two small pocket microscopes
- 331 Curious portable microscope, by Francis
- 332 Two early 19th Century microscopes (1 fitted with a wheel of powers)
- 333 Antique microscope, on mahogany base, with drawer and accessories, by Dixey
- 334 Antique microscope, by Lincoln, London
- 335 Brass microscope, early 19th Century, on circular base, with triple objective ; and a small hand microscope
- 336 Brass Culpeper type of microscope ; and another, on circular base
- 337 Horizontal microscope, by Chevalier (faulty) ; and another, by Cary

OPTICAL CABINETS, SOLAR AND PROJECTION MICROSCOPES.

- 338 A beautifully made optical cabinet, containing a brass microscope, a solar microscope, covered in green shagreen, a telescope, ditto, and other fittings ; the whole, contained in a mahogany cabinet, is in a beautiful state of preservation, and very rare
- 339 A large optical cabinet, in black fishskin, containing a compound microscope ; a solar microscope ; and numerous other fittings ; in perfect condition, and very scarce
- 340 A smaller cabinet, which contains a microscope and fittings only
- 341 A very large and complete optical cabinet, containing a compound microscope ; solar microscope ; and a large number of other fittings ; fishskin case
- 342 Another, similar, incomplete ; contains the solar microscope only
- 343 John Cuff's first form of solar microscope, wooden base board
- 344 Mann & Ayscough's modification of Cuff's solar microscope, 1743 ; no case or fittings
- 345 An interesting early type of solar microscope ; signed O. N. Degerman, Fecit 1756
- 346 A curious wooden solar microscope, decorated body tube, wooden rack rotation, probably made at Nuremberg ; very scarce form
- 347 Another interesting form of solar microscope (no mirror) ; and parts of another
- 348 An extremely rare and interesting form of solar microscope ; on the top of a turned circular wooden base is an allegorical male figure, which supports by his uplifted arms the body tube of the instrument, to which is screwed a circular plate, and the adjustable circular mirror ; both this plate and the mirror are engraved ; the mirror is rotated by a projection placed on the front of the figure ; probably unique
- 349 A small solar microscope, by Ramsden ; and a ditto, by Adams ; both faulty
- 350 An early form of solar microscope, on oak base board
- 351 A brass microscope, of foreign make, in case, with decorated handle and keyplate, complete
- 352 A nicely made brass solar microscope, with fittings, in mahogany case

- 353 A small solar microscope, by George Adams, with fittings, in case
- 354 A solar microscope, with wooden base and curious focusing adjustment, probably of French origin, and a very scarce form
- 355 A solar microscope of brass, by Cuff, in case
- 356 A solar microscope of brass, with rack adjustment, in case
- 357 A large brass solar microscope, with a sliding bar of powers, fitted for both opaque and transparent objects, by W. & S. Jones ; no case
- 358 A brass solar microscope, in mahogany case, by Yates, of Dublin (scarce maker)
- 359 A large and uncommon form of solar microscope, signed, "Made by B. Martin, Fleet Street, London," in mahogany case, with part fittings
- 360 A solar microscope in brass, by Sterrop (scarce maker), in case
- 361 A small solar microscope, fitted to a mahogany scioptric ball
- 362 A large brass solar microscope, by W. & S. Jones, with part fittings, in case
- 363 A beautifully made and very complete solar microscope for both opaque and transparent objects, by G. Adams ; in fine condition, very rare
- 364 A solar microscope, of unusual form, with interesting rough cut rack adjustment to mirror ; probably of Italian origin
- 365 A Lucernal microscope, by W. & S. Jones, fitting on to the mahogany case when in use with two adjusting rods ; and a number of other fittings
- 366 A magnificent combined Lucernal and compound microscope, of very unusual design ; it bears the inscription on the body tube, "Adams, Inventor, London" ; it is intended to be used : (1) as a Lucernal microscope ; (2) as a projection microscope ; (3) as a compound microscope ; the body tube is 7in. in diameter and 24in. long ; an extra mahogany case contains a very large number of accessories, including various condensers and 2 additional stages ; 15 object-glasses of various powers form the optical battery ; only one other of this type of microscope is known—viz., that in the Science Museum, at South Kensington (Court Collection)

(See ILLUSTRATION.)

- 367 A Lucernal and compound microscope, of very unusual design, mounted on a square mahogany base with feet ; very rare, perhaps unique
- 368 A Lucernal and compound microscope, with conical-shaped brass body and swinging tail piece, fitted with 2 condensing lenses ; a very rare form
- 369 A curious old microscope, of very unusual form, in mahogany case, with a few fittings
- 370 A microscope stand, with a conical-shaped wooden photographic attachment, no dark slide, by Chevalier
- 371 Part of an old solar microscope ; no fittings or case (A.F.)

END OF SALE.

The first part of the paper discusses the general theory of the subject, and the second part discusses the application of the theory to the case of the present case. The first part is divided into two sections, the first of which discusses the general theory of the subject, and the second of which discusses the application of the theory to the case of the present case. The second part is divided into two sections, the first of which discusses the application of the theory to the case of the present case, and the second of which discusses the application of the theory to the case of the present case.

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complete Catalogue .

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GERRARD 1824.

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FOREWORD.

This being the first occasion on which a Collection of Antique Microscopes has ever been catalogued for sale by Public Auction, it may not be altogether out of place to give a short account of the Crisp Collection. In its entirety it consisted of nearly 3,000 Microscopes and over 1,000 pieces of apparatus. When that part of the Collection consisting of the modern Microscopes was sold in these Rooms in a series of sales during the years 1920 and 1921, the earlier and rarer Microscopes now about to be offered were reserved for this final sale.

The Collection was formed during the latter half of the 19th Century by the late Sir Frank Crisp, Baronet, who for many years devoted himself to the study of their history and development. He was universally recognised as the leading authority, and all the important finds were brought under his notice during that period. He was able to obtain many rare and interesting forms that it would be now impossible to duplicate.

In the restricted space available in an auction catalogue it is only possible to give a very short description of most of the lots, and many of the interesting features have had to be omitted. Although the Auctioneers placed no restrictions of any kind on the cataloguer, he has found it necessary in many cases to be very brief, reserving more space for those Microscopes which, on account of their rarity and scientific interest, may justly claim a full description.

In arranging the Collection for sale by auction it has been thought best to depart from the chronological and perhaps the more scientific method, and sell them in groups, viz. :—

- (1) Simple Microscopes and small pocket compound Microscopes.
- (2) Compound Microscopes dating from the 17th Century to the introduction of achromatism in the early part of the 19th Century.
- (3) Optical Cabinets, Solar and Projection Microscopes. (The various Nuremberg wooden Microscopes have been placed by themselves.)

In each division, within limits, the instruments are catalogued in chronological order, original forms first, and then their variations and modifications by other makers.

It is perhaps advisable to say a few words as to the condition of the Collection generally. Some of the lots are described as "faulty," in most cases, however, the faults are quite trifling, but if there is any serious defect it will be found noted in the catalogue. As is nearly always the case with these early Microscopes, many are without some, or all, of their accessories (some of the earlier types, however, never had any), but this is only a secondary consideration, as both from an artistic and scientific point of view the interest is chiefly in the stand itself.



CATALOGUE.

ON TUESDAY, FEBRUARY 17TH, 1925,

AT 12.30 P.M. PRECISELY.

SIMPLE AND SMALL COMPOUND POCKET MICROSCOPES OF ALL PERIODS.

(NOTE.—The rule shown in the photographs is 6 inches high.)

Lot

3. 1

Three modern reproductions of rare microscopes—viz., Leeuwenhoek's hand microscope, in case, an interesting early 17th Century museum microscope, and a model of Leeuwenhoek's aquatic microscope

3

5

2 2

An old ivory screw-barrel microscope, with compound body ; very rare form

2

10

3 A turned ivory case, divided into compartments, which contain a flea microscope, a small microscope, magnifying lens, etc. ; rare form

2

10

Bob

25

4 Musschenbroek's simple hand microscope (1702), first form, in original leather case ; very scarce, only a few being now in existence

5

Shepherd

(See ILLUSTRATION.)

20

5 Musschenbroek's second form (1702), with a number of powers and other fittings (not quite complete), in original case, decorated with gold stampings ; very rare

8

Shepherd

(See ILLUSTRATION.)

6 Another example of the second form of Musschenbroek, with part fittings, in mahogany box (not original) ; very rare

2

15

Shepherd

7 Unique miniature Wilson screw-barrel microscope and fittings, the whole enclosed in a turned ivory case of 3 compartments ; one contains the microscope, one the powers, and one the ivory slides ; it is in a beautiful state of preservation

3

10

Garret

- 8 An ivory Wilson screw-barrel microscope, with powers, etc., in fishskin case ; scarce
- 9 Another, very similar
25. 10 A beautifully engraved (on back and front) brass 17th Century hand microscope, after the form of that made by Cosmus Conradus Cuno of Augsburg, circa 1686 ; it consists of 2 plates, connected at the bottom by a hinge, below this is fixed the turned ivory handle ; in the front plate, near the top, and in the centre, the lens, which is of very high magnifying power, is placed in a circular fitting ; immediately behind this is fixed a brass wheel, containing 8 objects, which can be rotated ; the focusing is effected by a milled edge wheel, which connects the back and front plates ; on the back plate is a small aperture, to act as a diaphragm ; there is an additional small plate bearing a less aperture, which can be used when required ; this beautiful little instrument is signed Depovilly à Paris ; the length of the instrument is 5½ in., and it is in a perfect state of preservation, optically and mechanically ; extremely rare

(See ILLUSTRATION.)

- 11 A Wilson screw-barrel microscope, in black fishskin case ; signed E. Culpeper
- 12 A Wilson brass screw-barrel microscope, in case ; signed E. Scarlett
- 13 A Wilson screw-barrel microscope in brass, and a botanical microscope ; both in fishskin cases, with fittings
- 14 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 15 An early Wilson screw-barrel microscope, with ivory body, and some fittings ; in flat leather case
- 16 A Wilson screw-barrel microscope, and another smaller ; both in fishskin cases
35. 17 A Wilson screw-barrel microscope, with compound body, and fitted to a tripod stage with folding feet, by E. Culpeper ; no case or fittings
- 18 A Wilson screw-barrel microscope, with compound body ; no fittings or case
- 19 A ditto, on scroll stand, and wooden base, with brass compound body, by G. Cramer of Groningae ; no fittings or case
257. 20 A small pocket microscope, with compound body, Demainbray form, by Thomas Bureau ; in grey shagreen case, and fittings
- 21 A ditto (no compound body), by Sisson ; in green shagreen case

Shepherd
2 15
2 10
32
7
Shepherd
1 2
Shepherd
1 5
1 7 6
1 12 6
Shepherd
3
Sab.
1 5
Mascimale
5 10
Shepherd
2 2
2 5
Cooper
10 10
Shepherd
4

- 22 A fine example of a compass microscope (no case) ; and a brass Wilson microscope (no case)
- 23 A Wilson brass screw-barrel microscope (no fittings or case) ; and small Wilson screw-barrel ; in fishskin case
- 24 A beautifully made microscope, on flat folding foot ; this is an exceptionally small portable microscope, and rare
- 25 A fine Wilson and Ellis aquatic combined microscope ; in fishskin case, very complete ; by Dollond
- 26 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 27 A fine and very complete compass microscope ; in fishskin case
- 451- 28 A compass microscope, in leather case, with fittings ; signed Passemant, au Louvre
- 29 A Wilson screw-barrel microscope, part fitted, in fishskin case ; and a small compass microscope, in fishskin case
- 30 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in mahogany case
- 31 An Ellis aquatic microscope, with rack adjustment ; in fishskin case ; by Dollond
- 32 A pocket compound microscope, in fishskin case ; and a flower microscope, in case
- 33 A hand microscope, with a large wheel of objects, in leather case ; and a compass opaque microscope, in leather case ; both modern
- 34 A compound microscope, in red leather case, with fittings ; and a botanical microscope
- 351- 35 An old French compass microscope, in case
- 36 A beautifully made little compass microscope, in rosewood case, with fittings
- 37 A compound microscope, in fishskin case, with many fittings, by Gilbert & Sons
- 38 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in case
- 39 An Ellis aquatic microscope, in fishskin case
- 701- 40 A Wilson screw-barrel microscope, on scroll stand, fitted on turned circular base

1	5	Webster.
1	5	Whale
3	10	Bowd.
3	.	Webster.
1	5	Babb
2	5	Babb
2	10	Macindale
1	.	Shepherd.
	18	Bowd.
2	.	Babb
1	15	Gunter.
1	5	Maskew.
	14	Babb
1	5	Bowd.
2	12 6	Bowd.
	12	Wadson
2	.	Webster.
	10	Bowd.
1	7 6	Bowd.

- 41 An Ellis aquatic microscope, in fishskin case ; and a botanical microscope, in mahogany case, by Bancks
- 42 A beautifully made pocket compound microscope, with prism illuminator, and other fittings ; complete in mahogany case
- 43 A pocket compound microscope, with fittings, in mahogany case ; and another, folding into the case by a hinged joint at the base
- 44 A pocket microscope, in red leather case, by Bancks ; and another, part fitted, by Tuther ; both 19th Century
- 45 A small pocket microscope, in fishskin case, with fittings ; and a Wilson brass screw-barrel microscope, in fishskin case
- 46 A small microscope, on tripod stand ; not signed, but probably by Lindsay ; no case or fittings
- 47 A folding microscope, in mahogany case ; and a small pocket microscope ; both 19th Century
- 48 A small microscope and fittings, by Cuff, in mahogany case (broken)
- 49 Lyonett's dissecting microscope, with ball-jointed arm, one power ; no case or other fittings
- 50 A brass microscope, on tripod stand, by Hughes ; a lens holder ; and a small hand microscope ; all 19th Century
- 51 A curious vial microscope, by A. Pritchard, 3 powers, 2 being in a glass-lidded case
- 52 A microscope, with a multiple eye lens ; and a botanical microscope, with screw adjustments *A. F.*
- 52A A Wilson pocket screw-barrel microscope, in leather étui case, by Culpeper, with fittings
- 53 An early Wilson screw-barrel microscope, of foreign make, in leather case ; scarce form
- 54 A Wilson screw-barrel microscope, part fitted ; and a botanical microscope ; both in fishskin cases
- 35- 55 A curious and rare form of hand microscope, with a large brass wheel fitted with objects, and a wheel for focusing, with wooden handle ; very scarce
- 30- 56 A ditto, all brass
- 30- 57 A ditto, all brass
- 58 A lignum vitæ hand microscope, in compartments ; and a bone ditto

52 B. Part of lot 52. 12/- D. Hall.

Cowl.
12

Bronck
3

Day
12

Gabb.
12

Shepherd
1 6

Day
1 0 0

Oldman
18

Shepherd
1

Day
1

10

Day
1

Cowl.
10

Shepherd
5 10

Oldman
1 1

Oldman
14

Cowl.
1 10

Gabb.
1 15

Cowl.
1

Matthews?
16

- 59 A bone hand microscope ; and 4 small Granger microscopes
- 457- 60 A rare type of pocket microscope, in the form of a book, by Fuller of Norwich, with fittings
- 61 A spy-glass, with diagonal mirror, in fishskin case ; and an engraved linen testing microscope, in fishskin case ; both rare
- 62 A Wilson screw-barrel microscope, on scroll, with folding feet
- 63 Clark's pocket microscope, 1776, in fishskin case, with fittings
- 40- 64 A ditto, dated 1773
- 65 A ditto, part fitted
- 30- 66 Beautifully made solid silver microscope, by George Lindsay. This miniature microscope is of great interest.
 (1) It was the first microscope for which a patent was registered (1742) ; (2) on account of the neatness and compactness of the design ; (3) the beauty of its workmanship. Lindsay was watchmaker to George II., and this no doubt accounts for its neatness and accuracy ; the instrument and its fittings are contained in a fishskin case, $4\frac{1}{2} \times 2\frac{1}{2} \times 2$; only one other example in silver is known—viz., that in the Science Museum, South Kensington (Court Collection)
 (See ILLUSTRATION.)
- 10- 67 Clark's pocket microscope, solid silver ; this is an interesting form of microscope, made by J. Clark of Edinburgh at the latter end of the 18th Century ; the instrument fixes in by screw to the base of the case, which is of fishskin
- 68 An aquatic hand microscope, with 2 powers, in fishskin case ; and a botanical microscope, in mahogany case ; both scarce forms
- 69 A portable compound microscope, in fishskin case, inclining at the base, folding tripod foot ; very complete
- 70 A Wilson screw-barrel microscope, with black ivory compound body, in fishskin case ; and a number of fittings
- 71 A ditto, larger
- 72 A fine Ellis aquatic and Wilson microscope, combined with fittings, by Dollond, in fishskin case
- 73 An early type of wooden lignum vitæ microscope, with fittings, in cylindrical fishskin case ; very rare form
- 74 A pocket microscope, with beautifully engraved stem and feet which fold, by F. Watkins ; complete in fishskin case

6 Edman.
 1
 2 15
 3 Hogan.
 1 Day.
 5 5
 4 10
 1 1
 Webster
 Bowit.

Charleswood?
 32

Gabb.
 13 13
 1 Day.
 1 Mackew.
 4 Day.
 6 10
 18 King.
 2 King.
 Shepherd.
 12

- 257-75 A curious old ivory microscope, with powers, etc., in square ivory box with sliding lid; probably unique *Oldman. 1/10/-*
- 76 An Ellis aquatic microscope, in fishskin case *10/- Bown.*
- 77 Two small Goulds' pocket microscopes, and another; all 19th Century *16/- ?*
- 78 A brass botanical microscope, with compound body; and 2 other botanical microscopes, in black cases *12/- Mar*
- 79 A Wilson screw-barrel microscope, with rack adjustment, on flat folding feet stand; scarce form
- 80 A fine pocket compass microscope, with fittings, in green leather case; probably French *1/5/- Oldman.*
- 81 A small brass drum microscope, by Secker à Paris; and another microscope, faulty *10/- Man.*
- 82 A portable microscope, in mahogany case, by Bancks, and another, portable; both 19th Century *10/- White.*
- 83 A Wilson screw-barrel microscope, on decorated scroll stand, fitted to a mahogany box base, with drawer *4/10/- Webster.*
- 84 A Wilson all-brass screw-barrel microscope, with compound body, on tripod stand *2/10/- Shipman.*
- 85 A case of 11 dissecting lenses, by Pritchard, said to be jewel lenses *3/- Day.*
- 86 A compass microscope, on stand; and a small single lens magnifier, on stand *12/- Oldman.*
- 87 A curious microscope, on wooden base, with metal mirror; and a wood imitation of a Wilson microscope *8/- Oldman.*
- 88 A very curious early simple microscope, with rack adjustment, on circular wood base *1/- Bown.*
- 89 A small model of Cuff's double microscope, on mahogany box base *3/- Bown.*
- 90 An Ellis aquatic microscope, no case or fittings; and another microscope, on wood base, with drawer *10/-*
- 91 A dissecting microscope, in mahogany case, with fittings, by Chevalier *2/2/- Oldman.*
- 92 Part of a microscope, in mahogany box; a hand-glass, in wooden frame; and a pocket walking-stick telescope; all 19th Century *10/- Brown.*
- 93 A beautifully made miniature microscope cabinet of 5 drawers, containing a collection of arranged microscopic objects, mounted in ivory *3/- Harris.*

- 94 A pocket microscope, by Cuff, on wooden oval base, 1 power, and forceps, no case or other fittings 3/10/- Shepherd.
- 25/- 95 A microscope, with rotating wheel of objects; and another, with 2 Lieberkuhns on the same mount, in leather cases 16/- Bowd.
- 96 A microscope, on tripod stand, by Watkins; and another (smaller), no case or fittings 2/2/- Shepherd.
- 97 A vial microscope, and a mounted magnifying glass 8/-
- 98 A wooden microscope (modern), and 2 mounted lenses, on stand 5/- Bowd.
- 99 A botanical microscope, in pyramid-shaped case; pair of mounted lenses, and 2 hand-flower microscopes 16/- Oldman.
- 100 Lyonett's dissecting microscope, in mahogany case, with fittings 2/- Macindale.
- 101 A small camera-obscura microscope, by Chevalier 3/- Walter.
- 102 A portable microscope (incomplete), 2 boys' microscopes, and 2 small hand microscopes; all 19th Century 10/- Day.
- 35/- 103 A hand microscope, with rotating wheel of powers, in mahogany case; and a compass microscope, no case 4/- Webster.
- 104 A hand-glass magnifier in ivory, a cup set of magnifiers, 2 compass microscopes, and a hand-flower microscope; all 19th Century 10/- Man.
- 105 Small lignum vitæ microscope, botanical microscope, small hand microscope, in case, part of another, and a seed microscope 12/- Oldman.
- 106 Two small ivory Coddington lenses, 2 others, by West, 4 small hand microscopes, and part of a microscope; all 19th Century 8/- Gabb.
- 107 A snuff-box, fitted with a spy-glass, a hand microscope of lignum vitæ, small botanical microscope, and a medal 12/- Bowd.

COMPOUND MICROSCOPES,

the bodies being made of wood, ivory, etc., with screwing or sliding adjustments; late 17th and early 18th Centuries.

5. 108 Modern copy of Janssen's compound microscope; the original is in the Museum at Middelburgh, and a copy of Divini's compound microscope (1667-8) 12/10/- Macindale.
8. 109 A full-size copy of Robert Hooke's original compound microscope, as described in his book, "The Micrographia," 1665. 20/- " ..

40. 110 An original modification of the Hooke microscope, dating from about the year 1675; the outer body is covered in dark crimson leather decorated with gold stamping, the inner bodies are of white vellum undecorated, the mounts in turned lignum vitæ, the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached, up or down, on the vertical column; this instrument is in a good state of preservation, certainly very rare, and probably unique

(See ILLUSTRATION.)

30. 111 A beautiful little compound microscope, made by the celebrated Italian optician Guiseppe Campani; the compound body is entirely of wood, screwing into a brass tripod base, with an interesting spring attachment to hold the slides; the focusing is effected by screwing the compound body into the top of the brass tripod, which bears the maker's signature—viz., G. Campani in Roma; the eye-lens is double convex, of about 1-in. focus; there is no field-lens; the objective lens is a double convex of about $\frac{3}{8}$ -in. focus; the distance between the eye-lens and the objective can be varied; this beautiful little microscope is very rare, only about a dozen examples being known; it is both optically and mechanically perfect

(See ILLUSTRATION.)

15. 112 An early Italian microscope, with wooden body, mounted on an open brass tripod; this instrument closely follows the design of other microscopes known to be made by Campani, and may perhaps be attributed to him; it, however, bears no signature of any kind

75/- 113 An old English microscope, with green vellum outer body, signed J. Mann Fecit, and mounted in wood (broken); the entire base is not original, being more modern (A.F.)

5. 114 An early English tripod microscope; the outer body is of white spotted vellum, decorated with gold stamping, the mounts being in wood; the focus is effected by screwing the nose-piece into a collar at the top of the tripod; the circular wooden base bears the object carrier; very scarce

5. 115 Another similar form of microscope, with both the outer and inner bodies covered in green vellum, with gold stamps; the base, which is of lignum vitæ, has been repaired; very scarce

20. 116 A tall tripod microscope, of early date and foreign origin, probably German; the outer body is elaborately decorated with designs in red and green; the base, which is in the form of a tripod, together with the objects carrier, are all beautifully carved wood; unique

Shepherd.
160 . . .

Maximale.
45 . . .

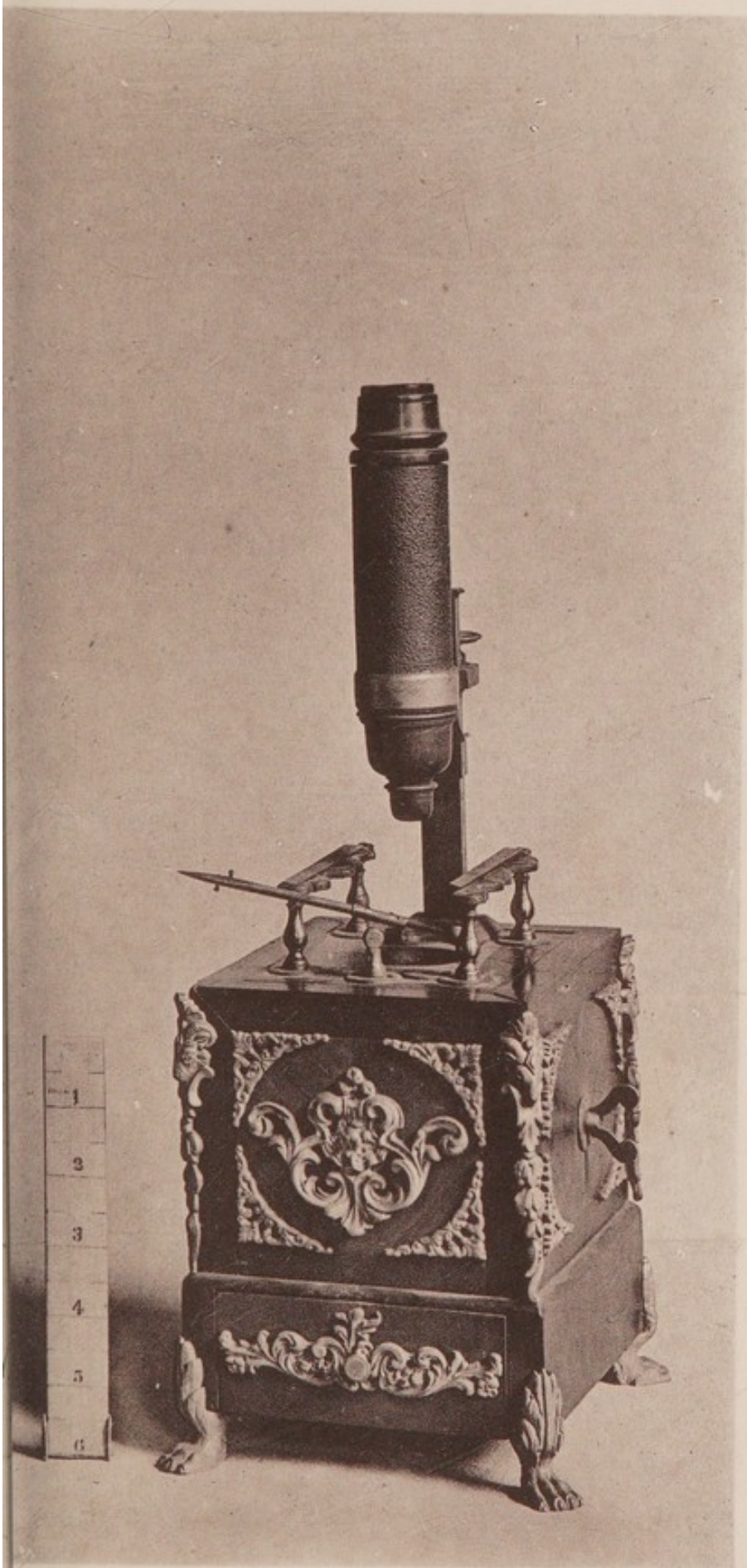
Bowd.
14 . . .

