

Sales catalogue: Stevens

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MS. Duplicate.
Phone : Gerrard 1824.

Duplicate
Amel
NOV 12th 1920
[VV]
Entered
(S)
Sale No. 13,221.

Sale to commence at **12.30** o'clock.

FRIDAY, NOVEMBER 12th, 1920.

WA 14MM/CM/521/
A CATALOGUE OF 21/833/1

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of
MICROSCOPES and ACCESSORIES,
formed by the late Sir Frank Crisp, Bart. ;

Valuable Cameras and Lenses,
by first-rate makers ;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,
No. 38, King Street, Covent Garden, W.C. 2,
On **FRIDAY, NOVEMBER 12th, 1920,**
At **12.30** o'clock.

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address : **AUKS, RAND, LONDON.**

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill. S.E. 23.

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.

** * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

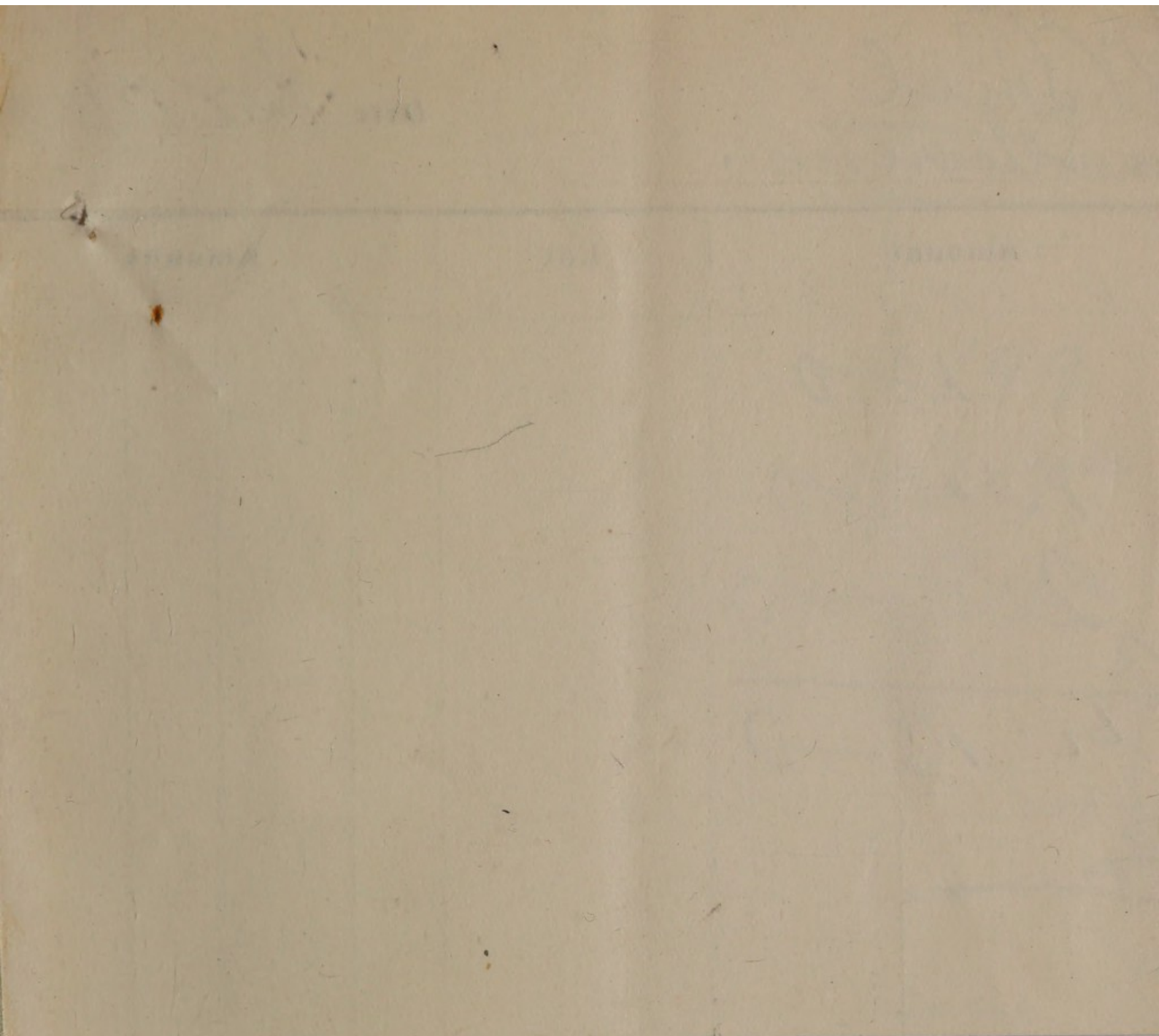
NO LOTS WILL BE TRANSFERRED.

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.



BUYER

J. W. Buel

Date

Nov. 12/20

AUCTIONEERS

Stevens.

Lot	Amount			Lot	Amount		
	£	s.	d.		£	s.	d.
199		18	0				
207 ^a		1-15	0				
316		2	00				
<div> <i>[Signature]</i> </div>							
		4-13	0				

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot

- 1 Handsome papier-mâché writing box,
inlaid with pearl
- 2 Pair of handsome bronze vases with figures
on marble stands, with liners
- 3 *An 18-carat gold chronometer watch*, by
Sharp, Dublin, in case ; in going order
and regulated
- 4 Mark V. aircraft watch, highest grade,
detached lever, 15-jewel movement,
Breguet spring, non-magnetic compen-
sated balance, 3 positions synchronised,
with dashboard holder or for pocket ;
guaranteed perfect
- 5 Ditto, less holder
- 6 An 8-day fully luminous Mark IV. A.,
ditto, same specification
- 7 An 8-day non-luminous ditto
- 8 Coney seal coat, as new
- 9 Ditto

- 10 Coney seal coat with skunk opossum collar
- 11 Six gramophone motors, complete with turntable and winding key
- 14 Hornless gramophone with lid and doors, in perfect condition
- 15 Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
- 16 Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
- 17 Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
- 18 Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
- 19 Microscope, rack and fine adjustment, 2 powers, in case
- 20 Plated tray and 2 ditto boxes
- 21 Two lady's umbrellas
- 22 Six spoons, 6 forks and tea tray
- 23 Pair of photo frames
- 24 Six knives, 6 forks and 6 spoons
- 25 Set of 5 aluminium saucepans with lids
- 26 Electric battery with fitting in mahogany case, perfect order and condition
- 27 Binocular microscope in mahogany case, with eyepieces, objectives, etc.
- 28 No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
- 29 Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
- 30 No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
- 31 Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
- 32 Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

- 33 A large collection of stamps in improved album
- 34 Two albums and quantity of stamps
- 35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc.; a useful lot
- 36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
- 37 Oil painting in gilt frame—"Shipping "
- 38 Three large water-colour drawings, framed
- 39 Five small ditto
- 40 Oil painting in gilt frame and a pen and ink drawing
- 41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
- 42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770 "
- 43 Another—"Bay Malton beating Gimcrack "
- 44 A coloured oval in sepia—Duchess of Devonshire, 1782
- 45 Coloured engraving—"Attacking the Fortress," by Lucas
- 46 Circular coloured engraving—"The Harvester," by H. Mole
- 47 Coloured engraving—"The Farmer's Boy "
- 48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
- 49 Oil painting—Landscape with Herdsman and Cattle
- 50 Another—"Birds "
- 51 Another—Portrait of a Gentleman
- 52 Another of an Artist
- 53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
- 54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

- 55 Thornton-Pickard $\frac{1}{2}$ -plate camera, slides, stand and case
- 56 A 10 by 8 copying camera, 2 slides
- 57 Billcliffe midget camera, lens and stand
- 58 Billcliffe vertical enlarger with condenser
- 59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case
- 60 Twenty-four printing frames, $\frac{1}{2}$ -plate
- 61 Six lenses
- 62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack
- 63 Goerz-Anschutz 5 by 4 focal plane folding camera ; the favourite pressman's model fitted with Goerz Dagor 6.8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes ; in leather case
- 64 A $\frac{1}{4}$ -plate folding camera with Rodenstock aplanat 7.7 lens, film pack adapter, 3 metal plate-holders ; canvas case
- 65 A 5 by 4 Ray camera, Beck Isostigmat lens F/5.8, six slides and leather case
- 66 No. 3 folding pocket Kodak, $\frac{1}{4}$ -plate, for roll films, rapid rectilinear lens, T.B. and I. shutter ; good condition
- 67 Ensign $\frac{1}{4}$ -plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet
- 68 No. 1A folding pocket Kodak, closed front model, black bellows
- 69 Pair powerful field-glasses, in case
- 70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses
- 71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*
- 72 Fine 10-lens leather-covered powerful field-glasses, in tan case

- 73 Fine 3-draw leather-covered telescope with case
- 74 Small microscope in case
- 75 Fine student's microscope with $\frac{1}{4}$ -in. and $\frac{1}{2}$ -in. objectives, 2 eyepieces, bull's-eye condenser; in mahogany case, splendid order
- 76 A pair of powerful field-glasses
- 77 Strong 4-fold wooden tripod with top
- 78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model
- 79 No. 3 Cartridge Kodak $\frac{1}{4}$ -plate for roll films or plates, double extension, Goerz anastigmat lens F/6.8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model
- 80 No. 3 folding Brownie $\frac{1}{4}$ -plate for roll films; as new
- 81 A $\frac{1}{4}$ -plate magazine camera
- 82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter; leather case
- 83 Vest pocket Kodak, fine 6.9 anastigmat lens; just cost £6
- 84 Twelve No. 1 Brownie spools; date just expired but quite perfect
- 85 Small powerful telescope
- 86 No. 1 box Brownie with view finder
- 87 No. 1 Ensignette in case, as new
- 88 Vest pocket Kodak with fine F/6.9 anastigmat lens in case
- 89 *Postcard and 10 by 15cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/4.5, 6-in. focus, compound shutter, 2 slides and film pack adapter*
- 90 Shew folding Eclipse $\frac{1}{4}$ -plate camera, fine rapid rectilinear lens, 3 double dark slides
- 91 Fine compound microscope with 2 objectives, in mahogany case
- 92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5.7, speeded shutter, leather case

- 93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6.3, speeded shutter
- 94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6.3, leather case
- 95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6.3, focal plane shutter
- 96 A $\frac{1}{4}$ -plate folding camera, double extension Goerz Dagor lens F/6.8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter
- 97 No. 3 folding Kodak $\frac{1}{4}$ -plate, very late model; fine condition
- 98 A $\frac{1}{4}$ -plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$ -plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case
- 99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit
- 100 Carbine $\frac{1}{4}$ -plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter
- 101 Goerz Dagor anastigmat lens, F/6.8, 6-in. focus in automat fully speeded shutter
- 102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case
- 103 Fine lens for $\frac{1}{2}$ -plate enlarger
- 104 Hume's $\frac{1}{4}$ -plate Cantilever enlarger for artificial light, with illuminant
- 105 A No. 3 folding pocket Kodak for $\frac{1}{4}$ -plate roll films
- 106 Holborn $\frac{1}{4}$ -plate magazine camera, fine F/7.7 lens, for 12 plates
- 107 A No. 2 folding Kodak for $3\frac{1}{2}$ -in. square pictures (lantern slide size), in leather case

- 108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$ -in. objectives and 2 eyepieces, in mahogany case
- 109 A Negretti & Zambra's $\frac{1}{2}$ -in. oil immersion microscope objective
- 110 A Zeiss *Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$ -plate with carriers, Zeiss Tessar lens, F/4.5, focal plane shutter, 3 double dark slides, and folding pack adapter
- 111 A No. 2 Brownie box-form camera and canvas case
- 112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter
- 113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6.8, speeded shutter
- 114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front
- 115 A No. 1 box Brownie view finder and a canvas case
- 116 A vest pocket Kodak in leather case
- 117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter
- 118 Pair of powerful field-glasses in case
- 119 Pair of Lemaire binoculars in leather case
- 120 A No. 1A folding pocket Kodak, late closed front model, black bellows
- 121 A magazine camera, $\frac{1}{4}$ -plate, fine lens, magnifiers, etc.
- 122 A ditto
- 123 Benetfink's lightning $\frac{1}{4}$ -plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new
- 124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case
- 125 A 8A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case
- 126 Toy microscope in case
- 127 A Beck compound microscope, $\frac{1}{4}$ -in. and 1-in. objectives, eyepiece, and case

- 128 Two boxes microscopic slides, about 150
assorted subjects
- 129 Two small single lenses
- 130 A Ross Goerz double anastigmat lens,
F/6.8, in fully speeded unicum shutter,
5in. focus
- 131 400 P.O.P. postcards
- 132 400 ditto
- 133 400 ditto
- 134 400 ditto
- 135 400 ditto
- 136 400 ditto
- 137 Five $\frac{1}{4}$ -plate Goerz film packs, dated Feb.
1921, cost 22/6
- 138 Six 9 by 12cm. Goerz film packs, cost 34/-
- 139 Six ditto
- 140 Six ditto
- 141 Six ditto
- 142 Stereo Weno stereoscopic roll film camera,
full size, fine rapid rectilinear lens, leather
case ; practically as new
- 143 Small microscope in case, old fashioned
but very effective
- 144 Photo Jumelle $3\frac{1}{2}$ by $2\frac{1}{2}$ Stereoscopic Co.'s
magazine camera, fitted with Krauss
Zeiss Tessar lenses, F/6.3, in tan leather
case
- 145 Watson's 6x prism binoculars, eyepieces
separate focusing, bending bar, leather
case
- 146 Fine pair Hunsicker & Alexis prism
binoculars, 8 magnification eyepiece
focusing, tan leather case
- 147 Negretti & Zambra's 8x stereo prism
binoculars, central focusing, eyepiece
adjustment, leather case ; fine
- 148 A Richard's glyphoscope stereoscopic
camera, complete with 12 slides and
leather case
- 149 A Thornton-Pickard Ideal $\frac{1}{4}$ -plate folding
camera, fine lens, 2 slides, and case
- 150 Nine Thornton-Pickard $\frac{1}{4}$ -plate single
slides
- 151 A $\frac{1}{4}$ -plate magazine camera for plates

- 152 A metal telescopic tripod
- 153 A $\frac{1}{4}$ -plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens
- 154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new
- 155 Polished walnut stereoscope on stand, with coloured and other views
- 156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder
- 157 Fine $\frac{1}{2}$ -plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod
- 158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new
- 159 *Ensign Popular Pressman Reflex $\frac{1}{4}$ -plate, double extension, Ross Xpress lens, F/4.5, focal plane shutter, and 6 single slides*
- 160 Holborn Ilex magazine camera, $\frac{1}{4}$ -plate focusing model, Aldis Plano anastigmat lens, F/6.8, speeded shutter, brilliant finders, in splendid condition
- 160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

- 161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$ in., and $\frac{1}{2}$ in., stage forceps, live box and stage bull's-eye condenser, in case
- 162 Beck $\frac{1}{4}$ in. objective for use with binocular
- 163 A ditto $\frac{1}{2}$ in. ditto
- 164 A ditto $\frac{1}{8}$ in. (immersion) ditto

*£14.10.0
Lewis*

- 165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$ in., $\frac{1}{4}$ in., and $\frac{1}{8}$ in. oil immersion *16/10/0 Young*
- 166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case *357-Wilson*
- 167 Swift portable binocular, 2 eyepieces, spot lens and polariscope *Q.95-?*
- 168 Swift spot lens with centering adjustment
- 169 Watson projection eyepiece
- 170 Gundlach $\frac{1}{16}$ in. immersion objective, with correction collar
- 171 Watson $\frac{1}{2}$ in. oil immersion for metallurgical work
- 172 Wray $\frac{1}{4}$ in. objective
- 173 Triple nosepieces
- 174 Micro lamp in case
- 175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{2}$ in. oil immersion *28/1- West*
- 176 Blood counter, after Thoma
- 177 Zeiss projection eyepiece
- 178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case *11/10/0- Young*
- 179 Zeiss apochromatic objective, 1.5mm. oil immersion
- 180 Compensating eyepiece by Baker
- 181 Zeiss 16mm. apochromatic objective
- 182 A No. 12 compensating eyepiece
- 183 Abbé condenser with iris diaphragm
- 184 Zeiss 4mm. apochromatic, with correction collar

- 185 Zeiss condensing lens, with iris diaphragm, in gimbals
- 186 A 3-in. objective by Ross
- 187 Dollond student microscope, rack coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser on stand, complete in case *80/- West*
- 188 Dissecting microscope with rack, 3 lenses, turntable, erecting eyepiece and triple objective, complete in case *35/- Wilson*
- 189 Micro lamp, complete in case
- 190 Swift student microscope, rack coarse and micrometer fine adjustment, racking and centering sub-stage with Abbé condenser and iris, double nosepiece, 2 eyepieces, $\frac{3}{8}$ in. and $\frac{1}{4}$ in. objectives, sliding polariscope in body, and swing out analyser *£18.0.0 Clarks*
- 191 Box of rock specimens in 4 trays, by Gregory
- 192 Blood counter in case
- 193 Microscopic air pump, complete with bell, on stand *12/- King*
- 194 Crouch monocular microscope, rack coarse and micrometer fine adjustment, eyepiece, 1 in. and $\frac{1}{4}$ in. objectives *6½/- West*
- 195 A 3½-in. telescope by Tulley, finder and steady rods, 1 day, 2 astro eyepieces, with equatorial head, in case, and tall outdoor stand
- 196 Equatorial head on tall outdoor stand
- 197 Cooke's sun-diagonal
- 198 Set 4 achromatic eyepieces by Browning, in case
- 199 Dent's meridian instrument *10/- 40/-* *To N.M. on 28/2/20*
- 200 A 3¼-in. telescope by Jones, with finder, 2 astro eyepieces, 2 day ditto, on equatorial head with slow motions, on tall stand
- 201A Single prism table spectroscope
- 202A Recording barometer
- 203A Faber 10-in. slide rule

- 204A Case of drawing instruments and board
 205A A ditto
 206A A ditto 24/50
 207A Box of railway curves W
 208A Biunial lantern with dissolver
 209A Two limelight jets
 210A A graphoscope (folding)
 211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument £21.0.0
Say
 212A Steward microscope, 2 objectives, mechanical stage, in mahogany case 50/- York

***The Second Portion of the Collection of
 MICROSCOPES and ACCESSORIES,
 formed by the late Sir Frank Crisp, Bt.***

- 201 Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons 13.9s
MacAndrew
 202 An "A" objective, by Zeiss
 203 A 1-in. and $\frac{1}{2}$ -in. objective, by Tulley 26/- Court
 204 No. 10 immersion objective, by Verick 14/- Court
 205 Two objectives in cases
 206 Three various objectives
 207 Objective with lieberkuhn, and 4 others 20/- Court
 208 Zengers' $\frac{1}{10}$ -in. endo-immersion 30/- Court
 209 Hasert's $\frac{1}{16}$ -in. immersion, and another
 210 Three objectives
 211 A $\frac{1}{4}$ -in. objective with correction collar, by Nobert
 212 A mounted double mirror on stand, and an expensively mounted prism
 213 A 4-in. double bull's-eye stand condenser

- 214 Two bull's-eye stand condensers
- 215 An adjustable microscope lamp by Baker,
with metal chimney
- 216 Fidden's improved portable microscope
lamp
- 217 Schafer's thermo-regulator with glass
and mercury
- 218 Abbé test plate mounted in brass, by Zeiss,
and a Maltwood finder in case
- 219 A goniometer stage and a tilting stage,
by Watson
- 220 A revolving stage, another on ball and
socket, revolving object holder and 2
others
- 221 An expensively made micro-spectroscope
fitted with comparison mirrors
- 222 An expensively-made micrometer eye-
piece, by Hartnack & Co., and another
micrometer eyepiece
- 223 An expensively made rack revolving
goniometer with crystal stage
- 224 Oberhausser's horizontal camera lucida
- 225 Sub-stage condenser fitted in rack adjust-
ing under-stage, and a case of dark wells,
both by Beck
- 226 A camera lucida fitted to eyepiece, 2 by
Chevalier, and 2 others
- 227 Three nose-pieces and 2 pairs of safety
rings
- 228 Two hot stages, 2 frog plates and a com-
pressor
- 229 A binocular eyepiece by Hartnack, fitted
with a pair of eyepieces, and another by
Tolles fitted with a pair of eyepieces
- 230 Ten various single nose-pieces
- 231 Two micrometer eyepieces, a calliper eye-
piece, and an eyepiece ruled in squares
- 232 An expensively made comparison micro-
meter eyepiece by Nachet
- 233 An expensively mounted drawing prism
- 234 A binocular eyepiece by Verick, fitted
with 2 eyepieces

- 235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions
- 236 Three hot stages
- 237 Three hot stages and an electric stage
- 238 An expensively made goniometer stage with divided circles
- 239 Five compressors
- 240 Five ditto
- 241 A blood-testing set by Zeiss, another by Verick, and another
- 242 Nine various eyepieces
- 243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated, rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross* £23/- ?
- 244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces £8/8/- ?
- 245 *Stephenson's erecting binocular microscope, rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London* £6. Double
- 246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens 40/- Baker
- 247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris 5-11-11-56500 £10/10/- Wilson
- 248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser £4. Count.
- 249 An Abbé condenser by Zeiss in sub-stage fitting
- 250 Stephenson's illuminator and 3 under-stage condensers

- 251 Three kettle-drum condensers by Ross,
and a Kingsley illuminator
- 252 A Nachet prism, Wenham's reflex illumi-
nator, and 3 other prism illuminators
- 253 A Webster condenser, Wallach's condenser,
spot lens, and 2 other condensers
- 254 Beck's tadpole condenser and another by Beck 30/- Const
- 255 Eight various diaphragms and under-stage
fittings
- 256 Multiple colour spot lens, 2 mounted
prisms, a mounted mirror and 2 other
fittings
- 257 Two silver side reflectors, a paraboloid
and a mounted lens
- 258 Two under-stage condensers, spot lens with
iris diaphragm, revolving polariscope, and
a centering sub-stage fitted, by Beck
- 259 Two large mounted prisms, a mounted
mirror and 2 stage bull's-eyes
- 260 Draw tube fitted with erector, a gonio-
meter eyepiece, divided circle and analys-
ing prism
- 261 Set of Darker swing-out selenites and a
revolving polariscope
- 262 An apertometer, by Zeiss
- 263 A polarising bundle, a polariscope and a mounted prism 14/- Const
- 264 Swift's best sub-stage condenser with
revolving polariscope and centering
screws
- 265 An expensively made patent petrological
microscope by Swift, with graduated
revolving polariscope and analyser,
graduated fine adjustment, rack coarse
adjustment and moveable selenite plate,
etc. £ 8. 0. 0
Baker
- 266 An expensively made micrometer micro-
scope, fitted with micrometer stage, gra-
duated, and a Ramsden's micrometer
eyepiece 60/- Const
56/55
- 267 A bacteriological microscope, rack coarse
adjustment, micrometer screw fine
adjustment, by Hartnack 80/-
Mackitt

- 268 Bausch & Lomb's laboratory microscope; £ 7. Court
can be used either inverted or as an ordinary microscope
- 269 Student's microscope by Reichert — 26/- Baker
- 270 A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage 56 3/4 75/- Court.
- 271 A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment 50/- Baker
- 272 An expensively made theodolite microscope, with levelling screws and divided in silver 50/- Court.
- 273 Horizontal microscope with glass rotating stage, fitted with objective and eyepiece 18/- Court
- 274 An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece £ 9. Lowell
- 275 A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror
- 276 A sub-stage condenser with centering screws; another condenser and 2 others
- 277 An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline
- 278 Expensive model of the human eye, another model, and a model with lens on stand 40/- Court
- 279 Pseudoscope in case, and a direct vision spectroscopy with adjustable slit; and comparison prism by Browning
- 279A A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus
- 280 An expensively made pair of prisms on stand showing the recomposition of light
- 281 Expensively made stand for a pseudoscope and a Newton ring apparatus
- 282 A small level and a Bunsen burner
- 283 A telescope with stand and other fittings in case 21/- Court

- 284 Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs *56569* £6461-
 285 Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment *537-Trickett*
 286 Ditto, ditto *27/6 Baker*
 287 Portable microscope with eyepiece, in glass-topped case *537-Hawkesly*
 288 Artificial model of eye, and a large mounted mirror on stand with ball and socket movements *56364* 30/- Court
 289 Set of high-power achromatic magnifiers with holder, by Steinheil
 290 A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris
 291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers
 292 *Presentation binocular microscope by Tolles,* rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces *£11. Baker*
 293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces *£6. Davis*
 294. *Presentation binocular by Zentmayer,* rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated *£11-10-0 Baxendall*
 295 Ten various eyepieces
 296 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece *56750* 60/- Court
 297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece *28/- Lowell*

- 298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another *56396* 37/6 Court
- 56392* 299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage 27/6 Hill
- 300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier 14/- Baker
- 301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece *56395* 30/- Court
- 302 Portable microscope by Verick 16/- Court
- 303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case 21/- Court
- 304 Student's microscope with folding foot 20/- Court
- 305 Student's microscope, rack coarse adjustment and Wales' form of inclination 22/- Macra
- 56745* 306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand 30/- Court
- 307 Dissecting microscope with 3 powers on stand, another with 3 powers, and another 12/- Court
- 56363* 308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye *56345* 70/- Court
- 309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope 20/- Court
- 310 Trichina microscope, revolving glass stage with rack adjustment *56494* 45/- Court
- 311 Microscope with large micrometer stage and screw adjustments *56565* 60/- Court
- 40/-* 312 Four small microscopes 20/- Lowell
- Court* 313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces 7.10.0 Dunlop
- 314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment 32/6 Court
- 315 Two student's microscopes, rack coarse adjustments 12/- ?
- (40/-)* 316 Portable microscope by Collins, and a small ditto *56389* 28/2 1/2 Hm on
- 317 Two student's microscopes with rack adjustments 16/- Lowell

- 318 Student's microscope by Ladd, rack adjustment 207-Broadwin
- 319 Bacteriological microscope, by Bethle & Rexroth 187-"
- 320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective 167-Louell
- 321 Stein's electric light microscope fitted with lamps and resistances 75-Court
56747
- 322 Portable microscope by Baker, and eyepiece, in leather case with straps 221-Louell
- 323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, $\frac{1}{4}$ in. with lieberkuhn, $\frac{1}{2}$ in. correction collar, etc., in case 79-Reynolds
- 324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer 26.10.0 Locke
- 325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye 48/107-Baker
- 326 Student's microscope fitted with swing-out sub-stage and Abbé condenser 267-Baker
- 327 Biological microscope fitted with extra large stage, by Schmidt & Haensch 221-Baker
- 328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective 157-1-Court
56491
- 329 Lossener's combined microscope and telescope with tripod stand 267-Court
- 330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser 607-Court
56743
- 331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes 307-?