Shepherd.
13 . . .

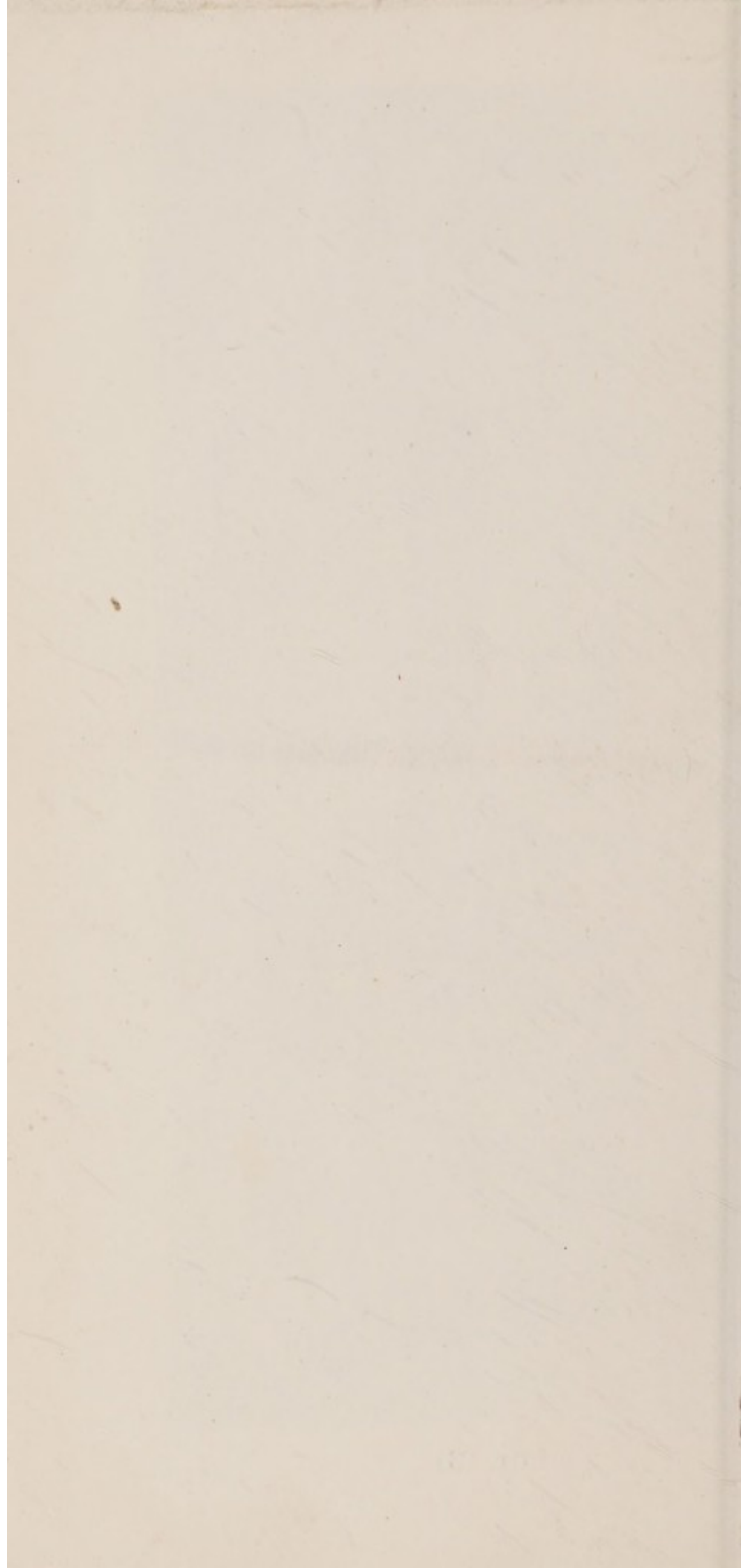
Shepherd.
26 5 . . .

Shepherd.
14 14 . . .

Bowd.
16 16 . . .



LOT 131.



25.

- 117 An early English compound microscope, made by J. Marshall, in Ludgate Street, London, *circa* 1704; the outer body covered with white vellum, with red and green spotted ground, with gold stampings; the mounts are of wood; the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached up and down on the square vertical column, and fixed by a jamb screw, the finer focusing being effected by means of an octagonal nut working on a screw; both eyepiece lenses missing, and all other fittings; it has, however, 5 out of the 6 original objectives; very rare, only about 12 being now known

Shepherd
17

20.

- 118 An early English microscope, made by John Marshall, in Ludgate Street, London, *circa* 1704; the design and mechanical adjustments are similar to the preceding microscope; the covering of the outer body is of bright green vellum, with gold stampings; the inner body is green vellum, undecorated, the mounts are of turned lignum vitæ; the whole instrument can be inclined by means of a ball-and-socket joint at the base of the pillar; the whole is fixed on a rectangular octagonal base, with drawer; this instrument has 4 out of the 6 original objectives, a holder for opaque objectives, and a pair of stage forceps

S. Shepherd
22(See ILLUSTRATION₄)

30.

- 119 Another example of John Marshall's double microscope; the outer cover is grey shagreen, the inner body being green vellum, with gold stamping; this microscope has the 6 original object-glasses, the opaque holder, a small stage condensing lens that can be attached to it, another holder carrying a spring stage, hand forceps, and a small mirror, which is not contemporary; on octagonal base, with drawer to hold the apparatus

Shepherd
13

12.

- 120 A modified form of John Marshall's double microscope of later date; in this model the ball-and-socket joint is replaced by a vertical column, which is rigidly fixed to the box base; the transverse arm, which carries the compound body, can be moved up or down to focus in exactly the same way as the Marshall microscope; the fitting which carries the stage and other accessories is rigidly fixed to the upright column; the outer body is covered with crimson leather, with gold stampings on both edges, the inner body is of green vellum, with similar stampings, the mounts being of turned wood; the instrument has the 6 original objectives, the stage condenser fixed to a movable arm, stage forceps, opaque holder, spring stage, and 3 ivory slides; this instrument is fitted with a plain mirror

Maximale
14

9. 121 | An early tripod microscope, with green vellum outer body, fitted with 2 draw tubes; the focusing is effected by sliding the nosepiece of the compound body into a wooden collar surmounting the tripod; this instrument closely follows the form of Divini's microscope; the base is circular, with a curious movable object-plate; very rare

Bowd.
10

8. 122 | An interesting tripod microscope, with compound body of very unusual form, being constructed of ebony with ivory mounts; the focusing is effected by screwing the nosepiece into the collar of the tripod; it is fitted with a mirror; very rare

Bowd.
3 10

30. 123 | An early Italian microscope, of very original design; the compound body is covered with black leather, and the mounts are of turned ivory; the transverse arm that carries the compound body can be moved backwards or forwards on the upright column, and also up or down to focus the instrument; the whole is mounted on a brass tripod base, to which are attached a ball-and-socket arm, carrying a stage condensing lens; it is also fitted with a mirror, a rotating object-carrier; it bears the inscription, Elaboratum a Blasis Burlini Venetiss Optico

Bowd.
3 1

(See ILLUSTRATION.)

6. 124 | A microscope of unusual construction, the outer and inner bodies of green leather, richly embossed with gold stampings; it bears the inscription in gold lettering on the front of the body tube, Johann Balthasar, Oppelt Opticus Aupsach in Francken

Chalkwood
7 7

7. 125 | A modified form of Hooke's microscope, the outer body decorated with gold designs, rigidly fixed to a vertical column; the compound body, however, can be moved laterally, and fixed in position by a jamb screw; the stage is movable up or down to focus, and there is a mirror; on box foot, with drawer; rare form

Bowd.
13

6. 126 | An early type of tripod microscope; the focusing is effected by screwing the nosepiece into a collar at the top of the tripod; the body is of wood, and there is a mirror fitted to a turned wood base

Bowd.
4

10. 127 | A French modification of Marshall's double microscope, the top being of turned wood, and the body of brass; the fine adjustment screw is at the back of the vertical column, which carries the compound body; the instrument is inclinable, by means of a compass joint; the base is of brass, fitted with a mirror, which, with the stage, are probably of a later date than the rest of the instrument; rare

Bowd.
5

6. 128 A microscope of unusual design, with conical body, the outer body of red lacquer fixed on the top of a slender brass rod, from which, by means of a joint, it inclines; the box base is of wood, inlaid, fitted with a drawer; unique

bowt:
3 . . .

8. 129 A beautifully shaped box form of microscope, the mirror being enclosed in the box base; in use, the front of the box is removed from its grooved fitting, with 4 ormolu claw-shaped feet; the outer covering of the compound body is of green shagreen, with wood and ivory mounts; it is fitted with a rotating object-holder and stage forceps; probably of French make, and in perfect condition

maximale
9 . . .

5. 130 A similar microscope, with stage condenser, stage forceps, and rotating holder for a fish-plate; the compound body covered in shagreen, with wooden mounts

6 6 . . .

20. 131 A similar microscope, elaborately decorated with ormolu mounts, and claw feet; in this instrument there is a wheel of diaphragms in front of the mirror; the outer covering of the compound body is black leather, the mounts being of wood

bowt:
9 9 . . .

(See ILLUSTRATION.)

50. 132 The historical microscope, formerly the property of Pope Benedict XIV, who succeeded to the Pontificate A.D. 1740; this beautiful little microscope, in general design, resembles the 2 preceding microscopes; the beautifully made box base is elaborately inlaid with designs in marquetry on all sides, the front panel having a decorated shield design surmounted by the triple mitre and cross-keys; the compound body is covered in delicate green shagreen, with wood and ivory mounts, the metal parts being gilt; it has an engraved arm to carry the condensing lens, and a beautifully-engraved scalloped rotating object-holder; the hand forceps are also engraved; the apparatus is contained in a drawer in the base; this instrument is in perfect condition, and complete

31 bowt:
. . .

(See ILLUSTRATION.)

5. 133 A box form of microscope, with ornamental feet, the adjustment being effected by a rack and pinion; the compound body is of brass

bowt:
4 10 . . .

134 A similar microscope, but no ornamental feet

bowt:
4 10 . . .

5. 135 A box form of microscope, the compound body covered with fishskin, with wood mounts, and drawer under, which contains a few fittings

Shepherd.
5 10 . . .

5. 136 A box form of microscope, with all-brass body; the focusing is effected by rack and pinion; 2 drawers in the base contain the object-glasses and other fittings

maximale.
6 6 . . .

5. 137] A curious old microscope, adjustable, on an upright brass rod; the stage is fixed at the top of a small tripod, the mirror being underneath, mounted on a square wooden base, with drawer; a very scarce form of microscope
35. 138] A beautiful microscope, the compound body of tortoiseshell and ivory, fitted with a complicated micrometer stage, screw adjustment to the mirror; on a beautifully shaped box foot; it bears the inscription on the stage, D. Joannes de Guevave, Fecit 1752; the instrument itself is in very good condition, but unfortunately the optical part is missing
(See ILLUSTRATION.)
- 65/- 139] A compass microscope, with ivory compound body, fitted to a box base, with 2 drawers, which contain a number of accessories
- 60/- 140] A curious microscope, with compound brass body, the upright pillar and stage being all of wood; on octagonal-shaped base; scarce and interesting form of microscope
- 90/- 141] Small microscope, with ivory compound body, on ornamental scroll stand; fine adjustment applied to the stage; on circular base, fitted with mirror
- 50/- 142] Another small microscope, signed W. R. Fecit, closely following the design of Wilson's screw-barrel microscope, with the compound body
- 143] An early tripod form of microscope, the outer body covered in red leather with gold designs, and wooden mounts to eye-pieces; probably of Italian origin
- 144] The original form of Culpeper's tripod microscope, the outer body covered in grey shagreen, by Edmund Culpeper; in case, with 5 powers, and other fittings in the drawer
- 145] A similar microscope in all respects; in case, no fittings
- 146] Another, the same as the above
- 147] Another, ditto
- 148] A Culpeper form of microscope, the outer body covered with red leather; the screw cap contains 4 powers; in case, no other fittings
- 149] A Culpeper type of tripod microscope, grey shagreen outer body; a few fittings in case
- 150] A similar microscope, covered in red shagreen; the entire eye-piece is missing; with a few fittings in case (A.F.)

Bowt.
3Bowt.
33S. Shepherd.
3 10Bowt.
2

11 0 0

Bowt.
2 15S. Shepherd.
4 5Mackew.
5 5Bowt.
4Mackew.
3 10Gabb.
3 5Shepherd.
6Parson.
3Day.
3 10

- 151 Another, similar, quite perfect ; with a few fittings in the drawer
- 65 152 Another, similar, the outer body covered in red leather with gold designs ; brass inner body ; no case
- 5 153 Another, the outer body covered in red shagreen, by J. Cuff ; a few fittings in the drawer of the base ; no case
- 701 154 Another, in which the compound body screws up and down to focus, mounted on a square wooden box base
- 757 155 Another tripod microscope, the outer and inner body both of box wood ; on octagonal box foot, in the drawer of which there are a few fittings
- 156 A Culpeper form of tripod microscope ; outer body covered in black leather ; on octagonal box foot
- 157 A tripod form of microscope, all brass
- 158 A tripod microscope, outer body in grey shagreen ; on octagonal box foot ; with a few fittings
- 159 Another tripod microscope, on octagonal box base, the outer body covered in grey shagreen ; there are a few fittings in the drawer of the box foot
- 160 A tripod microscope, brass outer body, with rack adjustment ; on square box base
- 161 An original Culpeper tripod microscope ; the outer body covered in grey shagreen
- 162 A Culpeper tripod microscope, the compound body being of brass, the eyepiece end in wood, fitted on an octagonal base ; on the instrument is engraved Dr. Demainbray
- 4 163 An interesting old microscope, on brass stand, with wooden compound body and screw focusing ; it is inscribed Guileo Architelle Idranbier Invent e Feci
- 164 A similar microscope, all brass, with wooden base ; no inscription
- 165 A pocket drum microscope, the outer body covered in red shagreen, signed B. Martin, London
- 166 A pocket drum microscope, smaller ; the outer body covered in green shagreen
- 10 167 G. Adams' universal microscope (1746), black ivory body, 8 powers, tripod folding foot, on the upright stem is engraved, " Made by G. Adams, in Fleet Street, London " ; the whole enclosed in a black fishskin case, which contains a number of fittings

Gabb.
4 15
Bowt.
3 3
Bowt.
4
Bowt.
1 15
Bowt.
3
2 15
Hay.
1 5
Shepherd.
2 10
Shepherd.
5 10
2
Shepherd.
3 3
Shepherd.
7 10
Bowt.
2 15
Bowt.
1 10
4
Bowt.
3
Charleswood.
13 13

25. 168 A very fine and improved form of the above microscope, the compound body being covered in green spotted fishskin; it is fitted with a rotating wheel of 8 different powers; the stage is a micrometer one, and has movements in both directions; the instrument is mounted on 2 brass scrolls, and it can be inclined; when used in a vertical position it is secured by a spring, which has to be released when the instrument is to be used in an inclined position; the fine adjustment is actuated by 2 geared bevelled wheels at the base, moving a rod attached to the stage; the instrument is signed, "Made by George Adams, Math: Inst. Maker to His Royal Highness The Prince of Wales"; fitted on a wooden base, with 2 drawers containing a number of fittings

Masculdale
26

275. 169 A magnificent silver Universal microscope, of very elaborate construction, signed on the edge of the objective-holder, *Made by G. Adams, in Fleet Street, London*; the compound body, of elegant proportions, fits into a collar in the centre of a silver wreath, which is supported by 2 allegorical female figures; the whole upper part rests on a fluted Corinthian pillar, rising from a square decorated base, resting on a decorated crosspiece, raised by 2 similar crosspieces placed at right angles to it, thus forming the feet; there is a frog-plate, a bull's-eye stage condenser, with a curious Hooke's joint and ball-and-socket movements; the whole is contained in a beautifully shaped Chippendale case, and is in a perfect state of preservation

Webster
360

(See ILLUSTRATION, *Frontispiece.*)

5. 170 A microscope, with a curious method of inclination, and an early form of direct-acting screw fine adjustment, which moves the body; on a box base; the instrument is inscribed, F. Villette a Liege

Charleswood
9
~~8 to~~

8. 171 A microscope, of unusual design, with a rotating triple nosepiece carrying 3 objectives, and fixed on an oval decorated wooden base, with drawer; the instrument is inscribed, Invt: et Fecit G. V. Schleenstein a Cologne

Charleswood
11 11

10. 172 A fine example of the original form of dissecting microscope, devised by Lieberkuhn, and made by Mitsdörffer, of Berlin, circa 1750; it is fitted with a number of adjustable brass hooks, to hold the object under examination; on a brass tripod stand, with ball-and-socket movements

Masculdale
12

(See ILLUSTRATION.)

173 Another form of Lieberkuhn's dissecting microscope, with curious spring adjustment for focusing; no stand

Quay
2

- 55/- 174 A smaller form of the above, and 2 others ; no stand
- 70/- 175 The remainder of the valuable catalogue, containing voluminous notes, illustrations, and descriptions of the more modern part of this celebrated collection, the earlier part never having been catalogued in detail

GERMAN WOODEN MICROSCOPES,

made by the Toy Makers of Nuremberg, circa 1750-1780.

- 50/- 176 Two wooden hand microscopes
- 60/- 177 Two tripod wooden Nuremberg microscopes, fitted with mirrors, one stamped with M in a circle, and the other $\frac{M}{F}$ in a heart-shaped shield
- 60/- 178 Two ditto, but with box bases, one marked M in a circle, the other bears no mark
- 60/- 179 A modern wooden microscope, and a tripod microscope, marked M
- 75/- 180 A Nuremberg microscope, with fine adjustment, mounted on a single pillar ; and another, with drawer
- 4 181 A fine Nuremberg microscope of the best kind, on rectangular box base, compound body, supported by 2 parallel arms, 1 * S in oval stamped on base
- 4 182 A ditto, larged stamped M.I. in circle
- 183 Two others, smaller ; no marks
- 35/- 184 A Nuremberg imitation of an old form of microscope ; and a wooden microscope, with draw tubes
- 50/- 185 A German wooden microscope ; the rack moves the stage ; on square box base ; an interesting 18th Century microscope, and scarce

JAPANESE MICROSCOPES.

- 70/- 186 A modern imitation of a tripod microscope, the outer body richly decorated with gold designs, the mounts being of horn and lacquer ; this is quite modern, but interesting, as being made in Japan by Japanese workmen
- 65/- 187 A ditto, smaller, with metal mounts, and one slider

Goodyear.
4
Goodyear
9

Bowd.
2

Bowd.
3 3

Bowd.
1 5

Bowd.
1 5

Bowd.
2

Bowd.
3 3

Bowd.
3

Webster.
2 15

Bowd.
1 15

Bowd.
1 15

Wallon
4 4

Bowd.
1 15

TELESCOPES, Etc.

- 188 A curious artificial eye, on brass tripod stand
- 189 A reflecting Gregorian telescope, on brass tripod stand, by B. Martin, London
- 190 A reflecting Gregorian telescope, outer body covered with green shagreen, on brass tripod
- 191 A small reflecting Gregorian telescope, by T. Ribright, London, in case
- 192 A prismatic reflecting instrument, on square black wooden base

maximale
2 5
Day.
1 5
maximale
6 -
maximale
7 10
Day.
12

MICROSCOPES

of later dates, principally of brass, circa 1740-1835.

- 193 An old brass microscope, on tall upright pillar rising from a flat tripod, foot stage adjusting by rack, no case or accessories
- 194 A brass microscope, by Brander, inclining on the top of a pillar, circular base, no case or fittings
- 195 Curious microscope with wooden body, adjustments by rack, on wooden box foot, with drawer for fittings
4. 196 A brass microscope, by Brander and Haschel, on flat tripod foot, no case or accessories
- 197 A curious old microscope, not signed, but probably by Benjamin Martin
5. 198 A brass microscope, with curious long lever adjustment which moves the stage; a very scarce form of microscope, but probably a copy of an older instrument
4. 199 A microscope with catgut focusing to stage
- 200 Another microscope with catgut adjustment to stage; rare and scarce form
- 60/- 201 A microscope of unusual form, mounted on double pillars, rack adjustment which moves the body, the mirror can be adjusted backwards or forwards
- 55/- 202 A French microscope, by Lerebours à Paris, on wooden base, with rack adjustment; scarce and interesting type of instrument
- 56/- 203 Old microscope, the body mounted on a scroll transverse arm, with rack adjustment to stage

Bowl:
10
Day.
12
Bowl:
12
maximale
4 10
Bowl:
14
Bowl:
3 5
Bowl:
1 1
Bowl:
1 5
Bowl:
1 10
maximale
4
Bowl:
1 1

- 40/- 204 | A microscope with Cuff's form of fine adjustment, by Brander ;
no case
- 35/- 205 | A small portable microscope, in inlaid case ; a scarce form
- 80/- 206 | A curious old microscope with oval wooden stage ; stamped on
the stage is : " Fecit J. R. Oppelt, Opticus à Anspach " ; on
wooden box foot ; interesting and very rare type of micro-
scope
- 55/- 207 | Small and scarce form of microscope, with concealed coarse rack
adjustment moving the body, an early example of this
feature, on wooden box, with accessories, in a drawer
- 65/- 208 | Rare and curious type of portable microscope, on wooden box
base, with drawer for fittings under ; this has a curious
form of fine adjustment which is very uncommon
- 70/- 209 | Curious 3-pillar microscope, with unusual form of frog plate, on
wooden box with apparatus
- 70/- 210 | Another curious tripod microscope, both upper part and box
ornamented
- 75/- 211 | A microscope of unusual construction, both the compound body
and stage can be adjusted by rack ; a combination rarely
found in a microscope
8. 212 | An extremely interesting old microscope, both body and stage
are supported by 2 pillars for focusing, stage moves up or
down, sliding in grooves, cut in the pillars by a lever acting
on 2 rods to which the stage is connected, this lever being
moved by a knob placed in the front of a turned wooden
box base, with drawer for fittings ; very rare and probably
unique
- 70/- 213 | An early drum-shaped microscope, on an inlaid wooden base, with
drawer for fittings ; the mirror is a silvered convex lens
6. 214 | A beautifully made brass microscope, of the Culpeper-Scarlett
tripod form, fitted on a carved box base with drawer con-
taining the accessories ; this microscope is very complete
and was made by George Sterrop, whose instruments are
now rare as he died comparatively young ; he had a
European reputation for his microscopes
4. 215 | A brass microscope, signed J. Cuff, Fecit, with micrometer applied
to the eyepiece, on mahogany base, with drawer and some
accessories, no case
- 70/- 216 | Another, signed J. Cuff, Fleet Street, no case, but a number of
accessories, in drawer of box foot

bowl:

1 10

bowl:

16

bowl:

2 5

bowl:

1 1

bowl:

2 2

bowl:

2

bowl:

1 15

Inascindale

4 10

bowl:

2 10

bowl:

1 10

bowl:

2

Inascindale

7

Gunter,

6 10

- 65/- 217 Another, signed J. Cuff, no case, but a number of accessories in the drawer
- 218 Another, Cuff model, not signed, and no accessories
- 70/- 219 Another, by Benjamin Cole, 136, Fleet Street
- 220 Another, Cuff model, but with rack adjustment to stage, and no fine adjustment, no case
- 65/- 221 Another, Cuff model, with side rack adjustment to stage, with accessories in drawer, by Dollond
- 65/- 222 A modified form of Cuff's microscope, by Mann and Ayscough, in case, with fittings
- 5- 223 Beautifully made microscope, after Cuff's design, on an inlaid wood box foot, with 2 drawers containing accessories; this beautifully made instrument was constructed by the celebrated French optician, Passemant Ingenieur du Roi au Louvre; very rare
- 65/- 224 Modification of Cuff's microscope, made inclinable, in case, with Solar fitting and other apparatus, by Dollond
- 60/- 225 Ditto, as made by Pyfinch, inclining by a joint at the base of pillar on box foot, which contains the accessories, no case
- 55/- 226 German form of Cuff's microscope, with mahogany base, with drawer and accessories
- 60/- 227 Scarce model of Cuff's microscope, of foreign origin, on wooden base
- 70/- 228 Fine old chest microscope, by Nairne, London; quite complete
- 60/- 229 Ditto, by Dollond, nearly complete
- 50/- 230 Ditto, by Nairne (faulty); and another, by Dollond (case defective)
- 55/- 231 A chest microscope, by D. Adams, complete
- 232 Ditto, by Nairne and Blunt, nearly complete
- 65/- 233 A chest microscope of foreign make, fitting into a square hole on a brass plate fixed in the bottom of the box; a very rare and curious form of attachment
- 50/- 234 An 18th Century microscope, by D. Adams, on mahogany base, drawer with fittings
- 50/- 235 A microscope, by Meredith, New Bond Street, in case, with accessories

bowl.
2 5
Walton.
1
bowl.
2 10
bowl.
1 1
bowl.
2
bowl.
1 7 6
masculade
7
masculade
3 10
bowl.
2 2
bowl.
1 5
bowl.
1 1
bowl.
2 5
bowl.
1 15
bowl.
1 1
bowl.
2 10
1 4
1 5
bowl.
1 10
bowl.
1 1

- | | | | |
|------|-----|--|--------------------|
| 16- | 236 | Scarce and curious old microscope, which closely resembles the variable, made by G. Adams, circa 1771; this instrument is dated 1772; it has 3 powers fitted to a curious sliding nosepiece, no case or other accessories | Maximale
11 |
| | 237 | A microscope, signed Dellebarre, 1793, no case or accessories; this type of microscope was invented by Dellebarre in an attempt to improve the microscope by correcting the aberrations; in practice, however, it was found not to be satisfactory | Shepherd.
6 |
| | 238 | Another, signed à Dellebarre, 1806, bears the inscription, Onderdenyngaart Canzuis Confecit Delft, with flat folding tripod foot | Shepherd.
3 15 |
| | 239 | Another, not signed; no accessories or base | 1 1 |
| | 240 | Another, ditto | 1 10 |
| | 241 | Another, ditto | 1 15 |
| | 242 | Another, ditto | 1 4 |
| | 243 | Another, ditto | 1 15 |
| 5- | 244 | A curious and rare form of drum microscope; can be used either as a compound or solar microscope, in ornamented case, with drawer under, containing a large number of slides and accessories; extremely rare form, and very complete | Cowl.
2 2 |
| | 245 | Another, stand only, no solar attachment, case, or accessories | 14
Shepherd. |
| 7-7 | 246 | An interesting and scarce microscope, rack adjustment moving the stage, fitted with a candle holder, and stage divided into squares; 2 drawers, in box base, containing slides and fittings, signed Tiedemann | 3 |
| 5. | 247 | Polished mahogany cabinet, containing a very fine microscope with solar attachment, and drawer under, containing apparatus, by Dollond; very fine and scarce optical outfit | Cowl.
2 10 |
| 70/- | 248 | Semi-portable microscope, by Dollond, on shaped tripod foot; in case, with drawer containing a number of accessories; the design of this microscope is very curious in many respects | Cowl.
2 5 |
| 8. | 249 | Microscope, of unusual form, signed on base, Officina Gottlo Stegmanni; a scarce type of instrument | Cowl.
1 15 |
| 4. | 250 | Microscope, on wooden box, with drawer for fittings, with square mirror; rare, perhaps unique | Cowl.
1 5 |
| 50/- | 251 | Small microscope, signed P. and J. Dollond, probably made by Benjamin Martin for the Dollonds; very scarce | Boscindale
2 10 |

243*

246*

2/10/- Goodyear.

1/5/- Shepherd.

- 252 Microscope, with rack adjustment to body, tripod legs folding downwards
- 40/- 253 An old microscope, with ornamented tripod feet; scarce form
- 50/- 254 A microscope, fitted with curious mirror movement on crank arm, so that it can be used either under or over the stage
25. 255 Massive microscope, of unique design, constructed by Kleman, of Amsterdam; this extraordinary microscope has an eyepiece, of which the field lens is nearly 5in. in diameter, the body is conical, and about 24in. in length; the stage racks for focusing the mirror is not attached to the body, but on a separate base, and can be used independently of the microscope; there is a solar attachment, with mirror, so that it can be used as a solar microscope when required; it is mounted on a tall pillar, fitted to a tripod with shaped legs; the whole contained in a large cabinet, in the drawer of which is an extra stage and other accessories; this microscope is probably unique
- 256 Oberhauser form of drum microscope, in case (broken); and a tripod microscope (faulty)
6. 257 An unusually tall and fine example of an early 19th Century Culpeper form of microscope, with all fittings, in pyramid-shaped mahogany case
- 258 Small pocket microscope, in case, by Cary; and parts of another microscope
- 55/- 259 Beautifully made early 19th Century achromatic portable microscope, by Plassel; complete in case with accessories
- 260 A stand only, no fittings or objective, of Chevalier's best horizontal achromatic microscope; a very fine instrument, but unfortunately all the accessories are wanting
12. 261 A large microscope, of very unusual form, with folding tripod feet, by Dollond; this remarkable microscope is fitted: 1st, with an oil lamp, swinging in gymbals, attached to the tail piece; 2nd, a peculiar screw movement to the stage; 3rd, the screw adjustment fitted to the eyepiece. This is a very rare and unusual combination to find in any microscope; it is certainly very rare
- 262 A rare and early type of reading microscope with table clamp and rod fitting, in case
- 263 Portable microscope which screws into the base of the box, an interesting and complete microscope of a scarce form
- 264 Folding tripod microscope, by Nobert, with curious wheel micrometer adjustment; no case or objective

Cary.

1 2

Cabinet.

2 2

Cabinet.

1 1

Cabinet.

14

Cabinet.

14

Cabinet.

1 10

Cary.

1

Bascindale

3 10

Cabinet.

1 15

Cabinet.

2

Cabinet.

1 1

Bascindale

2 10

Cary.

1 5

55/- 265 Tripod microscope, with feet folding downwards, rack adjusting stage, and adjustable mirror ; an interesting form of French microscope

18

Count.

60/- 266 Microscope, on wooden box foot, the body being mounted on top of a pillar, which can be inclined ; fitted with drawer, which contains accessories ; probably of French make, and scarce

1 1

Count.

55/- 267 Jones' improved form of microscope, rack adjusting stage, many accessories in box foot, by Bate

2 15

Count.

65/- 268 A rare form of microscope, by Dollond, rack adjusting stage, with steadying rod

1 1

269 Folding tripod type of microscope, in case, complete with fittings, by G. Adams ; a very nice example of G. Adams, Junior, work

2 5

55/- 270 Tripod microscope, on circular wooden base, with sliding adjustment, in case

Count. 10 6

271 Jones' improved form of microscope, in mahogany case, with under drawer for fittings

Count.

272 Small flat tripod microscope, with rack adjusting stage ; and another, on circular wooden base

14

Blanche.

16

7- 273 Rare and unusual type of microscope, with steadying rod, and ivory scale attachment for direct comparison of measurements ; this very interesting microscope is probably unique ; it bears the name of P. Carpenter on the base

Count.

2

8- 274 Brass inclining microscope, very complete, in polished case, the lid richly inlaid with mother-of-pearl, with drawer under, containing a large number of slides, by Cutts

Count.

3

45/- 275 Portable microscope, in case, by Adams

Count.

1

50/- 276 Double pillar microscope, probably French, on mahogany base ; and another Jones' most improved type

Count.

1

35/- 277 Small brass microscope, in case, by W. & S. Jones ; and another, by Dennis

Count.

1

35/- 278 Portable microscope, by Francis ; and a brass 19th Century Culpeper type of microscope

Count.

1

25- 279 A fine example of Dr. Goring's Aplanatic Engiscope ; this extremely rare form of early achromatic microscope is particularly interesting as being the original model bought by the late Sir Frank Crisp from the son of the maker ; it bears the inscription on the tripod foot, W. Brittan, optical instrument maker ; only one other example is at present known, that at the Science Museum, S. Kensington ; the sheet from the Crisp Catalogue describing the instrument is included

Count.

12

- 280 Reflecting microscope, Amici form, no accessories ; very scarce, only a few of such instruments now being in existence
15. 281 A beautifully made example of the Amici horizontal achromatic microscope, with various adjustments not generally found in this type of instrument ; this is no doubt due to the fact that it was Professor Amici's own working microscope, purchased by the late Sir Frank Crisp from Professor Golfarelli Officina Galilao, of Florence, who had it direct from Amici's heirs ; the sheet from the Crisp catalogue giving full details is included
4. 282 A rare and curious microscope, fitted with an ivory wheel to hold 51 objects ; this early form of museum microscope was made by T. Winter, who worked for the trade
4. 283 A similar microscope, but of a simple form, signed T. Winter ; both forms are now very scarce
- 75- 284 Scarce form of drum microscope, with curious rotating wheel object carrier
- 285 An upright microscope, by Adams, on folding tripod foot
- 286 Most improved microscope, by W. & S. Jones, has a curious movement in arc by rack acting on stage ; very scarce
- 287 Inclining brass microscope, rack adjustment, on triangular bar
- 288 Small microscope, with fine adjustment to stage, on wooden base, with fittings ; and a small ditto, with folding feet, no case
4. 289 Museum microscope for 10 objects, with eyepiece and objective, on round brass base
- 290 Brass microscope, by Chevalier, on rigid tripod foot, no objective
- 291 Two brass microscopes, one defective
- 292 Small microscope ; and another (faulty)
- 293 Student's microscope, Pritchard form, fitted with an early form of fine adjustment
- 294 Folding tripod foot microscope, with early form of direct acting, fine adjustment ; probably French
4. 295 Brass microscope, with curious compound body, by Crickmore of Ipswich
- 296 An inclining rack adjusting microscope, on block wooden base ; and another, in case
8. 297 A very elaborate compound microscope, and a large number of accessories, forceps, etc., by G. Adams ; this appears to be an improved form of the variable, 1771 ; very rare

Day.
2 10

Cowell:
14 14

Cowell:
3

Charlesworth
4 10

Cowell:
10

Cowell:
10

Cowell:
14

Blanche:
1 2

Cowell:
1 5

Day:
1 1

Day:
1 2

Day:
12

Blanche:
12

14

Cowell:
2 5

Day:
1 6

Cowell:
3 10

- 298 A very complete compound microscope, by Dollond, with numerous accessories ; very rare
- 299 Microscope, in case, 2 eyepieces, no objective
- 300 Portable microscope, with numerous fittings, in case, by Huntley
- 301 A small portable microscope, by Watkins & Hill ; and another, by F. Watkins (defective), no case or fittings to either
- 302 Jones' most improved microscope, by Dollond, in case, with fittings
- 303 Early 19th Century French microscope, in cardboard case, with accessories
- 304 A very complete portable microscope, with tripod folding feet inclining in case, with fittings
- 305 Single pillar brass microscope, in mahogany box foot, which contains accessories
- 306 Portable microscope, with folding feet, in mahogany case, with fittings
8. 307 A very elaborate and complete improved opaque and transparent compound microscope, with a multiplicity of expensive accessories ; a remarkable example of a high-class early 19th Century microscope ; very scarce in any condition, and probably unique in its present state of preservation
- 308 Another similar, but nearly all the fittings are missing, and the case is defective
- 309 Brass microscope, on folding tripod foot, with a few fittings in case, which is slightly defective
- 310 Portable microscope, Jones' most improved form, with fittings, in case
- 311 Portable microscope, by Dollond, Jones' improved form, fitted in case
- 312 A microscope, on tripod foot, by A. Pritchard, with some fittings ; and another (faulty)
- 313 Microscope, rack adjusting, with folding tripod foot, in case
- 314 Jones' most improved microscope ; in addition to the usual fittings there is a compass microscope fitted into the case
- 315 Portable microscope, with fittings, in case, by Cary
- 316 Ditto, by Dollond

2 5

Cary.

16

Blanche

10

Cary.

16

Blanche

18

man.

12

Cary.

18

man.

12

man.

16

Cowell:

3 10

Cowell:

1 10

Cowell:

10

6

14

Cowell:

10

Shepherd.

1

Cary.

16

Cowell:

12

12

Blanche

12/-

- 317 Portable microscope, with folding feet, in case, complete with accessories
- 318 Youth's drum form of microscope, in mahogany case, with accessories, complete
- 319 Portable microscope, in case (faulty)
- 320 Portable microscope, T. Harris & Sons, in mahogany case, with fittings
- 321 Pocket microscope, with folding foot, by Duncan, Aberdeen, in case
- 322 Beautifully made silver-plated pocket compound microscope, by Sphere, of Dublin; complete with all accessories, in case
- 323 Flat tripod microscope, in case, fitted with drawer, and some fittings by Pritchard
- 324 Portable microscope, in polished mahogany case, with accessories, by Crichton, London
- 325 Small portable microscope, in case; and 2 other hand microscopes
- 326 Microscope, with folding foot, and a drum form of microscope
- 657- 327 Curious microscope, signed Brock, invent Fecit
- 328 Inclining microscope, by Abrahams
- 329 Two old microscopes, 19th Century
- 330 Two small pocket microscopes
- 60- 331 Curious portable microscope, by Francis
- 332 Two early 19th Century microscopes (1 fitted with a wheel of powers)
- 333 Antique microscope, on mahogany base, with drawer and accessories, by Dixey
- 657- 334 Antique microscope, by Lincoln, London
- 335 Brass microscope, early 19th Century, on circular base, with triple objective; and a small hand microscope
- 336 Brass Culpeper type of microscope; and another, on circular base
- 337 Horizontal microscope, by Chevalier (faulty); and another, by Cary

11
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Cowl
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Blanche
14
Webster
18
1 15
1 -
Runing
16
Cowl
10
Man
6
Cowl
1
Blanche
6
Blanche
6
Cowl
1
Cowl
18
12
Man
15
Cowl
1
Man
10
Man
9
2

OPTICAL CABINETS, SOLAR AND PROJECTION MICROSCOPES.

- 338 A beautifully made optical cabinet, containing a brass microscope, a solar microscope, covered in green shagreen, a telescope, ditto, and other fittings; the whole, contained in a mahogany cabinet, is in a beautiful state of preservation, and very rare
- 339 A large optical cabinet, in black fishskin, containing a compound microscope; a solar microscope; and numerous other fittings; in perfect condition, and very scarce
- 340 A smaller cabinet, which contains a microscope and fittings only
- 341 A very large and complete optical cabinet, containing a compound microscope; solar microscope; and a large number of other fittings; fishskin case
- 342 Another, similar, incomplete; contains the solar microscope only
- 343 John Cuff's first form of solar microscope, wooden base board
- 344 Mann & Ayscough's modification of Cuff's solar microscope, 1743; no case or fittings
- 345 An interesting early type of solar microscope; signed O. N. Degerman, Fecit 1756
- 50/- 346 A curious wooden solar microscope, decorated body tube, wooden rack rotation, probably made at Nuremberg; very scarce form
- 60/- 347 Another interesting form of solar microscope (no mirror); and parts of another
- 8/- 348 An extremely rare and interesting form of solar microscope; on the top of a turned circular wooden base is an allegorical male figure, which supports by his uplifted arms the body tube of the instrument, to which is screwed a circular plate, and the adjustable circular mirror; both this plate and the mirror are engraved; the mirror is rotated by a projection placed on the front of the figure; probably unique
- 349 A small solar microscope, by Ramsden; and a ditto, by Adams; both faulty
- 350 An early form of solar microscope, on oak base board
- 351 A brass microscope, of foreign make, in case, with decorated handle and keyplate, complete
- 352 A nicely made brass solar microscope, with fittings, in mahogany case

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- 353 A small solar microscope, by George Adams, with fittings, in case
- 354 A solar microscope, with wooden base and curious focusing adjustment, probably of French origin, and a very scarce form
- 355 A solar microscope of brass, by Cuff, in case
- 356 A solar microscope of brass, with rack adjustment, in case
- 357 A large brass solar microscope, with a sliding bar of powers, fitted for both opaque and transparent objects, by W. & S. Jones; no case
- 358 A brass solar microscope, in mahogany case, by Yates, of Dublin (scarce maker)
- 359 A large and uncommon form of solar microscope, signed, "Made by B. Martin, Fleet Street, London," in mahogany case, with part fittings
- 360 A solar microscope in brass, by Sterrop (scarce maker), in case
- 361 A small solar microscope, fitted to a mahogany scioptric ball
- 362 A large brass solar microscope, by W. & S. Jones, with part fittings, in case
- 363 A beautifully made and very complete solar microscope for both opaque and transparent objects, by G. Adams; in fine condition, very rare
4. 364 A solar microscope, of unusual form, with interesting rough cut rack adjustment to mirror; probably of Italian origin
- 365 A Lucernal microscope, by W. & S. Jones, fitting on to the mahogany case when in use with two adjusting rods; and a number of other fittings
25. 366 A magnificent combined Lucernal and compound microscope, of very unusual design; it bears the inscription on the body tube, "Adams, Inventor, London"; it is intended to be used: (1) as a Lucernal microscope; (2) as a projection microscope; (3) as a compound microscope; the body tube is 7in. in diameter and 24in. long; an extra mahogany case contains a very large number of accessories, including various condensers and 2 additional stages; 15 object-glasses of various powers form the optical battery; only one other of this type of microscope is known—viz., that in the Science Museum, at South Kensington (Court Collection)

(See ILLUSTRATION.)

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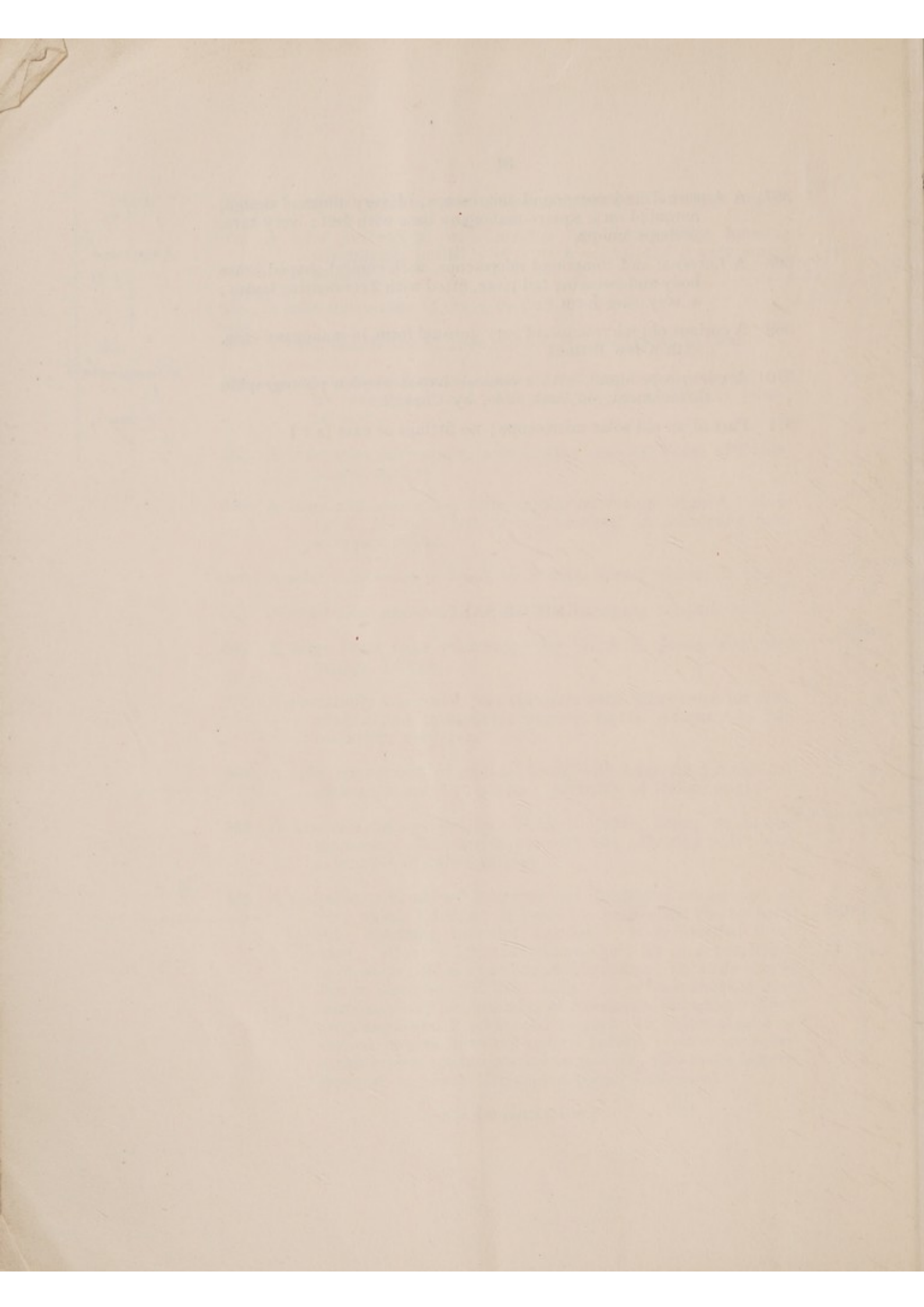
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 367 A Lucernal and compound microscope, of very unusual design, mounted on a square mahogany base with feet ; very rare, perhaps unique
4.
 368 A Lucernal and compound microscope, with conical-shaped brass body and swinging tail piece, fitted with 2 condensing lenses ; a very rare form
- 369 A curious old microscope, of very unusual form, in mahogany case, with a few fittings
- 370 A microscope stand, with a conical-shaped wooden photographic attachment, no dark slide, by Chevalier
- 371 Part of an old solar microscope ; no fittings or case (A.F.)

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END OF SALE.



WA/HMM/cm/sa/A 21/456/3

Count
Total Purchases

THE
CRISP COLLECTION
OF
ANTIQUÉ MICROSCOPES

Tuesday, February 17th, 1925.

STEVENS'S AUCTION ROOMS, LTD.

Sale No. 73821.

17. 2 1925.

J. H. Court Esq.

STEVENS'S AUCTION ROOMS, Ltd.

38, KING STREET,
COVENT GARDEN, W.C.

LOT

4	✓	5		
5	✓	8		
35	✓	1	5	
40	✓	1	4	6
55	✓	1	10	
57	✓	1	1	
95	✓		16	
110	✓	160		
112	✓	14		
113	✓	13		
114	✓	26	5	
115	✓	14	14	
116	✓	16	16	
117	✓	14		
118	✓	22		
119	✓	13		
121	✓	10		
122	✓	3	10	
123	✓	31		
125	✓	13		
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128	✓	3		
131	✓	9	9	
132	✓	31		
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135	✓	5	10	

cf. 435 13 6

THE UNIVERSITY OF CHICAGO
PRESS

STEVENS'S AUCTION ROOMS, Ltd.
38, KING STREET,
COVENT GARDEN, W.C.

LOT				
		137	435	13 6
137	✓	3		
138	✓	33		
139	✓	3	10	
140	✓	2		
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181	✓	3	3	
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201	✓	1	10	
203	✓	1	1	
204	✓	1	10	
205	✓		16	

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MR STEVENS AUCTION ROOMS LTD
25 KING STREET
COVENT GARDEN W.C.

[Faint, illegible handwritten text, possibly a list or ledger entries]

TO STEVENS'S AUCTION ROOMS, Ltd.
 38, KING STREET,
 COVENT GARDEN, W.C.

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206	✓		2	5	
207	✓		1	1	
208	✓		2	2	
209	✓		2		
210	✓		1	15	
212	✓		2	10	
213	✓		1	10	
214	✓		2		
217	✓		2	5	
219	✓		2	10	
220	✓		1	1	
221	✓		2		
222	✓		1	4	6
225	✓		2	2	
226	✓		1	5	
227	✓		1	1	
228	✓		2	5	
229	✓		1	15	
230	✓		1	1	
231	✓		2	10	
233	✓		1	5	
234	✓		1	10	
235	✓		1	1	
244	✓		2	2	
246	✓		3		
247	✓		2	10	
		cf.	572	9	

OLIVER STEVENS'S AUCTION ROOMS, Ltd.
25, KING STREET,
COVENT GARDEN, W.C.

1914

No.	Description	Quantity	Price
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STEVEN'S AUCTION ROOMS, Ltd.
 38, KING STREET,
 COVENT GARDEN, W.C.

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324	✓		1	.
331	✓			18
334			1	.
346				18
347			1	.
348			4	10
364			1	10
366			11	.
367			1	8
368			1	10
			£ 649 10	

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Received the sum of

£ 649 10

On account of
 STEVEN'S AUCTION



STEVENS' AUCTION ROOMS, INC.
35 FINE STREET
NEW YORK, N.Y.

A CATALOGUE
OF
THE COLLECTION OF
ANTIQUÉ MICROSCOPES,

FORMED BY THE

late Sir FRANK CRISP, Bart.

It includes many rare and beautiful Instruments, by Hooke,
Marshall, Campani, Culpeper, Brander, Costa, Scarlett,
Adams and Martin.