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

£5/10/-
Baker

333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

£20.0.0
Baker

334 A binocular microscope by Beck, for the examination of large objects

45/- Court

335 Five small microscopes

21/- Macray

336 A small microscope on stand, and 3 others

10/- "

337 A Leiter's stomach microscope

60/- Court

338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

55/- Gray

339 A Geneva Co.'s calliper microscope with graduated scale

27/6 Gray

340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions

80/- Court

341 An expensively made microscope for the investigation of objects under the air pump, with table clamp

35/- "

342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

£5.0.0
Laxindale

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

15/- Withn

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

30/- Baker

345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements

60/- Court

346 Aquarium microscope with outer glass tube, and rack coarse adjustment

60/- Court

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

16/- Gray

- 348 A horizontal microscope by Chevalier, 407- ?
and brass stand
- 349 An expensively made lens holder on 167- Grayson
stand, with rack adjustment, and a
microscope by Murray & Heath
- 350 An inverted chemical microscope by 457- Court
Nachet
- 351 A vibration microscope, fitted with rack 907- Clay
adjustment, eyepiece, objective and
tuning fork
- 352 An expensively made reading microscope, 46107-
fitted with micrometer, divided on silver, Baker
and prismatic eyepieces
- 353 A binocular microscope by Smith & Beck 457- ?
(A.F.)
- 354 An inverted chemical microscope by 407- Court
Nachet 56442
- 355 An expensively made micrometer reading 307- Court
microscope by the Cambridge Scientific
Instrument Co. 56563
- 356 Aquarium micro cope on stand, fitted 227- Byfield
with eyepiece and objective
- 357 A comparison microscope with graduated 267- ?
movements to the stage
- 358 A Wasserlein saccharometer microscope, 217- ?
fitted with bi-quartz
- 359 A reading microscope with micrometer, 129- Day
screw motions, in horizontal directions,
by Plossl, and a carrier for a reading
microscope
- 360 An aquarium tank on stand by Klonne 147- King
& Muller, and a bull's-eye condenser, no
stand
- 361 An aquarium microscope, a lens holder on 207- Court
stand, and an aquarium on stand
- 362 An expensively made binocular exami- 46. Court
nation microscope with graduated rack
56457 adjustment to eyepieces, and graduated
coarse adjustment, reading by vernier,
by C. G. Collin, Stockholm
- 363 An inverted chemical microscope by 44. Court
Nachet, adjusting swing-out sub-stage
with condensing lens, micrometer move-
ments to the stage

- 364 A large bull's-eye stand condenser, 4-in. lens
- 365 A microscope lamp, fitted with bull's-eye condenser and sterilizer
- 366 A bull's-eye stand condenser, 3-in. lens
- 367 Two ditto
- 368 An inverted microscope by Nachet *267-Court*
- 369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens *267-Day*
- 370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye *107-Davis*
- 371 A projection microscope on ornamental stand *56825* *307-Court*
- 372 An horizontal microscope by Nachet, fitted with eyepiece and powers *56751* *607-Court*
- 373 A large 4-in. lamp and condenser in brass mount, with slide holder
- 374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs *3276 Court*
- 375 An expensively made heliostat *907-Dunlop*
- 376 A microscope table with revolving casters
- 377 An expensively mounted tuning fork, to show vibrations in microscope *56564* *407-Court*
- 378 A fitted microscope case with microscope tubes, and other sundries
- 379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries *187-Court*
- 380 Seventeen small seed microscopes *187-McCray*
- 381 Fourteen seed and other small microscopes *187-McCray*
- 382 Fifteen seed and botanical microscopes *247-Court*
- 383 Nine Coddington and other hand magnifiers *6776 Hall*
- 384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles *307-Court*
- 385 Fifteen small hand microscopes *207-McCray*
- 386 Twenty ditto magnifiers, etc. *207-McCray*
- 387 Twenty-two various small magnifiers, in 2 cases *307-Court*
- 388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case *267-Lowell*

- 389 Two trichinoscope, a small compass
microscope, a binocular hand magnifier,
and a small microscope in case
- 390 A focusing glass by Ross, and another
- 391 Three dozen slides—various
- 392 Ditto
- 393 Ditto
- 394 Sixteen fine test diatoms, and 17 others
- 395 Three dozen sections of shells, pearls, etc.
- 396 Three dozen insects, etc., by Enoch,
Topping, and other good mounters
- 397 Thirty fine insect and insect parts, in-
cluding the scarce fairy fly, by Enoch
and other good mounters
- 398 Thirty-eight insect parts, and various
- 399 Forty-one large insect parts and botanical
- 400 Twenty-eight various and 6 large injected
slides
- 401 Two dozen large injected slides
- 402 Nineteen fine coal sections
- 403 Four rock sections, including 2 of the
scarce Eozoon Canadense and 36 others,
including scarce platino cyanides, and
other polarising salts
- 404 Thirty-one slides, various, by Enoch and
others
- 405 Twenty-four test diatoms
- 406 Eight choice exhibition slides
- 407 Two dozen exhibition objects, in case
- 408 Eight choice slides showing the anatomy
of the insect on one slide
- 409 A scarce diamond writing at the rate of
12 bibles to the inch, and another
- 410 A ditto
- 411 A scarce diamond writing at the rate of
13 bibles to the inch
- 412 A scarce diamond writing at the rate of
14 bibles to the inch, and another 16
bibles to the inch
- 413 A scarce diamond writing at the rate of
15 bibles to the inch, and another 10
bibles to the inch
- 414 A scarce diamond writing at the rate of
47 bibles to the inch

187 Count

- 415 Noberts' ruling 11 bands, *now very scarce*
 416 Ditto, 17 ditto
 417 Ditto, 19 ditto
 418 Ditto, 20 ditto

Another Property.

- 419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and $\frac{1}{8}$ -in. objectives, by Watson, and a $\frac{1}{2}$ -in. ditto by Powell & Lealand; coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, Abbé condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (perfect condition)*
 420 Microscopic lamp with bull's-eye, in case
 421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
 422 Forty-three well mounted micro slides, contents of 2 drawers
 423 Forty-eight ditto
 424 A ditto lot
 425 Sixty ditto, contents of 3 drawers
 426 A Morton's opthalmoscope in case
 427 Old medical book with coloured illustrations
 428 An air pump with glass shade
 429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
 430 Pair Carl Zeiss prismatic binoculars, 8x, in case
 431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
 432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
 433 A 4-volt 40 amp. "Ever Ready" ditto
 434 An 8-volt 30 amp. accumulator, charged

- 435 Three 2-volt 100 amp. "Lucas," charged
 436 Half-dozen 4-volt 4 amp. "King Eton,"
 new
 437 Half-dozen 4-volt 4 amp. ditto, ditto
 438 Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and
 Curios from Omdurman, the Property of
 an Officer.

Chinese and Japanese Porcelain ; Ivories ;
 Bronzes ; Native Curios, etc.

THURSDAY, NOVEMBER 18th, and
 FRIDAY, NOVEMBER 19th :—

Scientific and Photographic Apparatus ;
 Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also
 Cabinets, being the Collections of Captain
 Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and
 Roman Antiquities.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to
Entomology, Ornithology, Conchology, Minerals,
Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural
History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London."

Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

original
since
Nov. 12th 1920
Entered
(S)

Phone : Gerrard 1824.

Sale No. 13,221.

Sale to commence at **12.30** o'clock.

FRIDAY, NOVEMBER 12th, 1920.

WATKINSON/AM 15/17
A CATALOGUE OF *21/33/2*

Scientific and Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of
MICROSCOPES and ACCESSORIES,
formed by the late Sir Frank Crisp, Bart. ;

Valuable Cameras and Lenses,
by first-rate makers ;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On **FRIDAY, NOVEMBER 12th, 1920,**

At **12.30** o'clock.

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address : **AUKS, RAND, LONDON.**

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

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.

* * *Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

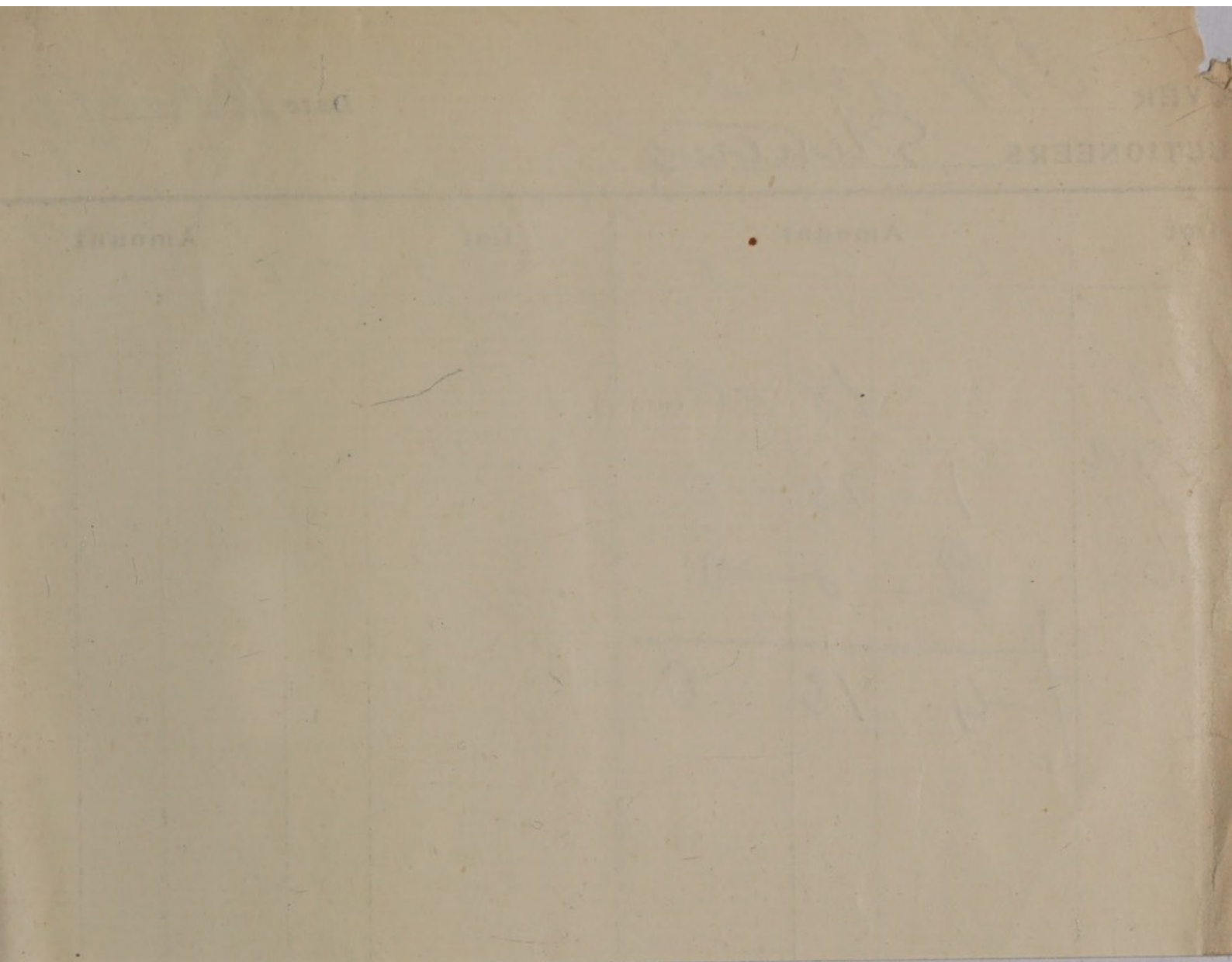
NO LOTS WILL BE TRANSFERRED.

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.



BUYER

J. W. Guice
Stevens

Date

Nov 12/20

AUCTIONEERS

Lot	Amount			Lot	Amount		
	£	s.	d.		£	s.	d.
199		18	-0				
207 ^a	1-	15	-0				
316	2-	0	-0				
<hr/>							
	£4.	13	-0				

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

- 1 Handsome papier-mâché writing box,
inlaid with pearl
- 2 Pair of handsome bronze vases with figures
on marble stands, with liners
- 3 *An 18-carat gold chronometer watch, by
Sharp, Dublin, in case; in going order
and regulated*
- 4 Mark V. aircraft watch, highest grade,
detached lever, 15-jewel movement,
Breguet spring, non-magnetic compen-
sated balance, 3 positions synchronised,
with dashboard holder or for pocket;
guaranteed perfect
- 5 Ditto, less holder
- 6 An 8-day fully luminous Mark IV. A.,
ditto, same specification
- 7 An 8-day non-luminous ditto
- 8 Coney seal coat, as new
- 9 Ditto

- 10 Coney seal coat with skunk opossum collar
- 11 Six gramophone motors, complete with turntable and winding key
- 14 Hornless gramophone with lid and doors, in perfect condition
- 15 Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
- 16 Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
- 17 Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
- 18 Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
- 19 Microscope, rack and fine adjustment, 2 powers, in case
- 20 Plated tray and 2 ditto boxes
- 21 Two lady's umbrellas
- 22 Six spoons, 6 forks and tea tray
- 23 Pair of photo frames
- 24 Six knives, 6 forks and 6 spoons
- 25 Set of 5 aluminium saucepans with lids
- 26 Electric battery with fitting in mahogany case, perfect order and condition
- 27 Binocular microscope in mahogany case, with eyepieces, objectives, etc.
- 28 No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
- 29 Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
- 30 No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
- 31 Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
- 32 Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

- 33 A large collection of stamps in improved album
- 34 Two albums and quantity of stamps
- 35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
- 36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
- 37 Oil painting in gilt frame—"Shipping"
- 38 Three large water-colour drawings, framed
- 39 Five small ditto
- 40 Oil painting in gilt frame and a pen and ink drawing
- 41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
- 42 Two engravings—Horses, by Stubbs, Anvil and Godolphin ; old print, coloured—"Race over the Beacon Course, Newmarket, 1770"
- 43 Another—"Bay Malton beating Gimcrack"
- 44 A coloured oval in sepia—Duchess of Devonshire, 1782
- 45 Coloured engraving—"Attacking the Fortress," by Lucas
- 46 Circular coloured engraving—"The Harvester," by H. Mole
- 47 Coloured engraving—"The Farmer's Boy"
- 48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
- 49 Oil painting—Landscape with Herdsman and Cattle
- 50 Another—"Birds"
- 51 Another—Portrait of a Gentleman
- 52 Another of an Artist
- 53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
- 54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

- 55 Thornton-Pickard $\frac{1}{2}$ -plate camera, slides, stand and case
- 56 A 10 by 8 copying camera, 2 slides
- 57 Billcliffe midget camera, lens and stand
- 58 Billcliffe vertical enlarger with condenser
- 59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case
- 60 Twenty-four printing frames, $\frac{1}{2}$ -plate
- 61 Six lenses
- 62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack
- 63 Goerz-Anschutz 5 by 4 focal plane folding camera ; the favourite pressman's model fitted with Goerz Dagor 6.8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes ; in leather case
- 64 A $\frac{1}{4}$ -plate folding camera with Rodenstock aplanat 7.7 lens, film pack adapter, 3 metal plate-holders ; canvas case
- 65 A 5 by 4 Ray camera, Beck Isostigmat lens F/5.8, six slides and leather case
- 66 No. 3 folding pocket Kodak, $\frac{1}{4}$ -plate, for roll films, rapid rectilinear lens, T.B. and I. shutter ; good condition
- 67 Ensign $\frac{1}{4}$ -plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet
- 68 No. 1A folding pocket Kodak, closed front model, black bellows
- 69 Pair powerful field-glasses, in case
- 70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses
- 71 Watson's 5 by 4 *Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*
- 72 Fine 10-lens leather-covered powerful field-glasses, in tan case

- 73 Fine 3-draw leather-covered telescope with case
- 74 Small microscope in case
- 75 Fine student's microscope with $\frac{1}{4}$ -in. and $\frac{1}{2}$ -in. objectives, 2 eyepieces, bull's-eye condenser ; in mahogany case, splendid order
- 76 A pair of powerful field-glasses
- 77 Strong 4-fold wooden tripod with top
- 78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model
- 79 No. 3 Cartridge Kodak $\frac{1}{4}$ -plate for roll films or plates, double extension, Goerz anastigmat lens F/6.8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model
- 80 No. 3 folding Brownie $\frac{1}{4}$ -plate for roll films ; as new
- 81 A $\frac{1}{4}$ -plate magazine camera
- 82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter ; leather case
- 83 Vest pocket Kodak, fine 6.9 anastigmat lens ; just cost £6
- 84 Twelve No. 1 Brownie spools ; date just expired but quite perfect
- 85 Small powerful telescope
- 86 No. 1 box Brownie with view finder
- 87 No. 1 Ensignette in case, as new
- 88 Vest pocket Kodak with fine F/6.9 anastigmat lens in case
- 89 *Postcard and 10 by 15cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/4.5, 6-in. focus, compound shutter, 2 slides and film pack adapter*
- 90 Shew folding Eclipse $\frac{1}{4}$ -plate camera, fine rapid rectilinear lens, 3 double dark slides
- 91 Fine compound microscope with 2 objectives, in mahogany case
- 92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5.7, speeded shutter, leather case

- 93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6.3, speeded shutter
- 94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6.3, leather case
- 95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6.3, focal plane shutter
- 96 A $\frac{1}{4}$ -plate folding camera, double extension Goerz Dagor lens F/6.8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter
- 97 No. 3 folding Kodak $\frac{1}{4}$ -plate, very late model; fine condition
- 98 A $\frac{1}{4}$ -plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$ -plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case
- 99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit
- 100 Carbine $\frac{1}{4}$ -plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter
- 101 Goerz Dagor anastigmat lens, F/6.8, 6-in. focus in automat fully speeded shutter
- 102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case
- 103 Fine lens for $\frac{1}{2}$ -plate enlarger
- 104 Hume's $\frac{1}{4}$ -plate Cantilever enlarger for artificial light, with illuminant
- 105 A No. 3 folding pocket Kodak for $\frac{1}{4}$ -plate roll films
- 106 Holborn $\frac{1}{4}$ -plate magazine camera, fine F/7.7 lens, for 12 plates
- 107 A No. 2 folding Kodak for $3\frac{1}{2}$ -in. square pictures (lantern slide size), in leather case

- 108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$ -in. objectives and 2 eyepieces, in mahogany case
- 109 A Negretti & Zambra's $\frac{1}{2}$ -in. oil immersion microscope objective
- 110 A Zeiss *Minimum Palmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$ -plate with carriers, Zeiss Tessar lens, F/4.5, focal plane shutter, 3 double dark slides, and folding pack adapter
- 111 A No. 2 Brownie box-form camera and canvas case
- 112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter
- 113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6.8, speeded shutter
- 114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front
- 115 A No. 1 box Brownie view finder and a canvas case
- 116 A vest pocket Kodak in leather case
- 117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter
- 118 Pair of powerful field-glasses in case
- 119 Pair of Lemaire binoculars in leather case
- 120 A No. 1A folding pocket Kodak, late closed front model, black bellows
- 121 A magazine camera, $\frac{1}{4}$ -plate, fine lens, magnifiers, etc.
- 122 A ditto
- 123 Benetfink's lightning $\frac{1}{4}$ -plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new
- 124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case
- 125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case
- 126 Toy microscope in case
- 127 A Beck compound microscope, $\frac{1}{4}$ -in. and 1-in. objectives, eyepiece, and case

- 128 Two boxes microscopic slides, about 150
assorted subjects
- 129 Two small single lenses
- 130 A Ross Goerz double anastigmat lens,
F/6.8, in fully speeded unicum shutter,
5in. focus
- 131 400 P.O.P. postcards
- 132 400 ditto
- 133 400 ditto
- 134 400 ditto
- 135 400 ditto
- 136 400 ditto
- 137 Five $\frac{1}{4}$ -plate Goerz film packs, dated Feb.
1921, cost 22/6
- 138 Six 9 by 12cm. Goerz film packs, cost 34/-
- 139 Six ditto
- 140 Six ditto
- 141 Six ditto
- 142 Stereo Weno stereoscopic roll film camera,
full size, fine rapid rectilinear lens, leather
case ; practically as new
- 143 Small microscope in case, old fashioned
but very effective
- 144 Photo Jumelle $3\frac{1}{2}$ by $2\frac{1}{2}$ Stereoscopic Co.'s
magazine camera, fitted with Kraüss
Zeiss Tessar lenses, F/6.3, in tan leather
case
- 145 Watson's 6x prism binoculars, eyepieces
separate focusing, bending bar, leather
case
- 146 Fine pair Hunsicker & Alexis prism
binoculars, 8 magnification eyepiece
focusing, tan leather case
- 147 Negretti & Zambra's 8x stereo prism
binoculars, central focusing, eyepiece
adjustment, leather case ; fine
- 148 A Richard's glyphoscope stereoscopic
camera, complete with 12 slides and
leather case
- 149 A Thornton-Pickard Ideal $\frac{1}{4}$ -plate folding
camera, fine lens, 2 slides, and case
- 150 Nine Thornton-Pickard $\frac{1}{4}$ -plate single
slides
- 151 A $\frac{1}{4}$ -plate magazine camera for plates

- 152 A metal telescopic tripod
- 153 A $\frac{1}{4}$ -plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens
- 154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new
- 155 Polished walnut stereoscope on stand, with coloured and other views
- ✓ 156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder
- 157 Fine $\frac{1}{2}$ -plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod
- ✓ 158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new
- 159 *Ensign Popular Pressman Reflex $\frac{1}{4}$ -plate, double extension, Ross Xpress lens, F/4.5, focal plane shutter, and 6 single slides*
- 160 Holborn Ilex magazine camera, $\frac{1}{4}$ -plate focusing model, Aldis Plano anastigmat lens, F/6.8, speeded shutter, brilliant finders, in splendid condition
- 160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

- 14/10/15
Lewis
- ✓ 161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$ in., and $\frac{1}{8}$ in., stage forceps, live box and stage bull's-eye condenser, in case
- ✓ 162 Beck $\frac{1}{4}$ in. objective for use with binocular
- ✓ 163 A ditto $\frac{1}{8}$ in. ditto
- ✓ 164 A ditto $\frac{1}{8}$ in. (immersion) ditto

- 165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$ in., $\frac{1}{4}$ in., and $\frac{1}{8}$ in. oil immersion
- 166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case
- 167 Swift portable binocular, 2 eyepieces, spot lens and polariscope
- 168 Swift spot lens with centering adjustment
- 169 Watson projection eyepiece
- 170 Gundlach $\frac{1}{16}$ in. immersion objective, with correction collar
- 171 Watson $\frac{1}{2}$ in. oil immersion for metallurgical work
- 172 Wray $\frac{1}{4}$ in. objective
- 173 Triple nosepieces
- 174 Micro lamp in case
- 175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{2}$ in. oil immersion
- 176 Blood counter, after Thoma
- 177 Zeiss projection eyepiece
- 178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case
- 179 Zeiss apochromatic objective, 1.5mm. oil immersion
- 180 Compensating eyepiece by Baker
- 181 Zeiss 16mm. apochromatic objective
- 182 A No. 12 compensating eyepiece
- 183 Abbé condenser with iris diaphragm
- 184 Zeiss 4mm. apochromatic, with correction collar

- 185 Zeiss condensing lens, with iris diaphragm,
in gimbals
- ✓ 186 A 3-in. objective by Ross
- 187 Dollond student microscope, rack coarse
adjustment, micrometer fine adjustment,
2 eyepieces, 2 objectives, bull's-eye con-
denser on stand, complete in case
- 188 Dissecting microscope with rack, 3 lenses,
turntable, erecting eyepiece and triple
objective, complete in case
- ✓ 189 Micro lamp, complete in case
- 190 Swift student microscope, rack coarse
and micrometer fine adjustment, racking
and centering sub-stage with Abbé con-
denser and iris, double nosepiece, 2 eye-
pieces, $\frac{3}{8}$ in. and $\frac{1}{4}$ in. objectives, sliding
polariscope in body, and swing out
analyser
- 191 Box of rock specimens in 4 trays, by
Gregory
- 192 Blood counter in case
- 193 Microscopic air pump, complete with bell,
on stand
- 194 Crouch monocular microscope, rack coarse
and micrometer fine adjustment, eye-
piece, 1 in. and $\frac{1}{4}$ in. objectives
- 195 A $3\frac{1}{2}$ -in. telescope by Tulley, finder and
steady rods, 1 day, 2 astro eyepieces,
with equatorial head, in case, and tall
outdoor stand
- ✓ 196 Equatorial head on tall outdoor stand
- ✓ 197 Cooke's sun-diagonal
- ✓ 198 Set 4 achromatic eyepieces by Browning,
in case
- 199 Dent's meridian instrument
- ✓ 200 A $3\frac{1}{4}$ -in. telescope by Jones, with finder,
2 astro eyepieces, 2 day ditto, on equa-
torial head with slow motions, on tall
stand
- 201A Single prism table spectroscope
- ✓ 202A Recording barometer
- ✓ 203A Faber 10-in. slide rule

807-
West

357-
Wilson

718
Blanken

121-
King

629-
West

181-

407-
199

- ✓ 204A Case of drawing instruments and board
 ✓ 205A A ditto
 ✓ 206A A ditto
 38/- 50/- 207A Box of railway curves
 ✓ 208A Biunial lantern with dissolver
 ✓ 209A Two limelight jets
 ✓ 210A A graphoscope (folding)
 211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
 50/- 212A Steward microscope, 2 objectives, mechanical stage, in mahogany case

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

- 201 *Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons*
 ✓ 202 An "A" objective, by Zeiss
 ✓ 203 A 1-in. and $\frac{1}{2}$ -in. objective, by Tulley
 ✓ 204 No. 10 immersion objective, by Verick
 ✓ 205 Two objectives in cases
 ✓ 206 Three various objectives
 ✓ 207 Objective with lieberkuhn, and 4 others
 ✓ 208 Zengers' $\frac{1}{8}$ -in. endo-immersion
 ✓ 209 Hasert's $\frac{1}{16}$ -in. immersion, and another
 ✓ 210 Three objectives
 ✓ 211 A $\frac{1}{4}$ -in. objective with correction collar, by Nobert
 ✓ 212 A mounted double mirror on stand, and an expensively mounted prism
 ✓ 213 A 4-in. double bull's-eye stand condenser

- 214 Two bull's-eye stand condensers
- 215 An adjustable microscope lamp by Baker,
with metal chimney
- ✓ 216 Fidden's improved portable microscope
lamp
- 217 Schafer's thermo-regulator with glass
and mercury
- 218 Abbé test plate mounted in brass, by Zeiss,
and a Maltwood finder in case
- 219 A goniometer stage and a tilting stage,
by Watson
- 220 A revolving stage, another on ball and
socket, revolving object holder and 2
others
- 221 An expensively made micro-spectroscope
fitted with comparison mirrors
- ✓ 222 An expensively-made micrometer eye-
piece, by Hartnack & Co., and another
micrometer eyepiece
- 223 An expensively made rack revolving
goniometer with crystal stage
- 224 Oberhausser's horizontal camera lucida
- 225 Sub-stage condenser fitted in rack adjust-
ing under-stage, and a case of dark wells,
both by Beck
- ✓ 226 A camera lucida fitted to eyepiece, 2 by
Chevalier, and 2 others
- ✓ 227 Three nose-pieces and 2 pairs of safety
rings
- 228 Two hot stages, 2 frog plates and a com-
pressor
- 229 A binocular eyepiece by Hartnack, fitted
with a pair of eyepieces, and another by
Tolles fitted with a pair of eyepieces
- ✓ 230 Ten various single nose-pieces
- 231 Two micrometer eyepieces, a calliper eye-
piece, and an eyepiece ruled in squares
- ✓ 232 An expensively made comparison micro-
meter eyepiece by Nachet
- ✓ 233 An expensively mounted drawing prism
- ✓ 234 A binocular eyepiece by Verick, fitted
with 2 eyepieces

- 235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions
- 236 Three hot stages
- 237 Three hot stages and an electric stage
- ✓ 238 An expensively made goniometer stage with divided circles
- ✓ 239 Five compressors
- ✓ 240 Five ditto
- ✓ 241 A blood-testing set by Zeiss, another by Verick, and another
- 242 Nine various eyepieces
- £ 23/- ? ✓ 243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated, rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross*
- £ 8/- ? 244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces
- £ 6. *Donalds* 245 *Stephenson's erecting binocular microscope, rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London*
- 40/- Baker 246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens
- £ 10.10. *Wilson* 247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris
- £ 4. *Conrad* 248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser
- ✓ 249 An Abbé condenser by Zeiss in sub-stage fitting
- ✓ 250 Stephenson's illuminator and 3 under-stage condensers

- ✓ 251 Three kettle-drum condensers by Ross, and a Kingsley illuminator
- ✓ 252 A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators
- ✓ 253 A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers
- Count ✓ 254 X Beck's tadpole condenser and another by Beck
- ✓ 255 Eight various diaphragms and under-stage fittings
- ✓ 256 Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings
- ✓ 257 Two silver side reflectors, a paraboloid and a mounted lens
- ✓ 258 Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck
- ✓ 259 Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes
- ✓ 260 Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism
- 261 Set of Darker swing-out selenites and a revolving polariscope
- 262 An apertometer, by Zeiss
- 4/- Count ✓ 263 A polarising bundle, a polariscope and a mounted prism
- ✓ 264 Swift's best sub-stage condenser with revolving polariscope and centering screws
- 7/8 B. Baker ✓ 265 An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc.
- 5/- Count ✓ 266 An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece
- 8/- market ✓ 267 A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack

7. Court 268

261- Baker 269

~~757- Court~~ 270

~~501- Baker~~ 271

501- Court 272

181- Court 273

9. Lowell 274

✓ 275

✓ 276

✓ 277

401- Court ✓ 278

✓ 279

✓ 279A

✓ 280

✓ 281

✓ 282

211- Court ✓ 283

Bausch & Lomb's laboratory microscope ;
can be used either inverted or as an ordinary microscope

Student's microscope by Reichert

A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage

A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment

An expensively made theodolite microscope, with levelling screws and divided in silver

Horizontal microscope with glass rotating stage, fitted with objective and eyepiece

An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece

A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror

A sub-stage condenser with centering screws ; another condenser and 2 others

An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline

Expensive model of the human eye, another model, and a model with lens on stand

Pseudoscope in case, and a direct vision spectroscope with adjustable slit ; and comparison prism by Browning