RARE ITALIAN MICROSCOPES,
EARLY AND DECORATIVE SOLAR MICROSCOPES,
AND POCKET INSTRUMENTS,
by Lindsay, Clark, Martin, Watkins and Culpeper,
in Fishskin Cases,

ALSO

A MAGNIFICENT SILVER INSTRUMENT,
by George Adams the Elder.
Lieberkuhn's Dissecting Microscope and Two Pocket
Instruments, by Musschenbroek.

Which will be Sold at

STEVENS'S AUCTION ROOMS LTD.

*At their Great Rooms,
38 King Street, Covent Garden, and 15/16 Floral Street,
London, W.C.2,*

On TUESDAY, FEBRUARY 17th, 1925,
at 12.30 o'clock precisely.

On view day prior and morning of sale till 11.30.

Catalogues on application.

Telephone : Gerrard 1824.

Telegrams : "Auks, Rand, London."

Established 1760.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2, two shillings and sixpence; and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

LASTLY.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques.

A CHARGE FOR WAREHOUSING WILL BE MADE ON
LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD 1824.

Telegrams :—
AUKS, RAND, LONDON.

FOREWORD.

This being the first occasion on which a Collection of Antique Microscopes has ever been catalogued for sale by Public Auction, it may not be altogether out of place to give a short account of the Crisp Collection. In its entirety it consisted of nearly 3,000 Microscopes and over 1,000 pieces of apparatus. When that part of the Collection consisting of the modern Microscopes was sold in these Rooms in a series of sales during the years 1920 and 1921, the earlier and rarer Microscopes now about to be offered were reserved for this final sale.

The Collection was formed during the latter half of the 19th Century by the late Sir Frank Crisp, Baronet, who for many years devoted himself to the study of their history and development. He was universally recognised as the leading authority, and all the important finds were brought under his notice during that period. He was able to obtain many rare and interesting forms that it would be now impossible to duplicate.

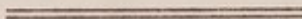
In the restricted space available in an auction catalogue it is only possible to give a very short description of most of the lots, and many of the interesting features have had to be omitted. Although the Auctioneers placed no restrictions of any kind on the cataloguer, he has found it necessary in many cases to be very brief, reserving more space for those Microscopes which, on account of their rarity and scientific interest, may justly claim a full description.

In arranging the Collection for sale by auction it has been thought best to depart from the chronological and perhaps the more scientific method, and sell them in groups, viz. :—

- (1) Simple Microscopes and small pocket compound Microscopes.
- (2) Compound Microscopes dating from the 17th Century to the introduction of achromatism in the early part of the 19th Century.
- (3) Optical Cabinets, Solar and Projection Microscopes. (The various Nuremberg wooden Microscopes have been placed by themselves.)

In each division, within limits, the instruments are catalogued in chronological order, original forms first, and then their variations and modifications by other makers.

It is perhaps advisable to say a few words as to the condition of the Collection generally. Some of the lots are described as "faulty," in most cases, however, the faults are quite trifling, but if there is any serious defect it will be found noted in the catalogue. As is nearly always the case with these early Microscopes, many are without some, or all, of their accessories (some of the earlier types, however, never had any), but this is only a secondary consideration, as both from an artistic and scientific point of view the interest is chiefly in the stand itself.



CATALOGUE.

ON TUESDAY, FEBRUARY 17TH, 1925,

AT 12.30 P.M. PRECISELY.

SIMPLE AND SMALL COMPOUND POCKET MICROSCOPES OF ALL PERIODS.

(NOTE.—*The rule shown in the photographs is 6 inches high.*)

- | LOT | | | |
|-----------|---|--|----------|
| 3. 5. 0 | 1 | Three modern reproductions of rare microscopes—viz., Leeuwenhoek's hand microscope, in case, an interesting early 17th Century museum microscope, and a model of Leeuwenhoek's aquatic microscope | 3. 0. 0 |
| 2. 10. 0 | 2 | An old ivory screw-barrel microscope, with compound body; very rare form | 2. 0. 0 |
| | 3 | A turned ivory case, divided into compartments, which contain a flea microscope, a small microscope, magnifying lens, etc.; rare form | — |
| * 5. 0. 0 | 4 | Musschenbroek's simple hand microscope (1702), first form, in original leather case; very scarce, only a few being now in existence | 25. 0. 0 |
| | | (See ILLUSTRATION.) | |
| * 8. 0. 0 | 5 | Musschenbroek's second form (1702), with a number of powers and other fittings (not quite complete), in original case, decorated with gold stampings; very rare | 20. 0. 0 |
| | | (See ILLUSTRATION.) | |
| | 6 | Another example of the second form of Musschenbroek, with part fittings, in mahogany box (not original); very rare | — |
| | 7 | Unique miniature Wilson screw-barrel microscope and fittings, the whole enclosed in a turned ivory case of 3 compartments; one contains the microscope, one the powers, and one the ivory slides; it is in a beautiful state of preservation | — |

- 8 An ivory Wilson screw-barrel microscope, with powers, etc., in fishskin case ; scarce
- 9 Another, very similar
- 10 A beautifully engraved (on back and front) brass 17th Century hand microscope, after the form of that made by Cosmus Conradus Cuno of Augsburg, *circa* 1686; it consists of 2 plates, connected at the bottom by a hinge, below this is fixed the turned ivory handle ; in the front plate, near the top, and in the centre, the lens, which is of very high magnifying power, is placed in a circular fitting ; immediately behind this is fixed a brass wheel, containing 8 objects, which can be rotated ; the focusing is effected by a milled edge wheel, which connects the back and front plates ; on the back plate is a small aperture, to act as a diaphragm ; there is an additional small plate bearing a less aperture, which can be used when required ; this beautiful little instrument is signed Depovilly à Paris ; the length of the instrument is 5½ in., and it is in a perfect state of preservation, optically and mechanically ; extremely rare

(See ILLUSTRATION.)

- 11 A Wilson screw-barrel microscope, in black fishskin case ; signed E. Culpeper
- 12 A Wilson brass screw-barrel microscope, in case ; signed E. Scarlett
- 13 A Wilson screw-barrel microscope in brass, and a botanical microscope ; both in fishskin cases, with fittings
- 14 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 15 An early Wilson screw-barrel microscope, with ivory body, and some fittings ; in flat leather case
- 16 A Wilson screw-barrel microscope, and another smaller ; both in fishskin cases
- 17 A Wilson screw-barrel microscope, with compound body, and fitted to a tripod stage with folding feet, by E. Culpeper ; no case or fittings
- 18 A Wilson screw-barrel microscope, with compound body ; no fittings or case
- 19 A ditto, on scroll stand, and wooden base, with brass compound body, by G. Cramer of Groningae ; no fittings or case
- 20 A small pocket microscope, with compound body, Demainbray form, by Thomas Bureau ; in grey shagreen case, and fittings
- 21 A ditto (no compound body), by Sisson ; in green shagreen case

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1. 5. 0

- 22 A fine example of a compass microscope (no case) ; and a brass Wilson microscope (no case)
- 23 A Wilson brass screw-barrel microscope (no fittings or case) ; and small Wilson screw-barrel ; in fishskin case
- 24 A beautifully made microscope, on flat folding foot ; this is an exceptionally small portable microscope, and rare
- 25 A fine Wilson and Ellis aquatic combined microscope ; in fishskin case, very complete ; by Dollond
- 26 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 27 A fine and very complete compass microscope ; in fishskin case
- ~~2-10-0~~ 28 A compass microscope, in leather case, with fittings ; signed Passemant, au Louvre 2-5-0
- 29 A Wilson screw-barrel microscope, part fitted, in fishskin case ; and a small compass microscope, in fishskin case
- 30 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in mahogany case
- 31 An Ellis aquatic microscope, with rack adjustment ; in fishskin case ; by Dollond
- 32 A pocket compound microscope, in fishskin case ; and a flower microscope, in case
- 33 A hand microscope, with a large wheel of objects, in leather case ; and a compass opaque microscope, in leather case ; both modern
- ~~1-5-0~~ 34 A compound microscope, in red leather case, with fittings ; and a botanical microscope
- * 1-5-0 35 An old French compass microscope, in case 1-15-0
- 36 A beautifully made little compass microscope, in rosewood case, with fittings
- 37 A compound microscope, in fishskin case, with many fittings, by Gilbert & Sons
- 38 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in case
- 39 An Ellis aquatic microscope, in fishskin case
- * 1-7-6 40 A Wilson screw-barrel microscope, on scroll stand, fitted on turned circular base 3-10-0

- 41 An Ellis aquatic microscope, in fishskin case ; and a botanical microscope, in mahogany case, by Bancks
- 42 A beautifully made pocket compound microscope, with prism illuminator, and other fittings ; complete in mahogany case
- 43 A pocket compound microscope, with fittings, in mahogany case ; and another, folding into the case by a hinged joint at the base
- 44 A pocket microscope, in red leather case, by Bancks ; and another, part fitted, by Tuther ; both 19th Century
- 45 A small pocket microscope, in fishskin case, with fittings ; and a Wilson brass screw-barrel microscope, in fishskin case
- 46 A small microscope, on tripod stand ; not signed, but probably by Lindsay ; no case or fittings
- 47 A folding microscope, in mahogany case ; and a small pocket microscope ; both 19th Century
- 48 A small microscope and fittings, by Cuff, in mahogany case (broken)
- 49 Lyonett's dissecting microscope, with ball-jointed arm, one power ; no case or other fittings
- 50 A brass microscope, on tripod stand, by Hughes ; a lens holder ; and a small hand microscope ; all 19th Century
- 51 A curious vial microscope, by A. Pritchard, 3 powers, 2 being in a glass-lidded case
- 52 A microscope, with a multiple eye lens ; and a botanical microscope, with screw adjustments
- 52A A Wilson pocket screw-barrel microscope, in leather étui case, by Culpeper, with fittings
- 53 An early Wilson screw-barrel microscope, of foreign make, in leather case ; scarce form
- 54 A Wilson screw-barrel microscope, part fitted ; and a botanical microscope ; both in fishskin cases
- * 1-10-0 55 A curious and rare form of hand microscope, with a large brass wheel fitted with objects, and a wheel for focusing, with wooden handle ; very scarce 1-15 0
- 1-15-0 56 A ditto, all brass 1 10 0
- * 1-1-0 57 A ditto, all brass 1-10 0
- 58 A lignum vitæ hand microscope, in compartments ; and a bone ditto

59 A bone hand microscope ; and 4 small Granger microscopes

2-15-0 60 A rare type of pocket microscope, in the form of a book, by Fuller of Norwich, with fittings 2-5-0

61 A spy-glass, with diagonal mirror, in fishskin case ; and an engraved linen testing microscope, in fishskin case ; both rare

62 A Wilson screw-barrel microscope, on scroll, with folding feet

63 Clark's pocket microscope, 1776, in fishskin case, with fittings

4-10-0 64 A ditto, dated 1773 2-0-0

65 A ditto, part fitted

66 Beautifully made solid silver microscope, by George Lindsay. This miniature microscope is of great interest.

(1) It was the first microscope for which a patent was registered (1742) ; (2) on account of the neatness and compactness of the design ; (3) the beauty of its workmanship. Lindsay was watchmaker to George II., and this no doubt accounts for its neatness and accuracy ; the instrument and its fittings are contained in a fishskin case, $4\frac{1}{2} \times 2\frac{1}{2} \times 2$; only one other example in silver is known—viz., that in the Science Museum, South Kensington (Court Collection)

(See ILLUSTRATION.)

13-13-0 67 Clark's pocket microscope, solid silver ; this is an interesting form of microscope, made by J. Clark of Edinburgh at the latter end of the 18th Century ; the instrument fixes in by screw to the base of the case, which is of fishskin 10-0-0

68 An aquatic hand microscope, with 2 powers, in fishskin case ; and a botanical microscope, in mahogany case ; both scarce forms

69 A portable compound microscope, in fishskin case, inclining at the base, folding tripod foot ; very complete

70 A Wilson screw-barrel microscope, with black ivory compound body, in fishskin case ; and a number of fittings

71 A ditto, larger

72 A fine Ellis aquatic and Wilson microscope, combined with fittings, by Dollond, in fishskin case

73 An early type of wooden lignum vitæ microscope, with fittings, in cylindrical fishskin case ; very rare form

74 A pocket microscope, with beautifully engraved stem and feet which fold, by F. Watkins ; complete in fishskin case

- 1-10-0
- 75 A curious old ivory microscope, with powers, etc., in square ivory box with sliding lid; probably unique 1-5-0
- 76 An Ellis aquatic microscope, in fishskin case
- 77 Two small Goulds' pocket microscopes, and another; all 19th Century
- 78 A brass botanical microscope, with compound body; and 2 other botanical microscopes, in black cases
- 79 A Wilson screw-barrel microscope, with rack adjustment, on flat folding feet stand; scarce form
- 80 A fine pocket compass microscope, with fittings, in green leather case; probably French
- 81 A small brass drum microscope, by Secker à Paris; and another microscope, faulty
- 82 A portable microscope, in mahogany case, by Bancks, and another, portable; both 19th Century
- 83 A Wilson screw-barrel microscope, on decorated scroll stand, fitted to a mahogany box base, with drawer
- 84 A Wilson all-brass screw-barrel microscope, with compound body, on tripod stand
- 85 A case of 11 dissecting lenses, by Pritchard, said to be jewel lenses
- 86 A compass microscope, on stand; and a small single lens magnifier, on stand
- 87 A curious microscope, on wooden base, with metal mirror; and a wood imitation of a Wilson microscope
- 88 A very curious early simple microscope, with rack adjustment, on circular wood base
- 89 A small model of Cuff's double microscope, on mahogany box base
- 90 An Ellis aquatic microscope, no case or fittings; and another microscope, on wood base, with drawer
- 91 A dissecting microscope, in mahogany case, with fittings, by Chevalier
- 92 Part of a microscope, in mahogany box; a hand-glass, in wooden frame; and a pocket walking-stick telescope; all 19th Century
- 93 A beautifully made miniature microscope cabinet of 5 drawers, containing a collection of arranged microscopic objects, mounted in ivory

- 94 A pocket microscope, by Cuff, on wooden oval base, 1 power, and forceps, no case or other fittings
- * 16-095 A microscope, with rotating wheel of objects; and another, with 2 Lieberkuhns on the same mount, in leather cases
- 96 A microscope, on tripod stand, by Watkins; and another (smaller), no case or fittings
- 97 A vial microscope, and a mounted magnifying glass
- 98 A wooden microscope (modern), and 2 mounted lenses, on stand
- 99 A botanical microscope, in pyramid-shaped case; pair of mounted lenses, and 2 hand-flower microscopes
- 100 Lyonett's dissecting microscope, in mahogany case, with fittings
- 101 A small camera-obscura microscope, by Chevalier
- 102 A portable microscope (incomplete), 2 boys' microscopes, and 2 small hand microscopes; all 19th Century
- 4-0-0 103 A hand microscope, with rotating wheel of powers, in mahogany case; and a compass microscope, no case
- 104 A hand-glass magnifier in ivory, a cup set of magnifiers, 2 compass microscopes, and a hand-flower microscope; all 19th Century
- 105 Small lignum vitæ microscope, botanical microscope, small hand microscope, in case, part of another, and a seed microscope
- 106 Two small ivory Coddington lenses, 2 others, by West, 4 small hand microscopes, and part of a microscope; all 19th Century
- 107 A snuff-box, fitted with a spy-glass, a hand microscope of lignum vitæ, small botanical microscope, and a medal

1-5-0

1-15-0

COMPOUND MICROSCOPES,

the bodies being made of wood, ivory, etc., with screwing or sliding adjustments; late 17th and early 18th Centuries.

- 2-10-0 108 Modern copy of Janssen's compound microscope; the original is in the Museum at Middelburgh, and a copy of Divini's compound microscope (1667-8)
- 20-0-0 109 A full-size copy of Robert Hooke's original compound microscope, as described in his book, "The Micrographia," 1665.

5-0-0

8-0-0

- * 160-0-0 110 An original modification of the Hooke microscope, dating from about the year 1675; the outer body is covered in dark crimson leather decorated with gold stamping, the inner bodies are of white vellum undecorated, the mounts in turned lignum vitæ, the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached, up or down, on the vertical column; this instrument is in a good state of preservation, certainly very rare, and probably unique
40-0-0
(See ILLUSTRATION.)
- 45-0-0 111 A beautiful little compound microscope, made by the celebrated Italian optician Guiseppe Campani; the compound body is entirely of wood, screwing into a brass tripod base, with an interesting spring attachment to hold the slides; the focusing is effected by screwing the compound body into the top of the brass tripod, which bears the maker's signature—viz., G. Campani in Roma; the eye-lens is double convex, of about 1-in. focus; there is no field-lens; the objective lens is a double convex of about $\frac{3}{8}$ -in. focus; the distance between the eye-lens and the objective can be varied; this beautiful little microscope is very rare, only about a dozen examples being known; it is both optically and mechanically perfect
30-0-0
(See ILLUSTRATION.)
- * 14-0-0 112 An early Italian microscope, with wooden body, mounted on an open brass tripod; this instrument closely follows the design of other microscopes known to be made by Campani, and may perhaps be attributed to him; it, however, bears no signature of any kind
15-0-0
- * 13-0-0 113 An old English microscope, with green vellum outer body, signed J. Mann Fecit, and mounted in wood (broken); the entire base is not original, being more modern (A.F.)
3-15-0
- 109 Pope Benedict
* 26-5-0 114 An early English tripod microscope; the outer body is of white spotted vellum, decorated with gold stamping, the mounts being in wood; the focus is effected by screwing the nosepiece into a collar at the top of the tripod; the circular wooden base bears the object carrier; very scarce
5-0-0
- * 14-14-0 115 Another similar form of microscope, with both the outer and inner bodies covered in green vellum, with gold stamps; the base, which is of lignum vitæ, has been repaired; very scarce
5-0-0
- * 16-16-0 116 A tall tripod microscope, of early date and foreign origin, probably German; the outer body is elaborately decorated with designs in red and green; the base, which is in the form of a tripod, together with the objects-carrier, are all beautifully carved wood; unique
20-0-0

* 117 An early English compound microscope, made by J. Marshall, in Ludgate Street, London, *circa* 1704; the outer body covered with white vellum, with red and green spotted ground, with gold stampings; the mounts are of wood; the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached up and down on the square vertical column, and fixed by a jamb screw, the finer focusing being effected by means of an octagonal nut working on a screw; both eyepiece lenses missing, and all other fittings; it has, however, 5 out of the 6 original objectives; very rare, only about 12 being now known

25-0-0

* 118 An early English microscope, made by John Marshall, in Ludgate Street, London, *circa* 1704; the design and mechanical adjustments are similar to the preceding microscope; the covering of the outer body is of bright green vellum, with gold stampings; the inner body is green vellum, undecorated, the mounts are of turned lignum vitæ; the whole instrument can be inclined by means of a ball-and-socket joint at the base of the pillar; the whole is fixed on a rectangular octagonal base, with drawer; this instrument has 4 out of the 6 original objectives, a holder for opaque objectives, and a pair of stage forceps

20-0-0

(See ILLUSTRATION)

* 119 Another example of John Marshall's double microscope; the outer cover is grey shagreen, the inner body being green vellum, with gold stamping; this microscope has the 6 original object-glasses, the opaque holder, a small stage condensing lens that can be attached to it, another holder carrying a spring stage, hand forceps, and a small mirror, which is not contemporary; on octagonal base, with drawer to hold the apparatus

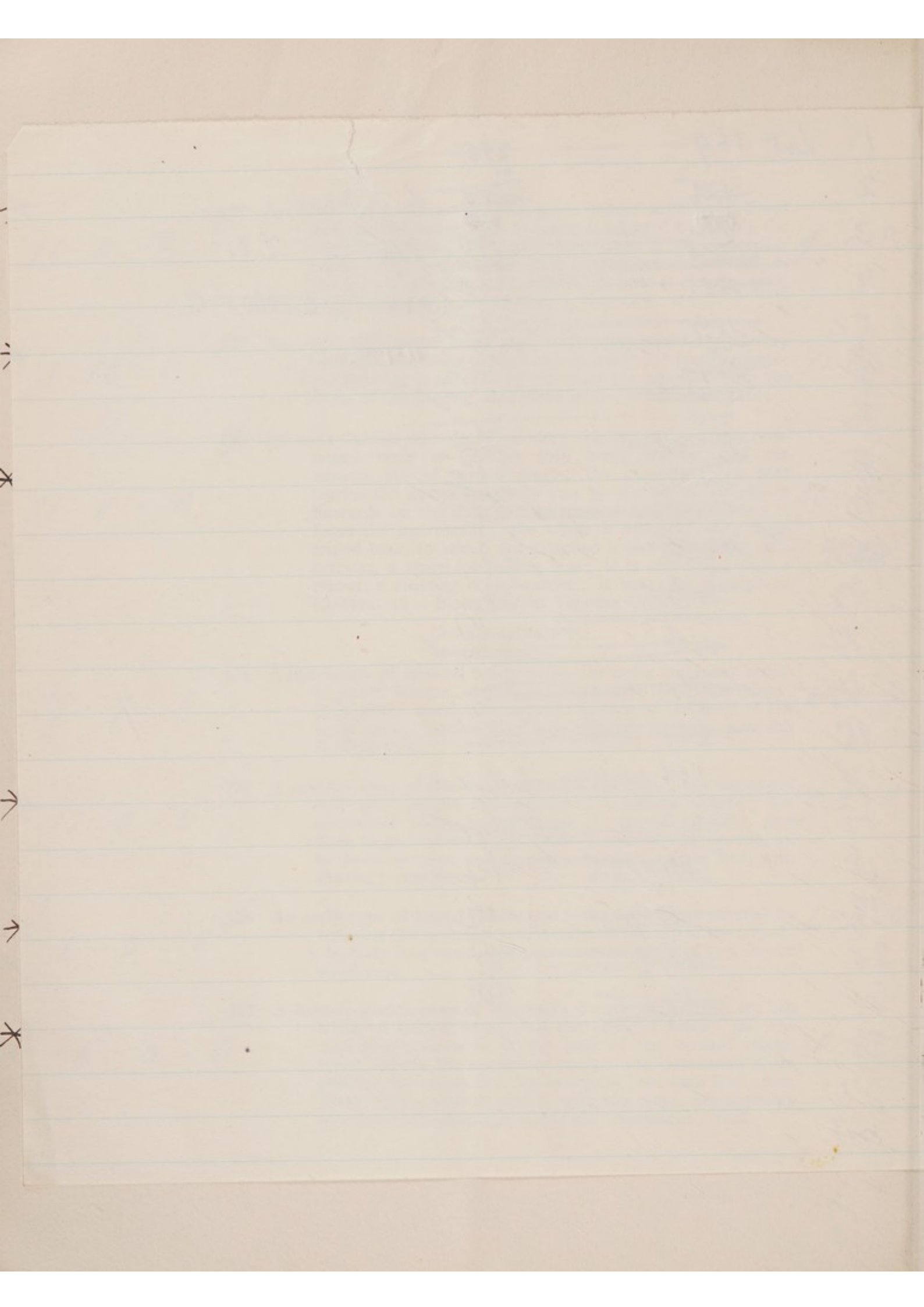
30-0-0

* 120 A modified form of John Marshall's double microscope of later date; in this model the ball-and-socket joint is replaced by a vertical column, which is rigidly fixed to the box base; the transverse arm, which carries the compound body, can be moved up or down to focus in exactly the same way as the Marshall microscope; the fitting which carries the stage and other accessories is rigidly fixed to the upright column; the outer body is covered with crimson leather, with gold stampings on both edges, the inner body is of green vellum, with similar stampings, the mounts being of turned wood; the instrument has the 6 original objectives, the stage condenser fixed to a movable arm, stage forceps, opaque holder, spring stage, and 3 ivory slides; this instrument is fitted with a plain mirror

12-0-0

- * 10.0.0 ✓ 121 An early tripod microscope, with green vellum outer body, fitted with 2 draw tubes; the focusing is effected by sliding the nosepiece of the compound body into a wooden collar surmounting the tripod; this instrument closely follows the form of Divini's microscope; the base is circular, with a curious movable object-plate; very rare 9.0.0
- * 3.10.0 ✓ 122 An interesting tripod microscope, with compound body of very unusual form, being constructed of ebony with ivory mounts; the focusing is effected by screwing the nosepiece into the collar of the tripod; it is fitted with a mirror; very rare 8.0.0
- * 31.0.0 ✓ 123 An early Italian microscope, of very original design; the compound body is covered with black leather, and the mounts are of turned ivory; the transverse arm that carries the compound body can be moved backwards or forwards on the upright column, and also up or down to focus the instrument; the whole is mounted on a brass tripod base, to which are attached a ball-and-socket arm, carrying a stage condensing lens; it is also fitted with a mirror, a rotating object-carrier; it bears the inscription, *Elaboratum a Blasis Burlini Venetiss Optico* 30.0.0
- (See ILLUSTRATION.)
- * 7.7.0 ✓ 124 A microscope of unusual construction, the outer and inner bodies of green leather, richly embossed with gold stampings; it bears the inscription in gold lettering on the front of the body tube, *Johann Balthasar, Oppelt Opticus Aupsach in Francken* 6.0.0
- * 13.0.0 ✓ 125 A modified form of Hooke's microscope, the outer body decorated with gold designs, rigidly fixed to a vertical column; the compound body, however, can be moved laterally, and fixed in position by a jamb screw; the stage is movable up or down to focus, and there is a mirror; on box foot, with drawer; rare form 7.0.0
- * 4.0.0 ✓ 126 An early type of tripod microscope; the focusing is effected by screwing the nosepiece into a collar at the top of the tripod; the body is of wood, and there is a mirror fitted to a turned wood base 6.0.0
- * 5.0.0 ✓ 127 A French modification of Marshall's double microscope, the top being of turned wood, and the body of brass; the fine adjustment screw is at the back of the vertical column, which carries the compound body; the instrument is inclinable, by means of a compass joint; the base is of brass, fitted with a mirror, which, with the stage, are probably of a later date than the rest of the instrument; rare 10.0.0