A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus

An expensively made pair of prisms on stand showing the recomposition of light

Expensively made stand for a pseudoscope and a Newton ring apparatus

A small level and a Bunsen burner

A telescope with stand and other fittings in case

- 16/1 Court 284 + Albertottie's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs
- 37-mackel 285 Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment
- 27/6 Balse 286 Ditto, ditto
- 7-Humboldt 287 Portable microscope with eyepiece, in glass-topped case
- 07-Court 288 + Artificial model of eye, and a large mounted mirror on stand with ball and socket movements
- ✓ 289 Set of high-power achromatic magnifiers with holder, by Steinheil
- ✓ 290 A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris
- ✓ 291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers
- ✓ 292 *Presentation binocular microscope by Tolles,* rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces
11. Baker 293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces
- 11/10/- 294 *ascendable* Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated
- 07-Court ✓ 295 Ten various eyepieces
- 07-Court ✓ 296 + Expensively made reading microscope by Nacet, rack adjustment on stem, fitted with eyepiece
- 28/1 Spruell 297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

37/6 Court	298	+	Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece and another	
27/6 Hillis	299		Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage	
14/- Baker	300		Demonstration microscope on stand, with eyepiece and objective, by Chevalier	
30/- Court	301	+	McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece	✓
16/- Court	302	+	Portable microscope by Verick	
21/- Court	303	+	Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case	
20/- Court	304	+	Student's microscope with folding foot	✓
22/- MacRae	305		Student's microscope, rack coarse adjustment and Wales' form of inclination	
30/- Court	306		Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand	✓
12/- Court	307	+	Dissecting microscope with 3 powers on stand, another with 3 powers, and another	✓
70/- Court	308	+	A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye	✓
20/- Court	309	+	Dissecting microscope with 3 powers, and Huxley's dissecting microscope	✓
45/- Court	310	+	Trichina microscope, revolving glass stage with rack adjustment	✓
60/- Court	311	+	Microscope with large micrometer stage and screw adjustments	✓
20/- Small	312		Four small microscopes	
7/10/- Small	313		An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces	✓
32/6 Court	314	+	An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment	
12/- ?	315		Two student's microscopes, rack coarse adjustments	
40/- 40/-	316		Portable microscope by Collins, and a small ditto	✓
16/- Small	317		Two student's microscopes with rack adjustments	

24-Brush

318 Student's microscope by Ladd, rack adjustment

8-Brush

319 Bacteriological microscope, by Bethle & Rexroth

16-Loell

320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective

5-Count

321 Stein's electric light microscope fitted with lamps and resistances

1-Loell

322 Portable microscope by Baker, and eyepiece, in leather case with straps

1-Rogers

323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, $\frac{1}{4}$ in. with lieberkuhn, $\frac{1}{2}$ in. correction collar, etc., in case

1/10-Loeke

324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer

8/10-120-Rogers

325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye

2-1-Rogers

326 Student's microscope fitted with swing-out sub-stage and Abbé condenser

2-1-Rogers

327 Biological microscope fitted with extra large stage, by Schmidt & Haensch

5-Count

328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective

6-Count

329 Lossener's combined microscope and telescope with tripod stand

1-Count

330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser

1-Count

331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes

- 1/2 1/10 Baker 332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet
- 1/2 20 Basler 333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*
- 45/- Count 334 A binocular microscope by Beck, for the examination of large objects
- 2/- Maerck 335 Five small microscopes
- 10/- 336 A small microscope on stand, and 3 others
- 6/- Count 337 A Leiter's stomach microscope
- 5/- Grayson 338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris
- 2/- 6 Grayson 339 A Geneva Co.'s calliper microscope with graduated scale
- 80/- Count 340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions
- 35/- Count 341 An expensively made microscope for the investigation of objects under the air pump, with table clamp
- 1/2 5 Laxmelle 342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements
- 15/- Wilson 343 A dissecting microscope and a microscope lamp, by R. & J. Beck
- 30/- Baker 344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver
- 60/- Count 345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements
- 60/- Count 346 Aquarium microscope with outer glass tube, and rack coarse adjustment
- 10/- Grayson 347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

- 1- 348 A horizontal microscope by Chevalier,
and brass stand
- 1- Gray 349 An expensively made lens holder on
stand, with rack adjustment, and a
microscope by Murray & Heath
- 1- Court 350 An inverted chemical microscope by
Nachet
- 9 of Clay 351 ~~X~~ A vibration microscope, fitted with rack
adjustment, eyepiece, objective and
tuning fork
- 11 of Baker 352 An expensively made reading microscope,
fitted with micrometer, divided on silver,
and prismatic eyepieces
- 4 of 3 353 A binocular microscope by Smith & Beck
(A.F.)
- 4 of Court 354 An inverted chemical microscope by
Nachet
- 3 of Court 355 An expensively made micrometer reading
microscope by the Cambridge Scientific
Instrument Co.
- 21- Byfield 356 Aquarium micro cope on stand, fitted
with eyepiece and objective
- 2 of 3 357 A comparison microscope with graduated
movements to the stage
- 21- 358 A Wasserlein saccharometer microscope,
fitted with bi-quartz
- 21- Day 359 A reading microscope with micrometer,
screw motions, in horizontal directions,
by Plossl, and a carrier for a reading
microscope
- 41- Kelly 360 An aquarium tank on stand by Klonne
& Muller, and a bull's-eye condenser, no
stand
- 2 of Court 361 An aquarium microscope, a lens holder on
stand, and an aquarium on stand
- 2 of Court 362 An expensively made binocular exami-
nation microscope with graduated rack
adjustment to eyepieces, and graduated
coarse adjustment, reading by vernier,
by C. G. Collin, Stockholm
- 4 of Court 363 An inverted chemical microscope by
Nachet, adjusting swing-out sub-stage
with condensing lens, micrometer move-
ments to the stage

	364	A large bull's-eye stand condenser, 4-in. lens
	365	A microscope lamp, fitted with bull's-eye condenser and sterilizer
	366	A bull's-eye stand condenser, 3-in. lens
26/- Count ✓	367 +	Two ditto
24/- Day	368 +	An inverted microscope by Nachet
10/- Day	369	A dissecting microscope by Boecker, fitted with achromatic dissecting lens
30/- Count	370	A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye
60/- Count	371 +	A projection microscope on ornamental stand
32/- Count ✓	372 +	An horizontal microscope by Nachet, fitted with eyepiece and powers
32/- Count	373	A large 4-in. lamp and condenser in brass mount, with slide holder
32/- Count	374 +	A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs
99/- Sundry	375	An expensively made heliostat
40/- Count	376 +	A microscope table with revolving casters
	377 +	An expensively mounted tuning fork, to show vibrations in microscope
	378	A fitted microscope case with microscope tubes, and other sundries
18/- Count	379 +	A fitted microscope case containing a number of empty brass objective cases, and other micro sundries
18/- Micro	380	Seventeen small seed microscopes
12/- "	381	Fourteen seed and other small microscopes
24/- Count ✓	382 +	Fifteen seed and botanical microscopes
18/- 1/6 Hall	383	Nine Coddington and other hand magnifiers
30/- Count	384 +	Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles
20/- Micro	385	Fifteen small hand microscopes
24/- "	386	Twenty ditto magnifiers, etc.
30/- Count	387 +	Twenty-two various small magnifiers, in 2 cases
26/- Sundry	388	A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

- 3/Cont
- 389 Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
 - 390 A focusing glass by Ross, and another
 - 391 Three dozen slides—various
 - 392 Ditto
 - 393 Ditto
 - 394 Sixteen fine test diatoms, and 17 others
 - 395 Three dozen sections of shells, pearls, etc.
 - 396 Three dozen insects, etc., by Enoch, Topping, and other good mounters
 - 397 Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
 - 398 Thirty-eight insect parts, and various
 - 399 Forty-one large insect parts and botanical
 - 400 Twenty-eight various and 6 large injected slides
 - 401 Two dozen large injected slides
 - 402 Nineteen fine coal sections
 - 403 Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
 - 404 Thirty-one slides, various, by Enoch and others
 - 405 Twenty-four test diatoms
 - 406 Eight choice exhibition slides
 - 407 Two dozen exhibition objects, in case
 - 408 Eight choice slides showing the anatomy of the insect on one slide
 - 409 A scarce diamond writing at the rate of 12 bibles to the inch, and another
 - 410 A ditto
 - 411 A scarce diamond writing at the rate of 13 bibles to the inch
 - 412 A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
 - 413 A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
 - 414 A scarce diamond writing at the rate of 47 bibles to the inch

- 415 Noberts' ruling 11 bands, *now very scarce*
- 416 Ditto, 17 ditto
- 417 Ditto, 19 ditto
- 418 Ditto, 20 ditto

Another Property.

- 419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and $\frac{1}{8}$ -in. objectives, by Watson, and a $\frac{1}{2}$ -in. ditto by Powell & Lealand; coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, Abbé condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (perfect condition)*
- 420 Microscopic lamp with bull's-eye, in case
- 421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
- 422 Forty-three well mounted micro slides, contents of 2 drawers
- 423 Forty-eight ditto
- 424 A ditto lot
- 425 Sixty ditto, contents of 3 drawers
- 426 A Morton's ophthalmoscope in case
- 427 Old medical book with coloured illustrations
- 428 An air pump with glass shade
- 429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
- 430 Pair Carl Zeiss prismatic binoculars, 8x, in case
- 431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
- 432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
- 433 A 4-volt 40 amp. "Ever Ready" ditto
- 434 An 8-volt 30 amp. accumulator, charged

- 435 Three 2-volt 100 amp. "Lucas," charged
 436 Half-dozen 4-volt 4 amp. "King Eton,"
 new
 437 Half-dozen 4-volt 4 amp. ditto, ditto
 438 Half-dozen 4-volt 4 amp. ditto, ditto

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and
 Curios from Omdurman, the Property of
 an Officer.

Chinese and Japanese Porcelain ; Ivories ;
 Bronzes ; Native Curios, etc.

**THURSDAY, NOVEMBER 18th, and
 FRIDAY, NOVEMBER 19th :—**

Scientific and Photographic Apparatus ;
 Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also
 Cabinets, being the Collections of Captain
 Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and
 Roman Antiquities.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to
Entomology, Ornithology, Conchology, Minerals,
Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural
History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London."

Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

Phone : Gerrard 1824.

Sale No. 13,221.

Sale to commence at **12.30** o'clock.

FRIDAY, NOVEMBER 12th, 1920.

A CATALOGUE OF

Scientific and

Photographic Apparatus

INCLUDING

The Second Portion of the Celebrated Collection of
MICROSCOPES and ACCESSORIES,
formed by the late Sir Frank Crisp, Bart. ;

Valuable Cameras and Lenses,
by first-rate makers ;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2, .

• On **FRIDAY, NOVEMBER 12th, 1920,**

At **12.30** o'clock.

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address : AUKS, RAND, LONDON.

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

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.

** * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

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.

A CATALOGUE

Friday, November 12th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

- | | |
|---|--|
| 1 | Handsome papier-mâché writing box, inlaid with pearl |
| 2 | Pair of handsome bronze vases with figures on marble stands, with liners |
| 3 | <i>An 18-carat gold chronometer watch, by Sharp, Dublin, in case ; in going order and regulated</i> |
| 4 | Mark V. aircraft watch, highest grade, detached lever, 15-jewel movement, Breguet spring, non-magnetic compensated balance, 3 positions synchronised, with dashboard holder or for pocket ; guaranteed perfect |
| 5 | Ditto, less holder |
| 6 | An 8-day fully luminous Mark IV. A., ditto, same specification |
| 7 | An 8-day non-luminous ditto |
| 8 | Coney seal coat, as new |
| 9 | Ditto |

- 10 Coney seal coat with skunk opossum collar
- 11 Six gramophone motors, complete with turntable and winding key
- 14 Hornless gramophone with lid and doors, in perfect condition
- 15 Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
- 16 Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
- 17 Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
- 18 Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
- 19 Microscope, rack and fine adjustment, 2 powers, in case
- 20 Plated tray and 2 ditto boxes
- 21 Two lady's umbrellas
- 22 Six spoons, 6 forks and tea tray
- 23 Pair of photo frames
- 24 Six knives, 6 forks and 6 spoons
- 25 Set of 5 aluminium saucepans with lids
- 26 Electric battery with fitting in mahogany case, perfect order and condition
- 27 Binocular microscope in mahogany case, with eyepieces, objectives, etc.
- 28 No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
- 29 Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
- 30 No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
- 31 Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
- 32 Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

- 33 A large collection of stamps in improved album
- 34 Two albums and quantity of stamps
- 35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
- 36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
- 37 Oil painting in gilt frame—"Shipping "
- 38 Three large water-colour drawings, framed
- 39 Five small ditto
- 40 Oil painting in gilt frame and a pen and ink drawing
- 41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
- 42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770 "
- 43 Another—"Bay Malton beating Gimcrack "
- 44 A coloured oval in sepia—Duchess of Devonshire, 1782
- 45 Coloured engraving—"Attacking the Fortress," by Lucas
- 46 Circular coloured engraving—"The Harvester," by H. Mole
- 47 Coloured engraving—"The Farmer's Boy "
- 48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
- 49 Oil painting—Landscape with Herdsman and Cattle
- 50 Another—"Birds "
- 51 Another—Portrait of a Gentleman
- 52 Another of an Artist
- 53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
- 54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

- 55 Thornton-Pickard $\frac{1}{2}$ -plate camera, slides, stand and case
- 56 A 10 by 8 copying camera, 2 slides
- 57 Billcliffe midget camera, lens and stand
- 58 Billcliffe vertical enlarger with condenser
- 59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case
- 60 Twenty-four printing frames, $\frac{1}{2}$ -plate
- 61 Six lenses
- 62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack
- 63 Goerz-Anschutz 5 by 4 focal plane folding camera ; the favourite pressman's model fitted with Goerz Dagor 6.8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes ; in leather case
- 64 A $\frac{1}{4}$ -plate folding camera with Rodenstock aplanat 7.7 lens, film pack adapter, 3 metal plate-holders ; canvas case
- 65 A 5 by 4 Ray camera, Beck Isostigmat lens F/5.8, six slides and leather case
- 66 No. 3 folding pocket Kodak, $\frac{1}{4}$ -plate, for roll films, rapid rectilinear lens, T.B. and I. shutter ; good condition
- 67 Ensign $\frac{1}{4}$ -plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet
- 68 No. 1A folding pocket Kodak, closed front model, black bellows
- 69 Pair powerful field-glasses, in case
- 70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses
- 71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*
- 72 Fine 10-lens leather-covered powerful field-glasses, in tan case

- 73 Fine 3-draw leather-covered telescope with case
- 74 Small microscope in case
- 75 Fine student's microscope with $\frac{1}{4}$ -in. and $\frac{1}{2}$ -in. objectives, 2 eyepieces, bull's-eye condenser ; in mahogany case, splendid order
- 76 A pair of powerful field-glasses
- 77 Strong 4-fold wooden tripod with top
- 78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model
- 79 No. 3 Cartridge Kodak $\frac{1}{4}$ -plate for roll films or plates, double extension, Goerz anastigmat lens F/6.8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model
- 80 No. 3 folding Brownie $\frac{1}{4}$ -plate for roll films ; as new
- 81 A $\frac{1}{4}$ -plate magazine camera
- 82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter ; leather case
- 83 Vest pocket Kodak, fine 6.9 anastigmat lens ; just cost £6
- 84 Twelve No. 1 Brownie spools ; date just expired but quite perfect
- 85 Small powerful telescope
- 86 No. 1 box Brownie with view finder
- 87 No. 1 Ensignette in case, as new
- 88 Vest pocket Kodak with fine F/6.9 anastigmat lens in case
- 89 *Postcard and 10 by 15cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/4.5, 6-in. focus, compound shutter, 2 slides and film pack adapter*
- 90 Shew folding Eclipse $\frac{1}{4}$ -plate camera, fine rapid rectilinear lens, 3 double dark slides
- 91 Fine compound microscope with 2 objectives, in mahogany case
- 92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5.7, speeded shutter, leather case

- 93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6.3, speeded shutter
- 94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6.3, leather case
- 95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6.3, focal plane shutter
- 96 A $\frac{1}{4}$ -plate folding camera, double extension Goerz Dagor lens F/6.8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter
- 97 No. 3 folding Kodak $\frac{1}{4}$ -plate, very late model ; fine condition
- 98 A $\frac{1}{4}$ -plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$ -plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case
- 99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case ; make a fine studio outfit
- 100 Carbine $\frac{1}{4}$ -plate roll film camera, will also take plates ; Beck rapid rectilinear lens, speeded shutter
- 101 Goerz Dagor anastigmat lens, F/6.8, 6-in. focus in automat fully speeded shutter
- 102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case
- 103 Fine lens for $\frac{1}{2}$ -plate enlarger
- 104 Hume's $\frac{1}{4}$ -plate Cantilever enlarger for artificial light, with illuminant
- 105 A No. 3 folding pocket Kodak for $\frac{1}{4}$ -plate roll films
- 106 Holborn $\frac{1}{4}$ -plate magazine camera, fine F/7.7 lens, for 12 plates
- 107 A No. 2 folding Kodak for $3\frac{1}{2}$ -in. square pictures (lantern slide size), in leather case

- 108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$ -in. objectives and 2 eyepieces, in mahogany case
- 109 A Negretti & Zambra's $\frac{1}{2}$ -in. oil immersion microscope objective
- 110 A *Zeiss Minimum Palms* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$ -plate with carriers, Zeiss Tessar lens, F/4.5, focal plane shutter, 3 double dark slides, and folding pack adapter
- 111 A No. 2 Brownie box-form camera and canvas case
- 112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter
- 113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6.8, speeded shutter
- 114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front
- 115 A No. 1 box Brownie view finder and a canvas case
- 116 A vest pocket Kodak in leather case
- 117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter
- 118 Pair of powerful field-glasses in case
- 119 Pair of Lemaire binoculars in leather case
- 120 A No. 1A folding pocket Kodak, late closed front model, black bellows
- 121 A magazine camera, $\frac{1}{4}$ -plate, fine lens, magnifiers, etc.
- 122 A ditto
- 123 Benetfink's lightning $\frac{1}{4}$ -plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new
- 124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case
- 125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case
- 126 Toy microscope in case
- 127 A Beck compound microscope, $\frac{1}{4}$ -in. and 1-in. objectives, eyepiece, and case

- 128 Two boxes microscopic slides, about 150
assorted subjects
- 129 Two small single lenses
- 130 A Ross Goerz double anastigmat lens,
F/6.8, in fully speeded unicum shutter,
5in. focus
- 131 400 P.O.P. postcards
- 132 400 ditto
- 133 400 ditto
- 134 400 ditto
- 135 400 ditto
- 136 400 ditto
- 137 Five $\frac{1}{4}$ -plate Goerz film packs, dated Feb.
1921, cost 22/6
- 138 Six 9 by 12cm. Goerz film packs, cost 34/-
- 139 Six ditto
- 140 Six ditto
- 141 Six ditto
- 142 Stereo Weno stereoscopic roll film camera,
full size, fine rapid rectilinear lens, leather
case ; practically as new
- 143 Small microscope in case, old fashioned
but very effective
- 144 Photo Jumelle $3\frac{1}{2}$ by $2\frac{1}{2}$ Stereoscopic Co.'s
magazine camera, fitted with Krauss
Zeiss Tessar lenses, F/6.3, in tan leather
case
- 145 Watson's 6x prism binoculars, eyepieces
separate focusing, bending bar, leather
case
- 146 Fine pair Hunsicker & Alexis prism
binoculars, 8 magnification eyepiece
focusing, tan leather case
- 147 Negretti & Zambra's 8x stereo prism
binoculars, central focusing, eyepiece
adjustment, leather case ; fine
- 148 A Richard's glyphoscope stereoscopic
camera, complete with 12 slides and
leather case
- 149 A Thornton-Pickard Ideal $\frac{1}{4}$ -plate folding
camera, fine lens, 2 slides, and case
- 150 Nine Thornton-Pickard $\frac{1}{4}$ -plate single
slides
- 151 A $\frac{1}{4}$ -plate magazine camera for plates

- 152 A metal telescopic tripod
- 153 A $\frac{1}{4}$ -plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens
- 154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new
- 155 Polished walnut stereoscope on stand, with coloured and other views
- 156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder
- 157 Fine $\frac{1}{2}$ -plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod
- 158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new
- 159 *Ensign Popular Pressman Reflex $\frac{1}{4}$ -plate, double extension, Ross Xpress lens, F/4.5, focal plane shutter, and 6 single slides*
- 160 Holborn Ilex magazine camera, $\frac{1}{4}$ -plate focusing model, Aldis Plano anastigmat lens, F/6.8, speeded shutter, brilliant finders, in splendid condition
- 160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

- 161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$ in., and $\frac{1}{8}$ in., stage forceps, live box and stage bull's-eye condenser, in case
- 162 Beck $\frac{1}{4}$ in. objective for use with binocular
- 163 A ditto $\frac{1}{8}$ in. ditto
- 164 A ditto $\frac{1}{16}$ in. (immersion) ditto

- 165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$ in., $\frac{1}{4}$ in., and $\frac{1}{8}$ in. oil immersion
- 166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case
- 167 Swift portable binocular, 2 eyepieces, spot lens and polariscope
- 168 Swift spot lens with centering adjustment
- 169 Watson projection eyepiece
- 170 Gundlach $\frac{1}{16}$ in. immersion objective, with correction collar
- 171 Watson $\frac{1}{2}$ in. oil immersion for metallurgical work
- 172 Wray $\frac{1}{4}$ in. objective
- 173 Triple nosepieces
- 174 Micro lamp in case
- 175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{2}$ in. oil immersion
- 176 Blood counter, after Thoma
- 177 Zeiss projection eyepiece
- 178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case
- 179 Zeiss apochromatic objective, 1.5mm. oil immersion
- 180 Compensating eyepiece by Baker
- 181 Zeiss 16mm. apochromatic objective
- 182 A No. 12 compensating eyepiece
- 183 Abbé condenser with iris diaphragm
- 184 Zeiss 4mm. apochromatic, with correction collar

- 185 Zeiss condensing lens, with iris diaphragm,
in gimbals
- 186 A 3-in. objective by Ross
- 187 Dollond student microscope, rack coarse
adjustment, micrometer fine adjustment,
2 eyepieces, 2 objectives, bull's-eye con-
denser on stand, complete in case
- 188 Dissecting microscope with rack, 3 lenses,
turntable, erecting eyepiece and triple
objective, complete in case
- 189 Micro lamp, complete in case
- 190 Swift student microscope, rack coarse
and micrometer fine adjustment, racking
and centering sub-stage with Abbé con-
denser and iris, double nosepiece, 2 eye-
pieces, $\frac{3}{8}$ in. and $\frac{1}{4}$ in. objectives, sliding
polariscope in body, and swing out
analyser
- 191 Box of rock specimens in 4 trays, by
Gregory
- 192 Blood counter in case
- 193 Microscopic air pump, complete with bell,
on stand
- 194 Crouch monocular microscope, rack coarse
and micrometer fine adjustment, eye-
piece, 1 in. and $\frac{1}{4}$ in. objectives
- 195 A $3\frac{1}{2}$ -in. telescope by Tulley, finder and
steady rods, 1 day, 2 astro eyepieces,
with equatorial head, in case, and tall
outdoor stand
- 196 Equatorial head on tall outdoor stand
- 197 Cooke's sun-diagonal
- 198 Set 4 achromatic eyepieces by Browning,
in case
- 199 Dent's meridian instrument
- 200 A $3\frac{1}{4}$ -in. telescope by Jones, with finder,
2 astro eyepieces, 2 day ditto, on equa-
torial head with slow motions, on tall
stand
- 201A Single prism table spectroscope
- 202A Recording barometer
- 203A Faber 10-in. slide rule

- 204A Case of drawing instruments and board
- 205A A ditto
- 206A A ditto
- 207A Box of railway curves
- 208A Biunial lantern with dissolver
- 209A Two limelight jets
- 210A A graphoscope (folding)
- 211A A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici ; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet ; this is a very fine instrument
- 212A Steward microscope, 2 objectives, mechanical stage, in mahogany case

***The Second Portion of the Collection of
MICROSCOPES and ACCESSORIES,
formed by the late Sir Frank Crisp, Bt.***

- 7. 201 *Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws ; fitted with a pair of " A " capped eyepieces ; by Watson & Sons*
- 202 An " A " objective, by Zeiss
- 203 A 1-in. and $\frac{1}{2}$ -in. objective, by Tulley
- 204 No. 10 immersion objective, by Verick
- 205 Two objectives in cases
- 206 Three various objectives
- 207 Objective with lieberkuhn, and 4 others
- 208 Zengers' $\frac{1}{8}$ -in. endo-immersion
- 209 Hasert's $\frac{1}{16}$ -in. immersion, and another
- 210 Three objectives
- 211 A $\frac{1}{4}$ -in. objective with correction collar, by Nobert
- 212 A mounted double mirror on stand, and an expensively mounted prism
- 213 A 4-in. double bull's-eye stand condenser

- 214 Two bull's-eye stand condensers
- 215 An adjustable microscope lamp by Baker,
with metal chimney
- 216 Fidden's improved portable microscope
lamp
- 217 Schafer's thermo-regulator with glass
and mercury
- 218 Abbé test plate mounted in brass, by Zeiss,
and a Maltwood finder in case
- 219 A goniometer stage and a tilting stage,
by Watson
- 220 A revolving stage, another on ball and
socket, revolving object holder and 2
others
- 221 An expensively made micro-spectroscope
fitted with comparison mirrors
- 222 An expensively-made micrometer eye-
piece, by Hartnack & Co., and another
micrometer eyepiece
- 223 An expensively made rack revolving
goniometer with crystal stage
- 224 Oberhausser's horizontal camera lucida
- 225 Sub-stage condenser fitted in rack adjust-
ing under-stage, and a case of dark wells,
both by Beck
- 226 A camera lucida fitted to eyepiece, 2 by
Chevalier, and 2 others
- 227 Three nose-pieces and 2 pairs of safety
rings
- 228 Two hot stages, 2 frog plates and a com-
pressor
- 229 A binocular eyepiece by Hartnack, fitted
with a pair of eyepieces, and another by
Tolles fitted with a pair of eyepieces
- 230 Ten various single nose-pieces
- 231 Two micrometer eyepieces, a calliper eye-
piece, and an eyepiece ruled in squares
- 232 An expensively made comparison micro-
meter eyepiece by Nacet
- 233 An expensively mounted drawing prism
- 234 A binocular eyepiece by Verick, fitted
with 2 eyepieces

- 235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions
- 236 Three hot stages
- 237 Three hot stages and an electric stage
- 238 An expensively made goniometer stage with divided circles
- 239 Five compressors
- 240 Five ditto
- 241 A blood-testing set by Zeiss, another by Verick, and another
- 242 Nine various eyepieces
6. 243 | *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated, rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross*
- 244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces
- 245 *Stephenson's erecting binocular microscope, rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London*
- 246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens
9. 247 | Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris *made to the design of Dr. Pelletan*
5. 248 | Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser
- 249 An Abbé condenser by Zeiss in sub-stage fitting
- 250 Stephenson's illuminator and 3 under-stage condensers

247 Made to the design of Dr.T.Pelletan

266 Designed by Signor Goldferetti for
examining the teeth of watches and
other objects.

- 251 Three kettle-drum condensers by Ross, and a Kingsley illuminator
- 252 A Nachet prism, Wenham's reflex illuminator, and 3 other prism illuminators
- 253 A Webster condenser, Wallach's condenser, spot lens, and 2 other condensers
- 254 Beck's tadpole condenser and another by Beck
- 255 Eight various diaphragms and under-stage fittings
- 256 Multiple colour spot lens, 2 mounted prisms, a mounted mirror and 2 other fittings
- 257 Two silver side reflectors, a paraboloid and a mounted lens
- 258 Two under-stage condensers, spot lens with iris diaphragm, revolving polariscope, and a centering sub-stage fitted, by Beck
- 259 Two large mounted prisms, a mounted mirror and 2 stage bull's-eyes
- 260 Draw tube fitted with erector, a goniometer eyepiece, divided circle and analysing prism
- 261 Set of Darker swing-out selenites and a revolving polariscope
- 262 An apertometer, by Zeiss
- 263 A polarising bundle, a polariscope and a mounted prism
- 264 Swift's best sub-stage condenser with revolving polariscope and centering screws
- 265 An expensively made patent petrological microscope by Swift, with graduated revolving polariscope and analyser, graduated fine adjustment, rack coarse adjustment and moveable selenite plate, etc.
5. 266 | An expensively made micrometer microscope, fitted with micrometer stage, graduated, and a Ramsden's micrometer eyepiece *✓ other objects*
- 267 A bacteriological microscope, rack coarse adjustment, micrometer screw fine adjustment, by Hartnack

*designed by Signor
Golferelli for examining
the teeth of crystals*

6. 268 Bausch & Lomb's laboratory microscope ;
can be used either inverted or as an ordinary microscope
- 269 Student's microscope by Reichert
- 270 A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage
- 271 A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment
- 272 An expensively made theodolite microscope, with levelling screws and divided in silver
- 70/- 273 Horizontal microscope with glass rotating stage, fitted with objective and eyepiece
8. 274 An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece
- 275 A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror
- 276 A sub-stage condenser with centering screws ; another condenser and 2 others
6. 277 An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline
- 75/- 278 Expensive model of the human eye, another model, and a model with lens on stand
- 279 Pseudoscope in case, and a direct vision spectroscope with adjustable slit ; and comparison prism by Browning
- 279A A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus
- 280 An expensively made pair of prisms on stand showing the recomposition of light
- 281 Expensively made stand for a pseudoscope and a Newton ring apparatus
- 282 A small level and a Bunsen burner
- 283 A telescope with stand and other fittings in case

*designed by Dr. R. N.
for Ray chart
measured 14 in.
stated to read to 10
100 000 of a m. 90*

273 Designed by Dr. Pepper for very exact measurement; it is stated to read to the 100,000 of a m.m.

275. Described by Dr. Porter for very exact measurement; it is stated to read to the 100,000 of a m.m.
276. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
277. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
278. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
279. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
280. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
281. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
282. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.
283. A rack adjusting under-stage condenser with under-stage fittings, a super-stage rack and a mirror.

284 This beautiful and expensively made microscope with rack revolving goniometer scale, divided into 360 degrees, by Baileys & Diederichs, made with the finest lenses of 285
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adjustment

286 Ditto, ditto

287 Portable microscope with eyepiece, in glass-topped case

288 Artificial model of eye, and a large mounted mirror on stand with ball and socket movements

289 Set of high-power achromatic magnifiers with holder, by Steinheil

290 A press showing the polarising effect of stress in glass plates, and another for bars, by Hoffman, Paris

291 Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers

292 Presentation binocular microscope by Tolles, rack adjustment for width of eyes, mechanical goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces

293 Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces

294 Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting

295 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece of the thin eye & also the power of glass

296

297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

The beautiful
microscope
made with the
finest lenses
of 285
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295 Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece of the thin eye & also the power of glass

296

297 Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

284 This beautiful and expensively made microscope of unusual design was designed to enable measurements to be made with the highest degree of accuracy by Professor Albertelli.

296 Dr. Lucay Duther's reading microscope for the examination of the skin, eye and also the growth of plants.

This beautiful & expensively made microscope of unusual design was designed to enable Messrs. Minors to be made with the highest degree of accuracy by Prof. Albertotti.

84/- 284

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35/- 288

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- Albertotti's micrometer microscope with rack revolving micrometer scale, divided in silver, made by Bartels & Diederichs
- Student's microscope by Bausch & Lomb, rack coarse adjustment, micrometer fine adjustment
- Ditto, ditto
- Portable microscope with eyepiece, in glass-topped case
- Artificial model of eye, and a large mounted mirror on stand with ball and socket movements
- Set of high-power achromatic magnifiers with holder, by Steinheil
- A press showing the polarising effect of stress in glass cubes, and another for bars, by Hoffman, Paris
- Mineral holder with graduated drum divided on silver, and a pair of tourmaline pincers
- Presentation binocular microscope by Tolles, rack adjustment for width of eyes, mechanical micrometer goniometer stage rotating, rack adjusting sub-stage rotating and divided, swing-out sub-stage, both graduated; the whole instrument rotates on the base, which is also graduated; fitted with pair of eyepieces*
- Binocular microscope by Winspear, rack adjustment for width of eyes, mechanical rotating stage with motions in both directions, fitted with a pair of eyepieces
- Presentation binocular by Zentmayer, rotating goniometer stage, rack adjusting sub-stage, rack coarse adjustment, graduated fine adjustment; instrument rotates on the base, which is graduated*
- Ten various eyepieces
- Expensively made reading microscope by Nachet, rack adjustment on stem, fitted with eyepiece *of the thin eye & also the growth of plants*
- Demonstration microscope fitted with eyepiece and objective; and another with eyepiece

Dr. Lucan Guthrie reading microscope for the examination of the growth of plants

- 298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece; and another
- 299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage
- 300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier
6. 301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece
- 302 Portable microscope by Verick
- 303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case
- 304 Student's microscope with folding foot
- 305 Student's microscope, rack coarse adjustment and Wales' form of inclination
- 75/- 306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand
- 307 2 Dissecting microscope, with 3 powers on stand, another with 3 powers, and another
6. 308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye
- 309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope
- 85/- 310 Trichina microscope, revolving glass stage with rack adjustment
- 85/- 311 Microscope with large micrometer stage and screw adjustments
- 312 Four small microscopes
5. 313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross; fitted with a pair of "B" eyepieces
- 314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment
- 315 Two student's microscopes, rack coarse adjustments
- 316 Portable microscope by Collins, and a small ditto
- 317 Two student's microscopes with rack adjustments

Designed for class work & by Dr Beale this is his stand form

this is remarkable for the locking arrangement to prevent misuse in class work

A fine example of an American Medical Class microscope

this is hatched for examining the cornea of eye

An interesting & new form of binocular microscope

Interesting as being a Compound microscope with the object being placed between the two plates that form the stage

311 This was also designed to systematically teach the section of work for Trichina the ingenious movement to the stage should be noted.

- 298 Designed for class work etc by Dr. Beal, this is his second form.
- 299 This is remarkable for the locking arrangement to prevent misuse in class work.
- 301 A fine example of an American class microscope.
- 306 This is Nachet's corneal microscope for examining the cornea of eye etc.
- 308 An interesting very rare form of dissecting microscope.
- 310 Interesting as being a compressor and a microscope combined; the object was placed between the two plates that form the stage.
- 311 This was also designed to systematically search the section of port for Trichnia the ingenious movement to the stage should

321 Very interesting and rare form of microscope.

328 A very fine Museum microscope with all movements for exhibition; one of the best of its kind.

330 Prof. Primsheard's arrangement for viewing living objects at all temperatures; very rare form.

- 318 Student's microscope by Ladd, rack adjustment
- 319 Bacteriological microscope, by Bethle & Rexroth
- 320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective
5. 321 Stein's electric light microscope fitted with lamps and resistances *Very interesting & new form of microscope*
- 322 Portable microscope by Baker, and eyepiece, in leather case with straps
- 323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, $\frac{1}{4}$ in. with lieberkuhn, $\frac{1}{2}$ -in. correction collar, etc., in case
- 324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer
6. 325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye
- 326 Student's microscope fitted with swing-out sub-stage and Abbé condenser
- 327 Biological microscope fitted with extra large stage, by Schmidt & Haensch
12. 328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective *A very fine museum microscope with all movements for exhibition one of the best of its kind*
457. 329 Lossener's combined microscope and telescope with tripod stand
8. 330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser *Prof. Primshen's arrangement for viewing living objects of all constructions very rare*
- 331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes *form*

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

10. 333

A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

5. 334

A binocular microscope by Beck, for the examination of large objects

335

Five small microscopes

336

A small microscope on stand, and 3 others

6.

337

A. Leiter's stomach microscope

338

A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339

A Geneva Co.'s calliper microscope with graduated scale

5. 340

An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions

341

An expensively made microscope for the investigation of objects under the air pump, with table clamp

4. 342

An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343

A dissecting microscope and a microscope lamp, by R. & J. Beck

344

A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

6. 345

Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements

5. 346

Aquarium microscope with outer glass tube, and rack coarse adjustment

347

An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

Specially made for viewing large objects

Substantially for variety of adjustments

Universal form microscope made by Becker

Made especially for examining the eye the mirror was of glass the drop of the eye & when the eye was the eye also the all parts could be seen

346 *Stevenson's Aquarium mic it was placed across a tank & the microscope in the glass tube could then be focused on the objects in the water &c*

- 334 Specially made for viewing large opaque objects.
- 340 Noteworthy for the variety of its rack adjustments etc.
- 341 Unusual form of microscope made by Boecher.
- 345 Made specially for examination of the eye, the mirror was for fixing the direction of the eye and when the mirror was moved the eye also moved and then all parts could be examined.
- 346 Stevenson's aquarium microscope; it was placed across a tank and the microscope in the glass tube could then be focussed on the objects in the water.

354 Interesting form of inverted micro-
scope after Dr. Lawrence Smith.

355 Dr. W. Dix's microscope for measuring the
curved radii of the surface of the eye
an elaborately made instrument, extremely
rare, if not unique.

354 Interesting form of inverted microscope after Dr. Lawrence Smith.

362 Dr. M. Blix's microscope for measuring the curved radii of the surface of the eye; an elaborately made instrument, extremely rare, if not unique.

- 348 A horizontal microscope by Chevalier,
and brass stand
- 349 An expensively made lens holder on
stand, with rack adjustment, and a
microscope by Murray & Heath
- 350 An inverted chemical microscope by
Nachet
- 351 A vibration microscope, fitted with rack
adjustment, eyepiece, objective and
tuning fork
5. 352 An expensively made reading microscope,
fitted with micrometer, divided on silver,
and prismatic eyepieces
- 353 A binocular microscope by Smith & Beck
(A.F.)
- 354 An inverted chemical microscope by Nachet *of inverted microscope after Dr. Lawrence Smith*
- 355 An expensively made micrometer reading
microscope by the Cambridge Scientific
Instrument Co.
- 356 Aquarium micro cope on stand, fitted
with eyepiece and objective
- 357 A comparison microscope with graduated
movements to the stage
- 358 A Wasserlein saccharometer microscope,
fitted with bi-quartz
- 359 A reading microscope with micrometer,
screw motions, in horizontal directions,
by Plossl, and a carrier for a reading
microscope
- 360 An aquarium tank on stand by Klonne
& Muller, and a bull's-eye condenser, no
stand
- 361 An aquarium microscope, a lens holder on
stand, and an aquarium on stand
10. 362 An expensively made binocular exami-
nation microscope with graduated rack
adjustment to eyepieces, and graduated
coarse adjustment, reading by vernier,
by C. G. Collin, Stockholm
- 363 An inverted chemical microscope by
Nachet, adjusting swing-out sub-stage
with condensing lens, micrometer move-
ments to the stage

Index by Form
Dr. M. Blix's
microscope for
measuring the
curved radii of
the surface of
the eye & an
absolutely made
instrument & extremely
rare if not unique

- 364 A large bull's-eye stand condenser, 4-in. lens
- 365 A microscope lamp, fitted with bull's-eye condenser and sterilizer
- 366 A bull's-eye stand condenser, 3-in. lens
- 367 Two ditto
- 368 An inverted microscope by Nacet
- 369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens
- 370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye
- 371 A projection microscope on ornamental stand
- 85/- 372 An horizontal microscope by Nacet, fitted with eyepiece and powers *Microscope*
- 373 A large 4-in. lamp and condenser in brass mount, with slide holder
- 374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs
- 375 An expensively made heliostat
- 376 A microscope table with revolving casters
- 377 An expensively mounted tuning fork, to show vibrations in microscope
- 378 A fitted microscope case with microscope tubes, and other sundries
- 379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries
- 380 Seventeen small seed microscopes
- 381 Fourteen seed and other small microscopes
- 382 Fifteen seed and botanical microscopes
- 383 Nine Coddington and other hand magnifiers
- 85/- 384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles
- 385 Fifteen small hand microscopes
- 386 Twenty ditto magnifiers, etc.
- 387 Twenty-two various small magnifiers, in 2 cases
- 388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

a very rare form of early microscope

372 A very early form of microphoto micro-
scope.

- 364 A large bull's-eye stand microscope, 3-in. lens
- 365 A microscope, hand fitted, with bull's-eye condenser and slideholder
- 366 A bull's-eye stand condenser with lens
- 367 Two ditto
- 368 An inverted microscope by Nachet
- 369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens
- 370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye
- 371 A portable microscope on ornamental stand
- 372 An ornamental microscope by Nachet, fitted with eyepiece and powers
- 373 A large 4-in. lamp and condenser in brass mount, with slide holder
- 374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs
- 375 An expensively made heliostat
- 376 A microscope table with revolving casters
- 377 An expensively mounted tuning fork, to show vibrations in microscope
- 378 A fitted microscope case with microscope tubes, and other sundries
- 379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries
- 380 Seventeen small seed microscopes
- 381 Fourteen seed and other small microscopes
- 382 Fifteen seed and botanical microscopes
- 383 Nine Coddington and other hand magnifiers
- 384 Sixteen hand magnifiers: small microscopes, and 4 pairs of spectacles
- 385 Fifteen small hand microscopes
- 386 Twenty ditto new ones, etc.
- 387 Twenty-two various small magnifiers, in 2 cases
- 388 A small student's microscope on ball and socket joint, and 7 powers, and a number of small microscope powers in case

- 389 Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
- 390 A focusing glass by Ross, and another
- 391 Three dozen slides—various
- 392 Ditto
- 393 Ditto
- 394 Sixteen fine test diatoms, and 17 others
- 395 Three dozen sections of shells, pearls, etc.
- 396 Three dozen insects, etc., by Enoch, Topping, and other good mounters
- 397 Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
- 398 Thirty-eight insect parts, and various
- 399 Forty-one large insect parts and botanical
- 400 Twenty-eight various and 6 large injected slides
- 401 Two dozen large injected slides
- 402 Nineteen fine coal sections
- 403 Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
- 404 Thirty-one slides, various, by Enoch and others
- 405 Twenty-four test diatoms
- 406 Eight choice exhibition slides
- 407 Two dozen exhibition objects, in case
- 408 Eight choice slides showing the anatomy of the insect on one slide
- 409 A scarce diamond writing at the rate of 12 bibles to the inch, and another
- 410 A ditto
- 411 A scarce diamond writing at the rate of 13 bibles to the inch
- 412 A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
- 413 A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
- 414 A scarce diamond writing at the rate of 47 bibles to the inch

- 415 Noberts' ruling 11 bands, *now very scarce*
- 416 Ditto, 17 ditto
- 417 Ditto, 19 ditto
- 418 Ditto, 20 ditto

Another Property.

- 419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and $\frac{1}{2}$ -in. objectives, by Watson, and a $\frac{1}{2}$ -in. ditto by Powell & Lealand; coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, Abbé condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (perfect condition)*
- 420 Microscopic lamp with bull's-eye, in case
- 421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
- 422 Forty-three well mounted micro slides, contents of 2 drawers
- 423 Forty-eight ditto
- 424 A ditto lot
- 425 Sixty ditto, contents of 3 drawers
- 426 A Morton's opthalmoscope in case
- 427 Old medical book with coloured illustrations
- 428 An air pump with glass shade
- 429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
- 430 Pair Carl Zeiss prismatic binoculars, 8x, in case
- 431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
- 432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
- 433 A 4-volt 40 amp. "Ever Ready" ditto
- 434 An 8-volt 30 amp. accumulator, charged

- | | |
|-----|--|
| 435 | Three 2-volt 100 amp. "Lucas," charged |
| 436 | Half-dozen 4-volt 4 amp. "King Eton,"
new |
| 437 | Half-dozen 4-volt 4 amp. ditto, ditto |
| 438 | Half-dozen 4-volt 4 amp. ditto, ditto |

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and
Curios from Omdurman, the Property of
an Officer.

Chinese and Japanese Porcelain ; Ivories ;
Bronzes ; Native Curios, etc.

**THURSDAY, NOVEMBER 18th, and
FRIDAY, NOVEMBER 19th :—**

Scientific and Photographic Apparatus ;
Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also
Cabinets, being the Collections of Captain
Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and
Roman Antiquities.

126-2-6

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to
Entomology, Ornithology, Conchology, Minerals,
Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural
History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

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Phone : Gerrard 1824.

Sale Nos. 13,232—13,233

*Sale to commence at **12.30** o'clock each day.*

THURSDAY and FRIDAY, DECEMBER 9th and 10th, 1920.

A CATALOGUE OF
Miscellaneous Property,

INCLUDING

Two 5-inch Ornamental Lathes by Holtzapffel;
a variety of Chucks and accessories; Circular Saw;
Grinding Machine; quantity of Tools and Drills;

A LARGE IVORY TUSK;

Several small Tusks;

AND

QUANTITY OF HARDWOOD FOR TURNING.

The third portion of the

Collection of Microscopes and Accessories

formed by the late SIR FRANK CRISP, Bart.,
including many fine Microscopes, Spectroscopes, Polariscopes, etc.

Photographic Apparatus and Cameras,

with LENSES by Goerz, Cooke, Zeiss, Ross, etc;

Telescopes, Lanterns and Slides, Prismatic Binoculars, Typewriters,
Gramophones, Records, Motor Cycle, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On THURSDAY and FRIDAY, December 9th and 10th, 1920,

*At **12.30** o'clock each day.*

On view the day prior, from 12.30 till 5.30 o'clock, and Mornings of Sale
from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King
Street, Covent Garden, W.C. 2.

Telegraphic Address: AUKS, RAND, LONDON.

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

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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.

** * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

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.

A CATALOGUE

FIRST DAY'S SALE

Thursday, December 9th, 1920.

AT 12.30 O'CLOCK.

ON VIEW :

Wednesday, 12.30 p.m. to 5.30 p.m.

Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT

- | | |
|----|--|
| 1 | A new canvas side cover |
| 2 | A case of insulators, and a hamper of baskets |
| 3 | An engine cylinder |
| 4 | A sheep-shearing machine in parts, a copper container, and a gas heater |
| 5 | Spong's knife machine, for 2 knives and carver, new condition |
| 6 | Piano stool, leather covered, square thread, new |
| 7 | An overcoat, by Aquascutum, Regent St., and a pair of brown leather leggings |
| 8 | Good electric mole coney coat, American dye |
| 9 | Good electric French coney coat, long hair mole coney collar and cuffs |
| 10 | Ditto with dark collar and flounce |

- 11 Two dozen $\frac{3}{4}$ -in. black handle hollow-ground Sheffield make razors
- 12 Lady's rosewood dressing case
- 13 An 18-inch decorated Imari plate
- 14 A Sheffield-plated 3-bottle liqueur stand, and a 2-bottle ditto
- 15 Silver Waltham demi-hunter, silver wristlet, and 2 gun-metal watches
- 16 A gentleman's gold hunter, in good working order
- 17 Twelve small Baxter prints, and one Le Blond print
- 18 Gold bracelet watch
- 19 Gentleman's gold signet ring
- 20 Gold chain ring
- 21 Well-made coil and spring winder
- 22 Lady's silver wrist watch, and another
- 23 Electro-plated table lamp
- 24 Brass table lamp
- 25 Steljes' recorder, new condition
- 26 Lady's escritoire, having finely painted Sèvres panels, and massive ormolu mounts
- 27 An open bookcase
- 28 Circular mahogany table on tripod feet

BOOKS, &c.

- 29 The Works of Samuel Johnson, LL.D., leather bound, 11 vols.
- 30 Byron's Life and Letters, 6 vols. ; Byron's Poetical Works, 10 vols.
- 31 Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart
- 32 Hallam's Middle Ages, History of England, etc., 13 ; History of the War, etc., 9
- 33 Twenty-four vols. various
- 34 Twenty-four vols. various
- 35 Twenty-four vols. various
- 36 Poems, etc., 12
- 37 Memoirs of Egypt Exploration ; Paris Picturesque ; History of York Cathedral ; Swiss Pictures, and 13 others (17)

- 38 Framed picture—Balaclava, and 2 others
- 39 Framed engraving—Meeting of Wellington and Blucher
- 40 Old engraving, framed—Blind Fiddler; painting in oils, crayon drawing, and another
- 41 Charming water-colour drawing, gilt frame—York Minster
- 42 Old painting in oils—Goats

GRAMOPHONES, RECORDS, &c.

- 43 A cabinet Zonophone with sound box, tone arm, and large horn, good motor
- 44 A dozen gramophone records including 2 Tetrassini, 1 Melba and some French operas
- 45 Thirty assorted gramophone records
- 46 Twenty-eight ditto
- 47 Two dressing bags (one containing a number of silver-mounted fittings)
- 48 A gentleman's dressing case with fittings, and 4 small writing pads
- 49 One dozen Marathon records
- 50 Sixteen Zonophone records
- 51 Sixteen various
- 52 Table gramophone, double spring
- 53 New oak cabinet gramophone, complete
- 54 Hornless oak cabinet gramophone, 6-in. tone-arm, complete, new
- 55 Hornless oak cabinet gramophone, 5-in. tone-arm, complete, new
- 56 Two doz. gramophone records
- 57 Ditto
- 58 A walnut penny-slot musical Polyphone, 3ft., and tunes, in perfect order (originally cost £20)
- 59 Ditto
- 60 Ditto
- 61 Ditto
- 62 Twelve rolls 65-note player-piano music
- 63 Ditto, ditto

- 64 A very fine mahogany pedestal gramophone, with record cupboard, Chippendale style, fitted with heavy double-spring worm-driven motor, and fine sound box
- 65 Massive Heppelwhite style pedestal gramophone, with record cupboard, fitted with heavy double spring worm-driven motor and sound box
- 66 Mahogany pedestal gramophone, with record drawer and cupboard, fitted with double spring worm-driven motor and fine sound box
- 67 Mahogany dwarf pedestal gramophone with American double spring worm-driven motor and fine sound box
- 68 Solid mahogany pedestal gramophone with venetia front, fitted with double spring worm-driven motor
- 69 Twelve 12-in. gramophone records in album, H.M.V., Columbia, Celebrity, etc., condition as new
- 70 One dozen 12-in. gramophone records
- 71 One dozen 10-in. ditto
- 72 One dozen 10-in. ditto
- 73 One dozen 10-in. ditto
- 74 One dozen 10-in. ditto

WINES AND CIGARS.

- 75 Twenty-five cigars, La Flor de Villa Rica
- 76 Twenty-five ditto
- 77 Twenty-five ditto
- 78 Seventeen cigars; H. Upmann, Habana ; 3 ditto, John Alvarez ditto, and casket ; and 43 Partagas, Habana
- 79 Thirty-two cigars, Punch De Valley, Habana ; 9 ditto, Villar Villar, Habana ; 18 ditto, Henry Clay, Habana
- 80 Eighty cigars, Villar Villar, Habana
- 81 Fifty ditto, La Carona, Habana
- 82 Fifty cigars, Romeo y Julietta (size Romeo, No. 1), boxes of 25
- 83 Ditto
- 84 Ditto

- 85 Fifty cigars, Romeo y Julietta (size
Romeo, No. 1), boxes of 25
- 86 Ditto
- 87 Ditto
- 88 Ditto
- 89 Ditto
- 90 One dozen bottles of St. Estephe, 1916
vintage
- 91 Ditto
- 92 Ditto
- 93 One dozen Red Lisbon wine, port style
- 94 Ditto
- 95 Ditto
- 96 Ditto
- 97 Ditto
- 98 One dozen Red Mistella wine
- 99 Ditto
- 100 Ditto
- 101 Ditto
- 102 Ditto
- 103 Sparkling Muscatel, Golden Coronet, a
case of 12 bottles
- 104 Ditto
- 105 Ditto, a case of 24 half-bottles
- 106 Sparkling Muscatel (ruby), Golden Coro-
net, a case of 12 bottles
- 107 Ditto
- 108 Ditto, a case of 24 half-bottles

LATHES, TOOLS, &c.

To be sold about 2 p.m.

- 109 A large self-centering chuck, by Holtz-
apffel
- 110 A large 6-in. chuck, independent jaws
- 111 A small self-centering chuck, 1 screw
chuck, 1 polishing disc, and various
accessories, 14 pieces in all, and a small
chest of lathe tools
- 112 A 12-in. independent chuck
- 113 Twelve lathe tools, $\frac{3}{8}$ -in. square
- 114 Watch jewellery tool, in case
- 115 Watchmaker's mandrel

- 116 *Drummond's* 3½-in. saw table, new, with spindle, and two saws
- 117 Scroll chuck, 2-in., and 6-in. circular saw on arbor
- 118 Working model of hydraulic press
- 119 Set of *Whitworth* stocks and dies, ⅜-in., ½-in. and ⅝-in., new condition
- 120 Ornamental slide rest, by *Evans*
- 121 Divided chuck, by *Evans*
- 122 An 8½-in. *Horton* S.C. chuck, key, one set jaws
- 123 A 5-in. *Almond* S.C. chuck, key, one set jaws
- 124 *Gronkvist* chuck for morse taper shank
- 125 Manchester straight line tapping chuck with Morse taper shank
- 126 Ditto
- 127 Motor cycle, 3½-h.p., 3 speed gear, thoroughly overhauled and replated and enamelled and new parts, and new heavy Dunlop tyres and tubes
- 131 *Brown & Sharpe* 2-in. micrometer, and *Starrett* 2-in. to 7½-in. internal micrometer
- 132 An aluminium slide rule, in case
- 133 *Brown & Sharpe* cast steel standard rule, in mahogany case (24-in. long), markings, 1/64ths one edge, .01-in. other edge, and also a dot device for marking down to .001-in.
- 134 A 6-in. rule marking micrometer, by *W. Madsen*, marks off from both ends leading screw 1/40-in., controlled by double-handled disc showing .001 in a space of ¼-in., the machine therefore can approximate to .0001, two screw vices and faces are adjustable to micrometers and has four distance pieces and back stop
- 135 *Starrett* micrometer, 1-in. *Whitworth* Standard, 8 to 13P. graduated, .000in. to 1-in. for screws, and 2 adjusting wrenches, all in wood box

- 136 *J. T. Slocomb*, 1-in. to 2-in. micrometer, 1·000 to 2·000 with adjusting wrench, in cardboard box
- 137 *J. T. Slocomb*, ·000-in. to 1-in. micrometer with adjusting wrench, in cardboard box, and an Imperial standard wire gauge, double disc type
- 138 A 4-draw pocket telescope, an ivory scale rule, and a Sikes's hydrometer
- 139 A sliding vernier micrometer by *Troughton & Simms*, to read up to 14ins. inside and 13ins. outside, by 1/400th inch, in hardwood case
- 140 Double spirit level, and steel straight edge, new
- 141 A large *Stanley* plane
- 142 Small vice, watchmaker's mandrel, and other tools
- 143 Mahogany case with taps and dies
- 144 Two 0-½-in. *Goodell* pattern drill chucks, new
- 145 Two ditto
- 146 One *Goodell* pattern drill chuck, and gross 8-in. hack-saw blades
- 147 Two gross 8-in. hack-saw blades
- 148 Two gross 10-in. *Star* hack-saw blades
- 149 A large model engine, *Black Prince*, with brass boiler, complete with tender (A.F.)
- 151 A 5-in. *centre lathe* by *Holtzapffel*, with iron heads, brass pulley with speed grooves, best division plate, adjusting index, tangent screw movement, segment plate with stops, cylinder poppet head, 2 centres and flange, rest and 3 tees, mounted on a double-framed mahogany stand, iron bearings, double bevel wheel, crank and treadle, nest of 6 drawers fixed under lathe for chucks, etc. ; also boring collar, plate and head, overhead motion, 30 brass chucks, 8 drills, oval chuck and ring, compensating index and key, 3 pairs of double screw chucks, die chuck and lathe key, and a large number of boxwood chucks

- 152 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever fitted with automatic drive for same, fitted for spiral apparatus and curvilinear apparatus

The following six chucks have been used with the above lathe, No. 2130 :—

- 153 *Bennett's* die chuck
 154 A gunmetal universal chuck
 155 A spherical chuck
 156 A rectilinear chuck
 157 An eccentric chuck
 158 A spiral chuck, radial arm and bolt, 16 change wheels, 3 arbors, surface spiral and bolt, 2 mitre and 2 round edge wheels, arbor for slide rest, blanks and washers and key
 159 A 5-in. *Cushman* chuck and key
 160 A 3-in. ditto (no key)
 161 Ditto, with key
 162 A 2-in. ditto and key, with 2 sets of jaws
 163 A guide for slender turning
 164 A ditto
 165 A set of 3 lathe taps, handled in mahogany
 166 Curvilinear apparatus consisting of 2 posts and screws, steel bar, 13 curves, and rubber
 167 A 5-in. *centre lathe* by *Holtzapffel*, No. 880, traversing mandrel, tangent screw movement, segment plate and stops, 6 screw guides, and conducting apparatus for same, best division plate, adjusting index, cylinder poppet head, 2 centres and flange, 2 hand-rests and 2 tees, lathe key, oval chuck and ring, 34 brass chucks, 10 brass rings for spring chucks, 12 carpenter's bits fitted to brass chucks, and a large number of boxwood chucks