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| 8 | 168 | 25 | |
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| 10 | 11 | 25 | |
| 11 | 205 | 20 | |
| 12 | 116 | 20 | |
| | 117 | 17 | |
| 13 | 115 | 24 | ✓ |
| 14 | 131 | 20 | |
| 15 | 241 | 15 | |
| 16 | 116 | 16 | |
| 17 | 115 | 14 | |
| 18 | 119 255 | 14 | |
| 19 | 279 | 12 | |
| 20 | 366 | 11 | |
| 21 | 121 | 10 | |
| 22 | | | |
| 23 | | | |
| 24 | | | |



- *
3.0.0 ✓ 128 A microscope of unusual design, with conical body, the outer body of red lacquer fixed on the top of a slender brass rod, from which, by means of a joint, it inclines; the box base is of wood, inlaid, fitted with a drawer; unique 6.0.0
- 9.0.0 129 A beautifully shaped box form of microscope, the mirror being enclosed in the box base; in use, the front of the box is removed from its grooved fitting, with 4 ormolu claw-shaped feet; the outer covering of the compound body is of green shagreen, with wood and ivory mounts; it is fitted with a rotating object-holder and stage forceps; probably of French make, and in perfect condition 8.0.0
- 6.6.0 130 A similar microscope, with stage condenser, stage forceps, and rotating holder for a fish-plate; the compound body covered in shagreen, with wooden mounts 5.0.0
- *
9.9.0 131 A similar microscope, elaborately decorated with ormolu mounts, and claw feet; in this instrument there is a wheel of diaphragms in front of the mirror; the outer covering of the compound body is black leather, the mounts being of wood 20.0.0
(See ILLUSTRATION.)
- *
31.0.0 ✓ 132 The historical microscope, formerly the property of Pope Benedict XIV, who succeeded to the Pontificate A.D. 1740; this beautiful little microscope, in general design, resembles the 2 preceding microscopes; the beautifully made box base is elaborately inlaid with designs in marquetry on all sides, the front panel having a decorated shield design surmounted by the triple mitre and cross-keys; the compound body is covered in delicate green shagreen, with wood and ivory mounts, the metal parts being gilt; it has an engraved arm to carry the condensing lens, and a beautifully-engraved scalloped rotating object-holder; the hand forceps are also engraved; the apparatus is contained in a drawer in the base; this instrument is in perfect condition, and complete 50.0.0
(See ILLUSTRATION.)
- *
4.10.0 ✓ 133 A box form of microscope, with ornamental feet, the adjustment being effected by a rack and pinion; the compound body is of brass 5.0.0
- 134 A similar microscope, but no ornamental feet
- *
5.10.0 135 A box form of microscope, the compound body covered with fishskin, with wood mounts, and drawer under, which contains a few fittings 5.0.0
- *
6.6.0 136 A box form of microscope, with all-brass body; the focusing is effected by rack and pinion; 2 drawers in the base contain the object-glasses and other fittings 5.0.0

- * 3-0-0 137 A curious old microscope, adjustable, on an upright brass rod; the stage is fixed at the top of a small tripod, the mirror being underneath, mounted on a square wooden base, with drawer; a very scarce form of microscope 5-0-0
- * 33-0-0 138 A beautiful microscope, the compound body of tortoiseshell and ivory, fitted with a complicated micrometer stage, screw adjustment to the mirror; on a beautifully shaped box foot; it bears the inscription on the stage, D. Joannes de Guevave, Fecit 1752; the instrument itself is in very good condition, but unfortunately the optical part is missing 35-0-0
- (See ILLUSTRATION.)
- * 3-10-0 139 A compass microscope, with ivory compound body, fitted to box base, with 2 drawers, which contain a number of accessories 3-5-
- * 2-0-0 140 A curious microscope, with compound brass body, the upright pillar and stage being all of wood; on octagonal-shaped base; scarce and interesting form of microscope 3-0-0
- 11-0-0 141 Small microscope, with ivory compound body, on ornamental scroll stand; fine adjustment applied to the stage; on circular base, fitted with mirror 4-10-0
- * 2-15-0 142 Another small microscope, signed W. R. Fecit, closely following the design of Wilson's screw-barrel microscope, with the compound body 2-10-0
- 143 An early tripod form of microscope, the outer body covered in red leather with gold designs, and wooden mounts to eye-pieces; probably of Italian origin
- 144 The original form of Culpeper's tripod microscope, the outer body covered in grey shagreen, by Edmund Culpeper; in case, with 5 powers, and other fittings in the drawer
- 145 A similar microscope in all respects; in case, no fittings
- 146 Another, the same as the above
- 147 Another, ditto
- 148 A Culpeper form of microscope, the outer body covered with red leather; the screw cap contains 4 powers; in case, no other fittings
- 149 A Culpeper type of tripod microscope, grey shagreen outer body; a few fittings in case
- 150 A similar microscope, covered in red shagreen; the entire eye-piece is missing; with a few fittings in case (A.F.)

- * 3-3-0 151 Another, similar, quite perfect ; with a few fittings in the drawer
- * 4-0-0 152 ✓ Another, similar, the outer body covered in red leather with gold designs ; brass inner body ; no case 5-0-0
- * 1-15-0 153 Another, the outer body covered in red shagreen, by J. Cuff ; a few fittings in the drawer of the base ; no case 5-0-0
- * 3-0-0 154 Another, in which the compound body screws up and down to focus, mounted on a square wooden box base 3-10-0
- 3-0-0 155 Another tripod microscope, the outer and inner body both of box wood ; on octagonal box foot, in the drawer of which there are a few fittings 3-15-0
- 156 A Culpeper form of tripod microscope ; outer body covered in black leather ; on octagonal box foot
- 157 A tripod form of microscope, all brass
- 158 A tripod microscope, outer body in grey shagreen ; on octagonal box foot ; with a few fittings
- 159 Another tripod microscope, on octagonal box base, the outer body covered in grey shagreen ; there are a few fittings in the drawer of the box foot
- 160 A tripod microscope, brass outer body, with rack adjustment ; on square box base
- 161 An original Culpeper tripod microscope ; the outer body covered in grey shagreen
- 162 A Culpeper tripod microscope, the compound body being of brass, the eyepiece end in wood, fitted on an octagonal base ; on the instrument is engraved Dr. Demainbray
- * 2-15-0 163 An interesting old microscope, on brass stand, with wooden compound body and screw focusing ; it is inscribed Guileo Architelle Idranbier Invent e Feci 4-0-0
- 164 A similar microscope, all brass, with wooden base ; no inscription
- 165 A pocket drum microscope, the outer body covered in red shagreen, signed B. Martin, London
- 166 A pocket drum microscope, smaller ; the outer body covered in green shagreen
- 13-13-0 167 G. Adams' universal microscope (1746), black ivory body, 8 powers, tripod folding foot, on the upright stem is engraved, " Made by G. Adams, in Fleet Street, London " ; the whole enclosed in a black fishskin case, which contains a number of fittings 10-0-0

- 26-0-0 168 A very fine and improved form of the above microscope, the compound body being covered in green spotted fishskin; it is fitted with a rotating wheel of 8 different powers; the stage is a micrometer one, and has movements in both directions; the instrument is mounted on 2 brass scrolls, and it can be inclined; when used in a vertical position it is secured by a spring, which has to be released when the instrument is to be used in an inclined position; the fine adjustment is actuated by 2 geared bevelled wheels at the base, moving a rod attached to the stage; the instrument is signed, "Made by George Adams, Math: Inst. Maker to His Royal Highness The Prince of Wales"; fitted on a wooden base, with 2 drawers containing a number of fittings 25-0-0
- 360-0-0 169 A magnificent silver Universal microscope, of very elaborate construction, signed on the edge of the objective-holder, *Made by G. Adams, in Fleet Street, London*; the compound body, of elegant proportions, fits into a collar in the centre of a silver wreath, which is supported by 2 allegorical female figures; the whole upper part rests on a fluted Corinthian pillar, rising from a square decorated base, resting on a decorated crosspiece, raised by 2 similar crosspieces placed at right angles to it, thus forming the feet; there is a frog-plate, a bull's-eye stage condenser, with a curious Hooke's joint and ball-and-socket movements; the whole is contained in a beautifully shaped Chippendale case, and is in a perfect state of preservation 245-0-0
- (See ILLUSTRATION, *Frontispiece.*)
- 9-0-0 170 A microscope, with a curious method of inclination, and an early form of direct-acting screw fine adjustment, which moves the body; on a box base; the instrument is inscribed, F. Villette a Liege 5-0-0
- 11-11-0 171 A microscope, of unusual design, with a rotating triple nosepiece carrying 3 objectives, and fixed on an oval decorated wooden base, with drawer; the instrument is inscribed, *Invt: et Fecit G. V. Schleenstein a Cologne* 8-0-0
- 12-0-0 172 A fine example of the original form of dissecting microscope, devised by Lieberkuhn, and made by Mitsdörffer, of Berlin, circa 1750; it is fitted with a number of adjustable brass hooks, to hold the object under examination; on a brass tripod stand, with ball-and-socket movements 10-0-0
- (See ILLUSTRATION.)
- 173 Another form of Lieberkuhn's dissecting microscope, with curious spring adjustment for focusing; no stand

- 4-0-0 174 A smaller form of the above, and 2 others ; no stand 2-15-0
 9-0-0 175 The remainder of the valuable catalogue, containing voluminous notes, illustrations, and descriptions of the more modern part of this celebrated collection, the earlier part never having been catalogued in detail 3-10-0

GERMAN WOODEN MICROSCOPES,

made by the Toy Makers of Nuremberg, circa 1750-1780.

- * 2-0-0 ✓ 176 Two wooden hand microscopes 2-10-0
 * 3-3-0 ✓ 177 Two tripod wooden Nuremberg microscopes, fitted with mirrors, one stamped with M in a circle, and the other $\frac{J^F}{F}$ in a heart-shaped shield 3-0-0
 * 1-5-0 178 Two ditto, but with box bases, one marked M in a circle, the other bears no mark 3-0-0
 * 1-5-0 179 A modern wooden microscope, and a tripod microscope, marked M 3-0-0
 * 2-0-0 180 A Nuremberg microscope, with fine adjustment, mounted on a single pillar ; and another, with drawer 3-15-0
 * 3-3-0 ✓ 181 A fine Nuremberg microscope of the best kind, on rectangular box base, compound body, supported by 2 parallel arms, 1 * S in oval stamped on base 4-0-0
 * 3-0-0 ✓ 182 A ditto, larged stamped M.I. in circle 4-0-0
 183 Two others, smaller ; no marks
 * 1-15-0 184 A Nuremberg imitation of an old form of microscope ; and a wooden microscope, with draw tubes 1-15-0
 * 1-15-0 ✓ 185 A German wooden microscope ; the rack moves the stage ; on square box base ; an interesting 18th Century microscope, and scarce 2-10-0

JAPANESE MICROSCOPES.

- 4-4-0 186 A modern imitation of a tripod microscope, the outer body richly decorated with gold designs, the mounts being of horn and lacquer ; this is quite modern, but interesting, as being made in Japan by Japanese workmen 3-10-0
 * 1-15-0 ✓ 187 A ditto, smaller, with metal mounts, and one slider 3-5-0

TELESCOPES, Etc.

- 188 A curious artificial eye, on brass tripod stand
- 189 A reflecting Gregorian telescope, on brass tripod stand, by B. Martin, London
- 190 A reflecting Gregorian telescope, outer body covered with green shagreen, on brass tripod
- 191 A small reflecting Gregorian telescope, by T. Ribright, London, in case
- 192 A prismatic reflecting instrument, on square black wooden base

MICROSCOPES

of later dates, principally of brass, circa 1740-1835.

- 193 An old brass microscope, on tall upright pillar rising from a flat tripod, foot stage adjusting by rack, no case or accessories
- 194 A brass microscope, by Brander, inclining on the top of a pillar, circular base, no case or fittings
- 195 Curious microscope with wooden body, adjustments by rack, on wooden box foot, with drawer for fittings
- 4-10-0 196 A brass microscope, by Brander and Haschel, on flat tripod foot, no case or accessories 4-0-0
- 197 A curious old microscope, not signed, but probably by Benjamin Martin
- * 3-5-0 198 A brass microscope, with curious long lever adjustment which moves the stage; a very scarce form of microscope, but probably a copy of an older instrument 5-0-0
- * 1-1-0 199 A microscope with catgut focusing to stage 4-0-0
- 200 Another microscope with catgut adjustment to stage; rare and scarce form
- * 1-10-0 201 A microscope of unusual form, mounted on double pillars, rack adjustment which moves the body, the mirror can be adjusted backwards or forwards 3-0-0
- 4-0-0 202 A French microscope, by Lerebours à Paris, on wooden base, with rack adjustment; scarce and interesting type of instrument 2-15-0
- * 1-1-0 203 Old microscope, the body mounted on a scroll transverse arm, with rack adjustment to stage 2-15-0

- * 1-10-0 204 A microscope with Cuff's form of fine adjustment, by Brander ;
no case 2-0-0
- * 10-0 205 A small portable microscope, in inlaid case ; a scarce form 1-15-0
- * 2-5-0 206 A curious old microscope with oval wooden stage ; stamped on
the stage is : " Fecit J. R. Oppelt, Opticus à Anspach " ; on
wooden box foot ; interesting and very rare type of micro-
scope 4-0-0
- * 1-1-0 207 Small and scarce form of microscope, with concealed coarse rack
adjustment moving the body, an early example of this
feature, on wooden box, with accessories, in a drawer 2-15-0
- * 2-2-0 208 Rare and curious type of portable microscope, on wooden box
base, with drawer for fittings under ; this has a curious
form of fine adjustment which is very uncommon 3-5-0
- * 2-0-0 209 Curious 3-pillar microscope, with unusual form of frog plate, on
wooden box with apparatus 3-10-0
- * 1-15-0 210 Another curious tripod microscope, both upper part and box
ornamented 3-10-0
- 4-10-0 211 A microscope of unusual construction, both the compound body
and stage can be adjusted by rack ; a combination rarely
found in a microscope 3-15-0
- * 2-10-0 212 An extremely interesting old microscope, both body and stage
are supported by 2 pillars for focusing, stage moves up or
down, sliding in grooves, cut in the pillars by a lever acting
on 2 rods to which the stage is connected, this lever being
moved by a knob placed in the front of a turned wooden
box base, with drawer for fittings ; very rare and probably
unique 8-0-0
- * 1-10-0 213 An early drum-shaped microscope, on an inlaid wooden base, with
drawer for fittings ; the mirror is a silvered convex lens 3-10-0
- * 2-0-0 214 A beautifully made brass microscope, of the Culpeper-Scarlett
tripod form, fitted on a carved box base with drawer con-
taining the accessories ; this microscope is very complete
and was made by George Sterrop, whose instruments are
now rare as he died comparatively young ; he had a
European reputation for his microscopes 6-0-0
- 4-0-0 215 A brass microscope, signed J. Cuff, Fecit, with micrometer applied
to the eyepiece, on mahogany base, with drawer and some
accessories, no case 4-0-0
- 6-10-0 216 Another, signed J. Cuff, Fleet Street, no case, but a number of
accessories, in drawer of box foot 3-10-0

- * 2-5-0 217 Another, signed J. Cuff, no case, but a number of accessories in the drawer 3-5-0
- 218 Another, Cuff model, not signed, and no accessories
- * 2-10-0 219 Another, by Benjamin Cole, 136, Fleet Street 3-10-0
- * 1-1-0 220 Another, Cuff model, but with rack adjustment to stage, and no fine adjustment, no case 3-5-0
- * 2-0-0 221 Another, Cuff model, with side rack adjustment to stage, with accessories in drawer, by Dollond 3-5-0
- * 1-4-6 222 A modified form of Cuff's microscope, by Mann and Ayscough, in case, with fittings 3-5-0
- 4-0-0 223 Beautifully made microscope, after Cuff's design, on an inlaid wood box foot, with 2 drawers containing accessories; this beautifully made instrument was constructed by the celebrated French optician, Passemant Ingenieur du Roi au Louvre; very rare 5-0-0
- 3-10-0 224 Modification of Cuff's microscope, made inclinable, in case, with Solar fitting and other apparatus, by Dollond 3-5-0
- * 2-2-0 225 Ditto, as made by Pyfinch, inclining by a joint at the base of pillar on box foot, which contains the accessories, no case 3-0-0
- * 1-5-0 226 German form of Cuff's microscope, with mahogany base, with drawer and accessories 2-15-0
- * 1-1-0 227 Scarce model of Cuff's microscope, of foreign origin, on wooden base 3-0-0
- * 2-5-0 228 Fine old chest microscope, by Nairne, London; quite complete 3-10-0
- * 1-15-0 229 Ditto, by Dollond, nearly complete 3-0-0
- * 1-1-0 230 Ditto, by Nairne (faulty); and another, by Dollond (case defective) 2-10-0
- * 2-10-0 231 A chest microscope, by D. Adams, complete 2-15-0
- 232 Ditto, by Nairne and Blunt, nearly complete
- * 1-5-0 233 A chest microscope of foreign make, fitting into a square hole on a brass plate fixed in the bottom of the box; a very rare and curious form of attachment 3-5-0
- * 1-10-0 234 An 18th Century microscope, by D. Adams, on mahogany base, drawer with fittings 2-10-0
- * 1-1-0 235 A microscope, by Meredith, New Bond Street, in case, with accessories 2-10-0

- 11-0-0 236 Scarce and curious old microscope, which closely resembles the variable, made by G. Adams, *circa* 1771; this instrument is dated 1772; it has 3 powers fitted to a curious sliding nosepiece, no case or other accessories 10-0-0
- 237 A microscope, signed Dellebarre, 1793, no case or accessories; this type of microscope was invented by Dellebarre in an attempt to improve the microscope by correcting the aberrations; in practice, however, it was found not to be satisfactory
- 238 Another, signed à Dellebarre, 1806, bears the inscription, Onderdenyngaart Canzuis Confecit Delft, with flat folding tripod foot
- 239 Another, not signed; no accessories or base
- 240 Another, ditto
- 241 Another, ditto
- 242 Another, ditto
- 243 Another, ditto
- * 2-2-0 244 A curious and rare form of drum microscope; can be used either as a compound or solar microscope, in ornamented case, with drawer under, containing a large number of slides and accessories; extremely rare form, and very complete 5-0-0
- 245 Another, stand only, no solar attachment, case, or accessories
- * 3-0-0 246 An interesting and scarce microscope, rack adjustment moving the stage, fitted with a candle holder, and stage divided into squares; 2 drawers, in box base, containing slides and fittings, signed Tiedemann 3-15-0
- 2-10-0 247 Polished mahogany cabinet, containing a very fine microscope with solar attachment, and drawer under, containing apparatus, by Dollond; very fine and scarce optical outfit 5-0-0
- * 2-5-0 248 Semi-portable microscope, by Dollond, on shaped tripod foot; in case, with drawer containing a number of accessories; the design of this microscope is very curious in many respects 3-10-0
- * 1-15-0 249 Microscope, of unusual form, signed on base, Officina Gottlo Stegmanni; a scarce type of instrument 8-0-0
- * 1-5-0 250 ✓ Microscope, on wooden box, with drawer for fittings, with square mirror; rare, perhaps unique 4-0-0
- 2-15-0 251 Small microscope, signed P. and J. Dollond, probably made by Benjamin Martin for the Dollonds; very scarce 2-10-0

252 Microscope, with rack adjustment to body, tripod legs folding downwards

* 2-2-0 253 An old microscope, with ornamented tripod feet; scarce form 2-0-0

* 1-1-0 254 A microscope, fitted with curious mirror movement on crank arm, so that it can be used either under or over the stage 2-10-0

* 14-0-0 255 Massive microscope, of unique design, constructed by Kleman, of Amsterdam; this extraordinary microscope has an eyepiece, of which the field lens is nearly 5in. in diameter, the body is conical, and about 24in. in length; the stage racks for focusing the mirror is not attached to the body, but on a separate base, and can be used independently of the microscope; there is a solar attachment, with mirror, so that it can be used as a solar microscope when required; it is mounted on a tall pillar, fitted to a tripod with shaped legs; the whole contained in a large cabinet, in the drawer of which is an extra stage and other accessories; this microscope is probably unique 25-0-0

256 Oberhauser form of drum microscope, in case (broken); and a tripod microscope (faulty)

* 1-10-0 257 An unusually tall and fine example of an early 19th Century Culpeper form of microscope, with all fittings, in pyramid-shaped mahogany case 6-0-0

258 Small pocket microscope, in case, by Cary; and parts of another microscope

3-10-0 259 Beautifully made early 19th Century achromatic portable microscope, by Plassel; complete in case with accessories 2-15-0

260 A stand only, no fittings or objective, of Chevalier's best horizontal achromatic microscope; a very fine instrument, but unfortunately all the accessories are wanting

* 2-0-0 261 A large microscope, of very unusual form, with folding tripod feet, by Dollond; this remarkable microscope is fitted: 1st, with an oil lamp, swinging in gymbals, attached to the tail piece; 2nd, a peculiar screw movement to the stage; 3rd, the screw adjustment fitted to the eyepiece. This is a very rare and unusual combination to find in any microscope; it is certainly very rare 12-0-0

262 A rare and early type of reading microscope with table clamp and rod fitting, in case

263 Portable microscope which screws into the base of the box, an interesting and complete microscope of a scarce form

264 Folding tripod microscope, by Nobert, with curious wheel micrometer adjustment; no case or objective

- * 18-0 265 Tripod microscope, with feet folding downwards, rack adjusting stage, and adjustable mirror ; an interesting form of French microscope 2-15-0
- 1-1-0 266 Microscope, on wooden box foot, the body being mounted on top of a pillar, which can be inclined ; fitted with drawer, which contains accessories ; probably of French make, and scarce 3-0-0
- 2-15-0 267 Jones' improved form of microscope, rack adjusting stage, many accessories in box foot, by Bate 2-15-0
- 1-1-0 268 A rare form of microscope, by Dollond, rack adjusting stage, with steadying rod 3-5-0
- 269 Folding tripod type of microscope, in case, complete with fittings, by G. Adams ; a very nice example of G. Adams, Junior, work
- * 10-6 270 Tripod microscope, on circular wooden base, with sliding adjustment, in case 2-15-0
- 271 Jones' improved form of microscope, in mahogany case, with under drawer for fittings
- 272 Small flat tripod microscope, with rack adjusting stage ; and another, on circular wooden base
- 2-0-0 273 Rare and unusual type of microscope, with steadying rod, and ivory scale attachment for direct comparison of measurements ; this very interesting microscope is probably unique ; it bears the name of P. Carpenter on the base 4-0-0
- 3-0-0 274 Brass inclining microscope, very complete, in polished case, the lid richly inlaid with mother-of-pearl, with drawer under, containing a large number of slides, by Cutts 8-0-0
- 1-1-0 275 Portable microscope, in case, by Adams 2-5-0
- 1-6-0 276 Double pillar microscope, probably French, on mahogany base ; and another Jones' most improved type 2-10-0
- 1-1-0 277 Small brass microscope, in case, by W. & S. Jones ; and another, by Dennis 1-15-0
- 1-1-0 278 Portable microscope, by Francis ; and a brass 19th Century Culpeper type of microscope 1-15-0
- 12-12-0 279 A fine example of Dr. Goring's Aplanatic Engiscope ; this extremely rare form of early achromatic microscope is particularly interesting as being the original model bought by the late Sir Frank Crisp from the son of the maker ; it bears the inscription on the tripod foot, W. Brittan, optical instrument maker ; only one other example is at present known, that at the Science Museum, S. Kensington ; the sheet from the Crisp Catalogue describing the instrument is included 2-5-0-0

280 Reflecting microscope, Amici form, no accessories ; very scarce, only a few of such instruments now being in existence

* 14-14-0 ✓

281 A beautifully made example of the Amici horizontal achromatic microscope, with various adjustments not generally found in this type of instrument ; this is no doubt due to the fact that it was Professor Amici's own working microscope, purchased by the late Sir Frank Crisp from Professor Golfarelli Officina Galilao, of Florence, who had it direct from Amici's heirs ; the sheet from the Crisp catalogue giving full details is included

15-0-0

* 3-0-0 ✓

282 A rare and curious microscope, fitted with an ivory wheel to hold 51 objects ; this early form of museum microscope was made by T. Winter, who worked for the trade