The following have been used with above lathe :—

- 168 A spherical chuck
 169 An eccentric chuck
 170 A ditto

- 171 A spiral chuck, radial arm and bolt, 17 change wheels, 3 arbors, arbor for slide rest, blanks and washers and key
- 172 A 5-in. ornamental slide rest, cradle, fluting stops, collar, winch handle, straight key and lever
- 173 *Atkinson's* reciprocator
- 174 A ditto
- 175 Four cutter bars
- 176 A cutter bar and 3 blades
- 177 Cutter bar for external threads, and 7 blades
- 178 A ditto for internal threads, and 15 blades
- 179 A triangular cutter bar, and 25 blades
- 180 A chisel cutter bar and 1 blade, and a gauge cutter bar and 2 blades
- 181 A vertical frame by *Hines*
- 182 An internal cutting frame
- 183 A ditto
- 184 A universal cutting frame
- 185 A large ditto with 3 pulleys and key
- 186 A universal cutting frame
- 187 An eccentric cutting frame and key
- 188 A ditto
- 189 A vertical cutting frame, 4 pulleys and key
- 190 A ditto and key
- 191 An internal cutting frame with guide pulleys
- 192 Brass centering plate, a brass grinder, key for counter-sunk heads, 3 keys, 8 cylinder bits and 3 drills, 2 large slide rest tools, a set square, a set bevel, 1 tap, 1 cylinder bit, and 3 handles, 2 screw plates and taps
- 193 A small parallel vice
- 194 A goniostat in mahogany case, 3 cans of powder, oil can, 3 laps, and 3 holders for small cutters
- 195 Another in mahogany case, 3 laps, and 1 holder for small cutters
- 196 An instrument for sharpening bead tools, in mahogany case, 12 cones, and 14 drills
- 197 A ditto in mahogany case, 7 cones, and 12 drills

- 198 A lot of miscellaneous cutters and tools
- 199 A mahogany engine tool case, containing 86 small slide rest tools, 98 eccentric cutters, 36 universal cutters, a drilling instrument and 111 drills, a holder for sharpening, and a socket handle
- 200 A mahogany case containing 151 slide rest tools, and socket handle
- 201 A mahogany case containing drilling instrument and 102 drills, and a holder for sharpening
- 202 A mahogany tray containing 90 slide rest tools and horizontal cutters
- 203 A mahogany tray with drilling instrument and 140 drills
- 204 A mahogany tray containing 133 eccentric cutters
- 205 *Holtzapffel's circular saw on mahogany stand, 6 saws, quadrant, and key*
- 206 *A grinding machine on mahogany frame stand, trough and rest, 2 stones, lead cap, and buff wheel*
- 207 *A large well-seasoned ivory tusk, about 4ft. long, maximum diameter 4in.*
- 208 A part ivory tusk, 12in. long, and 4½in. diam.
- 209 Six small tusks and parts
- 210 Ditto
- 211 Eight part ivory tusks
- 212 Six small pieces of ivory, and bag of fragments
- 213 A large quantity of hard woods

Experiments made with aeroplane propellers have proved that they are suitable for turning, and very satisfactory results have been obtained by the vendors of the following lots :—

- 214 Three aeroplane propellers
- 215 Ditto
- 216 Ditto
- 217 Ditto
- 218 Ditto

- 219 One dozen new taps, *special Whitworth*
- 220 One dozen ditto, .445, 20 threads
- 221 Six ditto
- 222 Ten high-speed drills, new, 10 millimetres,
left-handed
- 223 Two sets 5/16-in. *Whitworth* taps, 3 new
- 224 Two ditto
- 225 Three ditto
- 226 Three new slotting cutters, 2½ in. by ½ in.
- 227 Ditto
- 228 Ditto
- 229 Six ditto
- 230 Six new slotting cutters, 3 in. by 5/32 in.
- 231 Six ditto
- 232 A 4¼-in. centre *Relmac* bench lathe, by
Hatch, fast and loose pulleys, tail-stock,
slide rest and lead screw, but no change
wheels
- 233 A massive 3-ft. oak bench with very heavy
fly-wheel and treadle motion, and stepped
driving pulley
- 234 A grinding, polishing and turning lathe,
2-ft. bed on iron standards, with heavy
fly-wheels, treadle, tool rest, and emery
wheels
- 235 A *Reliance* post drill
- 236 An engineer's 12-in. protected level, by
Starrett
- 237 Extension trammel and set ball points
by ditto
- 238 A *Lloyd's* register decimal gauge, for mea-
suring hundredths, etc., with ordinary
callipers
- 239 A pair of Vee blocks and clamp for drilling,
etc., round rods
- 240 Two powerful 6-in. G cramps
- 241 A massive bolt cropper (needs nut)
- 242 A small blow lamp
- 243 A small spirit soldering iron
- 244 A *Goodell-Pratt* ½-in. drill chuck
- 245 A new glazier's diamond
- 246 A reciprocating hand-drill
- 247 A vice for drilling machine use
- 248 A tool pad and sundry callipers

- 249 A new 22-in. beech trying plane, and a ditto jack plane
- 250 A Union 9-in. iron smoothing plane, a pin vice, a hand vice, and a tap wrench
- 251 A *Clarke's* expansion bit for wood, expansion drill for iron, a new $\frac{5}{8}$ -in. twist drill, ditto reamer, etc.
- 252 A 7-in. circular saw, with lathe spindle (arbor)
- 253 A microscopic metal camera with lens, in case, twelve metal slides, and focusing screen
- 254 Two Huyghenian eyepieces, x4 and x6
- 255 A 5-in. Whitton 3-jaw scroll chuck, in good condition
- 256 A $4\frac{1}{2}$ -in. Parkinson quick-release vice, perfect
- 257 Microphotographic apparatus, consisting of microscope portion fitted with an objective and small condenser, and the camera portion with dark slide fitted thereto
- 258 One dozen centre drills, size B, new
- 259 One dozen ditto
- 260 One dozen ditto
- 261 One dozen ditto
- 262 One dozen ditto
- 263 Two dozen ditto
- 264 Two dozen ditto
- 265 One dozen twist drills, new, 9/64
- 266 One dozen ditto
- 267 Two dozen ditto
- 268 Two dozen ditto
- 269 One dozen twist drills, new, size 35
- 270 One dozen ditto
- 271 One dozen ditto
- 272 One dozen twist drills, new, size C
- 273 One dozen ditto
- 274 One dozen ditto
- 275 One dozen ditto
- 276 Two dozen ditto
- 277 Twenty-five metal saws, $2\frac{3}{4}$ in. diam. by 1-in. hole

- 278 Ten " India " and " Aloxite " stones, in
teak tray
 - 279 Thirty reamers, standard, straight and
taper, in stand, new
 - 280 A set of 1-in. *Whitworth* standard taps,
in stand
 - 281 Thirty twist drills and cutters, in stand
 - 282 Four new milling cutters, 2 to $\frac{1}{4}$ -in., and
2 to $\frac{3}{8}$ -in. diam., and 16 small
 - 283 Armstrong knurling tool, 3 grades
 - 284 Two forming tool holders, inside and out-
side, with tools
 - 285 Brand new Starrett 4 to 5-in. micrometer
 - 286 Nine riveter's tools
 - 287 C.O. generator, new
 - 288 Ditto
 - 289 Stanley plane, No. 78
 - 290 Saw setting vice
 - 291 Carpenter's bench clamp
 - 292 Box joiner's tools, plane, set of scrapers,
bits, etc.
 - 293 Box engineer's tools, hand drills, 6 span-
ners, foot-prints, stones, chisels, etc.
 - 294 Sixty twist drills, assorted
 - 295 Box of lathe tools
 - 296 Box of electrical sundries
-
- 297 Stock's patent bioscope lantern
 - 298 Busch A.G. Rathnow lens
 - 299 Ditto
 - 300 " Prince of Wales " acetylene generator
and lamp
 - 301 Manheim slide rule in case
 - 302 Large 4-pole magnet
 - 303 A 20-gall. tinned steel petrol tank, fitted
with unions
 - 304 No. 7 Elman's duplicator, nearly new,
complete, mahogany case
 - 305 Twenty 10-in. assorted records
 - 306 No. 1 Hartford drill chuck, 0 to $\frac{1}{2}$ in., new
 - 307 A 3-piece electro-plated tea service
 - 308 Pipe wrench, and 4 builder's trowels
 - 309 Pair lever cutting pliers, and half-dozen
razor strops

- 310 Pair candlesticks, and 6 egg cups
- 311 A 26-in. hand saw, and 24 builder's levels
- 312 Pair carriage lamps
- 313 Two 28-lb. and one 400-lb. balance
- 314 Brace and 6 bits
- 315 Motor pump, and N.P. hack saw
- 316 Bough pruner, and hack saw
- 321 Two large model motors
- 322 Large medical coil, in case
- 323 One hundred pocket lamp $3\frac{1}{2}$ -volt bulbs, guaranteed perfect
- 324 Thirty-six nickel-plated torch cases
- 325 Three dead beat volt and amp. meters
- 326 Large mechanical train, perfect
- 327 Complete clown's costume, never worn
- 328 Complete nigger's costume, quite new
- 329 Complete pierette costume, new
- 329A Twelve sets of coloured lantern slides (12 to a set, with readings)
- 330 An $8\frac{1}{2}$ -in. enlarging condenser, new
- 331 Four section telescopic metal tripod, new, fitted with double springs to each joint
- 332 Lilliput roll film camera
- 333 A $\frac{1}{4}$ -plate folding camera with double lens, various speeds working at F/8 with focus screen, 2 metal dark slides, and antinous release, new, in perfect order
- 334 Twelve $\frac{1}{4}$ -plate metal slides to fit Cameo camera
- 335 Twelve ditto to fit Klito camera
- 336 Post-card size film pack adapter, to fit Klito camera
- 337 Twelve pocket lamp accumulators
- 338 Full-size optical lantern, complete
- 339 Incandescent outfit, tray, fittings, and inverted burner
- 340 Splendid mahogany bodied optical lantern with 4-in. Meniscus condenser, brass front, 2 doors, rackwork lens and incandescent outfit, complete, new, perfect
- 341 Twenty-four superior Sheffield safety razors, fitted with Gillette pattern blades
- 342 Superior hornless gramophone, new, with six double-sided records

- 343 One hundred guaranteed perfect $2\frac{1}{2}$ -volt metal filament bulbs for pocket lamps and torches
- 344 Best large lens American torch (real fibre), with new battery, complete
- 345 Six new pocket lamp accumulators
- 346 Two motors
- 347 Three dozen horse-shoe magnets
- 348 Six dozen. 2-ft. high rods, with aluminium fittings, suitable for lantern tripods, banisters, fencing, shelf supports, etc.
- 349 Two electric cycle lamps (front and rear)
- 350 Six post-card size metal dark slides, to fit Klito camera
- 351 Three perfectly new dead beat combined volt and amp. meters
- 352 Three Ediswan electric bells, new
- 353 Two high-grade Sterling Telephone Co.'s bells
- 354 Three best quality bells of the Efandem Company
- 355 Very special quality $2\frac{1}{2}$ -in. focus cinema lens, new
- 356 Ditto, 3-in. ditto
- 357 Ditto $3\frac{1}{2}$ -in. ditto
- 358 Ditto 4-in. ditto
- 359 Electric railway, new, perfect condition
- 360 Complete cinematograph for home use
- 361 Two $5\frac{1}{2}$ -in. enlarging lenses

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, December 10th, 1920.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

LOT	
401	A pair of antlers, curtain pole, and various iron rods for curtains
402	A small washing machine for blankets
403	Fifteen gramophone records
404	Sixteen gramophone records
405	Two expensive vacuum cleaners
406	A small wringer
407	A plated hot-water jug, a ditto flask, and a plated kettle stand
408	One hundred and forty antique copper coins and tokens
409	Box of gold and silver articles, coins, and jewellery
410	A silver motor clock
411	A very heavy silver cigar case, beautifully engraved
412	Heavy silver flask
413	A 14-day ormolu clock, in order
414	A gold expanding wrist watch

- 415 Mahogany H.M.V. hornless gramophone,
cost 14 guineas
- 416 Gramophone, Columbia, double motor
- 417 Mahogany pedestal gramophone, fitted
double spring motor, goose neck, tone
arm, and sound box
- 418 Oak pedestal gramophone, fitted double
spring motor, goose neck, tone arm and
sound box
- 419 Mahogany pedestal gramophone, fitted
double spring motor, goose neck, tone
arm and sound box
- 420 Oak pedestal gramophone, fitted double
spring motor, goose neck, tone arm and
sound box
- 421 Mahogany pedestal gramophone, fitted
double spring motor, goose neck, tone
arm and sound box
- 422 Oak pedestal gramophone, fitted double
spring motor, goose neck, tone arm and
sound box
- 423 A Remington typewriter, No. 7, 9-in.
roller
- 424 A ditto
- 425 A Remington typewriter
- 426 A 4-ft. oak pedestal roll-top desk (no centre
drawer), slightly damaged
- 427 An Elliott-Fisher book-keeping machine
- 428 An Elliott-Fisher book-writer
- 429 *Six Ediphone dictating machines, etc., and
a machine for shaving cyclinders*
- 430 Goerz prismatic monocular prismatic
field glass, in leather case
- 431 A gentleman's silver English lever, lady's
silver watch, and a metal watch
- 432 Binocular microscope, rack and fine adjust-
ments, inclining, with eyepieces and
objective, condenser, etc., in mahogany
case
- 433 A No. 11 Remington typewriter in first
class order and condition, fitted 2 colours,
backspacer and tabulator
- 434 Expensive pair electric curling irons, com-
plete with flex and wall plug

- 435 Foolscap carriage, for Oliver visible type-writer
- 436 A No. 10 Smith Premier visible type-writer, writing 2 colours, with back-spacer and tabulator, first class order and condition
- 437 An oblong Japanese lacquer tray, inlaid silver
- 438 A ditto, ditto
- 439 A circular ditto
- 440 A ditto, ditto
- 441 A pair of Oriental porcelain ginger jars and covers
- 442 Handsome pair ditto vases, birds and flowers, 18in.
- 443 Another pair (smaller)
- 444 A porcelain tazza, enamelled in basket of flowers, on pink ground
- 445 Set of 3 Chinese porcelain plates
- 446 Large yellow ground jar and cover painted in birds and flowers, 15in.
- 447 A silvered and gilt shrine with figure of Buddha
- 448 A ditto with 3 idols
- 449 Pair eggshell Oriental vases
- 450 A ditto pair (globe-shaped)
- 451 Two coloured Oriental figures
- 452 Large mandarin necklace with pendant and drops
- 453 Two ivory necklaces, graduated beads
- 454 Pair Chinese vases, richly decorated in figure and birds
- 455 A set of 5 vases, 3 with covers
- 456 A carved ivory group of figures
- 457 A ditto, ditto
- 458 Fur coat with fashionable skunk opossum collar
- 459 A ditto

SCIENTIFIC INSTRUMENTS, &c.

- 460 A student's microscope by Crouch, with 2 eyepieces, and objectives, in case
- 461 A fine case of optician's eye testing lenses, by Pickard & Curry (incomplete)

- 462 A graphoscope (folding)
- 463 Sextant, by Schmalcalder, with horizon and $1\frac{3}{4}$ lbs. mercury, in brass bound case with lock and key
- 464 Surveying level by Adie, in case with lock and key, and tripod for same
- 465 Surveyor's staff, 3-length, 14ft.
- 466 Prismatic field glass, 8x central focusing and case
- 467 Monocular microscope by Smith & Beck, mechanical stage, substage condenser, 4 eyepieces, 3 objectives, and 12 other fittings in mahogany case
- 468 Special polariscope set for the above microscope
- 469 Six dozen popular microscope slides, in case
- 470 Prismatic binocular, new condition, in case
- 471 Long range taper telescope, in case, 2 eyepieces
- 472 Three $\frac{3}{4}$ -in. telescope object glass, in brass mount
- 85/- 473 Large prism binocular telescope by Carl Zeiss
- 474 Claude Lorraine mirror and sketching board by Steward, Strand
- 475 Corn scales in case, thermometer and compass
- 476 Single lantern by Newton & Co., 4-in. condenser, complete in case
- 477 Seventy coloured lantern slides on Japan, and 25 on India
- 478 One hundred and ten ditto—many hand coloured—Africa
- 479 Fifty-five ditto, coloured Egypt, and 36 others
- 480 Eighty ditto, coloured, in box
- 481 Seventy Continental views by Levi, Paris, and 48 others
- 482 Large quantity of lantern slides (over $\frac{3}{4}$ hundredweight)
- 483 Two large diameter cinematograph lenses
- 484 Three Pathé lantern lenses
- 485 Two large diameter cinematograph lenses

- 486 A No. 3 Powell & Lealand microscope, 1 eyepiece, mechanical stage and fine adjustment
- 487 A Powell & Lealand student's microscope, 1 eyepiece, and sliding bar stage
- 488 Orthoscopic eyepiece by Zeiss
- 489 Micro spectroscope by Zeiss, in case
- 490 Binocular eyepiece by Zeiss, in case
- 491 A binocular microscope by Crouch, 2-in. 1-in., and $\frac{1}{4}$ -in. objectives, achromatic condenser, polarizer, parabolic reflector, 2 eyepieces, lieberkuhn, live box, camera lucida, etc., in mahogany case
- 492 Expensive mechanical microscope stage with double rack and pinion, horizontal motions, and screws for attaching to any plain stage
- 493 Massive brass dissecting microscope stand with lens holder, stage with large aperture, rack and pinion coarse adjustment, swing mirror, extension tube and swivel motion, on heavy triple foot base
- 494 Zeiss prismatic binoculars, 8x, in case
- 495 Zeiss marine binoculars, 6 \times 30
- 496 Zeiss prismatic binoculars, 6x, in case
- 497 Goerz field glass
- 498 Zeiss prismatic binoculars, 6x
- 499 *Negretti & Zambra binocular microscope*, in glass-fronted mahogany case with various accessories, including 5 objectives, 5 eyepieces, micrometer ditto, camera lucida, substage condenser with iris, spot lens, large and small bull's-eye condensers, 2 live boxes, compressor, selenite stage, polariser, analyser, etc., etc.
- 500 *Swift micro lamp* with bull's-eye and other attachments, in case
- 50/- 500A *Automatic stamp affixing machine*, with numbering device and key 9.0.
- The third portion of the Collection of Microscopes and Apparatus formed by the late Sir Frank Crisp, Bart.*
- £25. 501 *A binocular presentation microscope, the Watson Draper, rack coarse adjustment,* £20

Lot 501.

This is the actual microscope illustrated
in Mayall's lecture on the microscope
it is an interesting & scarce form of Binocular
microscope & Historically speaking, important
as showing the very complicated arrangement
of lamps in connection with mirrors
for the purpose of obtaining very oblique
illumination.

Lot 506. Interesting as showing Yucca
method of making their ordinary histological
stand portable

- graduated patent fine adjustment*, graduated inclination, rack adjusting substage with centering screws fitted with a pair of " B " capped eyepieces, 2 micro lamps with metal chimneys, and fitted with bull's-eye condensers attached to base of stand ; the whole in new condition, by Watson & Sons
- 502 An " A " objective by Zeiss
- 503 A " C " ditto
- 504 An " E " ditto
- 505 A " J " ditto
- 60/- 506 A student's microscope stand by Zeiss, *£3 0 0*
with eyepiece
- 507 Microscope rack coarse adjustment, patent fine adjustment, rack adjusting substage with centering screws, rotating graduated mechanical stage fitted with " B " eyepiece by Ross
- 508 A 4-in. objective by Ross
- 509 A 1½-in. ditto
- 510 A ½-in. objective by Ross, with graduated correction collar and cone front
- 511 A ⅓-in. objective by Ross with graduated correction collar, can be used either as an immersion or dry
- 512 Five odd stages
- 513 Three goniometer stages
- 514 Pair of " A " capped eyepieces, 1 with indicator, and a " B," " C," " D " and " F " ditto
- 515 An " A " eyepiece with adjustable diaphragm, 2 " B " eyepieces, 1 with indicator, and 4 others
- 516 Three capped eyepieces with indicators, and 4 others
- 517 *Sphere of clear quartz, 2½-in. in diameter full, mounted on brass adjustable stand*
- 518 Four cases of various coloured glass screens for the microscope
- 519 Centering substage fitting, swing out under-stage, with iris, camera lucida, and other micro sundries

520	Mahogany bodied projection lantern, 4-in. condenser, by Watson & Sons	
521	A projection microscope fitted with drawing prism and rack adjustment, by Watson & Sons; fits above lantern	
40/- 522	James' exhibition microscope	£1 10. 0
65/- 523	Student's microscope by Kellner, fitted with eyepiece and objective	£2 15. 0
524	Portable microscope and a student's ditto, with objective and eyepiece	
£5 525	Demonstration microscope by Nachet, with extra handle and stand	£4 0. 0
526	Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage	
£4 527	Portable microscope, rack coarse adjustment, in brass case	£4 0. 0
£7 528	Koristka's large stage microscope	£4 0. 0
£7 529	Erecting binocular rack coarse adjustment, fitted with a pair of capped eyepieces	£6 6. 0
£5 530	Worked sphere with universal movements in brass mount, by C. D. Ahrens	£4 5. 0
65/- 531	Two small youths' microscopes, 1 by Schirck	£3. 0. 0
532	A $\frac{1}{8}$ -in. micro objective with correction collar, by Powell & Lealand	
£5 533	Soiree microscope, with a pair of capped eyepieces, stage condenser and lamp, by R. & J. Beck	£3 0. 0
£15 534	Giant microscope with adjustable stage, fitted capped eyepiece	£10 0. 0
535	Revolving polariscope, fitted with a square end prism, $\frac{3}{4}$ -in. by $\frac{3}{4}$ -in. by $1\frac{3}{8}$ -in.	
45/- 536	An Amica prism on adjustable stand, and another prism on stand	£3. 0. 0
35/- 537	A prism with circular faces, 2-in. diameter, on adjustable brass stand	
538	A light modifier on stand with ball and socket movements, and an adjustable screen holder and a lens holder with ball and socket movements	
539	Polariscope, and 4 nicol prism analysers	

Lot 522 This form of Microscope was used
by a travelling Showman, he had (4)
placed to the table for exhibition

" 523 In this Microscope the whole
body of the Microscope can be rotated
on the base, thus giving illumination
in all Azimuths

525 An interesting form can be used either
in the hand or on a stand

527 Uncommon form of portable notable for
the heavy brass Case somewhat un-
necessary in a portable instrument

528 Dr. Giacomini's brain Microscope
with extra large stage for brain sections

529 Scarce form (probably unique) made
by the celebrated prism maker, Choate
who was its inventor

530. Made by above & good specimen of his work

531 I have a Conoid Cone from adjacent

533 Scarce form made fool proof for public
exhibitions

534 Unique form of Giant Microscope Crisp
had it from Austria (no maker known)

536 Two interesting forms one after the
celebrated Abbe & the other Powell & Lealand's
super stage prism

543 Microscope of Unusual form by a
maker whose microscopes are rather rare

545

546 A rare type (possibly unique)
of a Binocular microscope with single
divided object lens for viewing large
objects

548 A rare form not often found
with both bodies introduced by Beck
in 1862 but soon withdrawn as the
public did not buy it - hence its rarity

554 Early form of mechanical stage

554 A very scarce & early form of
Binocular attaching microscope by Nachet

558 A very rare & early form of
microscope specially adapted for viewing
small living organisms under great
pressures up to about 650 atmospheres

540	Bull's-eye stand condenser with ball and socket movements, lens $2\frac{1}{2}$ -in. in diameter	
541	Gas micro lamp, and another	
65/- 542	An expensively mounted drawing prism by Nachet, on rack adjusting stand	
£5. 543	A microscope of unusual design, rack coarse adjustment, fitted with eyepiece, objective and stage bull's-eye, by Morrau, Paris.....	£3 0 0
544	Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson	£2 10 0
90/- 545	Two dissecting microscopes	£2 10 0
£10 546	An expensively made reading microscope on stand, by Weston, Rostock.....	£4 10 0
547	Projection microscope	
£10 548	Universal microscope with tricolour and binocular bodies, by Beck	£5 0 0
549	Ten various stages	
550	Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss ; 3 astroscopes, a defraction apparatus by Tisley, and a defraction plate by Zeiss (faulty)	
551	A set of 3 swing-out Darker selenites, and a reflecting polariscope	
552	Rack centering substage, fitted with achromatic condenser	
553	Kellner achromatic eyepiece, another with indicator, high power ditto by Beck, and 3 others	
554	Portable binocular microscope with rack adjustment for width of eyes, and rack adjusting substage ; pair of " B " eyepieces, polariscope and analyser substage condenser, spot lens, paraboloid silver side reflector, 5-in., 4-in., 2-in., 1-in. and $\frac{1}{4}$ -in. objectives, with other fittings, in leather case	
40/- 555	Large projection lens in brass mount	
£4 556	Student's microscope with mechanical stage, by Pritchard.....	£2 5 0
£5 557	Small binocular microscope by Nachet..	£3 10 0
£8 558	Microscope for showing the effects of high pressure, by Ducretet, Paris.....	£7 7 0

£4	559	Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism	
	560	Two youths' microscopes	
£20.	561	<i>Binocular microscope, the Watson Crossley rack coarse adjustment, adjustment for width of eyes, patent fine adjustment graduated, rack substage with centering screws, and a revolving mechanical goniometer substage, fitted with a pair of capped eyepieces-----</i>	£16.0.0
£8	562	A best quality microscope with rack coarse adjustment, divided fine adjustment, rack rotating goniometer mechanical stage, rotating substage with centering screws, by Ross	
	563	Objective by Nobert, and 3 others	
	564	Four microscope objectives	
	565	Five odd size objectives	
	566	Twenty small magnifying non-achromatic single powers	
£5	567	Demonstration microscope by R. & J. Beck	£4.0.0
£4	568	Trichina microscope compressor, microscope with extra large glass stage-----	£2.0.0
	569	Three special magnifiers, 3, 6 and 10, by Reichert	
	570	Watson's modification of Mackenzie's removable swinging substage, and a mounted mirror	
	571	Bramhall's illuminator, and 3 paraboloids	
	572	Gundlach's illuminator and 5 other substage illuminators	
	573	Ten various substage illuminators	
	574	Superstage with mirror, mounted illuminator, and 3 others	
	575	Four vertical illuminators	
	576	A binocular illuminator, superstage, and 2 silver side reflectors	
	577	Binocular eyepiece, (Tolles), by Ladd; tubes separated by pins travelling in spiral slots	
	578	Hot stage in case	
50/-	579	Spherometer by Dollond	10 0

561 An expressly made Microscope
after the design of Crossley F.R.A.S.
Special attention is directed to the
last piece filled with prism for oblique
light.

564 A case form with lamp holder
follows the American form of Queen & Co

568 An interesting form of Trichina
Microscope the two large glass plates
act as a Compressor & holder at the
same time

588 A Fine Specimen of the
Celebrated American Maker's work
with the added feature that it was
working microscope of Stodder, (Toller
successor) which had it direct from
Stodder's heirs.