4-0-0

4-10-0

283 A similar microscope, but of a simple form, signed T. Winter ; both forms are now very scarce

4-0-0

* 10-6 ✓

284 Scarce form of drum microscope, with curious rotating wheel object carrier

3-15-0

285 An upright microscope, by Adams, on folding tripod foot

286 Most improved microscope, by W. & S. Jones, has a curious movement in arc by rack acting on stage ; very scarce

287 Inclining brass microscope, rack adjustment, on triangular bar

288 Small microscope, with fine adjustment to stage, on wooden base, with fittings ; and a small ditto, with folding feet, no case

* 1-5-0 ✓

289 Museum microscope for 10 objects, with eyepiece and objective, on round brass base

4-0-0

290 Brass microscope, by Chevalier, on rigid tripod foot, no objective

291 Two brass microscopes, one defective

292 Small microscope ; and another (faulty)

293 Student's microscope, Pritchard form, fitted with an early form of fine adjustment

294 Folding tripod foot microscope, with early form of direct acting, fine adjustment ; probably French

* 2-5-0

295 Brass microscope, with curious compound body, by Crickmore of Ipswich

4-0-0

296 An inclining rack adjusting microscope, on block wooden base ; and another, in case

* 3-10-0 ✓

297 A very elaborate compound microscope, and a large number of accessories, forceps, etc., by G. Adams ; this appears to be an improved form of the variable, 1771 ; very rare

8-0-0

- 298 A very complete compound microscope, by Dollond, with numerous accessories; very rare
- 299 Microscope, in case, 2 eyepieces, no objective
- 300 Portable microscope, with numerous fittings, in case, by Huntley
- 301 A small portable microscope, by Watkins & Hill; and another, by F. Watkins (defective), no case or fittings to either
- 302 Jones' most improved microscope, by Dollond, in case, with fittings
- 303 Early 19th Century French microscope, in cardboard case, with accessories
- 304 A very complete portable microscope, with tripod folding feet inclining in case, with fittings
- 305 Single pillar brass microscope, in mahogany box foot, which contains accessories
- 306 Portable microscope, with folding feet, in mahogany case, with fittings
- * 3-10-0 307 A very elaborate and complete improved opaque and transparent compound microscope, with a multiplicity of expensive accessories; a remarkable example of a high-class early 19th Century microscope; very scarce in any condition, and probably unique in its present state of preservation 8-0-0
- 308 Another similar, but nearly all the fittings are missing, and the case is defective *
- 309 Brass microscope, on folding tripod foot, with a few fittings in case, which is slightly defective
- 310 Portable microscope, Jones' most improved form, with fittings, in case
- 311 Portable microscope, by Dollond, Jones' improved form, fitted in case
- 312 A microscope, on tripod foot, by A. Pritchard, with some fittings; and another (faulty)
- 313 Microscope, rack adjusting, with folding tripod foot, in case
- 314 Jones' most improved microscope; in addition to the usual fittings there is a compass microscope fitted into the case
- 315 Portable microscope, with fittings, in case, by Cary *
- 316 Ditto, by Dollond

- 317 Portable microscope, with folding feet, in case, complete with accessories
- 318 Youth's drum form of microscope, in mahogany case, with accessories, complete
- 319 Portable microscope, in case (faulty)
- 320 Portable microscope, T. Harris & Sons, in mahogany case, with fittings
- 321 Pocket microscope, with folding foot, by Duncan, Aberdeen, in case
- 322 Beautifully made silver-plated pocket compound microscope, by Sphere, of Dublin ; complete with all accessories, in case
- 323 Flat tripod microscope, in case, fitted with drawer, and some fittings by Pritchard
- 324 Portable microscope, in polished mahogany case, with accessories, by Crichton, London
- 325 Small portable microscope, in case ; and 2 other hand microscopes
- 326 Microscope, with folding foot, and a drum form of microscope
- * 1-0-0 327 Curious microscope, signed Brock, invent Fecit 3-5-0
- 328 Inclining microscope, by Abrahams
- 329 Two old microscopes, 19th Century
- 330 Two small pocket microscopes
- * 18-0 331 Curious portable microscope, by Francis 3-0-0
- 332 Two early 19th Century microscopes (1 fitted with a wheel of powers)
- 333 Antique microscope, on mahogany base, with drawer and accessories, by Dixey
- * 1-0-0 334 Antique microscope, by Lincoln, London 3-5-0
- 335 Brass microscope, early 19th Century, on circular base, with triple objective ; and a small hand microscope
- 336 Brass Culpeper type of microscope ; and another, on circular base
- 337 Horizontal microscope, by Chevalier (faulty) ; and another, by Cary

OPTICAL CABINETS, SOLAR AND PROJECTION MICROSCOPES.

- 338 A beautifully made optical cabinet, containing a brass microscope, a solar microscope, covered in green shagreen, a telescope, ditto, and other fittings; the whole, contained in a mahogany cabinet, is in a beautiful state of preservation, and very rare
- 339 A large optical cabinet, in black fishskin, containing a compound microscope; a solar microscope; and numerous other fittings; in perfect condition, and very scarce
- 340 A smaller cabinet, which contains a microscope and fittings only
- 341 A very large and complete optical cabinet, containing a compound microscope; solar microscope; and a large number of other fittings; fishskin case
- 342 Another, similar, incomplete; contains the solar microscope only
- 343 John Cuff's first form of solar microscope, wooden base board
- 344 Mann & Ayscough's modification of Cuff's solar microscope, 1743; no case or fittings
- 345 An interesting early type of solar microscope; signed O. N. Degerman, Fecit 1756
- * 18-0 346 A curious wooden solar microscope, decorated body tube, wooden rack rotation, probably made at Nuremberg; very scarce form 2-10-0
- 1-0-0 347 Another interesting form of solar microscope (no mirror); and parts of another 3-0-0
- 4-10-0 348 An extremely rare and interesting form of solar microscope; on the top of a turned circular wooden base is an allegorical male figure, which supports by his uplifted arms the body tube of the instrument, to which is screwed a circular plate, and the adjustable circular mirror; both this plate and the mirror are engraved; the mirror is rotated by a projection placed on the front of the figure; probably unique 8-0-0*
- 0-3-3 349 A small solar microscope, by Ramsden; and a ditto, by Adams; both faulty
- 350 An early form of solar microscope, on oak base board
- 351 A brass microscope, of foreign make, in case, with decorated handle and keyplate, complete
- 352 A nicely made brass solar microscope, with fittings, in mahogany case

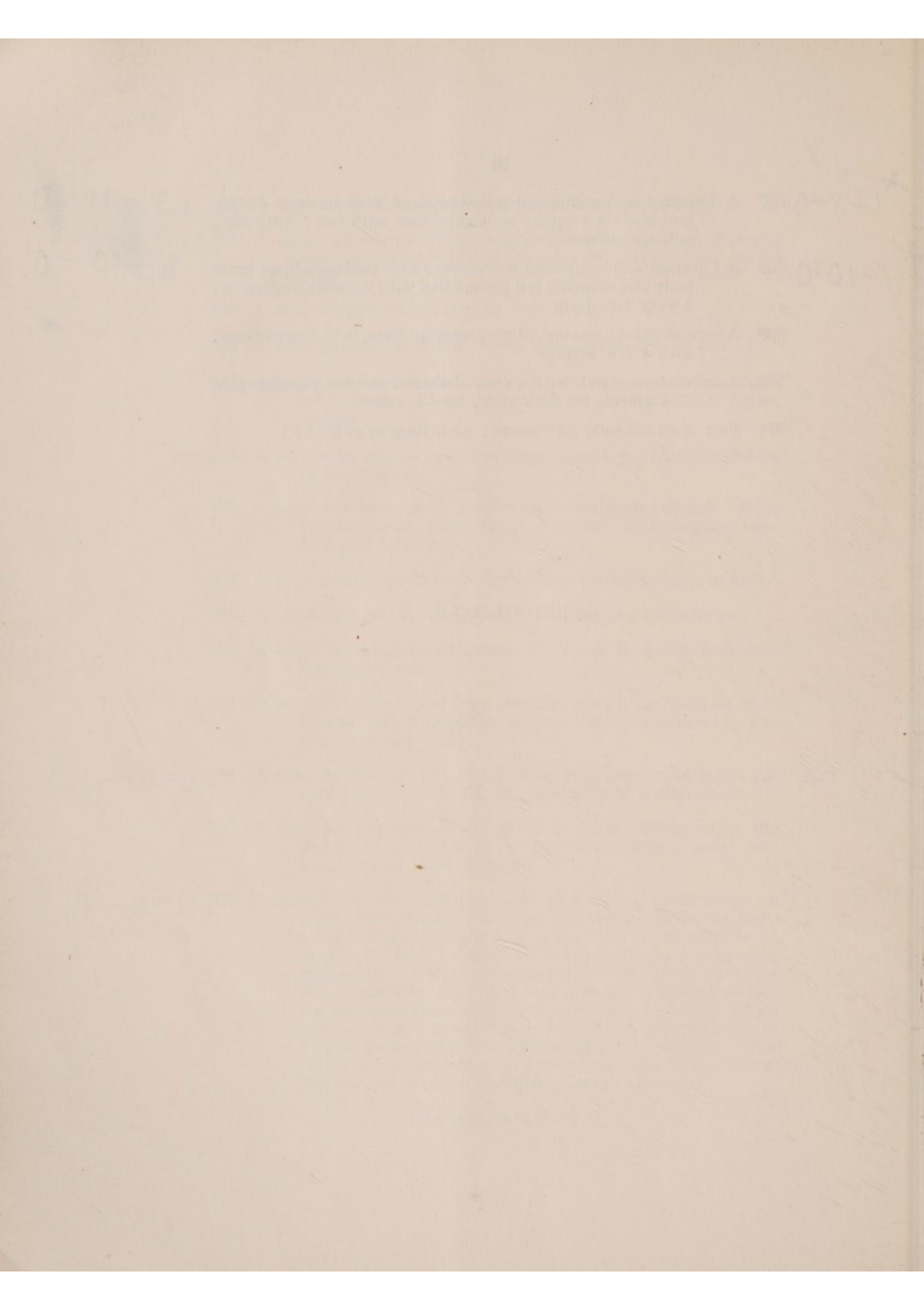
- 353 A small solar microscope, by George Adams, with fittings, in case
- 354 A solar microscope, with wooden base and curious focusing adjustment, probably of French origin, and a very scarce form
- 355 A solar microscope of brass, by Cuff, in case
- 356 A solar microscope of brass, with rack adjustment, in case
- 357 A large brass solar microscope, with a sliding bar of powers, fitted for both opaque and transparent objects, by W. & S. Jones ; no case
- 358 A brass solar microscope, in mahogany case, by Yates, of Dublin (scarce maker)
- 359 A large and uncommon form of solar microscope, signed, "Made by B. Martin, Fleet Street, London," in mahogany case, with part fittings
- 360 A solar microscope in brass, by Sterrop (scarce maker), in case
- 361 A small solar microscope, fitted to a mahogany scioptric ball
- 362 A large brass solar microscope, by W. & S. Jones, with part fittings, in case
- 363 A beautifully made and very complete solar microscope for both opaque and transparent objects, by G. Adams ; in fine condition, very rare
- * 1-10-0 364 A solar microscope, of unusual form, with interesting rough cut rack adjustment to mirror ; probably of Italian origin 4-0-0
- 365 A Lucernal microscope, by W. & S. Jones, fitting on to the mahogany case when in use with two adjusting rods ; and a number of other fittings
- * 11-0-0 366 A magnificent combined Lucernal and compound microscope, of very unusual design ; it bears the inscription on the body tube, "Adams, Inventor, London" ; it is intended to be used : (1) as a Lucernal microscope ; (2) as a projection microscope ; (3) as a compound microscope ; the body tube is 7in. in diameter and 24in. long ; an extra mahogany case contains a very large number of accessories, including various condensers and 2 additional stages ; 15 object-glasses of various powers form the optical battery ; only one other of this type of microscope is known—viz., that in the Science Museum, at South Kensington (Court Collection) 25-0-0

(See ILLUSTRATION.)

- * 1-8-0 367 A Lucernal and compound microscope, of very unusual design, mounted on a square mahogany base with feet ; very rare, perhaps unique
- * 1-10-0 368 A Lucernal and compound microscope, with conical-shaped brass body and swinging tail piece, fitted with 2 condensing lenses ; a very rare form
- 369 A curious old microscope, of very unusual form, in mahogany case, with a few fittings
- 370 A microscope stand, with a conical-shaped wooden photographic attachment, no dark slide, by Chevalier
- 371 Part of an old solar microscope ; no fittings or case (A.F.)

3-10-0
4-0-0

END OF SALE.



WA/HMM/CM/Sa/21/456/4

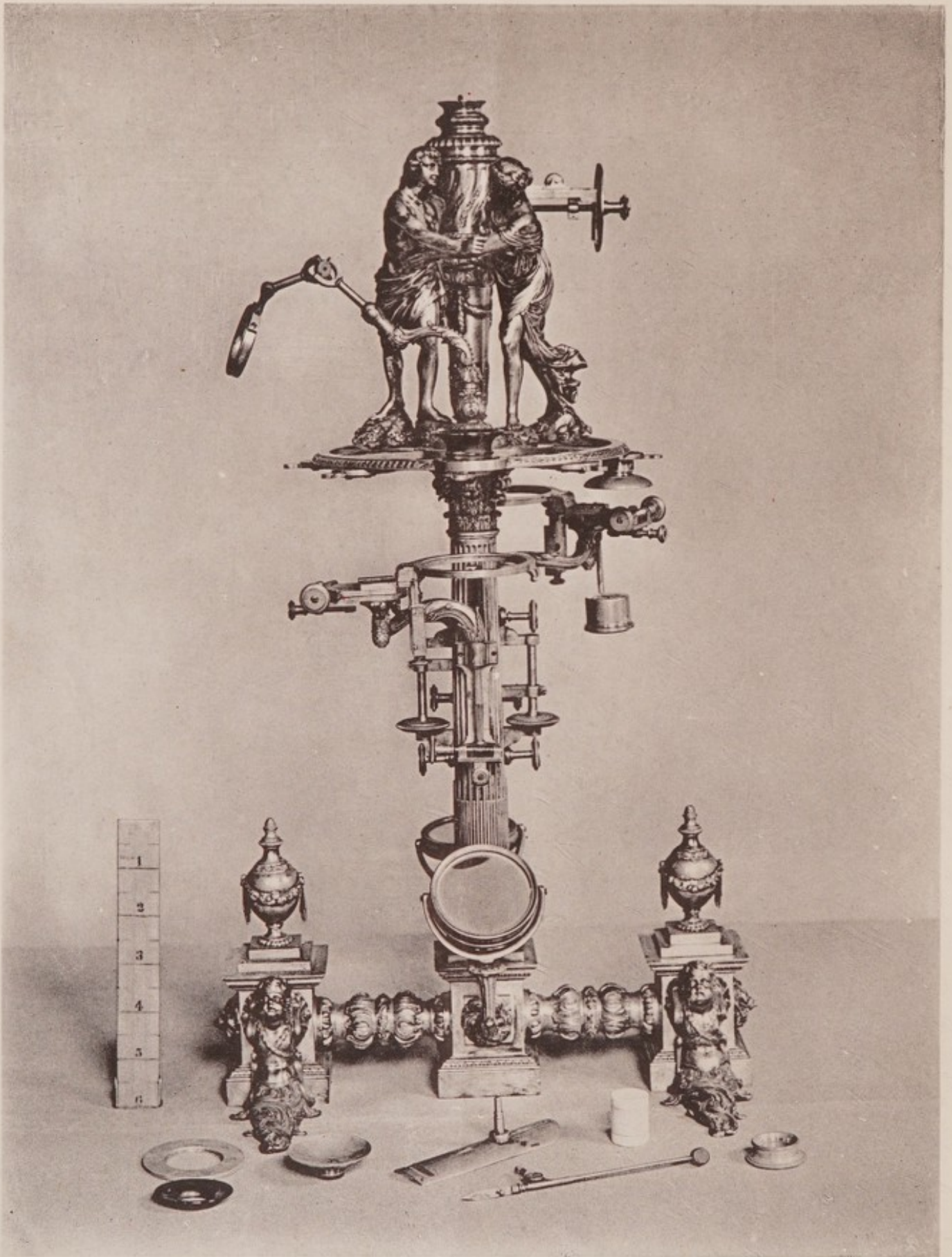
Crisp's
prints

LH

THE
CRISP COLLECTION
OF
ANTIQUÉ MICROSCOPES

Tuesday, February 17th, 1925.

STEVENS'S AUCTION ROOMS, LTD.



Lot 169.

A CATALOGUE
OF
THE COLLECTION OF
ANTIQUÉ MICROSCOPES,

FORMED BY THE

late Sir FRANK CRISP, Bart.

It includes many rare and beautiful Instruments, by Hooke,
Marshall, Campani, Culpeper, Brander, Costa, Scarlett,
Adams and Martin.

RARE ITALIAN MICROSCOPES,
EARLY AND DECORATIVE SOLAR MICROSCOPES,
AND POCKET INSTRUMENTS,
by Lindsay, Clark, Martin, Watkins and Culpeper,
in Fishskin Cases,

ALSO

A MAGNIFICENT SILVER INSTRUMENT,
by George Adams the Elder.
Lieberkuhn's Dissecting Microscope and Two Pocket
Instruments, by Musschenbroek.

Which will be Sold at

STEVENS'S AUCTION ROOMS LTD.

*At their Great Rooms,
38 King Street, Covent Garden, and 15/16 Floral Street,
London, W.C.2,*

On TUESDAY, FEBRUARY 17th, 1925,
at 12.30 o'clock precisely.

On view day prior and morning of sale till 11.30.

Catalogues on application.

Telephone : Gerrard 1824.

Telegrams : "Auks, Rand, London."

Established 1760.

CONDITIONS OF SALE.

FIRST.—The highest bidder to be the buyer, and if any dispute arise between two or more bidders the lot so disputed shall be immediately put up again and re-sold. The auctioneer reserves to himself the right to refuse any bid, also to make any alteration in the catalogue.

SECOND.—No person to advance less than one shilling; above £2, two shillings and sixpence; and so on in proportion.

THIRD.—The purchasers are to give in their names and places of abode, and, if required, to pay down a deposit of five shillings in the pound in part payment of the purchase-money, in default of which the lot or lots so purchased to be put up again and re-sold at any convenient opportunity during the sale or otherwise.

FOURTH.—The lots are to be taken away and paid for, with all faults and errors of description, at the buyer's expense and risk, on the day immediately following sale. The auctioneer not being responsible for the correct description, genuineness or authenticity of, or any fault or defect in any lot, and making no warranty whatever.

LASTLY.—Upon failure of complying with the above conditions, the money deposited in part payment shall be forfeited to the vendors, the lots remaining uncleared shall be re-sold by public or private sale, and the deficiency (if any) attending such re-sale, together with all incidental expenses and charges, shall be made good by the defaulters at this sale.

NO LOTS WILL BE TRANSFERRED.

The Clerk of the Sale has authority to refuse Cheques.

A CHARGE FOR WAREHOUSING WILL BE MADE ON
LOTS NOT CLEARED PROMPTLY.

Telephone :—
GERRARD 1824.

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FOREWORD.

This being the first occasion on which a Collection of Antique Microscopes has ever been catalogued for sale by Public Auction, it may not be altogether out of place to give a short account of the Crisp Collection. In its entirety it consisted of nearly 3,000 Microscopes and over 1,000 pieces of apparatus. When that part of the Collection consisting of the modern Microscopes was sold in these Rooms in a series of sales during the years 1920 and 1921, the earlier and rarer Microscopes now about to be offered were reserved for this final sale.

The Collection was formed during the latter half of the 19th Century by the late Sir Frank Crisp, Baronet, who for many years devoted himself to the study of their history and development. He was universally recognised as the leading authority, and all the important finds were brought under his notice during that period. He was able to obtain many rare and interesting forms that it would be now impossible to duplicate.

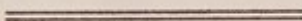
In the restricted space available in an auction catalogue it is only possible to give a very short description of most of the lots, and many of the interesting features have had to be omitted. Although the Auctioneers placed no restrictions of any kind on the cataloguer, he has found it necessary in many cases to be very brief, reserving more space for those Microscopes which, on account of their rarity and scientific interest, may justly claim a full description.

In arranging the Collection for sale by auction it has been thought best to depart from the chronological and perhaps the more scientific method, and sell them in groups, viz. :—

- (1) Simple Microscopes and small pocket compound Microscopes.
- (2) Compound Microscopes dating from the 17th Century to the introduction of achromatism in the early part of the 19th Century.
- (3) Optical Cabinets, Solar and Projection Microscopes. (The various Nuremberg wooden Microscopes have been placed by themselves.)

In each division, within limits, the instruments are catalogued in chronological order, original forms first, and then their variations and modifications by other makers.

It is perhaps advisable to say a few words as to the condition of the Collection generally. Some of the lots are described as "faulty," in most cases, however, the faults are quite trifling, but if there is any serious defect it will be found noted in the catalogue. As is nearly always the case with these early Microscopes, many are without some, or all, of their accessories (some of the earlier types, however, never had any), but this is only a secondary consideration, as both from an artistic and scientific point of view the interest is chiefly in the stand itself.



CATALOGUE.

ON TUESDAY, FEBRUARY 17TH, 1925,

AT 12.30 P.M. PRECISELY.

SIMPLE AND SMALL COMPOUND POCKET MICROSCOPES OF ALL PERIODS.

(NOTE.—*The rule shown in the photographs is 6 inches high.*)

Lot

3.

1

Three modern reproductions of rare microscopes—viz., Leeuwenhoek's hand microscope, in case, an interesting early 17th Century museum microscope, and a model of Leeuwenhoek's aquatic microscope

2.

2

An old ivory screw-barrel microscope, with compound body; very rare form

3

A turned ivory case, divided into compartments, which contain a flea microscope, a small microscope, magnifying lens, etc.; rare form

25.

4

Musschenbroek's simple hand microscope (1702), first form, in original leather case; very scarce, only a few being now in existence

(See ILLUSTRATION.)

20.

5

Musschenbroek's second form (1702), with a number of powers and other fittings (not quite complete), in original case, decorated with gold stampings; very rare

(See ILLUSTRATION.)

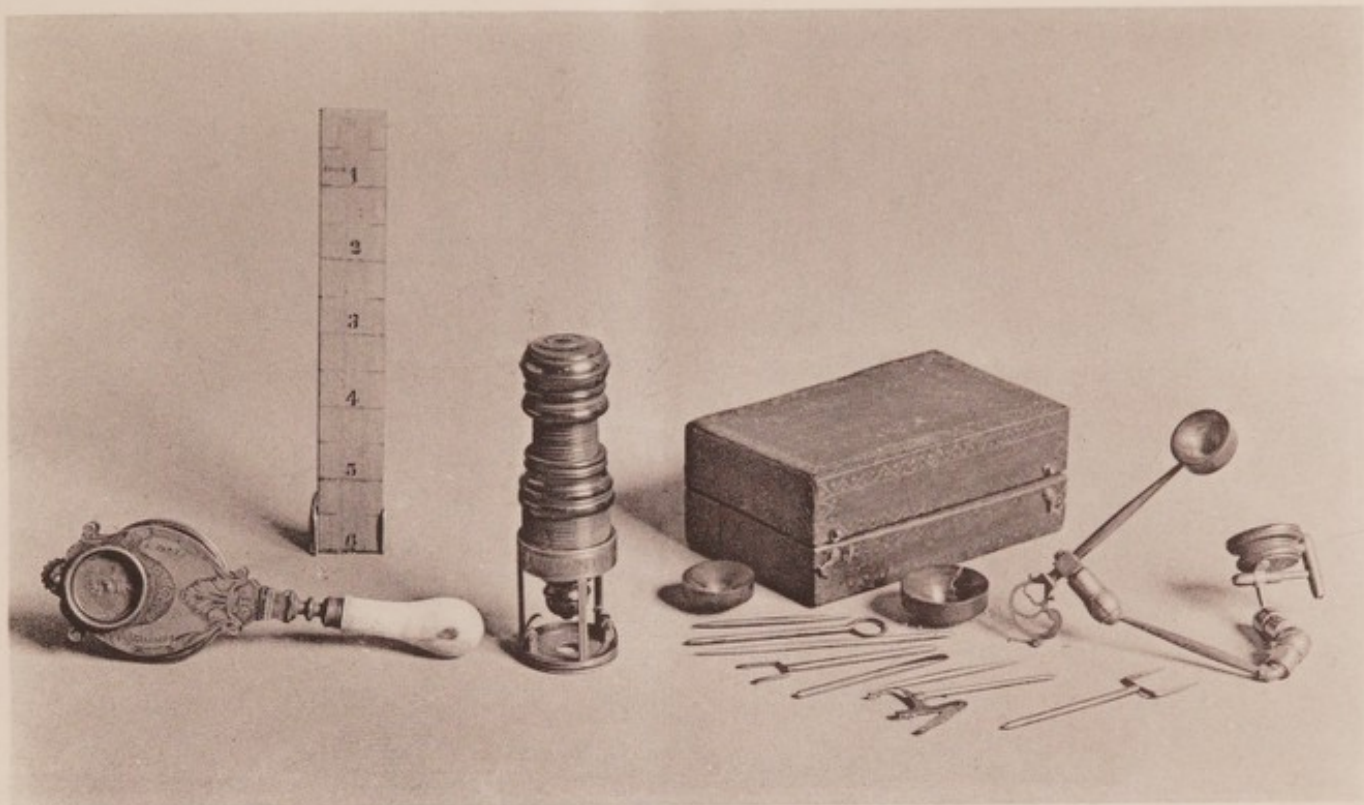
6

Another example of the second form of Musschenbroek, with part fittings, in mahogany box (not original); very rare

7

Unique miniature Wilson screw-barrel microscope and fittings, the whole enclosed in a turned ivory case of 3 compartments; one contains the microscope, one the powers, and one the ivory slides; it is in a beautiful state of preservation

- 8 | An ivory Wilson screw-barrel microscope, with powers, etc.,
in fishskin case ; scarce
- 9 | Another, very similar
25. 10 | A beautifully engraved (on back and front) brass 17th Century
hand microscope, after the form of that made by Cosmus
Conradus Cuno of Augsburg, *circa* 1686 ; it consists of
2 plates, connected at the bottom by a hinge, below this
is fixed the turned ivory handle ; in the front plate, near
the top, and in the centre, the lens, which is of very high
magnifying power, is placed in a circular fitting ; immedi-
ately behind this is fixed a brass wheel, containing 8 objects,
which can be rotated ; the focusing is effected by a milled
edge wheel, which connects the back and front plates ;
on the back plate is a small aperture, to act as a diaphragm ;
there is an additional small plate bearing a less aperture,
which can be used when required ; this beautiful little
instrument is signed Depovilly à Paris ; the length of the
instrument is 5½ in., and it is in a perfect state of preserva-
tion, optically and mechanically ; extremely rare
- (See ILLUSTRATION.)
- 11 | A Wilson screw-barrel microscope, in black fishskin case ; signed
E. Culpeper
- 12 | A Wilson brass screw-barrel microscope, in case ; signed E. Scarlett
- 13 | A Wilson screw-barrel microscope in brass, and a botanical
microscope ; both in fishskin cases, with fittings
- 14 | A Wilson screw-barrel microscope, and a compass microscope ;
both in fishskin cases
- 15 | An early Wilson screw-barrel microscope, with ivory body, and
some fittings ; in flat leather case
- 16 | A Wilson screw-barrel microscope, and another smaller ; both in
fishskin cases
5. 17 | A Wilson screw-barrel microscope, with compound body, and fitted
to a tripod stage with folding feet, by E. Culpeper ; no case
or fittings
- 18 | A Wilson screw-barrel microscope, with compound body ; no
fittings or case
- 19 | A ditto, on scroll stand, and wooden base, with brass compound
body, by G. Cramer of Groningae ; no fittings or case
25. 20 | A small pocket microscope, with compound body, Demainbray
form, by Thomas Bureau ; in grey shagreen case, and fittings
- 21 | A ditto (no compound body), by Sisson ; in green shagreen case



LOT 10.