589 Dr. Lacey's ^{form 9} Petri's loop holder
Mod. by N. A. A. A.

590 A clear & very interesting form of
Microscope lamp. The special feature of
it is that by repeated total reflections
within the glass rod the light is
conducted from the lamp to under part
of the glass slide

594 Dr. W. H. W. form of saccharometer
for the quick determination of sugar in
urine &c

595 Dr. Therry's bed side spectroscope

598 Fine Specimen of the Celebrated
American Maker's work

599 Fine & very rare probably unique
made by the Celebrated French maker
C. D. A. A. (now dead)

£5	580	Microscope with rack coarse adjustment, by Gaubert, Paris	£2.0.0	C
	581	Portable microscope by Murray & Heath, fitted with eyepiece and objective, and another		
	582	Demonstration microscope with eyepiece objective and condenser		
	583	Portable dissecting microscope with powers and apparatus, and another		
85/-	584	Three dissecting microscopes	£2 10 0	
85/-	585	Three small dissecting microscopes		
	586	Three ditto		
	587	A small aquarium microscope, and a dissecting microscope		
£15	588	A microscope, rack coarse adjustment, rack substage with centering screws, rotating stage by Tolles; the working instrument of C. STODDER, U.S.A.	£10 0 0	
£9	589	Elaborately constructed microscope, fitted with 3 various powers and universal movements	£4 10 0	
50/-	590	Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers	£1 15 0	
	591	Expensively mounted dissecting lens with ball and socket movements, on stand		
	592	Three small dissecting lenses on stands		
	593	Copper oven for cultivation of bacteria, and stand		
60/-	594	Utzmann's saccharometer eyepiece, by Reichert	£2.2.0	
65/-	595	Therry's hand spectroscope	2.2.0	
	596	Bent body tube and a right angle prism		
	597	Microscope with eyepiece, by Plossel		
£12	598	A presentation microscope, rack coarse adjustment, graduated fine adjustment, rotating centering goniometer stage, rack adjusting substage with centering screws; the instrument rotates on the base and is graduated, by Bausch & Lomb	£10 0 0	
£4	599	Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective	£4 0 0	

75/-	600	Oculist's microscope by Nachet, and triple objective	
	601	Student's microscope, rack coarse adjustment, and another	
£8	602	Microscope by Plossel, and another by Pritchard - - - - -	£5. 0. 0
75/-	603	Demonstration microscope fitted with eyepiece and condensing lens, and 2 others -	£2. 0. 0
35/-	604	A Ramsden micrometer eyepiece, fitted to draw tube, and a dissecting lens with 3 powers on stand	
	605	Four microscope stages	
	606	Ten various eyepieces	
	607	Six frog plates	
	608	Seven odd objectives	
	609	Two diamond writings, 2 micrometers—100 and 500, and sixteenth chapter of St. John micro lithographed	
	610	Three electrical stages with platinum points	
	611	Mechanical finger by Zentmayer, and 2 electrical stages	
	612	Test plate by Zeiss, and a Maltwood finder, both in brass frames	
	613	Nine various single nose-pieces	
	614	Five various safety stages	
	615	Bottrel's zoophyte trough, two focusing eyepieces, and five eye-shades	
	616	Jung's compressorium, Kunchel's "Herculais" compressor (Verick), and two others	
	617	Reflecting camera lucida, Malassez's ditto, and another	
	618	Camera lucida by Beck, ditto by Nachet, and three others	
	619	Zeiss camera lucida, a camera lucida by Chevalier, and three others	
	620	Sorby's spectroscope for binocular microscope, by R. & J. Beck	
	621	Goniometer eyepiece with one and three cross threads and graduated collar and vernier	
	622	Nachet's micrometer eyepiece with micrometer	

602 Interesting form of microscope by Plössel
Manual mounting of the mirror

- 76/600 Goussier's microscope by Nachet, and single
 objective
 76/601 ~~Handwritten: "Goussier's microscope, lat. 1/2 inch, 1/2 inch, and another by Nachet and another by Nachet"~~
 76/602 ~~Handwritten: "Goussier's microscope, lat. 1/2 inch, 1/2 inch, and another by Nachet and another by Nachet"~~
 76/603 Demonstration microscope fitted with eye-
 piece and condenser lens, and 2 others
 76/604 A Parvaden micrometer eyepiece, fitted
 to nose tube, and a dissecting lens with
 3 lenses on stand
 605 Four microscope stages
 606 Two various eyepieces
 607 Six stage plates
 608 Six 35 mm objectives
 609 Ten diamond writings, 2 micrometers
 1/10 and 500, and sixteenth chapters of
 the book micro lithographed
 610 Seven electrical stages with plastic
 plates
 611 Mechanical finger by Zentmayer, and 2
 electrical stages
 612 Test plate by Zeiss, and a Maltwood
 finder, both in brass frames
 613 Nine various single nose-pieces
 614 Five various safety stages
 615 Bettel's zoophyte trough, two focusing
 eyepieces, and five eye-shades
 616 Jang's compressorium, Kunchel's "Hercu-
 les" compressor (Verick), and two others
 617 Reflecting camera lucida, Malassez's ditto,
 and another
 618 Camera lucida by Beck, ditto by Nachet,
 and three others
 619 Zeiss camera lucida, a camera lucida by
 Chevalier, and three others
 620 Serby's spectroscope for binocular micro-
 scope, by R. & J. Beck
 621 Goniometer eyepieces with one and three
 cross threads and graduated collar and
 vernier
 622 Nachet's micrometer eyepiece with micro-
 meter

628 This is a very scarce form
it was designed by Julius Dohy for
the detection of objects in one of the
instruments & the arrangement under
the other. Note this is not a binocular
microscope but really two microscopes & they
can be used independently. Crisp had
this specially made for him by Reck
& I don't think that any others were
made.

629 This is for the investigation of metals
& under high temperatures the specimen under
examination was heated by a Bunsen burner
it is fitted with 2 square field pieces
& a good objective

631. The Circular plate in a brass
holder microscope is not very common

637 A complete & early lantern microscope

639 Fellow of lot 522 (same notes apply)

642. The smallest microscope in the Collection

643. odd form of Cheep Projection lantern

623	Burch's reflecting micrometer, a stage micrometer (millimetres) by R. & J. Beck, and two others	
624	Micrometer stage	
625	Beck's Krato meter eyepiece, and an eyepiece with an adjustable slit	
£3 626	Four micro photographic fittings, and a mounted lantern condenser	8. 0. C
627	Nine various eyepieces	
£10 628	Dery's twin microscope, with mechanical motions in both directions to the stage forceps, carrier fitted with stage forceps, and two eyepieces by R. & J. Beck	£10. 10. 0.
£7 629	Kuhn's chemical microscope for high pressures, fitted with square-ended nicol prism and analyser special objective, eyepiece and condenser	
630	Expensive calliper reading microscope with eyepiece and objective, by Meisner, Berlin	
75/- 631	Solar microscope of unusual design	£1. 10. 0
632	A student's microscope by Klon & Muller, and another fitted with eyepiece and objective	
633	Three student's microscopes, fitted with eyepieces and objectives	
634	Microscope, incomplete, and another	
40/- 635	Two student's microscopes	16. 0.
636	Projection microscope by John Browning, with rack adjustment	
90/- 637	Antique projection microscope with fittings, in case	£1. 5. 0
50/- 638	Youth's microscope with fittings, in case	18. 0.
£4 639	James' exhibition microscope	£2. 0. 0
£35 640	Eight exhibition slides, including a fine specimen of the scarce fairy fly	£1. 4. 0
641	Twenty opaque and transparent slides	
35/- 642	A microscope in the form of a seal	£1. 0. 0
75/- 643	A curious projection microscope, and four various fittings	£2 7. 6.
644	A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings	

£6	645	Warrington's portable microscope with objective, and other fittings, in case	2. 0. 0
75/-	646	An old projection microscope, and part of another	3 0. 0
	647	Warrington's portable microscope with eyepiece	
65/-	648	Matthew's portable microscope with objective eyepiece, and a few fittings, in case	2. 5. 0
	649	An aquarium microscope, and another	
	650	A projection microscope with rack adjustment, and a spectroscope stand	
£6	651	A double-bodied microscope, by Nachet	
	652	Abbé's apertometer by Zeiss	£5. 0. 0
75/-	653	Curious wooden microscope, and another	2. 0. 0
	654	A Fourcault prism, and a revolving selenite stage	
	655	Two mounted nicol prism polariscopes, and 2 ditto analysers	
	656	Rotating polariscope fitted to spring stage, by Bausch & Lomb, and a large nicol prism polariscope	
	657	Reflecting polariscope to fit over mirror, nicol prism ditto, and 2 other nicol prisms	
	658	Two copies of F. A. Nobert's defraction rulings in case—3001 lines in Paris inch, and another mounted	
	659	Abbé's analysing eyepiece	
	660	Six odd polariscope fittings	
	661	A reflecting polariscope, a mounted nicol prism, and 7 fittings for polariscope	
	662	Three pieces of chilled glass, 3 prisms, a cube of uranium glass, and a $\frac{1}{4}$ wave plate	
	663	A dichroscope by Hoffman, Paris, with specimens	
	664	A ditto lot	
	665	Three substage condensers, 1 by Powell, and 2 by Ross	
£8	666	Expensively made microscope with rack adjustment, graduated fine adjustment, by Ross	£8. 0. 0
	667	Binocular magnifier by Beck, on stand	

645 Case form of portable microscope
Can be used as an aquarium, dissecting,
& trough microscope designed by Warrington
who was a F.R.M.S. F.R.S. & the
discoverer of glycine

648. Improved & universal form of portable
(I have never seen another)

651. A good form of microscope, showing
how two people can use one instrument

652 Curious wooden model. Probably
a work shop model

666 A very fine & beautifully made
early model by Andrew Ross
special attention is drawn to the
substantiated foot & struts to strengthen
the frame also to the solidly made
mechanical stage & to the general
finish. I consider that this is
one of the best things in the Crick
Collection it is by far the most beautiful
example of Ross work I have ever seen

676 J. Nis's Embryological Microscope made by
Hartnack very unusual form I have only seen
1 other not so good as this.

31

- | | | | |
|------|-----|---|-----------|
| | 668 | Student's microscope with eyepiece and objective, and a small dissecting microscope | |
| | 669 | Expensively made micrometer stage with rack movements and reading by Vernier | |
| 75/- | 670 | Two expensive hot stages, and a spirit lamp | £3. 0. 0. |
| | 671 | A triple nosepiece, a substage superstage, and 2 pairs of safety rings | |
| | 672 | Dr. Matthew's calliper eyepiece, "B" eyepiece with 2 indicators, "C" eyepiece with indicator, and 2 others | |
| | 673 | Four microscope stages | |
| | 674 | Stand for dissecting microscope by Beck, and a ditto by Chevalier fitted with a power | |
| | 675 | An expensively made plane table, a circular protractor divided on silver and reading by Vernier, by Negretti & Zambra | |
| £15 | 676 | An expensively made drawing microscope, rack coarse adjustment with scale, horizontal eyepiece and special objective, in mahogany case, by Hartnack ----- | £9 0. 0. |
| | 677 | A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another | |
| | 678 | Demonstration microscope with eyepiece, and 2 others | |
| 75/- | 679 | A portable microscope by Nachet, in case, with eyepiece and 2 objectives | |
| | 680 | Student's microscope, rack coarse adjustment, fitted with eyepiece, by Bausch & Lomb | |
| | 681 | Dissecting microscope by Chevalier, fitted with Brucke lens | |
| | 682 | Eight various eyepieces | |
| | 683 | Eight odd objectives | |
| £5 | 684 | Fuss's reflecting goniometer microscope, fitted with special square cut nicol prism analyser, divided on silver and reading by Vernier ----- | £5. 0. 0. |

A very finely made & scarce form of
Mineralogical Microscope

685	Kaleidoscope in case, stand for dissecting lens with ball and socket movements, another stand, and a small microscope	
686	Student's microscope by Siebert with eyepiece and objective, and another with eyepiece	
85/- 687	Small binocular microscope - - - - -	£2 2. 0
688	Two dissecting microscopes, and another by Zeiss, with power	
689	Student's microscope, and an antique ditto	
690	Expensively made dissecting microscope with rack adjustment, by Klonne & Muller	
691	Student's microscope, rack coarse adjustment, with eyepiece, by Powell & Lealand	
£5 692	Microscope of unusual form supported by monkey, and 2 others - - - - -	£3 0. 0
693	Bacteriological microscope, rack coarse adjustment, by Zentmeyer (glass of stage broken)	
694	A biological microscope, Wales form, by Watson	
£4 695	Student's microscope by Dancer - - - - -	£1 10. 0
696	Two dozen microscopic objects, including a fine selenite slide, entire lower jaw of rat showing teeth, etc.	
£5 697	Plush lined microscope case containing vial holder, diaphragms, and other useful sundries - - - - -	£1 10. -
698	Two mahogany microscope cases containing a graduated microscope tube, and other sundries	
45/- 699	Microscope case containing spot lens, small substage with diaphragms, and large lieberkuhn, etc.	
50/- 700	Ten hand glasses and pocket magnifiers, and other sundries in case - - - - -	£1 4. 0

Another property.

£45 701	Beautifully-made exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila-	£39 18.
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684 A very rare form of binocular
spectacle noticed from the fact that
the stage moves to focus the object
made by Samuel Holmes who patented
it. Holmes was a Crank & his
instruments did not come into general
use. thus their rarity

695 Very Curious the manner of making
the stand portable by removing it from
one position & placing it in a different
position should be noticed

701. Special Attention is directed to
the beautiful finish of this instrument
which represents the highest class of such
work about 1876 when the microscope was
made also to the large number of accessories
which of themselves alone are of considerable
value everything of general use is represented

189

There are four of them
which are from the first lot
the other three from the second
and the fourth from the third
the first was a small one
the second was a small one
the third was a small one
the fourth was a small one

190

There are four of them
which are from the first lot
the other three from the second
and the fourth from the third
the first was a small one
the second was a small one
the third was a small one
the fourth was a small one

191

There are four of them
which are from the first lot
the other three from the second
and the fourth from the third
the first was a small one
the second was a small one
the third was a small one
the fourth was a small one

Cont. " This instrument gained the 1st Class Gold Medal
 it is built on the original Ross Model & in point
 of time follows after the Model represented in lot
 666 in this sale ³³ but for this important form was not
 represented in your Collection & no Collection can be anywhere complete
 Philadelphia Exhibition, rack rotating mechan-
 ical goniometer stage divided on silver to $\frac{1}{2}$ degree, rack adjusting and rotating
 substage divided on silver and reading
 to 1 degree, graduated fine adjustment
 on silver, 8 eyepieces, 4 being achromatic;
 centering eyepiece, substage condenser,
 large bull's-eye stand condenser, spot
 lens, paraboloid, camera lucida, Amici
 prism, silver side reflector, double nose-
 piece, 3 live boxes, 4 compressors, Malt-
 wood finder, frog plate, stage bull's-eye,
 and a number of other accessories in 2
 cases; by Negretti & Zambra; originally
 cost £300

702

85/-

Field's differential ratio polariscope, fitted
 with a large nicol prism $1\frac{1}{4}$ in. by $2\frac{1}{2}$ in.,
 3 graduated rack rotating selenites, and
 achromatic substage condenser for the
 exact application of polarised light; also
 the companion analyser, rotating by geared
 rack and pinion, with printed directions

18.18.0

703

Micro spectroscope, rack adjusting slit
 variable in two directions, removable
 companion prism, stage and mirror
 removable

704

Best quality Ramsden eyepiece, micro-
 meter movements, divided on silver

705

A 4-in. best quality micro objective in case

706

A 3-in. ditto, double combination

707

A 2-in. ditto ditto with lieberkuhn

708

A $1\frac{1}{2}$ -in. ditto

709

A 1-in. ditto

710

A $\frac{1}{2}$ -in. best quality micro objective,
 graduated correction and lieberkuhn

711

A $\frac{1}{4}$ -in. ditto, ditto

712

A $\frac{1}{8}$ -in. ditto, ditto

713

A $\frac{1}{8}$ -in. ditto, ditto

714

A dense glass spectroscope prism, faces
 2 in. by $1\frac{1}{2}$ in., and another $1\frac{1}{2}$ in. by $2\frac{3}{8}$ in.,
 for a camera obscura

715

An analysing eyepiece fitted with adjust-
 able crystal holder, and revolving tourma-
 line in cap

- 716 A single air-pump with fittings, etc.
- 717 A dumpy level, 1½ in. object glass, and 2 levels, by Yeates
- 718 A large photographic lens with arrangements for diffusion of focus, by McLean and Melliush, London ; in case
- £4 719 Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked)----- £5.50.
- 720 Astronomical telescope, 3 in. object glass, eyepiece and sun cap ; no stand
- 721 Powerful 3-draw telescope and brass stand for same, to screw into tree or window frame
- 722 Microscope object cabinet, with mahogany glass-fronted door, to hold 1000 slides, flat
- 723 Antique mahogany-fronted specimen cabinet, of 6 drawers, cut-glass knobs
- £6 724 Portable microscope with rotating stage, fitted with 2 capped eyepieces, objective, camera lucida, live-box, and other fittings ; in mahogany case, by Moginie-- 4 15.0.
- 725 A 3-in. microscope objective by R. & J. Beck
- 726 A 1½-in. and ¼-in. microscope objectives by Hartnack
- 727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case
- 728 A ½-in. microscope objective, with correction collar, by Ross
- 729 A ¼-in. microscope objective by Powell & Lealand, with correction collar
- 730 A ¼-in. microscope objective, with graduated correction collar, N.A. .76, and fitted with lieberkuhn, by Powell & Lealand
- 731 A ¼-in. microscope objective, graduated correction collar in case, by James Smith
- 732 Portable microscope, eyepiece, a double objective, live box, etc., in case, by Crouch
- 733 Bull's-eye stand condenser, 2½-in. lens, and camera lucida, by Powell & Lealand

919 This fine balance clock follows a form
in South Kensington which was made by
the celebrated Optician Ramsden &
have no doubt it was made by him
his balances are extremely rare.

942 This very ingenious machine was
specially designed so that it should
be immediately ready for use without
any setting up it can be used in
any position

734 This is A Ross 1837 Reflecting Microscope
with a Compound body added by Christie

734 This is a very Constructed Microscope to be made in
wood it has a rotating stage also Mechanical
movement to the stage. Christ considered it to be an
original workshop model.

~~This is a very fine early 19th Century
Cabinet showing the Prism the polyhedron
(really a number of prisms joined together) from
which develops the Convex & Concave lenses.
Such a complete set in case is very unusual.
I have never seen a finer one & it will always
be a ornament to any Collection.~~

744 A very fine early 19th Century
Cabinet showing the Prism the polyhedron
(really a number of prisms joined together) from
which develops the Convex & Concave lenses.
Such a complete set in case is very unusual.
I have never seen a finer one & it will always
be a ornament to any Collection.

- £4. 734 Student's microscope in case, with fittings by Ross — — — — — £1. 6. 0.
 735 Bull's-eye stand condenser by Watson, and mineral holder by Beck
 736 Graduated draw-tube with capped eyepiece and erector, by Beck ; and a number of other sundries, in fitted mahogany case
 £6. 737 Antique wooden microscope, and another antique microscope — — — — — 3 15 0
 738 Dissecting microscope by Ross, with rack adjustment in both directions, and 1in. with lieberkuhn, $\frac{1}{2}$ in. with lieberkuhn, $\frac{1}{4}$ in. and $\frac{1}{10}$ in. objectives
 739 A set of 50 lantern slides—The Holy Land, in grooved box
 740 A set of 50 lantern slides in grooved box—Egypt
 741 A set of 50 lantern slides—Views of Venice, Florence, etc.
 742 Twenty-five lantern slides, microscope objects, diatoms, etc., with reading ; and 25 others, in lined safety travelling case
 743 Beautifully painted set of 33 astronomical slides, some mechanical, with printed lecture, by Carpenter & Westley
 744 Beautiful set of 39 slides, of the Kings and Queens of England, in box, all by Carpenter & Westley
 745 Lantern slide viewer by Robinson, and a number of fine art slides for same
 746 Rectangular concave mirror $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in., in silk-lined morocco case, by Carpenter & Westley
 747 A fine set of lenses and half-lenses, concave, convex and cylindrical ; a prism, and a polyhedron, in fitted mahogany case, by Carpenter & Westley — — — — — £8 4 10 0
 748 A mahogany cabinet containing Iceland spar and other prisms, quartz, and lenses, etc., for light experiments
 749 A splendid set of 50 lantern slides, comprising views of Rochester, Exeter, Canterbury, and Worcester Cathedrals ; also Castle Ashby, Tewkesbury Abbey, and continental cities

PHOTOGRAPHIC APPARATUS, &c.

- 751 A 5 by 4 Adams Yale, with Cooke F/6.5, 22 film sheaths and canvas case
- 752 A $\frac{1}{4}$ -plate Adams Yale, no lens, changing box and 12 sheaths
- 753 A $\frac{1}{2}$ -plate Lancaster field, with a rapid rectilinear lens, a single lens, 3 double dark slides and leather case
- 754 A $\frac{1}{4}$ -plate Adams focusing Ideal, with Ray rapid rectilinear lens and 12 sheaths
- 755 Post-card roll film camera, no lens, but automatic shutter
- 756 A $\frac{1}{4}$ -plate Eastman Kodak, with single lens, 3 double dark slides, focusing screen, and leather case
- 757 No. 3 "B" Alvista, 9in. by 3 $\frac{1}{4}$ in., with rapid rectilinear lens
- 758 A $\frac{1}{4}$ -plate roll film Eastman with rapid rectilinear lens
- 759 A $\frac{1}{4}$ -plate Lizars Challenge reflex, with 3 double dark slides ; no lens
- 760 A $\frac{1}{4}$ -plate focal plane camera, no lens, 6 double dark slides and leather case
- 761A No. 4 Panoram Kodak, model "B," with single lens, leather case
- 762A A $\frac{1}{4}$ -plate Shew with rapid rectilinear focusing lens, Thornton-Pickard focal plane shutter, Adams' 12-plate changing box and leather case
- 761 No. 4 bull's-eye Kodak, 5 by 4 box-form camera, in fine condition ; always in focus, fine lens
- 762 No. 5 cartridge Kodak $\frac{1}{2}$ -plate, double extension, fine rapid rectilinear lens, automat shutter ; splendid condition, in leather case
- 763 A 9 by 12 folding camera, easily adaptable for $\frac{1}{4}$ -plate, rack focusing, Zeiss double anastigmat lens F/6.3 (Ica Tessar), fully speeded shutter, film pack adapter and velvet-lined leather case
- 764 No. 3 Brownie box-form Kodak, $\frac{1}{4}$ -plate ; as new

- 765 Goerz Dagor lens, 165mm. ($6\frac{1}{2}$ in.), post-card or 5 by 4 size, compound shutter, works at F/6.8 (is marked German marking F/4.5)
- 766 Premo 5 by 4 folding camera, hand or stand, fine rapid rectilinear lens, Unicum fully-speeded shutter, 3 double dark slides and leather case
- 767 Goerz folding Tenax, 9 by 12c.m., double extension, rack focusing, Goerz Dagor lens F/6.8, 130mm. compound shutter, film pack adapter ; fine outfit
- 768 A 7 by 5 rapid rectilinear lens, and 2 other lenses
- 769 Fine Beck symmetrical lens, $\frac{1}{2}$ -plate, in fully speeded Unicum shutter
- ~~75- 770 Antique small bone microscope - - - - - 1.2.0. C~~
- 771 Three lantern lenses and mount
- 772 Fine $\frac{1}{4}$ -plate Frena box camera
- 773 *A 1A special folding Kodak, $4\frac{1}{4}$ in. by $2\frac{1}{4}$ in., in beautiful condition, Zeiss Tessar lens F/6.3, compound shutter ; a magnificent instrument*
- 774 Very powerful astronomical or terrestrial telescope with 3 eyepieces, and brass tripod ; all in wooden case
- 775 Post-card size roll film camera, double extension, rack focusing, Ross homocentric lens F/6.3, compound shutter (all speeds to 1/250th), antinous release and leather case
- 776 Kodak daylight developing tank, $3\frac{1}{2}$ in., for all size spools up to and including post-card size
- 777 A 3A folding pocket Kodak, post-card size, fine rapid rectilinear lens, speeded shutter, and leather case
- 778 No. 2 Ensignette de Luxe as new, with fine rapid rectilinear lens, speeded shutter, focusing model in lined leather case
- 779 Fine pair of Watson's 6x prism binoculars, separate eyepiece focusing, strong leather case ; practically as new

- 780 Bausch & Lomb 6x prism binoculars, separate eyepiece focusing; tan leather case
- 781 Mark VI. prism compass in tan leather case
- 782 A 3A folding Kodak post-card size, fine R.R. lens, automat fully-speeded shutter, leather case; fine condition
- 783 Marion's square bellows $\frac{1}{2}$ -plate stand camera with fine R.R. lens, 3 brass-bound double dark slides, $\frac{1}{4}$ -plate carriers and leather case
- 784 Fine Crouch microscope with coarse and fine adjustments, lin. objective, double nosepiece, eyepiece, condenser; all in mahogany case
- 785 Fine student's microscope by Swift with adjustment lin. and $\frac{1}{8}$ in. objectives; eyepiece and mahogany case
- 786 Very powerful long-range telescope
- 787 A pair of 6x prism binoculars by Manhattan Optical Co., Zeiss lenses, central focusing, eyepiece adjustment and leather case; very fine condition
- 788 Pair of powerful field glasses in leather case
- 789 A $\frac{1}{4}$ -plate magazine camera with fine rapid rectilinear lens, speeded shutter, magnifiers, etc.
- 790 A fine old-fashioned whole-plate studio camera, portrait lens and a double dark slide
- 791 Very heavy wood tripod for whole-plate camera
- 792 Thornton-Pickard time and instantaneous shutter for large lenses
- 793 No. 1 folding pocket Kodak, old model but effective
- 794 Goerz folding Tenax $\frac{1}{4}$ -plate Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6.8, compound shutter, film pack adapter and leather case
- 795 A $\frac{1}{4}$ -plate folding camera with good rapid rectilinear lens, no slides

- 796 Thornton-Pickard $\frac{1}{4}$ -plate Ruby, morocco leather-covered, reflex camera, long extension; special Cooke F/4.5 anastigmat lens, focal plane shutter, 3 double dark slides, film pack adapter and velvet-lined leather case; in perfect and new condition, a magnificent outfit
- 797 Thornton-Pickard 3-fold best quality ash tripod, with top and straps, as new
- 798 No. 1 special folding Kodak $3\frac{1}{4}$ by $2\frac{1}{4}$, as with Bausch & Lomb anastigmat lens F/6.3, Velostto fully-speeded shutter up to $1/300$ th second; velvet-lined case
- 799 Ensign folding roll film camera, $\frac{1}{4}$ -plate with Ensign anastigmat lens F/7.7, Ensign sector shutter, all speeds to $1/100$, adaptable for plates
- 800 Cooke $\frac{1}{2}$ -plate ($7\frac{1}{2}$ in.) Series III. anastigmat lens F/6.5, as new
- 801 Three folding Kodak spools, 6-12 exposure, cost 27/-
- 802 Ditto
- 803 No. 4 cartridge Kodak for 5 by 4 roll films, double extension, fine rapid rectilinear lens, speeded shutter
- 804 Large oil floating compass by Negretti & Zambra; in leather case, cost £9
- 805 Prism binoculars, 8-magnification, eyepiece focusing, leather case; a very brilliant pair of glasses
- 806 Strong mahogany $\frac{1}{2}$ -plate camera by Hare, with fine Ross lens, one double dark slide, magazine plate-holder and leather case
- 807 Half-plate camera with 6 mahogany double bookform slides
- 808 Bausch & Lomb prism binoculars, 6-magnification, tan leather case; excellent glasses
- 809 Six Goerz 9 by 12cm. film packs, perfect
- 810 Ditto
- 811 Kershaw prism binoculars 6x, in leather case; the best English glass
- 812 Fine sextant in case, by Le Roy

- 813 Vest pocket Kodak, Ross homocentric anastigmat lens F/6.3, speeded shutter, leather case
- 814 A $\frac{1}{4}$ -plate Klito de Luxe folding camera, double extension, fine anastigmat lens, Ensign sector shutter, 6 slides and leather case
- 815 A $\frac{1}{4}$ -plate roll film No. 3 folding Brownie ; fine condition
- 816 Pair of opera glasses in gilt and mother-of-pearl ; very fine
- 817 Goerz Manufoc $\frac{1}{4}$ -plate folding Tenax, double extension, rack focusing, Goerz Dagor lens anastigmat, F/6.8 compound shutter, 3 slides and film pack adapter ; as new
- 818 No. 3 autographic folding Kodak, $\frac{1}{4}$ -plate, as new ; Goerz double anastigmat lens F/6.8, Ibsco fully-speeded shutter ; very fine lot
- 819 *Post-card folding Carbine, latest model, Cooke anastigmat lens F/6.3, Velost shutter, with speeds to 1/300th second*
- 820 A 2A boxform Brownie, $4\frac{1}{4}$ by $2\frac{1}{2}$, and excellent fixed focus Kodak
- 821 A 5 by 4 folding hand and stand camera, fine rapid rectilinear lens, adjustable shutter, 3 double dark slides and case
- 822 Zeiss Unar F/6.3 anastigmat lens in compound shutter, speeds to 1/250th, $5\frac{1}{2}$ in. focus ; as new
- 823 Vest pocket Kodak, autographic model, in leather case
- 824 No. 2c Junior autographic folding Kodak, fine rapid rectilinear lens, speeded shutter ; very little used
- 825 Powerful pair of field glasses in leather case
- 826 Fine pair of Ross prism binoculars, 6x, in strong leather case ; practically as new
- 827 No. 2 Brownie boxform camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new
- 828 Student's microscope of fine quality and very compact, $\frac{1}{4}$ in. and 1 in. objectives, bull's-eye condenser, live box, specimens ; all in mahogany box

- 829 A $\frac{1}{2}$ -plate stand camera, fine rapid rectilinear lens, 3 bookform mahogany slides, roller blind shutter, limp case
- 830 Two leather cases for No. 3 folding Kodaks
- 831 Studio camera with fine portrait lens, in rack focusing mount and slide
- 832 Five watch pocket Klimax slides
- 833 Eight $\frac{1}{4}$ -plate single cameo slides
- 834 Six vest pocket size slides
- 835 A fine pair of Zeiss 8x prism binoculars in excellent condition
- 836 A 4-draw telescope, very powerful marine model by Broadhurst Clarkson & Co.; tan leather covered
- 837 Parcel containing 3 double dark slides, Watkins Bee meter, Nucrometer focusing cloth and film carriers
- 838 Three leather cases for cameras, Nos. 1 and 1A
- 839 Six vest pocket slides for vest pocket Tenax, etc.
- 840 A 13 by 18cm. Favon folding, hand or stand camera (easily adaptable for $\frac{1}{2}$ -plate), double extension rack focusing, reversing back, Zeiss double protar lens F/6.3, 8in. and 14in. foci, compound shutter, 3 double dark slides and velvet-lined solid leather case
- 841 Fine tan leather case, velvet-lined for camera
- 842 Holborn Ilex $\frac{1}{4}$ -plate magazine camera for 12 plates, fine rapid rectilinear lens, adjustable shutter
- 843 A $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera; fine quality lens
- 844 Stereoscopic Co.'s twin lens reflex camera, $\frac{1}{4}$ -plate, with fine black band lens F/6 for 12 plates, in strong leather case
- 845 Special $3\frac{1}{2}$ by $2\frac{1}{2}$ box Frena camera with Steinheil rapid rectilinear lens and magnifiers
- 846 Strong wooden tripod for $\frac{1}{2}$ -plate camera, with top

- 847 A 3A folding Kodak, postcard size, fine Kodak anastigmat lens F/6.8, fully speeded shutter, tan leather case ; splendid condition
- 848 A 9×12 cm. and $\frac{1}{4}$ -plate folding plate camera, fine rapid rectilinear lens in speeded shutter, with 5 metal slides ; in first-class condition
- 849 A $3\frac{1}{4}$ by $2\frac{1}{4}$ Premoette camera for film packs ; a remarkable compact pocket camera
- 850 Small upright model microscope in case, with slides ; useful instrument
- 851 A $\frac{1}{4}$ -plate magazine camera, 3 sheaths, in fine condition
- 852 Mark VI. prism compass in tan leather case
- 853 Shew $\frac{1}{4}$ -plate Xit camera, Ross Goerz lens, 6 double slides, all bound in aluminium ; in leather case
- 854 A vest pocket Kodak camera with autographic back, in case, and 4 new Goerz-Tenax films for same
- 855 A $\frac{1}{4}$ -plate Salex reflex camera, F/5.6 Ross homocentric lens, focal plane shutter and 3 double slides ; a fine lot
- 856 A $\frac{1}{4}$ -plate Adams' Natti camera, Ross homocentric lens, speeded shutter, Premo film pack holder and carrying case
- 857 A fine Beck deerstalking telescope in sling case
- 858 Oliver No. 3 typewriter
- 859 A new Petroliti table lamp
- 860 A Macaura Pulsocon
- 861 Tropical and other clothing, various, a bundle
- 862 No. 3A Kodak developing tank complete, 3 printing frames, and a 12 by 10 washing tank

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, DECEMBER 14th :—

China ; Ivories ; Cloisonné ; Ethnographical Specimens.