LOT 111.

LOT 4.



LOT 5.

- 22 A fine example of a compass microscope (no case) ; and a brass Wilson microscope (no case)
- 23 A Wilson brass screw-barrel microscope (no fittings or case) ; and small Wilson screw-barrel ; in fishskin case
- 24 A beautifully made microscope, on flat folding foot ; this is an exceptionally small portable microscope, and rare
- 25 A fine Wilson and Ellis aquatic combined microscope ; in fishskin case, very complete ; by Dollond
- 26 A Wilson screw-barrel microscope, and a compass microscope ; both in fishskin cases
- 27 A fine and very complete compass microscope ; in fishskin case
- 45/- 28 A compass microscope, in leather case, with fittings ; signed Passemant, au Louvre
- 29 A Wilson screw-barrel microscope, part fitted, in fishskin case ; and a small compass microscope, in fishskin case
- 30 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in mahogany case
- 31 An Ellis aquatic microscope, with rack adjustment ; in fishskin case ; by Dollond
- 32 A pocket compound microscope, in fishskin case ; and a flower microscope, in case
- 33 A hand microscope, with a large wheel of objects, in leather case ; and a compass opaque microscope, in leather case ; both modern
- 34 A compound microscope, in red leather case, with fittings ; and a botanical microscope
- 35/- 35 An old French compass microscope, in case
- 36 A beautifully made little compass microscope, in rosewood case, with fittings
- 37 A compound microscope, in fishskin case, with many fittings, by Gilbert & Sons
- 38 A Wilson screw-barrel microscope, in fishskin case ; and a botanical microscope, in case
- 39 An Ellis aquatic microscope, in fishskin case
- 90/- 40 A Wilson screw-barrel microscope, on scroll stand, fitted on turned circular base

- 41 An Ellis aquatic microscope, in fishskin case ; and a botanical microscope, in mahogany case, by Bancks
- 42 A beautifully made pocket compound microscope, with prism illuminator, and other fittings ; complete in mahogany case
- 43 A pocket compound microscope, with fittings, in mahogany case ; and another, folding into the case by a hinged joint at the base
- 44 A pocket microscope, in red leather case, by Bancks ; and another, part fitted, by Tuther ; both 19th Century
- 45 A small pocket microscope, in fishskin case, with fittings ; and a Wilson brass screw-barrel microscope, in fishskin case
- 46 A small microscope, on tripod stand ; not signed, but probably by Lindsay ; no case or fittings
- 47 A folding microscope, in mahogany case ; and a small pocket microscope ; both 19th Century
- 48 A small microscope and fittings, by Cuff, in mahogany case (broken)
- 49 Lyonett's dissecting microscope, with ball-jointed arm, one power ; no case or other fittings
- 50 A brass microscope, on tripod stand, by Hughes ; a lens holder ; and a small hand microscope ; all 19th Century
- 51 A curious vial microscope, by A. Pritchard, 3 powers, 2 being in a glass-lidded case
- 52 A microscope, with a multiple eye lens ; and a botanical microscope, with screw adjustments
- 52A A Wilson pocket screw-barrel microscope, in leather étui case, by Culpeper, with fittings
- 53 An early Wilson screw-barrel microscope, of foreign make, in leather case ; scarce form
- 54 A Wilson screw-barrel microscope, part fitted ; and a botanical microscope ; both in fishskin cases
- 35/ 55 A curious and rare form of hand microscope, with a large brass wheel fitted with objects, and a wheel for focusing, with wooden handle ; very scarce
- 36/ 56 A ditto, all brass
- 37/ 57 A ditto, all brass
- 38/ 58 A lignum vitæ hand microscope, in compartments ; and a bone ditto

59 A bone hand microscope ; and 4 small Granger microscopes

45/ 60 A rare type of pocket microscope, in the form of a book, by Fuller of Norwich, with fittings

61 A spy-glass, with diagonal mirror, in fishskin case ; and an engraved linen testing microscope, in fishskin case ; both rare

62 A Wilson screw-barrel microscope, on scroll, with folding feet

63 Clark's pocket microscope, 1776, in fishskin case, with fittings

40/ 64 A ditto, dated 1773

65 A ditto, part fitted

30. 66 Beautifully made solid silver microscope, by George Lindsay. This miniature microscope is of great interest.

(1) It was the first microscope for which a patent was registered (1742) ; (2) on account of the neatness and compactness of the design ; (3) the beauty of its workmanship. Lindsay was watchmaker to George II., and this no doubt accounts for its neatness and accuracy ; the instrument and its fittings are contained in a fishskin case, $4\frac{1}{2} \times 2\frac{1}{2} \times 2$; only one other example in silver is known—viz., that in the Science Museum, South Kensington (Court Collection)

(See ILLUSTRATION.)

10. 67 Clark's pocket microscope, solid silver ; ^{no} this is an interesting form of microscope, made by J. Clark of Edinburgh at the latter end of the 18th Century ; the instrument fixes in by screw to the base of the case, which is of fishskin

68 An aquatic hand microscope, with 2 powers, in fishskin case ; and a botanical microscope, in mahogany case ; both scarce forms

69 A portable compound microscope, in fishskin case, inclining at the base, folding tripod foot ; very complete

70 A Wilson screw-barrel microscope, with black ivory compound body, in fishskin case ; and a number of fittings

71 A ditto, larger

72 A fine Ellis aquatic and Wilson microscope, combined with fittings, by Dollond, in fishskin case

73 An early type of wooden lignum vitæ microscope, with fittings, in cylindrical fishskin case ; very rare form

74 A pocket microscope, with beautifully engraved stem and feet which fold, by F. Watkins ; complete in fishskin case

- 257- 75 A curious old ivory microscope, with powers, etc., in square ivory box with sliding lid; probably unique
- 76 An Ellis aquatic microscope, in fishskin case
- 77 Two small Goulds' pocket microscopes, and another; all 19th Century
- 78 A brass botanical microscope, with compound body; and 2 other botanical microscopes, in black cases
- 79 A Wilson screw-barrel microscope, with rack adjustment, on flat folding feet stand; scarce form
- 80 A fine pocket compass microscope, with fittings, in green leather case; probably French
- 81 A small brass drum microscope, by Secker à Paris; and another microscope, faulty
- 82 A portable microscope, in mahogany case, by Bancks, and another, portable; both 19th Century
- 83 A Wilson screw-barrel microscope, on decorated scroll stand, fitted to a mahogany box base, with drawer
- 84 A Wilson all-brass screw-barrel microscope, with compound body, on tripod stand
- 85 A case of 11 dissecting lenses, by Pritchard, said to be jewel lenses
- 86 A compass microscope, on stand; and a small single lens magnifier, on stand
- 87 A curious microscope, on wooden base, with metal mirror; and a wood imitation of a Wilson microscope
- 88 A very curious early simple microscope, with rack adjustment, on circular wood base
- 89 A small model of Cuff's double microscope, on mahogany box base
- 90 An Ellis aquatic microscope, no case or fittings; and another microscope, on wood base, with drawer
- 91 A dissecting microscope, in mahogany case, with fittings, by Chevalier
- 92 Part of a microscope, in mahogany box; a hand-glass, in wooden frame; and a pocket walking-stick telescope; all 19th Century
- 93 A beautifully made miniature microscope cabinet of 5 drawers, containing a collection of arranged microscopic objects, mounted in ivory

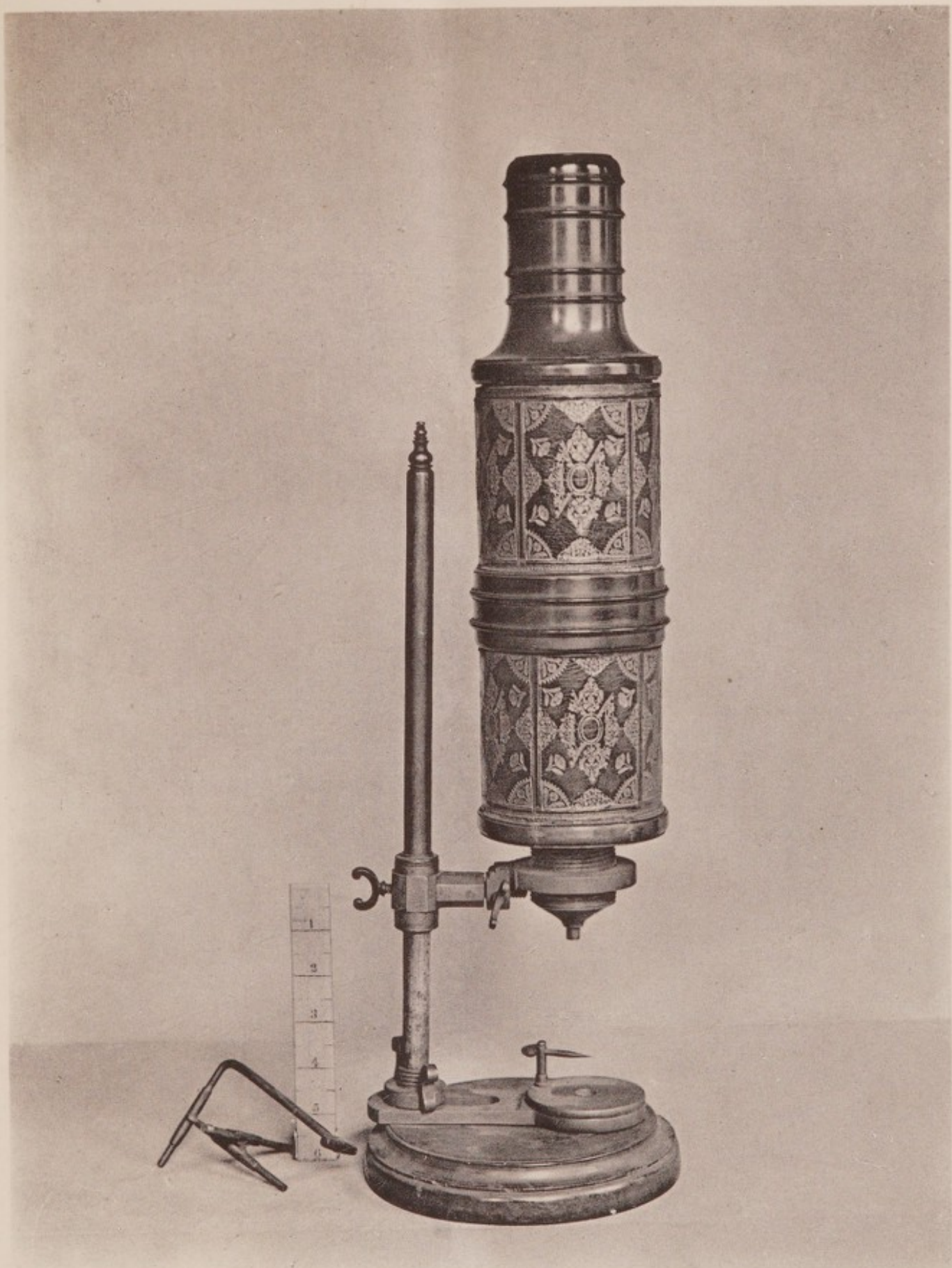
- 94 A pocket microscope, by Cuff, on wooden oval base, 1 power, and forceps, no case or other fittings
- 25- 95 A microscope, with rotating wheel of objects; and another, with 2 Lieberkuhns on the same mount, in leather cases
- 96 A microscope, on tripod stand, by Watkins; and another (smaller), no case or fittings
- 97 A vial microscope, and a mounted magnifying glass
- 98 A wooden microscope (modern), and 2 mounted lenses, on stand
- 99 A botanical microscope, in pyramid-shaped case; pair of mounted lenses, and 2 hand-flower microscopes
- 100 Lyonett's dissecting microscope, in mahogany case, with fittings
- 101 A small camera-obscura microscope, by Chevalier
- 102 A portable microscope (incomplete), 2 boys' microscopes, and 2 small hand microscopes; all 19th Century
- 35- 103 A hand microscope, with rotating wheel of powers, in mahogany case; and a compass microscope, no case
- 104 A hand-glass magnifier in ivory, a cup set of magnifiers, 2 compass microscopes, and a hand-flower microscope; all 19th Century
- 105 Small lignum vitæ microscope, botanical microscope, small hand microscope, in case, part of another, and a seed microscope
- 106 Two small ivory Coddington lenses, 2 others, by West, 4 small hand microscopes, and part of a microscope; all 19th Century
- 107 A snuff-box, fitted with a spy-glass, a hand microscope of lignum vitæ, small botanical microscope, and a medal

COMPOUND MICROSCOPES,

the bodies being made of wood, ivory, etc., with screwing or sliding adjustments; late 17th and early 18th Centuries.

- 3- 108 Modern copy of Janssen's compound microscope; the original is in the Museum at Middelburgh, and a copy of Divini's compound microscope (1667-8)
8. 109 A full-size copy of Robert Hooke's original compound microscope, as described in his book, "The Micrographia," 1665.

40. 110 An original modification of the Hooke microscope, dating from about the year 1675; the outer body is covered in dark crimson leather decorated with gold stamping, the inner bodies are of white vellum undecorated, the mounts in turned lignum vitæ, the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached, up or down, on the vertical column; this instrument is in a good state of preservation, certainly very rare, and probably unique
(See ILLUSTRATION.)
30. 111 A beautiful little compound microscope, made by the celebrated Italian optician Guiseppe Campani; the compound body is entirely of wood, screwing into a brass tripod base, with an interesting spring attachment to hold the slides; the focusing is effected by screwing the compound body into the top of the brass tripod, which bears the maker's signature—viz., G. Campani in Roma; the eye-lens is double convex, of about 1-in. focus; there is no field-lens; the objective lens is a double convex of about $\frac{3}{8}$ -in. focus; the distance between the eye-lens and the objective can be varied; this beautiful little microscope is very rare, only about a dozen examples being known; it is both optically and mechanically perfect
(See ILLUSTRATION.)
15. 112 An early Italian microscope, with wooden body, mounted on an open brass tripod; this instrument closely follows the design of other microscopes known to be made by Campani, and may perhaps be attributed to him; it, however, bears no signature of any kind
75. 113 An old English microscope, with green vellum outer body, signed J. Mann Fecit, and mounted in wood (broken); the entire base is not original, being more modern (A.F.)
5. 114 An early English tripod microscope; the outer body is of white spotted vellum, decorated with gold stamping, the mounts being in wood; the focus is effected by screwing the nosepiece into a collar at the top of the tripod; the circular wooden base bears the object carrier; very scarce
5. 115 Another similar form of microscope, with both the outer and inner bodies covered in green vellum, with gold stamps; the base, which is of lignum vitæ, has been repaired; very scarce
20. 116 A tall tripod microscope, of early date and foreign origin, probably German; the outer body is elaborately decorated with designs in red and green; the base, which is in the form of a tripod, together with the objects carrier, are all beautifully carved wood; unique



LOT 110.



Lot 118.

25. 117 An early English compound microscope, made by J. Marshall, in Ludgate Street, London, *circa* 1704; the outer body covered with white vellum, with red and green spotted ground, with gold stampings; the mounts are of wood; the preliminary focusing is effected by moving the transverse arm, to which the compound body is attached up and down on the square vertical column, and fixed by a jamb screw, the finer focusing being effected by means of an octagonal nut working on a screw; both eyepiece lenses missing, and all other fittings; it has, however, 5 out of the 6 original objectives; very rare, only about 12 being now known

20. 118 An early English microscope, made by John Marshall, in Ludgate Street, London, *circa* 1704; the design and mechanical adjustments are similar to the preceding microscope; the covering of the outer body is of bright green vellum, with gold stampings; the inner body is green vellum, undecorated, the mounts are of turned lignum vitæ; the whole instrument can be inclined by means of a ball-and-socket joint at the base of the pillar; the whole is fixed on a rectangular octagonal base, with drawer; this instrument has 4 out of the 6 original objectives, a holder for opaque objectives, and a pair of stage forceps

(See ILLUSTRATION₅)

30. 119 Another example of John Marshall's double microscope; the outer cover is grey shagreen, the inner body being green vellum, with gold stamping; this microscope has the 6 original object-glasses, the opaque holder, a small stage condensing lens that can be attached to it, another holder carrying a spring stage, hand forceps, and a small mirror, which is not contemporary; on octagonal base, with drawer to hold the apparatus

12. 120 A modified form of John Marshall's double microscope of later date; in this model the ball-and-socket joint is replaced by a vertical column, which is rigidly fixed to the box base; the transverse arm, which carries the compound body, can be moved up or down to focus in exactly the same way as the Marshall microscope; the fitting which carries the stage and other accessories is rigidly fixed to the upright column; the outer body is covered with crimson leather, with gold stampings on both edges, the inner body is of green vellum, with similar stampings, the mounts being of turned wood; the instrument has the 6 original objectives, the stage condenser fixed to a movable arm, stage forceps, opaque holder, spring stage, and 3 ivory slides; this instrument is fitted with a plain mirror

9. 121 | An early tripod microscope, with green vellum outer body, fitted with 2 draw tubes; the focusing is effected by sliding the nosepiece of the compound body into a wooden collar surmounting the tripod; this instrument closely follows the form of Divini's microscope; the base is circular, with a curious movable object-plate; very rare

8. 122 | An interesting tripod microscope, with compound body of very unusual form, being constructed of ebony with ivory mounts; the focusing is effected by screwing the nosepiece into the collar of the tripod; it is fitted with a mirror; very rare

30. 123 | An early Italian microscope, of very original design; the compound body is covered with black leather, and the mounts are of turned ivory; the transverse arm that carries the compound body can be moved backwards or forwards on the upright column, and also up or down to focus the instrument; the whole is mounted on a brass tripod base, to which are attached a ball-and-socket arm, carrying a stage condensing lens; it is also fitted with a mirror, a rotating object-carrier; it bears the inscription, *Elaboratum a Blasis Burlini Venetiss Optico*

(See ILLUSTRATION.)

6. 124 | A microscope of unusual construction, the outer and inner bodies of green leather, richly embossed with gold stampings; it bears the inscription in gold lettering on the front of the body tube, *Johann Balthasar, Oppelt Opticus Aispach in Francken*

7. 125 | A modified form of Hooke's microscope, the outer body decorated with gold designs, rigidly fixed to a vertical column; the compound body, however, can be moved laterally, and fixed in position by a jamb screw; the stage is movable up or down to focus, and there is a mirror; on box foot, with drawer; rare form

6. 126 | An early type of tripod microscope; the focusing is effected by screwing the nosepiece into a collar at the top of the tripod; the body is of wood, and there is a mirror fitted to a turned wood base

10. 127 | A French modification of Marshall's double microscope, the top being of turned wood, and the body of brass; the fine adjustment screw is at the back of the vertical column, which carries the compound body; the instrument is inclinable, by means of a compass joint; the base is of brass, fitted with a mirror, which, with the stage, are probably of a later date than the rest of the instrument; rare

128 A microscope of unusual design, with conical body, the outer body of red lacquer fixed on the top of a slender brass rod, from which, by means of a joint, it inclines; the box base is of wood, inlaid, fitted with a drawer; unique

8. 129 A beautifully shaped box form of microscope, the mirror being enclosed in the box base; in use, the front of the box is removed from its grooved fitting, with 4 ormolu claw-shaped feet; the outer covering of the compound body is of green shagreen, with wood and ivory mounts; it is fitted with a rotating object-holder and stage forceps; probably of French make, and in perfect condition

5. 130 A similar microscope, with stage condenser, stage forceps, and rotating holder for a fish-plate; the compound body covered in shagreen, with wooden mounts

20. 131 A similar microscope, elaborately decorated with ormolu mounts, and claw feet; in this instrument there is a wheel of diaphragms in front of the mirror; the outer covering of the compound body is black leather, the mounts being of wood

(See ILLUSTRATION.)

8 50 132 The historical microscope, formerly the property of Pope Benedict XIV, who succeeded to the Pontificate A.D. 1740; this beautiful little microscope, in general design, resembles the 2 preceding microscopes; the beautifully made box base is elaborately inlaid with designs in marquetry on all sides, the front panel having a decorated shield design surmounted by the triple mitre and cross-keys; the compound body is covered in delicate green shagreen, with wood and ivory mounts, the metal parts being gilt; it has an engraved arm to carry the condensing lens, and a beautifully-engraved scalloped rotating object-holder; the hand forceps are also engraved; the apparatus is contained in a drawer in the base; this instrument is in perfect condition, and complete

(See ILLUSTRATION.)

5. 133 A box form of microscope, with ornamental feet, the adjustment being effected by a rack and pinion; the compound body is of brass

4. 134 A similar microscope, but no ornamental feet

5. 135 A box form of microscope, the compound body covered with fishskin, with wood mounts, and drawer under, which contains a few fittings

5. 136 A box form of microscope, with all-brass body; the focusing is effected by rack and pinion; 2 drawers in the base contain the object-glasses and other fittings

- 57- 137 A curious old microscope, adjustable, on an upright brass rod; the stage is fixed at the top of a small tripod, the mirror being underneath, mounted on a square wooden base, with drawer; a very scarce form of microscope
- 35- 138 A beautiful microscope, the compound body of tortoiseshell and ivory, fitted with a complicated micrometer stage, screw adjustment to the mirror; on a beautifully shaped box foot; it bears the inscription on the stage, D. Joannes de Guevave, Fecit 1752; the instrument itself is in very good condition, but unfortunately the optical part is missing
(See ILLUSTRATION.)
- 657- 139 A compass microscope, with ivory compound body, fitted to a box base, with 2 drawers, which contain a number of accessories
- 601- 140 A curious microscope, with compound brass body, the upright pillar and stage being all of wood; on octagonal-shaped base; scarce and interesting form of microscope
- 90/- 141 Small microscope, with ivory compound body, on ornamental scroll stand; fine adjustment applied to the stage; on circular base, fitted with mirror
- 50/- 142 Another small microscope, signed W. R. Fecit, closely following the design of Wilson's screw-barrel microscope, with the compound body
- 143 An early tripod form of microscope, the outer body covered in red leather with gold designs, and wooden mounts to eye-pieces; probably of Italian origin
- 144 The original form of Culpeper's tripod microscope, the outer body covered in grey shagreen, by Edmund Culpeper; in case, with 5 powers, and other fittings in the drawer
- 145 A similar microscope in all respects; in case, no fittings
- 146 Another, the same as the above
- 147 Another, ditto
- 148 A Culpeper form of microscope, the outer body covered with red leather; the screw cap contains 4 powers; in case, no other fittings
- 149 A Culpeper type of tripod microscope, grey shagreen outer body; a few fittings in case
- 150 A similar microscope, covered in red shagreen; the entire eye-piece is missing; with a few fittings in case (A.F.)

- 75/ 151 Another, similar, quite perfect ; with a few fittings in the drawer
- 51 152 Another, similar, the outer body covered in red leather with gold designs ; brass inner body ; no case
5. 153 Another, the outer body covered in red shagreen, by J. Cuff ; a few fittings in the drawer of the base ; no case
- 70 154 Another, in which the compound body screws up and down to focus, mounted on a square wooden box base
- 757- 155 Another tripod microscope, the outer and inner body both of box wood ; on octagonal box foot, in the drawer of which there are a few fittings
- 156 A Culpeper form of tripod microscope ; outer body covered in black leather ; on octagonal box foot
- 157 A tripod form of microscope, all brass
- 70 158 A tripod microscope, outer body in grey shagreen ; on octagonal box foot ; with a few fittings
- 159 Another tripod microscope, on octagonal box base, the outer body covered in grey shagreen ; there are a few fittings in the drawer of the box foot
- 75 160 A tripod microscope, brass outer body, with rack adjustment ; on square box base
- 70 161 An original Culpeper tripod microscope ; the outer body covered in grey shagreen
- 162 A Culpeper tripod microscope, the compound body being of brass, the eyepiece end in wood, fitted on an octagonal base ; on the instrument is engraved Dr. Demainbray
4. 163 An interesting old microscope, on brass stand, with wooden compound body and screw focusing ; it is inscribed Guileo Architelle Idranbier Invent e Feci
- 164 A similar microscope, all brass, with wooden base ; no inscription
- 165 A pocket drum microscope, the outer body covered in red shagreen, signed B. Martin, London
- 166 A pocket drum microscope, smaller ; the outer body covered in green shagreen
10. 167 G. Adams' universal microscope (1746), black ivory body, 8 powers, tripod folding foot, on the upright stem is engraved, " Made by G. Adams, in Fleet Street, London " ; the whole enclosed in a black fishskin case, which contains a number of fittings

24. 168 A very fine and improved form of the above microscope, the compound body being covered in green spotted fishskin; it is fitted with a rotating wheel of 8 different powers; the stage is a micrometer one, and has movements in both directions; the instrument is mounted on 2 brass scrolls, and it can be inclined; when used in a vertical position it is secured by a spring, which has to be released when the instrument is to be used in an inclined position; the fine adjustment is actuated by 2 geared bevelled wheels at the base, moving a rod attached to the stage; the instrument is signed, "Made by George Adams, Math: Inst. Maker to His Royal Highness The Prince of Wales"; fitted on a wooden base, with 2 drawers containing a number of fittings

275. 169 A magnificent silver Universal microscope, of very elaborate construction, signed on the edge of the objective-holder, *Made by G. Adams, in Fleet Street, London*; the compound body, of elegant proportions, fits into a collar in the centre of a silver wreath, which is supported by 2 allegorical female figures; the whole upper part rests on a fluted Corinthian pillar, rising from a square decorated base, resting on a decorated crosspiece, raised by 2 similar crosspieces placed at right angles to it, thus forming the feet; there is a frog-plate, a bull's-eye stage condenser, with a curious Hooke's joint and ball-and-socket movements; the whole is contained in a beautifully shaped Chippendale case, and is in a perfect state of preservation

(See ILLUSTRATION, *Frontispiece*.)

5- 170 A microscope, with a curious method of inclination, and an early form of direct-acting screw fine adjustment, which moves the body; on a box base; the instrument is inscribed, *F. Villette a Liege*

8. 171 A microscope, of unusual design, with a rotating triple nosepiece carrying 3 objectives, and fixed on an oval decorated wooden base, with drawer; the instrument is inscribed, *Invt: et Fecit G. V. Schleenstein a Cologne*

10. 172 A fine example of the original form of dissecting microscope, devised by Lieberkuhn, and made by Mitsdörffler, of Berlin, circa 1750; it is fitted with a number of adjustable brass hooks, to hold the object under examination; on a brass tripod stand, with ball-and-socket movements

(See ILLUSTRATION.)

173 Another form of Lieberkuhn's dissecting microscope, with curious spring adjustment for focusing; no stand

See No
16087
O no

- 557-174 | A smaller form of the above, and 2 others ; no stand
- 70/- 175 | The remainder of the valuable catalogue, containing voluminous notes, illustrations, and descriptions of the more modern part of this celebrated collection, the earlier part never having been catalogued in detail

GERMAN WOODEN MICROSCOPES,

made by the Toy Makers of Nuremberg, circa 1750-1780.

- 50/- 176 | Two wooden hand microscopes
- 60/- 177 | Two tripod wooden Nuremberg microscopes, fitted with mirrors, one stamped with M in a circle, and the other $\frac{1}{2}$ " in a heart-shaped shield
- 60/- 178 | Two ditto, but with box bases, one marked M in a circle, the other bears no mark
- 60/- 179 | A modern wooden microscope, and a tripod microscope, marked M
- 75/- 180 | A Nuremberg microscope, with fine adjustment, mounted on a single pillar ; and another, with drawer
4. 181 | A fine Nuremberg microscope of the best kind, on rectangular box base, compound body, supported by 2 parallel arms, I * S in oval stamped on base
4. 182 | A ditto, larged stamped M.I. in circle
- 183 | Two others, smaller ; no marks
- 357- 184 | A Nuremberg imitation of an old form of microscope ; and a wooden microscope, with draw tubes
- 50/- 185 | A German wooden microscope ; the rack moves the stage ; on square box base ; an interesting 18th Century microscope, and scarce

JAPANESE MICROSCOPES.

- 70/- 186 | A modern imitation of a tripod microscope, the outer body richly decorated with gold designs, the mounts being of horn and lacquer ; this is quite modern, but interesting, as being made in Japan by Japanese workmen
- 65/- 187 | A ditto, smaller, with metal mounts, and one slider

TELESCOPES, Etc.

- 188 A curious artificial eye, on brass tripod stand
- 189 A reflecting Gregorian telescope, on brass tripod stand, by B. Martin, London
- 190 A reflecting Gregorian telescope, outer body covered with green shagreen, on brass tripod
- 191 A small reflecting Gregorian telescope, by T. Ribright, London, in case
- 192 A prismatic reflecting instrument, on square black wooden base

MICROSCOPES

of later dates, principally of brass, circa 1740-1835.

- 193 An old brass microscope, on tall upright pillar rising from a flat tripod, foot stage adjusting by rack, no case or accessories
- 194 A brass microscope, by Brander, inclining on the top of a pillar, circular base, no case or fittings
- 195 Curious microscope with wooden body, adjustments by rack, on wooden box foot, with drawer for fittings
4. 196 A brass microscope, by Brander and Haschel, on flat tripod foot, no case or accessories
- 197 A curious old microscope, not signed, but probably by Benjamin Martin
5. 198 A brass microscope, with curious long lever adjustment which moves the stage; a very scarce form of microscope, but probably a copy of an older instrument
4. 199 A microscope with catgut focusing to stage
- 200 Another microscope with catgut adjustment to stage; rare and scarce form
- 80/ 201 A microscope of unusual form, mounted on double pillars, rack adjustment which moves the body, the mirror can be adjusted backwards or forwards
557. 202 A French microscope, by Lerebours à Paris, on wooden base, with rack adjustment; scarce and interesting type of instrument
- 557- 203 Old microscope, the body mounted on a scroll transverse arm, with rack adjustment to stage

- 457 204 A microscope with Cuff's form of fine adjustment, by Brander ;
no case
- 357 205 A small portable microscope, in inlaid case ; a scarce form
- 807 206 A curious old microscope with oval wooden stage ; stamped on
the stage is : " Fecit J. R. Oppelt, Opticus à Anspach " ; on
wooden box foot ; interesting and very rare type of micro-
scope
- 557 207 Small and scarce form of microscope, with concealed coarse rack
adjustment moving the body, an early example of this
feature, on wooden box, with accessories, in a drawer
- 607 208 Rare and curious type of portable microscope, on wooden box
base, with drawer for fittings under ; this has a curious
form of fine adjustment which is very uncommon
- 707 209 Curious 3-pillar microscope, with unusual form of frog plate, on
wooden box with apparatus
- 707 210 Another curious tripod microscope, both upper part and box
ornamented
- 757 211 A microscope of unusual construction, both the compound body
and stage can be adjusted by rack ; a combination rarely
found in a microscope
8. 212 An extremely interesting old microscope, both body and stage
are supported by 2 pillars for focusing, stage moves up or
down, sliding in grooves, cut in the pillars by a lever acting
on 2 rods to which the stage is connected, this lever being
moved by a knob placed in the front of a turned wooden
box base, with drawer for fittings ; very rare and probably
unique
- 707 213 An early drum-shaped microscope, on an inlaid wooden base, with
drawer for fittings ; the mirror is a silvered convex lens
6. 214 A beautifully made brass microscope, of the Culpeper-Scarlett
tripod form, fitted on a carved box base with drawer con-
taining the accessories ; this microscope is very complete
and was made by George Sterrop, whose instruments are
now rare as he died comparatively young ; he had a
European reputation for his microscopes
4. 215 A brass microscope, signed J. Cuff, Fecit, with micrometer applied
to the eyepiece, on mahogany base, with drawer and some
accessories, no case
- 707 216 Another, signed J. Cuff, Fleet Street, no case, but a number of
accessories, in drawer of box foot

- 657- 217 Another, signed J. Cuff, no case, but a number of accessories in the drawer
- 218 Another, Cuff model, not signed, and no accessories
- 701- 219 Another, by Benjamin Cole, 136, Fleet Street
- 220 Another, Cuff model, but with rack adjustment to stage, and no fine adjustment, no case
- 657- 221 Another, Cuff model, with side rack adjustment to stage, with accessories in drawer, by Dollond
- 657- 222 A modified form of Cuff's microscope, by Mann and Ayscough, in case, with fittings
5. 223 Beautifully made microscope, after Cuff's design, on an inlaid wood box foot, with 2 drawers containing accessories; this beautifully made instrument was constructed by the celebrated French optician, Passemant Ingenieur du Roi au Louvre; very rare
- 657- 224 Modification of Cuff's microscope, made inclinable, in case, with Solar fitting and other apparatus, by Dollond
- 601- 225 Ditto, as made by Pyfinch, inclining by a joint at the base of pillar on box foot, which contains the accessories, no case
- 557- 226 German form of Cuff's microscope, with mahogany base, with drawer and accessories
- 601- 227 Scarce model of Cuff's microscope, of foreign origin, on wooden base
- 701- 228 Fine old chest microscope, by Nairne, London; quite complete
- 601- 229 Ditto, by Dollond, nearly complete
- 501- 230 Ditto, by Nairne (faulty); and another, by Dollond (case defective)
- 557- 231 A chest microscope, by D. Adams, complete
- 232 Ditto, by Nairne and Blunt, nearly complete
- 657- 233 A chest microscope of foreign make, fitting into a square hole on a brass plate fixed in the bottom of the box; a very rare and curious form of attachment
- 501- 234 An 18th Century microscope, by D. Adams, on mahogany base, drawer with fittings
- 501- 235 A microscope, by Meredith, New Bond Street, in case, with accessories

10.

236

Scarce and curious old microscope, which closely resembles the variable, made by G. Adams, *circa* 1771; this instrument is dated 1772; it has 3 powers fitted to a curious sliding nosepiece, no case or other accessories

237

A microscope, signed Dellebarre, 1793, no case or accessories; this type of microscope was invented by Dellebarre in an attempt to improve the microscope by correcting the aberrations; in practice, however, it was found not to be satisfactory

238

Another, signed à Dellebarre, 1806, bears the inscription, Onderdenyngaart Canzuis Confecit Delft, with flat folding tripod foot

239

Another, not signed; no accessories or base

240

Another, ditto

241

Another, ditto

242

Another, ditto

243

Another, ditto

5.

244

A curious and rare form of drum microscope; can be used either as a compound or solar microscope, in ornamented case, with drawer under, containing a large number of slides and accessories; extremely rare form, and very complete

245

Another, stand only, no solar attachment, case, or accessories

75/

246

An interesting and scarce microscope, rack adjustment moving the stage, fitted with a candle holder, and stage divided into squares; 2 drawers, in box base, containing slides and fittings, signed Tiedemann

5.

247

Polished mahogany cabinet, containing a very fine microscope with solar attachment, and drawer under, containing apparatus, by Dollond; very fine and scarce optical outfit

70/

248

Semi-portable microscope, by Dollond, on shaped tripod foot; in case, with drawer containing a number of accessories; the design of this microscope is very curious in many respects

8.

249

Microscope, of unusual form, signed on base, Officina Gottlo Stegmanni; a scarce type of instrument

4.

250

Microscope, on wooden box, with drawer for fittings, with square mirror; rare, perhaps unique

50/

251

Small microscope, signed P. and J. Dollond, probably made by Benjamin Martin for the Dollonds; very scarce

- 252 | Microscope, with rack adjustment to body, tripod legs folding downwards
- 40/ 253 | An old microscope, with ornamented tripod feet ; scarce form
- 50/- 254 | A microscope, fitted with curious mirror movement on crank arm, so that it can be used either under or over the stage
- 25- 255 | Massive microscope, of unique design, constructed by Kleman, of Amsterdam ; this extraordinary microscope has an eyepiece, of which the field lens is nearly 5in. in diameter, the body is conical, and about 24in. in length ; the stage racks for focusing the mirror is not attached to the body, but on a separate base, and can be used independently of the microscope ; there is a solar attachment, with mirror, so that it can be used as a solar microscope when required ; it is mounted on a tall pillar, fitted to a tripod with shaped legs ; the whole contained in a large cabinet, in the drawer of which is an extra stage and other accessories ; this microscope is probably unique
- 256 | Oberhauser form of drum microscope, in case (broken) ; and a tripod microscope (faulty)
- 61 257 | An unusually tall and fine example of an early 19th Century Culpeper form of microscope, with all fittings, in pyramid-shaped mahogany case
- 258 | Small pocket microscope, in case, by Cary ; and parts of another microscope
- 55/ 259 | Beautifully made early 19th Century achromatic portable microscope, by Plassel ; complete in case with accessories
- 260 | A stand only, no fittings or objective, of Chevalier's best horizontal achromatic microscope ; a very fine instrument, but unfortunately all the accessories are wanting
12. 261 | A large microscope, of very unusual form, with folding tripod feet, by Dollond ; this remarkable microscope is fitted : 1st, with an oil lamp, swinging in gymbals, attached to the tail piece ; 2nd, a peculiar screw movement to the stage ; 3rd, the screw adjustment fitted to the eyepiece. This is a very rare and unusual combination to find in any microscope ; it is certainly very rare
- 262 | A rare and early type of reading microscope with table clamp and rod fitting, in case
- 263 | Portable microscope which screws into the base of the box, an interesting and complete microscope of a scarce form
- 264 | Folding tripod microscope, by Nobert, with curious wheel micrometer adjustment ; no case or objective

557-265 Tripod microscope, with feet folding downwards, rack adjusting stage, and adjustable mirror ; an interesting form of French microscope

60-266 Microscope, on wooden box foot, the body being mounted on top of a pillar, which can be inclined ; fitted with drawer, which contains accessories ; probably of French make, and scarce

357-267 Jones' improved form of microscope, rack adjusting stage, many accessories in box foot, by Bate

657-268 A rare form of microscope, by Dollond, rack adjusting stage, with steadying rod

269 Folding tripod type of microscope, in case, complete with fittings, by G. Adams ; a very nice example of G. Adams, Junior, work

557-270 Tripod microscope, on circular wooden base, with sliding adjustment, in case

271 Jones' improved form of microscope, in mahogany case, with under drawer for fittings

272 Small flat tripod microscope, with rack adjusting stage ; and another, on circular wooden base

7-273 Rare and unusual type of microscope, with steadying rod, and ivory scale attachment for direct comparison of measurements ; this very interesting microscope is probably unique ; it bears the name of P. Carpenter on the base

8-274 Brass inclining microscope, very complete, in polished case, the lid richly inlaid with mother-of-pearl, with drawer under, containing a large number of slides, by Cutts

457-275 Portable microscope, in case, by Adams

50-276 Double pillar microscope, probably French, on mahogany base ; and another Jones' most improved type

357-277 Small brass microscope, in case, by W. & S. Jones ; and another, by Dennis

357-278 Portable microscope, by Francis ; and a brass 19th Century Culpeper type of microscope

257-279 A fine example of Dr. Goring's Aplanatic Engiscope ; this extremely rare form of early achromatic microscope is particularly interesting as being the original model bought by the late Sir Frank Crisp from the son of the maker ; it bears the inscription on the tripod foot, W. Brittan, optical instrument maker ; only one other example is at present known, that at the Science Museum, S. Kensington ; the sheet from the Crisp Catalogue describing the instrument is included

- 280 Reflecting microscope, Amici form, no accessories ; very scarce, only a few of such instruments now being in existence
15. 281 A beautifully made example of the Amici horizontal achromatic microscope, with various adjustments not generally found in this type of instrument ; this is no doubt due to the fact that it was Professor Amici's own working microscope, purchased by the late Sir Frank Crisp from Professor Golfarelli Officina Galilao, of Florence, who had it direct from Amici's heirs ; the sheet from the Crisp catalogue giving full details is included
4. 282 A rare and curious microscope, fitted with an ivory wheel to hold 51 objects ; this early form of museum microscope was made by T. Winter, who worked for the trade
4. 283 A similar microscope, but of a simple form, signed T. Winter ; both forms are now very scarce
75. 284 Scarce form of drum microscope, with curious rotating wheel object carrier
- 285 An upright microscope, by Adams, on folding tripod foot
- 286 Most improved microscope, by W. & S. Jones, has a curious movement in arc by rack acting on stage ; very scarce
- 287 Inclining brass microscope, rack adjustment, on triangular bar
- 288 Small microscope, with fine adjustment to stage, on wooden base, with fittings ; and a small ditto, with folding feet, no case
4. 289 Museum microscope for 10 objects, with eyepiece and objective, on round brass base
- 290 Brass microscope, by Chevalier, on rigid tripod foot, no objective
- 291 Two brass microscopes, one defective
- 292 Small microscope ; and another (faulty)
- 293 Student's microscope, Pritchard form, fitted with an early form of fine adjustment
- 294 Folding tripod foot microscope, with early form of direct acting, fine adjustment ; probably French
4. 295 Brass microscope, with curious compound body, by Crickmore of Ipswich
- 296 An inclining rack adjusting microscope, on block wooden base ; and another, in case
- 8 297 A very elaborate compound microscope, and a large number of accessories, forceps, etc., by G. Adams ; this appears to be an improved form of the variable, 1771 ; very rare

- 298 A very complete compound microscope, by Dollond, with numerous accessories ; very rare
- 299 Microscope, in case, 2 eyepieces, no objective
- 300 Portable microscope, with numerous fittings, in case, by Huntley
- 301 A small portable microscope, by Watkins & Hill ; and another, by F. Watkins (defective), no case or fittings to either
- 302 Jones' most improved microscope, by Dollond, in case, with fittings
- 303 Early 19th Century French microscope, in cardboard case, with accessories
- 304 A very complete portable microscope, with tripod folding feet inclining in case, with fittings
- 305 Single pillar brass microscope, in mahogany box foot, which contains accessories
- 306 Portable microscope, with folding feet, in mahogany case, with fittings
8. 307 | A very elaborate and complete improved opaque and transparent compound microscope, with a multiplicity of expensive accessories ; a remarkable example of a high-class early 19th Century microscope ; very scarce in any condition, and probably unique in its present state of preservation
- 308 Another similar, but nearly all the fittings are missing, and the case is defective
- 309 Brass microscope, on folding tripod foot, with a few fittings in case, which is slightly defective
- 310 Portable microscope, Jones' most improved form, with fittings, in case
- 311 Portable microscope, by Dollond, Jones' improved form, fitted in case
- 312 A microscope, on tripod foot, by A. Pritchard, with some fittings ; and another (faulty)
- 313 Microscope, rack adjusting, with folding tripod foot, in case
- 314 Jones' most improved microscope ; in addition to the usual fittings there is a compass microscope fitted into the case
- 315 Portable microscope, with fittings, in case, by Cary
- 316 Ditto, by Dollond

- 317 Portable microscope, with folding feet, in case, complete with accessories
- 318 Youth's drum form of microscope, in mahogany case, with accessories, complete
- 319 Portable microscope, in case (faulty)
- 320 Portable microscope, T. Harris & Sons, in mahogany case, with fittings
- 321 Pocket microscope, with folding foot, by Duncan, Aberdeen, in case
- 322 Beautifully made silver-plated pocket compound microscope, by Sphere, of Dublin ; complete with all accessories, in case
- 323 Flat tripod microscope, in case, fitted with drawer, and some fittings by Pritchard
- 324 Portable microscope, in polished mahogany case, with accessories, by Crichton, London
- 325 Small portable microscope, in case ; and 2 other hand microscopes
- 326 Microscope, with folding foot, and a drum form of microscope
- 657- 327 Curious microscope, signed Brock, invent Fecit
- 328 Inclining microscope, by Abrahams
- 329 Two old microscopes, 19th Century
- 330 Two small pocket microscopes
- 601- 331 Curious portable microscope, by Francis
- 332 Two early 19th Century microscopes (1 fitted with a wheel of powers)
- 333 Antique microscope, on mahogany base, with drawer and accessories, by Dixey
- 657- 334 Antique microscope, by Lincoln, London
- 335 Brass microscope, early 19th Century, on circular base, with triple objective ; and a small hand microscope
- 336 Brass Culpeper type of microscope ; and another, on circular base
- 337 Horizontal microscope, by Chevalier (faulty) ; and another, by Cary

OPTICAL CABINETS, SOLAR AND PROJECTION MICROSCOPES.

- 338 A beautifully made optical cabinet, containing a brass microscope, a solar microscope, covered in green shagreen, a telescope, ditto, and other fittings; the whole, contained in a mahogany cabinet, is in a beautiful state of preservation, and very rare
- 339 A large optical cabinet, in black fishskin, containing a compound microscope; a solar microscope; and numerous other fittings; in perfect condition, and very scarce
- 340 A smaller cabinet, which contains a microscope and fittings only
- 341 A very large and complete optical cabinet, containing a compound microscope; solar microscope; and a large number of other fittings; fishskin case
- 342 Another, similar, incomplete; contains the solar microscope only
- 343 John Cuff's first form of solar microscope, wooden base board
- 344 Mann & Ayscough's modification of Cuff's solar microscope, 1743; no case or fittings
- 345 An interesting early type of solar microscope; signed O. N. Degerman, Fecit 1756
- 50/- 346 A curious wooden solar microscope, decorated body tube, wooden rack rotation, probably made at Nuremberg; very scarce form
- 60/- 347 Another interesting form of solar microscope (no mirror); and parts of another
8. 348 An extremely rare and interesting form of solar microscope; on the top of a turned circular wooden base is an allegorical male figure, which supports by his uplifted arms the body tube of the instrument, to which is screwed a circular plate, and the adjustable circular mirror; both this plate and the mirror are engraved; the mirror is rotated by a projection placed on the front of the figure; probably unique
- 349 A small solar microscope, by Ramsden; and a ditto, by Adams; both faulty
- 350 An early form of solar microscope, on oak base board
- 351 A brass microscope, of foreign make, in case, with decorated handle and keyplate, complete
- 352 A nicely made brass solar microscope, with fittings, in mahogany case

- 353 A small solar microscope, by George Adams, with fittings, in case
- 354 A solar microscope, with wooden base and curious focusing adjustment, probably of French origin, and a very scarce form
- 355 A solar microscope of brass, by Cuff, in case
- 356 A solar microscope of brass, with rack adjustment, in case
- 357 A large brass solar microscope, with a sliding bar of powers, fitted for both opaque and transparent objects, by W. & S. Jones; no case
- 358 A brass solar microscope, in mahogany case, by Yates, of Dublin (scarce maker)
- 359 A large and uncommon form of solar microscope, signed, "Made by B. Martin, Fleet Street, London," in mahogany case, with part fittings
- 360 A solar microscope in brass, by Sterrop (scarce maker), in case
- 361 A small solar microscope, fitted to a mahogany scioptric ball
- 362 A large brass solar microscope, by W. & S. Jones, with part fittings, in case
- 363 A beautifully made and very complete solar microscope for both opaque and transparent objects, by G. Adams; in fine condition, very rare
4. 364 A solar microscope, of unusual form, with interesting rough cut rack adjustment to mirror; probably of Italian origin
- 365 A Lucernal microscope, by W. & S. Jones, fitting on to the mahogany case when in use with two adjusting rods; and a number of other fittings
25. 366 A magnificent combined Lucernal and compound microscope, of very unusual design; it bears the inscription on the body tube, "Adams, Inventor, London"; it is intended to be used: (1) as a Lucernal microscope; (2) as a projection microscope; (3) as a compound microscope; the body tube is 7in. in diameter and 24in. long; an extra mahogany case contains a very large number of accessories, including various condensers and 2 additional stages; 15 object-glasses of various powers form the optical battery; only one other of this type of microscope is known—viz., that in the Science Museum, at South Kensington (Court Collection)

(See ILLUSTRATION.)

70 - 367

A Lucernal and compound microscope, of very unusual design, mounted on a square mahogany base with feet ; very rare, perhaps unique

64 - 368

A Lucernal and compound microscope, with conical-shaped brass body and swinging tail piece, fitted with 2 condensing lenses ; a very rare form

369 A curious old microscope, of very unusual form, in mahogany case, with a few fittings

370 A microscope stand, with a conical-shaped wooden photographic attachment, no dark slide, by Chevalier

371 Part of an old solar microscope ; no fittings or case (A.F.)

END OF SALE.