TUESDAY, DECEMBER 14th :—

High-class Oil Paintings and Water-
Colours,
by order of Messrs. J. Lawrence & Co.

**THURSDAY and FRIDAY,
DECEMBER 16th and 17th :—**

Scientific and Photographic Apparatus ;
Miscellaneous Property.

TUESDAY, DECEMBER 21st :—

By order of the Trustees of the London
Museum.

100 lots of Antiquities, found in London ;
being duplicates from the London Museum.
Also Oriental Bronzes ; Cloisonné ; Ivories ;
Native Curios ; Weapons, etc.

**WEDNESDAY, DECEMBER 22nd
(instead of Friday, December 24th).**

Photographic and Scientific Apparatus ;
Miscellaneous Property.

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to
Entomology, Ornithology, Conchology, Minerals,
Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural
History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London."

Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

73.6
#3.9 =
Phone : Gerrard 1824.

Annular Copy
Sale Nos. 13,245—13,246

Sale to commence at **12.30** o'clock each day.

THURSDAY and FRIDAY, January 20th and 21st, 1921.

A CATALOGUE OF
**PHOTOGRAPHIC AND
SCIENTIFIC APPARATUS**

INCLUDING
CAMERAS WITH LENSES
by Cooke, Ross, Goerz, and other makers ;

The Fourth Portion of the Celebrated Collection of
MICROSCOPES,
formed by the late Sir Frank Crisp, Bart., including many
fine instruments, objectives, oil immersions, Diamond
writing and accessories.

**PRISMATIC BINOCULARS, LANTERN SLIDES,
ELECTRO-THERAPEUTICAL APPARATUS, etc.**

OFFICE FURNITURE and EFFECTS ;
China, Glass, Pictures, Plated Items,
Typewriters, Postage Stamps, etc.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,
No. 38, King Street, Covent Garden, W.C. 2,
On THURSDAY and FRIDAY, January 20th and 21st, 1921,
At **12.30** o'clock each day.

On view the day prior from 12.30 till 5.30 o'clock, and Mornings of Sale
from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King
Street, Covent Garden, W.C. 2.

Telegraphic Address : AUKS, RAND, LONDON.

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill. S.E. 23.

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.

** * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

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.

A CATALOGUE

FIRST DAY'S SALE

Thursday, Jan. 20th, 1921.

AT 12.30 O'CLOCK.

ON VIEW :

Wednesday, 12.30 p.m. to 5.30 p.m.

Thursday, 9.30 a.m. to 12 noon.

MISCELLANIES.

Lot

- 1 Two gentleman's overcoats
- 2 A costume (navy serge), and tweed skirt
- 3 A light blue blanket cloth coat
- 4 A fox fur stole
- 5 A dress suit
- 6 Overcoat
- 7 Pair laced top boots, size 7, and pair " Rugger " boots, size 7
- 8 British warm, and tunic
- 9 Twelve reels silken cords
- 10 A silk jumper, new
- 11 Thirty-two ounces best wool
- 12 Wool jumper, new
- 13 Pair lady's shoes
- 14 Child's white serge coat and white felt hat,
4 Peter Pan suits, woollen jumper, and 1 other
- 15 Lady's silk sports' coat and girdle, and long
white woollen coat

- 16 Pair of lady's boots and pair of lady's black brogue shoes, fitted Phillips' rubbers
- 17 Green woollen jumper, child's tammy, and a lady's riding habit
- 18 Polo saddle with numnah, bridle, 4 bits, and sundries
- 19 Gentleman's tweed suit
- 20 Leather bag, pair gentleman's boots, pair slippers, and pair of trousers
- 21 Various coats, vests, and trousers, in bag
- 22 Carpet and 2 fur rugs
- 23 Jaeger sleeping bag, and waterproof canvas ditto
- 24 Gentleman's waterproof (by Cording & Co., of Piccadilly), in excellent condition
- 25 Gentleman's light-weight waterproof, in good condition
- 26 Two rolls grey underfelt, 24 yards
- 27 A Paisley pattern table cover
- 28 A lady's riding habit, and a lady's land suit
- 29 Gentleman's mackintosh
- 30 Fur coat with fashionable skunk opossum collar
- 31 A ditto

GRAMOPHONES, RECORDS, &c.

- 32 A handsome hornless gramophone, dome top, double spring motor, and sound box, condition as new
- 33 Twenty various 10-in. and 12-in. records
- 34 One dozen 10-in. records
- 35 One dozen 12-in. records, in album
- 36 One dozen records, in good condition
- 37 Six 12-in. H.M.V. and Columbia latest dance records, perfect condition
- 38 Grand concert sound box, mellow tone
- 39 Six double-sided records, latest waltzes
- 40 Twelve H.M.V. and Columbia, including Wyoming and Inspiration Waltzes
- 41 Twelve Zonophone and H.M.V., good selection
- 42 Twelve Regal, good condition
- 43 Large sound box, fine tone
- 44 Ditto

- 45 Twenty-four records, faulty
- 46 Ditto
- 47 Ditto
- 48 Ditto
- 49 Ditto
- 50 Fourteen records, faulty
- 51 A small single-action Grecian harp, by Erard

-
- 52 A large fishing reel by Holroyd
 - 53 A fishing reel and line
 - 55 1,000 "Revue" cigarettes
 - 56 Ditto
 - 57 Ditto
 - 58 Ditto
 - 59 Ditto
 - 60 Ditto

PHOTOGRAPHIC APPARATUS, &c.

- 61 Four printing frames, squeegee, focusing cloth, washing rack, ruby glass, and two camera cases
- 62 An old studio camera, and 12 by 10 washing tank
- 63 Studio camera, screen and dark slide, two tripod cases, 4 camera cases, tripod and Ensignette developing tank
- 64 Three shutters and stereoscope
- 65 Postcard size roll film and plate camera, rapid rectilinear lens, in fully-speeded shutter
- 66 Large box for use as portable dark room, with 12 by 10 glass plate developing tank, etc.
- 67 Ross symmetrical lens, 6-in. focus
- 68 Portrait lens, No. 167443, F/3.2, by Hugo Meyer
- 69 Kodak Brownie daylight enlarger, $3\frac{1}{4}$ by $2\frac{1}{4}$ to 7 by 5, printing frame, tin collar box, and contents
- 70 Box ferrotype plates
- 71 Kodak tripod, two-fold, with metal top, new
- 72 A 3-fold ash tripod for turn-table, best quality, very fine
- 73 A 3-fold ash tripod for turn-table, $\frac{1}{2}$ -plate camera, fine

- 74 Whole-plate camera, three double dark slides, Thornton-Pickard lens
- 75 Oil enlarging lantern, easel, and large dark slide with lens
- 76 A 5-in. slide rest
- 77 Goodell hack saw frame with attached vice
- 78 A 12 by 12 Dallmeyer studio camera with a single and a double dark slide
- 79 A 5 by 4 Despatch camera
- 81 Box containing developing dishes, printing frames, measures, stoppered bottles, washing tank, dark-room lamp, etc.
- 82 A $\frac{1}{2}$ -plate long extension camera, unfinished, lens for same, with tripod and focusing cloth
- 83 A $\frac{1}{4}$ -plate pocket folding camera and 9 dark slides for same, a $\frac{1}{4}$ -plate enlarger, and several books on photography
- 84 Staley portrait lens, A Series, wide angle lens, by Horne & Thornthwaite, view-finder, and roller blind shutter
- 85 Frena $\frac{1}{4}$ -plate camera, and tripod with top for whole-plate camera
- 86 Lancaster $\frac{1}{4}$ -plate camera, portrait lens, two $\frac{1}{2}$ -plate printing frames, and four $\frac{1}{4}$ -plate ditto
- 87 Two mechanical slides, photographic papers and sundries
- 88 Eleven torch cases, camera case, and sundries
- 89 Two large developing dishes, 2 porcelain ditto, drying rack and a tank
- 90 Sixteen large coloured transparencies
- 91 Pestle and mortar
- 92 Ross 5-in. portrait lens, in case
- 93 Burnisher and 2 dipping troughs

FURNITURE AND EFFECTS.

- 94 Overmantel with 3 photogravures, and a large picture
- 95 Mahogany hat stand
- 96 Circular mahogany table on tripod feet
- 97 Pedestal Grand gramophone, with record cupboard, double spring motor
- 98 Oliver typewriter, No. 3
- 99 A "Williams" typewriter (in working order)

- 100 *An Elliott-Fisher book-keeping machine*
- 101 *An Elliott-Fisher book-writer*
- 102 *Six Ediphone dictating machines, etc., and a machine for shaving cylinders*
- 103 A 4-ft. stained writing table with pedestal cupboard
- 104 A similar table
- 105 A 5-ft. stained deal pedestal writing table, with 4 drawers in each pedestal
- 106 A 3-ft. stained writing table with drawer
- 107 A 4-ft. 6-in. writing table with 2 drawers
- 108 A 5-ft. stained folding table
- 109 A large pedestal writing table, 6ft. by 4ft., with 4 drawers in each pedestal
- 110 A 4-ft. 6-in. writing table with 2 drawers
- 111 A similar lot
- 112 A similar lot
- 113 Seven Windsor chairs
- 114 Six ditto
- 115 Three wood correspondence boxes, stationery rack, inkstand, and a quantity of inkpots, rulers, etc.
- 116 Two sets of 4 each deal shelves
- 116A A HANDSOME POLISHED WALNUT, 15 SECTION, AMBERG CABINET LETTER FILE, ROLL SHUTTER FRONT
- 117 Carbon paper, lot of 9 boxes, 8vo, black
- 118 Ditto
- 119 Ditto
- 120 Ditto
- 121 Ditto, 7 boxes, foolscap, red
- 122 Ditto, 9 boxes, foolscap, black
- 123 Ditto, ditto
- 124 Ditto, ditto
- 125 Ditto, 9 boxes, foolscap, purple
- 126 Ditto, 9,000 sheets, purple (9 boxes of 1,000)
- 127 Ditto, 800 sheets, purple (1 box); and ditto, 500 sheets, purple (1 parcel)
- 128 286 brand new filing cases, 12in. by 9½in. by 1½in.
- 129 450 ditto, but labels written upon
- 130 Six loose-leaf ledgers, each fitted 2 Yale locks (keys and master key with same)
- 131 Ditto, ditto
- 132 Ditto, ditto

- 133 Six loose-leaf ledgers, each fitted 2 Yale locks
(keys and master key with same)
- 134 Ditto, ditto
- 135 Twelve transfer vols., to go with same
- 136 A dozen stationery racks
- 137 A dozen paper racks
- 138 A gross inkpots
- 139 A small weighing machine
- 140 A postage stamp affixing machine
- 141 A ditto
- 142 A box file, Warwick file, 2 sequence ditto, 2
spring ditto, 3 hecto. trays, box hecto. sheets,
and a tin hecto. compo.
- 143 Two hanging lanterns, and an oxidized 2-light
dining-room fitting
- 144 A handsome oxidized 5-light electrolier, with
globes (new, and ready for fitting)
- 145 A single-light ditto, large globe
- 146 Brass curb
- 147 Set of 3 brass bedroom fenders
- 148 Pierced brass fender
- 149 Antique mahogany commode, with pail and
liner, brass drop handles
- 150 Set of 6 antique chairs in hair cloth
- 151 Oak office washstand, with enamelled basin
- 152 Anthracite stove
- 153 A ditto
- 154 Large white enamelled bread and bacon cutter
- 155 Child's walnut-frame arm-chair, in tapestry
- 156 Large punching machine, with handle, by
Melhuish
- 157 A 6-fold embossed screen
- 158 Plated teapot
- 159 Hanging shrine, writing paper case, and a pair of
lacquer coasters
- 160 Ebony desk, inlaid with quills, and opium
pipe (A.F.)
- 161 Antique fire-screen with wood-work panel in
white and gilt frame
- 162 A pair of bronze candlesticks
- 163 An electric cooking stove for 200-volt circuit,
and a Primus stove
- 164 Sixty large upright incandescent gas mantles
- 165 Two bread cutters

- 166 A 4-tier mahogany whatnot with drawer
- 167 W. Oliver—"Scenery in the French Pyrenees,"
and a number of prints and photographs
- 168 A 24-drawer oak "Wabash" filing cabinet
- 169 A mahogany cupboard of pigeon-holes
- 170 An oak folding newspaper reading stand on
pillar and claw stand, and another adjustable
reading stand
- 171 A mahogany filing cabinet and an office wash-
stand with some fittings, an oak key cabinet
and 2 office baskets
- 172 An expensive oak filing cabinet of 25 drawers,
in 5 sections
- 173 A 3-ft. 6-in. chest of 3 long and 2 short drawers,
satin walnut front
- 174 A 3-ft. 6-in. mahogany-fronted and oak chest
of 3 long and 2 short drawers
- 175 An antique mahogany commode
- 176 A small bamboo table with shelves under,
small painted octagonal table, and a copper
fire-screen

MISCELLANIES.

- 177 A patent trousers presser and stretcher
- 178 A small table stereoscope with number of slides,
and a large number of Japanese muff warmers
- 179 Two water-colours in gilt frames, and an oil
painting in gilt frame
- 180 A well-executed water-colour drawing by J.
Clapham, in gilt frame
- 181 Three old engravings—Scriptural subjects, in
black and gilt frames
- 182 Seven pictures framed and glazed, and 2 frames
- 183 A portfolio of water-colour drawings and prints,
etc.
- 184 A well-mounted stuffed badger in glass case
- 185 Three glass cases containing well-mounted
specimen birds
- 186 Ditto
- 187 Three fine specimens of Venus flower basket,
under glass shades; and a mounted fish, ditto
- 188 The Works of Samuel Johnson, LL.D., leather
bound, 11 vols.

- 189 Wordsworth Poetical Works, 6 vols. ; Atlas of Principal Cities of the World, Astronomical and Geographical Diagrams, and Morant's Geological Chart
- 190 Old engraving, framed—Blind Fiddler ; painting in oils, crayon drawing, and another
- 191 Charming water-colour drawing, gilt frame—York Minster
- 192 Old painting in oils—Goats
- 193 Eleven 12-in. gramophone records, and one other (A.F.)

CHINA, GLASS, &c.

- 194 A pair of 12-in. 2-handled vases with miniature medallions of lady and gentleman
- 195 Two large decorated earthenware pitchers, and a large willow ware bowl (repaired)
- 196 A pair of 14-in. Continental spill shaped vases with metal handles and stands
- 197 A pair of openwork Dresden vases (A.F.), pair of Dresden fern-pot holders, and 3 others (A.F.)
- 198 A Wedgwood teapot, 2 other small teapots, old English beer jug, pair of 2-handled mugs and 2 others (A.F.)
- 199 A 16-in. highly-decorated china plaque, a 12-in. Wedgwood tray, and a decorative Staffordshire plate
- 200 A pair of 14-in. Staffordshire dishes and 7 decorative plates and dishes
- 201 A Davenport sauce tureen and cover, a ditto, and another tazza-shaped bowl, 7 old china jugs, and a 2-handled bowl
- 202 A 9-in. bowl, 7-in. openwork ditto, 2 other bowls, 2 Coalport china baskets (1 A.F.), openwork dish and 6 small plates and dishes
- 203 A pair of 9-in. blue china figures
- 204 A pair of Dresden china groups of figures (1 A.F.)
- 205 A pomade pot and lid, china group, Victoria Jubilee mug, and 30 pieces of china, various

- 206 A willow sauce-boat and cover, trinket box and cover, Etruscan-ware jug, Chinese spill, 5 large vase covers with kylin handles (some A.F.), and a jug-shaped vase
 - 207 A large Dresden flower-pot holder, and a large ditto jardinière and cover
 - 208 A 13½-in. Sèvres vase decorated with birds and flowers
 - 209 A pair of busts (A.F.), pair of 11-in. white figure flower-holders, 11-in. decorated jug, and 4 other pieces
 - 210 A large jardinière, 2 large earthenware jugs, and a large glass ditto
 - 211 A pair of 18-in. decorated Imari wall plaques
 - 212 An 18-in. and a 16-in. ditto
 - 213 A pair of 16-in. Chinese plaques and an 18-in. ditto
 - 214 A pair of 14-in. figures on marble stands, and a pair of marble stands
 - 215 Two pieces of Venetian glass, glass goblet, cut-glass decanter and stopper (A.F.), 2 vases, and various other pieces of glass
 - 216 Twenty-four cut and other glass scent bottles, etc. (several silver-mounted)
 - 217 An oak spirit tantalus with 3 cut-glass bottles
-
- 218 A pair of 12-in. plated pillar candlesticks
 - 219 A plated salver, 2 cruet frames, cream and hot-water jugs, small bowl, tankard and jug
 - 220 A copper urn
 - 221 An old bronze figure, pair of metal vases, small pair brass ditto, Benares bowl, brass trinket box and 2 other pieces
 - 222 A large soapstone group, 2 small ditto, opium pipe, cachetot tooth and various small pieces of carved ivory and bone
 - 223 A lacquer work-box, ditto glove-box, ditto bowl, carved ivory fan, 3 mosaic paper-weights, miniature in frame, and 6 metal grasshoppers
 - 224 Plated cigar case, papier-mâché bottle, theatrical jewellery and quantity of sundries
 - 225 Fishing reel, wallet of flies, tea caddy, electric coil and sundry small items in tin box
 - 226 An early triptych with figure of Christ

- 227 A small Japanese cabinet with sliding doors and several small drawers
- 228 Three mirrors in antique frames, leaded and coloured glass screen, marble inlaid table top, and painting on china in plush frame (A.F.)
- 229 Four large gilt wall brackets
- 230 Quantity of mirror and other wall brackets and frames
- 231 A well-executed miniature of a lady, in frame
- 232 A saw-backed sword, 2 Court swords, and another sword
- 233 An old brass church lamp hanging, 3 brass shell cases, leather hat and collar boxes, carved emu egg, elephant's grinder, skull and various natural history specimens
- 234 A plaster modelling figure and basket of sundries
- 235 Set of chessmen in box, dominoes, draughtsmen and board, "Minoru" race game, lac draughts board and men, and 2 other game boards
- 236 Quantity of theatrical clothing etc., in box
- 237 Two pieces of embroidery, large hanging and quantity of theatrical clothing
- 238 Two dress coats, 2 waistcoats, and pair of trousers
- 239 Quantity of books
- 240 Ditto
- 241 Pewter dish, English, Eighteenth Century; box with straw decoration, Japanese; spoons (2), Norwegian; scoop, Swiss; and tazza of metal with head of Emperor Maximilian I., Austrian
- 242 Three old Japanese metal work pictures, in black frames
- 243 100 copies of old seals, etc., in boxes
- 244 Two tortoise-shell boxes (A.F.)
- 245 Twelve hand-painted Dresden plaques
- 246 A large Mason ware vase and cover, richly decorated (A.F.)
- 247 Four Persian cups and saucers (stone), bowl, salt-cellar, bottle and stopper (all stone engraved)

- 248 Two Imari teapots, Chinese ditto and another, pair of faience bottles (1 A.F.), German decorated china pipe bowl, 2 mugs, cream jug and a small jardinière encrusted with blossom
- 249 Six walking sticks, huntsman's whip, native whip, French bayonet in sheath, a small tray, and a Chinese shoe
- 250 Forty-six badge brooches in separate boxes, and a cigar-lighter made from a German shell
- 251 Two plated entrée dishes
- 252 Two Sheffield-plated vegetable dish warmers
- 253 Three waist-belts, one silver-mounted and 2 others, 5 spoons, 2 pairs of nippers, and a pair of grape-scissors
- 254 Silver-mounted cut-glass scent fountain and 2 silver-mounted ditto bottles
- 255 Two hunting flasks, tea-strainer, 2 decanter stands, 7 medallions and belt with military badge, silver-mounted leather telegram case, chatelaine waist-clasp, and 8 bracelets
- 256 Circular piqué box and 2 others, and 9 antique cameo brooches in case
- 257 Flower vase, 2 bracelets, a toast-rack, and 2 Empire telescopic fire-screens
- 258 Indian pierced border tea tray
- 259 Electric battery and fittings
- 260 Striking dial in inlaid case
- 261 Striking mantel clock in going order, and a quaint brass and copper candlestick
- 262 A lady's new leather dressing case with silver-mounted bottles and fittings, and ivory-backed brushes

PLATED ITEMS, JEWELLERY, &c.

- 263 Two large plated dish covers
- 264 Plated 2-tier biscuit stand with trays, and 6-hole cruet frame
- 265 Old Sheffield spirit stand (3 bottles)
- 266 Hot-water jug, 2 toast racks, 2 cruet frames, part cruet frame, 6 china-handled knives and 6 forks
- 267 Egg-boiler and spirit flask

- 268 Fine old Sheffield plated railed cruet for 6 bottles (no fittings), 2 basket cruets (no fittings), and Britannia metal teapot
- 269 A handsome plated waiter with gadroon edge
- 270 A plated cigarette box and tray
- 271 Two pairs of silver vases
- 272 Four meat skewers and 3 other articles
- 273 One silver frame
- 274 Silver lamp, 2 ditto vases, and ditto candlestick
- 275 Four silver-mounted scent bottles
- 276 Four coral and stone necklaces
- 277 A coral necklace and pair of ditto earrings, gold mounted
- 278 Antique cameo brooch
- 279 Sundry antique jewellery, etc., in box
- 280 Bronze inkstand
- 281 Pair of silver salts and spoons, in case
- 282 Pair of octagonal silver salts and spoons, in case
- 283 Electro-plated cigarette box, ditto ash tray, ditto Jersey can, pair ditto knife rests, and ditto soda-water bottle holder
- 284 Electro-plated kettle, stand and lamp
- 285 Electro-plated round chased tea and coffee set (rose button)
- 286 Pair of ditto chased candlesticks
- 287 Electro-plated engraved claret jug
- 288 Ditto strawberry dish with sugar basin and cream jug
- 289 Ditto round engraved salver
- 290 Four plain round electro-plated salts and spoons (on feet)
- 291 Four chased salts on feet, electro-plated.
- 292 Pair electro-plated reeded beakers
- 293 Basket pattern electro-plated pint tankard
- 294 Two lady's gold dress rings
- 295 A gentleman's silver 8-day hunter watch, in going order

MISCELLANIES.

- 296 Twenty oak stair-rods and brass eyes for same
- 297 Eighteen 12-volt electric bulbs, and 136 touch-light bulbs
- 298 O-Cedar mop, 3 war relics, electric iron, and sundries

- 299 Fine specimen zebra-skin complete, crocodile-skin, and 2 hippo.'s tails
- 300 Three lady's blouses, 2 air cushions, and baby's wool coat
- 301 Fox-skin, 4 tails, and lady's hat and sundries
- 302 Oriental needlework cloth, waxed ditto, and an Indian teacloth
- 303 Miniature portrait of lady, 3 medals and calendar in silver frame
- 304 Pair of antique bracelets, set cameos
- 305 Old Toby jug
- 306 Lady's hair ornament, set garnets, small silver pocket mirror, card case, note-book, and lady's watch
- 307 Handsome electric radiator and fire-screen, combined
- 308 Carpenter's saw, and 20 other tools
- 309 Gentleman's leather waistcoat, lambswool lining, one other, and 4 shirts
- 310 Two motor jacks
- 311 Six dozen battens with aluminium fittings, suitable for tripods, banisters, shelving, fences, etc.
- 312 Weno stereoscopic camera for roll films
- 313 Carriage clock in case
- 314 Concert flute, piccolo and flageolet
- 315 Dress suit and trousers
- 316 Pair of Sandow's spring dumb-bells, 3 writing cases, pocket-book cover, patent hair-cutter, lady's hair ornaments, field-glass case, chain purse, and number of coins and sundries
- 317 Sundries, bunting, parasol, etc.
- 318 Several dozen pendant frames for photos
- 319 Aluminium tripod
- 320 Three glass decanters
- 321 Lawn mower (A.F.), small table, part vacuum cleaner, etc.
- 322 Seven pictures
- 323 Canvas valise, leather handbag, 3 motor inner tubes, 6 golf balls and an accumulator (A.F.)
- 324 Bundles of books
- 325 Ditto
- 326 Ditto
- 327 Marble top washstand, fitted one drawer

- 328 Two dozen silver brooches
- 329 Ditto
- 330 Six dozen rows of beads
- 331 Six attaché cases
- 332 Large size garden umbrella
- 333 Engine cylinder, a sheep-shearing machine in parts, a copper container and a gas heater
- 334 Lady's opera cloak
- 335 Box of sundries and large quantity of drugs
- 336 Large desk
- 337 Pair rubber boots, and 2 pairs of top boots
- 338 Two mahogany dining-room chairs
- 339 Two dozen new Ediswan lamps, 95 volts
- 340 Two boxes of human hair
- 341 Large arm-chair (A.F.)
- 342 Twelve purses, 48 roll gold collar pins, and 48 pairs of links
- 343 A new canvas side cover
- 344 Copying press or stand, 2 drawers under
- 345 A 2-light oil stove
- 346 Three dozen new purses
- 347 Japanese box, 2 ivory stands and 4 pairs of spurs
- 348 Japanese lacquer cabinet
- 349 Parrot cage, seltzogene and a bedpan
- 350 Waterproof valise
- 351 Strong iron-bound chest
- 352 Motor tool-box and an outer cover
- 353 Billiard cue in case, 3 golf clubs, 4 umbrellas, curtain poles, etc.
- 354 Fishing rod box with various rod tops, periscope, etc.
- 355 Twenty-two books, scientific
- 356 Forty-two vols. Diamond Poets
- 357 Hand camera and 3 vignettes
- 358 Stereoscope
- 359 Six Japanese prints on rice paper
- 360 Two engravings on silk and 2 fur necklets
- 361 Cabin trunk
- 362 Old panel painting, pewter plate and a ditto mustard pot
- 363 Two dog baskets and a collar
- 364 Quantity of books

PICTURES, &c.

- 365 A set of 4 old French woodcut prints in black and gilt frames
- 366 A large picture frame and some pictures
- 367 A pair of coloured sporting prints by J. Leech, framed and glazed
- 368 An old engraving—"Belinda at her toilet," 2 oil paintings and 2 water-colours, all framed and glazed except one
- 369 Ten small engravings in gilt frames, 6 others framed, theatrical subjects, small oval and 2 coloured sporting prints; also various portions of gilt picture frames
- 370 Two large engravings in gilt frames
- 371 Pair of paintings—Birds, in gilt frames, by ROLAND KNIGHT
- 372 Collection of drawings, prints and engravings
- 373 Twenty-four small pictures, framed
- 374 Ten drawings, paintings, etc., and mirror in wrought iron frame
- 375 *The Times* War Atlas, quantity of maps various, and Jennings' Landscape Annual, 4 portfolios, Dublin Exhibition album, and another
- 376 Six pictures
- 377 Oil painting framed, and 3 pictures various
- 378 Two large old oil paintings in gilt frames
- 379 Large engraving, framed—"Sir Fenwick Williams and his officers leaving Kars"
- 380 Six pictures, various
- 381 Large unframed portrait
- 382 Pair of oil paintings, framed—"Chickens"
- 383 Large oil painting

END OF FIRST DAY'S SALE.

SECOND DAY'S SALE.

Friday, January 21st, 1921.

AT 12.30 O'CLOCK.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

MISCELLANIES.

- | | |
|-----|---|
| LOT | |
| 401 | Two lady's mackintoshes |
| 402 | Two ditto |
| 403 | Two ditto |
| 404 | Three ditto |
| 405 | Three ditto |
| 406 | Three ditto |
| 407 | An 18-carat brilliant and turquoise ring |
| 408 | An 18-carat diamond ring |
| 409 | An 18-carat gem ring |
| 410 | A 9-carat buckle keeper ring |
| 411 | Gold bracelet and wrist watch |
| 412 | Jewel case containing quantity of silver and
miscellaneous jewellery |
| 413 | China figure of Cupid |
| 414 | Hand-painted dish and two cups and saucers |
| 415 | Pair of large Oriental vases |
| 416 | Pair of crackle ware vases, and one other |
| 417 | Number of ivory tusks and emu eggs |
| 418 | Carved ivory dagger, hunter's knife, and 4
Persian papier mâché articles |

- 419 Two albums of drawings, paintings and verse
- 420 Two brass ash-trays, 2 ditto match-holders,
and pair of brass fire-dogs
- 421 Four soapstone ornaments, race glass, and a
plaque plated on copper
- 422 An oil painting—Sea piece with Shipping
- 423 R. Barnes, signed—"Grandfather's Pet," a
very fine oil painting
- 424 W. Coleman, 1874—water-colour drawing,
"Mountainous Lake Scene"
- 425 T. C. Dibdin, 1842—a ditto, "Old Cottages,"
with figures, etc.
- 426 H. French, 1891—handsome water-colour
drawing, "A Sprig of Mistletoe"
- 427 Ivory miniature of a lady
- 428 A ditto
- 429 Two glass decanters
- 430 A lady's leather dressing case with silver fittings
- 431 A handsome canteen of cutlery, 164 pieces, in
mahogany case
- 432 A lady's leather dressing case with silver fittings
- 433 Set 3 full-size ivory billiard balls
- 434 Superior cinematograph arc lamp
- 435 Leather portmanteau with canvas cover
- 436 Gentleman's overcoat
- 437 Lady's coat and petticoat
- 438 Six spoons, 6 forks, and tea tray
- 439 A 12-in. His Master's Voice double-sided record,
and 8 other double-sided records
- 440 Six knives, 6 forks, and 6 spoons
- 441 Three plated boxes
- 442 Two walking sticks, 4 umbrellas, carrying case,
and leather bag (A.F.)

PICTURES, &c.

- 443 Two portfolios quantity of prints and water-
colours
- 444 Two paintings—"Evening"
- 445 One ditto, Italian School—A figure subject
- 446 Ditto—"Holy Family," in a landscape,
Flemish School
- 447 Ditto—Battle Scene, Dutch School
- 448 Eight oil paintings, various

- 449 Set of 4 antique glass pictures, "The Four Evangelists"
 - 450 Set of 4 ditto, "The Sacraments," etc.
 - 451 Italian School—oil painting, figure subject
 - 452 Cuyp—Landscape, with horsemen and cattle
 - 453 S. Harrison—oil painting, "The Old Watermill"
 - 454 Jock Wilson—"Vessels off the Coast"
 - 455 Beautifully finished ivory miniature of a lady, in oval gold-plated frame
 - 456 Frith (after)—"Scene from Ivanhoe"
 - 457 Louis Bernhardt—Boy with Calf; and a Dutch Skating scene
-

- 459 Remington No. 10 typewriter, model, brief size, all improvements to date, practically new
- 460 Two copper and brass electric table lamps, with plugs and flex
- 461 Visible writing typewriter, with two colours, backspacer and decimal tabulator
- 462 Two incandescent burners for lamps, 12 boiler gauge tubes and 2 steam gauges
- 463 Smith Premier No. 10 visible typewriter, double foolscap size, writes 2 colours and fitted backspacer, 10-stop decimal tabulator, and 4-stop column selector
- 464 Curious antique surveying instrument
- 465 Old English sporting blunderbus with brass mounts and carved stock

POSTAGE STAMPS, &c.

- 466 A collection of stamps and duplicates
- 466A Ditto, ditto
- 467 Blue stock book containing many hundreds of stamps, including mint Colonial war stamps, and other good Colonial issues
- 468 The World Postage Stamp album, containing about 2,500 stamps (some old issues)
- 469 A collection of stamps
- 470 Ditto in Lincoln album
- 470A Collection containing over 3,000 stamps, many old Ceylon, St. Helena, Nova Scotia, etc., fine lot

PHOTOGRAPHIC APPARATUS, &c.

- 471 A $\frac{1}{2}$ -plate Field camera with fine achromatic lens, and a double slide
- 472 Hunsicker and Alexis 8x prism binoculars, eyepiece focusing, in leather case, very fine
- 473 Fine pair Goerz Trieder theatre prism binoculars, rack focusing and eyepiece adjustment, in leather case
- 474 A $\frac{1}{4}$ -plate Lancaster instantograph, good lens, 2 slides
- 475 A $\frac{1}{4}$ -plate roll film Seneca camera, fine lens, speeded shutter
- 476 Ross 6x prism binoculars, eyepiece focusing, fine
- 477 No. 1 Ensignette vest pocket camera
- 478 Excellent pair double telescopes, in leather case, very long range
- 479 No. 4 Panoram Kodak
- 480 Jay Nay Quickset tripod
- 481 A 15 by 12 enlarging easel, and 2 squeegees
- 482 Vest pocket Kodak, special model, Cooke anastigmat lens, F/6.3, speeded shutter, in case, as new
- 483 No. 4 folding Kodak, 5 by 4, late model, fine rapid rectilinear lens, speeded shutter, leather case, fine
- 484 No. 2 box Brownie, as new
- 485 No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$
- 486 No. 1 folding pocket Kodak, $3\frac{1}{4}$ by $2\frac{1}{4}$, in excellent condition
- 487 Fine pair field glasses, in leather case, as new
- 488 Kodak daylight developing tank, for 7 by 5 and $\frac{1}{2}$ -plate, with adapter for filling
- 489 *Bausch & Lomb binocular microscope for dissection, very latest and up-to-date model, 2 pairs binocular objectives, 48 mm. and 32 mm., glass and metal stages, in case*
- 490 Fine pair of powerful field glasses, in leather case
- 491 Newman & Guardia $\frac{1}{4}$ -plate folding Nydia camera, fine Beck rapid rectilinear lens, complete in leather case
- 492 A $3\frac{1}{2}$ by $2\frac{1}{2}$ Mascot magazine camera for 6 plates

- 493 Klito $\frac{1}{4}$ -plate magazine camera (horizontal focusing model), Cooke F/6.5 anastigmat lens, fully speeded unicum shutter, in lined leather case
- 494 Pair real Canadian snowshoes
- 495 Magnificent pair of 8x French prism binoculars, very brilliant, eyepiece focusing
- 496 Sanderson 5 by 4 regular model, triple extension hand and stand camera, Goerz Dagor lens, F/6.8, compound shutter, 3 mahogany double dark slides, and leather case
- 497 No. 1 Brownie Kodak and finder
- 498 Premoette 1A Junior for film packs
- 499 No. 1A folding pocket Kodak, closed front, fixed focus model, $4\frac{1}{4}$ by $2\frac{1}{2}$
- 500 No. 3 folding Kodak, $\frac{1}{4}$ -plate, for roll films, fine condition
- 501 Six 12 exposure No. 3 film pack Kodak spools, guaranteed perfect
- 502 Ditto
- 503 Seventy photographic lantern slides of Morocco
- 504 Praestantia projection and lecture lantern by Riley Bros., with 7-in. lens in focusing jacket, draw tube oil lamp, slide carrier, and metal case, very fine quality
- 505 A $\frac{1}{2}$ -plate field camera (Lizars' "Challenge"), rapid rectilinear lens, roller blind shutter, 3 bookform slides, canvas case, and 3-fold tripod
- 506 Fine projection lantern, complete with paraffin lamp in case
- 507 Fine all-metal $\frac{1}{4}$ -plate enlarger with $5\frac{1}{2}$ -in. condenser lens in rack focusing mount, and with powerful oil lamp
- 508 Telescopic brass tripod
- 509 Twenty-four coloured slides—Engines, etc.
- 510 A pair of 7x prism binoculars, excellent condition, rack focusing
- 511 Fine pair of 5-magnification field glasses in leather case
- 512 Thirty-six Argentine photographic lantern slides
- 513 Large velvet focusing cloth, 3 printing frames, dish, 9 by 12cm. film packs and quantity of printing paper

- 514 Egyptian subjects—British Museum photographic lantern slides
- 515 Three moving coloured lantern slides
- 516 Leitz prism binoculars, eyepiece focusing, bending bar ; in first-class condition
- 517 A 2A folding Brownie, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter, canvas case
- 518 Kodak daylight developing tank for $\frac{1}{2}$ -plates with top for filling ; cost 42s.
- 519 No. 2 bullet Kodak for $3\frac{1}{4}$ sq. pictures ; fine for making lantern slides
- 520 No. 4 bull's-eye Kodak, 5 by 4 boxform fixed focus for roll films ; fine lens
- 521 No. 3 boxform Brownie, $\frac{1}{4}$ -plate, as new
- 522 Premo folding camera, 5 by 4, hand or stand, fine rapid rectilinear lens, unicum fully-speeded shutter, 3 double slides and leather case
- 523 Goerz folding Tenax, 9 by 12cm., or easily used with $\frac{1}{4}$ -plate carriers, double extension rack focusing, Goerz Dagor lens F/6.8, compound shutter, film pack adapter ; magnificent outfit
- 524 Very powerful long-range telescope
- 525 Ensign folding roll film camera, $\frac{1}{4}$ -plate, with Ensign anastigmat lens, F/7.7 ; Ensign sector shutter, all speeds to 1/100th sec. ; adaptable for plates
- 526 Goerz folding Tenax, $\frac{1}{4}$ -plate, latest Manufoc model, double extension, rack focusing, Goerz Dagor lens F/6.8, compound shutter, film pack adapter and leather case
- 527 Kershaw prism binoculars, 6-magnification, eyepiece focusing, in leather case ; finest English make
- 528 Vest pocket Kodak, Ross homocentric lens F/6.3, speeded shutter ; leather case
- 529 No. 3 folding Brownie $\frac{1}{4}$ -plate roll film camera, fine condition
- 530 Pair of fine gilt and mother-of-pearl opera glasses
- 531 Fine pair Ross prism binoculars, 6x, in strong leather case

- 532 Student's microscope, fine quality and very compact, $\frac{1}{4}$ in. and $\frac{1}{2}$ in. objectives, bull's-eye condenser, live box specimens ; all in mahogany case
- 533 Five watch pocket Klimax slides
- 534 Fine pair of Zeiss prism binoculars, 8x, in fine condition
- 535 Very powerful 4-draw telescope by Broadhurst Clarkson, particularly suitable for marine work
- 536 Three leather cases for 1A Kodaks
- 537 Strong wooden tripod for $\frac{1}{2}$ -plate camera with top
- 538 No. 2 bull's-eye Kodak, $3\frac{1}{2}$ by $2\frac{1}{2}$
- 539 No. 3 folding Kodak, $\frac{1}{4}$ -plate, for roll films, fine rapid rectilinear lens
- 540 Pair of real Canadian snowshoes
- 541 A $\frac{1}{4}$ -plate magazine camera
- 542 A $\frac{1}{4}$ -plate magazine Klito, fine model, with speeded shutter and magnifiers
- 543 Very powerful double telescope in leather case
- 544 Parcel containing velvet focusing cloth, 2 Goerz 9 by 12cm. in film packs, squeegee, and printing frame
- 545 Parcel containing Kodak roll film developing tank, two 9 by 12cm. film packs, 3A spool, canvas case and focusing cloth
- 548 No. 1 Junior autographic Kodak, $3\frac{1}{4}$ by $2\frac{1}{4}$, very excellent
- 549 Fine $\frac{1}{2}$ -plate stand camera, rapid rectilinear lens, 2 bookform double slides, 3-fold tripod and canvas case
- 550 A $\frac{1}{2}$ -plate Premo folding camera with fine lens and shutter, 3 double dark slides and case
- 551 Davon micro telescope in leather case, fine condition, very effective for all classes of telescopic work at short or long distances ; cost £11 11s.
- 552 No. 3 box Brownie $\frac{1}{4}$ -plate for roll films, fixed focus, very effective
- 553 Fine pair of 7-magnification prism binoculars, beautiful definition
- 554 Very powerful pair of field glasses, leather covered, in case

- 555 Fine pair of gilt and inlaid field or opera glasses, gold mounted in leather case
- 556 A 3A folding Brownie, post-card size, fine lens, speeded shutter ; canvas case
- 557 Fine whole-plate stand camera by Meagher, Dallmeyer lens, and 3 double bookform slides
- 558 A 10 by 15cm. folding plate camera, fine anastigmat lens F/6.8, fully-speeded shutter, 2 slides, film pack adapter and strong leather case with strap
- 559 A 2-in. Kodak daylight developing tank for all size films up to 1A
- 560 Fine Swift compound microscope with all movements, double nosepiece, $\frac{1}{4}$ in. and $\frac{3}{8}$ in. objectives, 2 eyepieces, polariser, substage condenser, 2 bull's-eye condensers, forceps, slides and mahogany case
- 561 Magfo $\frac{1}{4}$ -plate folding camera, Goerz Dagor lens F/6.8, compound shutter, all speeds up to 1/250, velvet-lined leather case, magazine for 12 plates ; lens and shutter alone worth £13 to-day
- 562 *Ernemann latest model cinematograph camera, Ernon anastigmat lens F/6.5, in focusing mount, as new ; cost nearly £30*
- 563 Fine pair central focusing 7x prism binoculars, eyepiece adjustment, and leather case
- 564 No. 4 cartridge Kodak, 5 by 4, for roll films, double extension, fine rapid rectilinear lens, and speeded shutter
- 565 Ensignette developing tank

ELECTRICAL APPARATUS, &c.

- 566 A 100-volt electric kettle in working order, and a 200-volt ditto (requires repair)
- 567 Six black enamelled electric bells
- 568 A box of electric light wire
- 569 A box of odd electrical accessories
- 570 An electric light fitting
- 571 An 8-way distribution board with D.P. fuses and S.P. switches on slate base, enclosed in teak case with lock and key

- 572 A 6-volt 60-amp. C.A.V. accumulator, charged
- 573 A ditto accumulator, charged
- 574 A 6-volt 180-amp. Lucas accumulator, charged
- 575 A galvanometer
- 576 Box electric lamps
- 577 Ditto electrical accessories
- 578 Ditto electric light wire
- 579 Ditto glass shades for electric light
- 580 Pieces of telephone cable
- 581 Six black enamelled electric bells
- 582 A 240-volt immersion heater in working order
- 583 A 110-volt electric hat iron in working order
- 584 A 200-volt electric vibrator in case with applicators
- 585 A 200-volt electric vibrator in case

ELECTRO-THERAPEUTICAL APPARATUS, &c.

- 586 Sterling high frequency generator (Serial No. 4292), complete in case; also mahogany switchboard with fittings and lamp
 - 587 Ditto (Serial No. 3852), complete with case and switchboard
 - 588 Ditto (Serial No. 4281) with switchboard (without case)
 - 589 Ditto (Serial No. 4319), without switchboard or case
 - 590 Ten glass surface applicators, etc.
 - 591 Rhythmostat
 - 592 Galvanic battery with galvanometer and collector
 - 593 Wet cell battery and 2 accumulators
 - 594 Head mirror and electric bracket apparatus
 - 595 Sundry electrodes, ear specula, tuning forks, etc.
 - 596 Mahogany stand for table batteries
-
- 597 Two dozen Slazengers' tennis balls
 - 598 Electric radiator by Dowsing
 - 599 Ditto lot

SCIENTIFIC APPARATUS, &c.

- 600 A monocular microscope by Pillischer, coarse rack and fine adjustments, mechanical stage, $\frac{1}{2}$ in. and 1 in. objectives, 2 eyepieces, analyser and polariser, stage forceps and live box



- 571 A 6-volt 60-amp. C. & F. accumulator, charged
- 572 A ditto accumulator, charged
- 573 A 6-volt 180-amp. Lucas accumulator, charged
- 575 A galvanometer
- 576 Box electric lamps
- 577 Ditto electrical accessories
- 578 Ditto electric light wire
- 579 Ditto glass shades for electric light
- 580 Pieces of telephone cable
- 581 Six black enamelled electric bells
- 582 A 230-volt immersion heater in working order
- 583 A 110-volt electric hot oven in working order
- 584 A 200-volt electric vibrator in case with applicators
- 585 A 200-volt electric vibrator in case

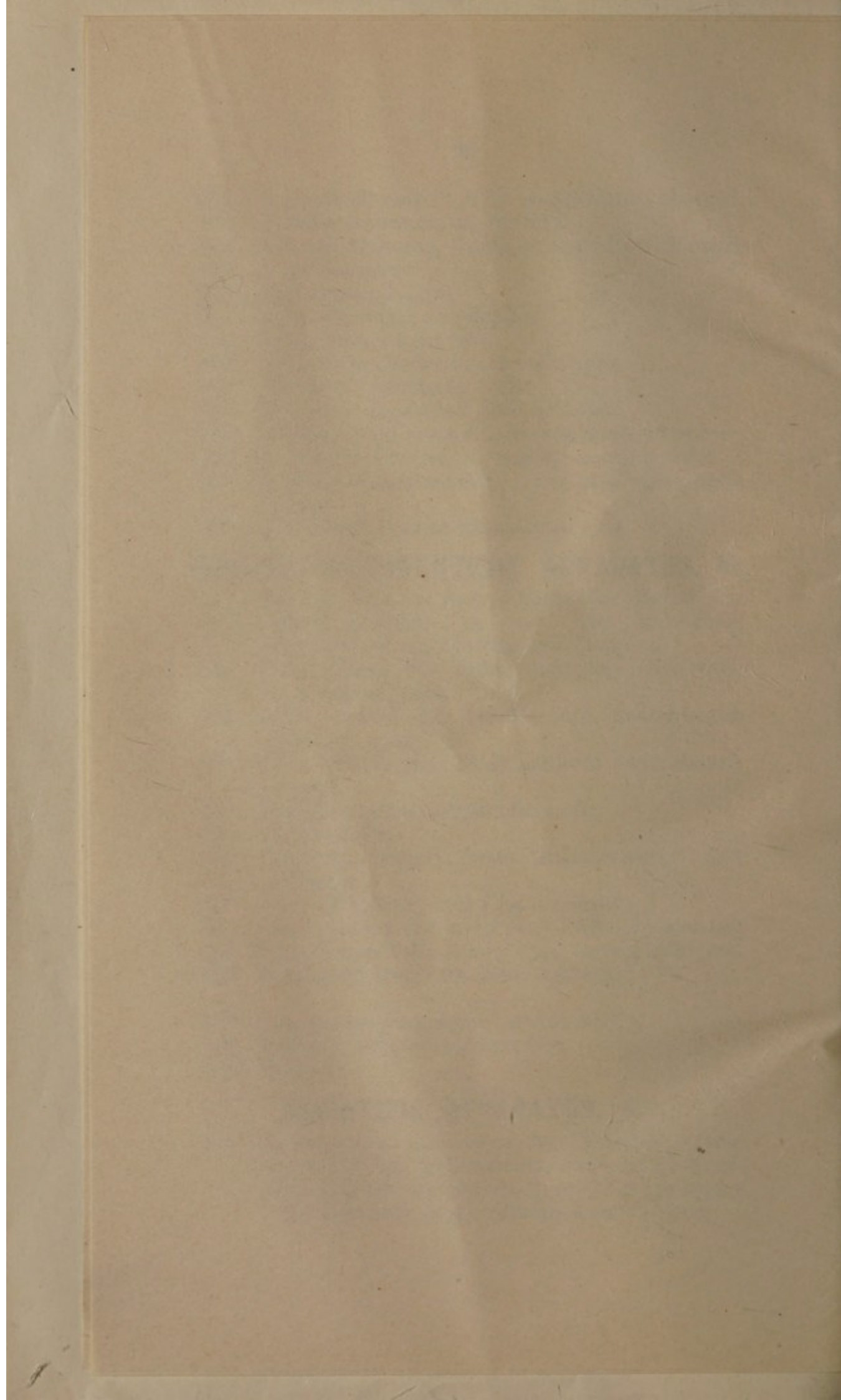
ELECTRO-THERAPEUTICAL APPARATUS, &c.

- 586 Spring high frequency generator (Serial No. 4282), complete in case, also mahogany switchboard with fittings and lamp
- 587 Ditto (Serial No. 3852) complete with case and switchboard
- 588 Ditto (Serial No. 4281) with switchboard (without case)
- 589 Ditto (Serial No. 4319), without switchboard or case
- 590 Ten glass surface applicators, etc.
- 591 Rhythmostat
- 592 Galvanic battery with galvanometer and collector
- 593 Wet cell battery and 2 accumulators
- 594 Hand mirror and electric bracket apparatus
- 595 Handy electrodes, ear specula, towing forks, etc.
- 596 Mahogany stand for table batteries
- 597 Two dozen Slesinger's tennis balls
- 598 Electric radiator by Dowling
- 599 Ditto lot

SCIENTIFIC APPARATUS, &c.

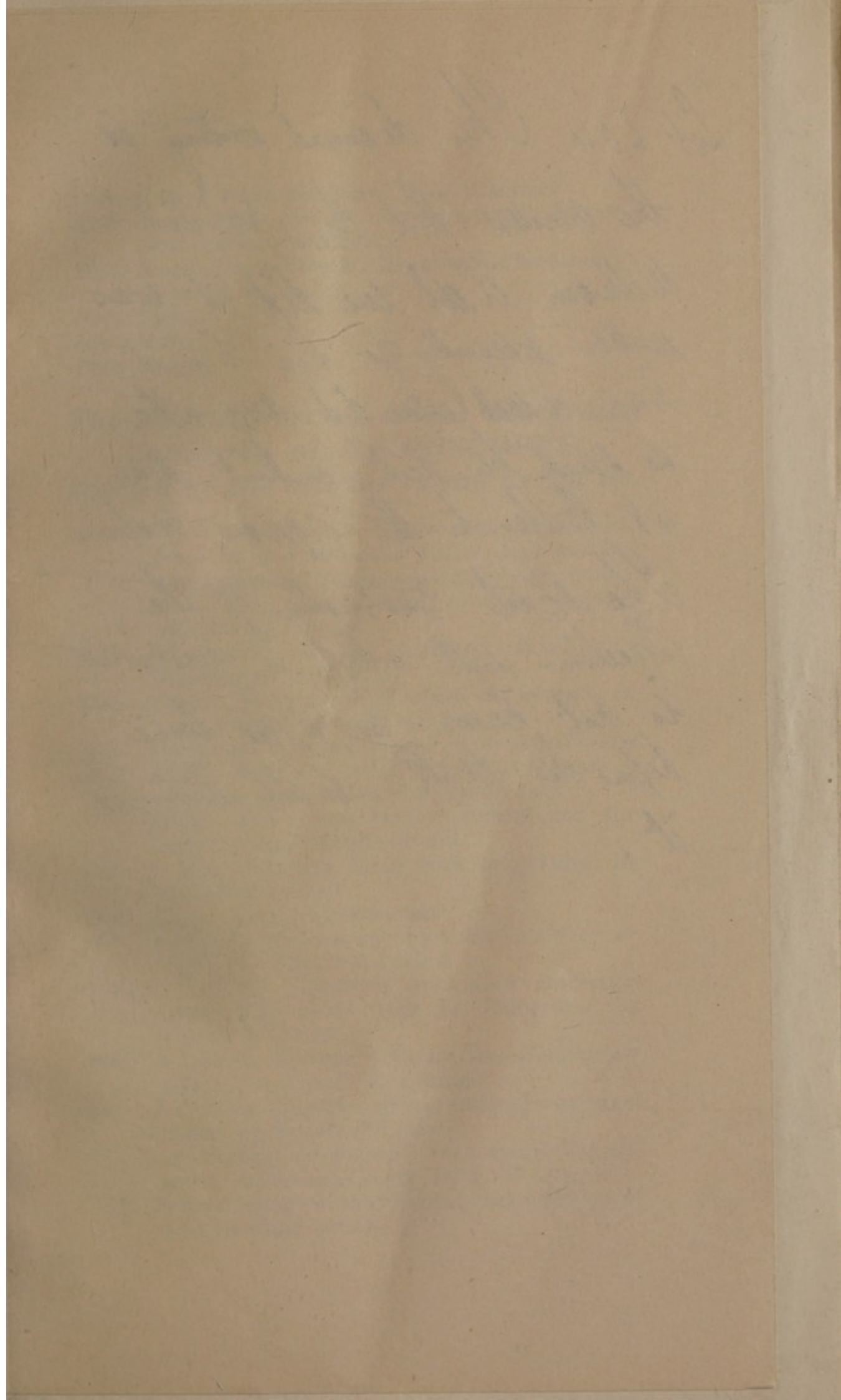
- 600 A monocular microscope by Pillischer, coarse rack and fine adjustments, mechanical stage, 1/4 in. and 1 in. objectives, 2 eyepieces, analyser and polariser, stage forepicks and live box













- is just as good as the original
- 6004 A large stand condenser, 4 1/2 in. diameter
 6005 A small case for microscope with silver
 suit previous microscope
 601A A pair of new Voigtlander prismatic binoculars
 601B Ditto
 601C Ditto
 601D Ditto

For the purpose of the microscope

of MICROSCOPES

of the late Sir Frank Crisp, Bt.

and a large number of microscopes, including
 binocular and monocular bodies, high and low
 power, and mechanical revolving gonio-

scopes, and a large number of accessories, including
 diaphragms and slides

602 A large 30 inch stand, fitted with
 a large 30 inch objective, and a large 30 inch
 eyepiece, and a large 30 inch stage

603 A large 30 inch stand, fitted with
 a large 30 inch objective, and a large 30 inch
 eyepiece, and a large 30 inch stage

604 A large 30 inch stand, fitted with
 a large 30 inch objective, and a large 30 inch
 eyepiece, and a large 30 inch stage

NOTE.—This is the only one (and the
 only one) that Webb ever did.

605 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

606 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

607 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

608 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

609 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

610 A 2 in. objective fitted with Heberkühn, by
 Powell & Lealand

611 An erecting microscope, rack coarse adjust-
 ment, mechanical stage, by C. D. Adams

612 Peffer's botanical microscope, rack adjustment
 and levelling screws

Lot 604 This diamond writing is
the smallest that the celebrated
William Webb ever did it was
written especially for Sir Frank
Crisp, & Webb never did any other
so small his next smallest was
48 Billes to the square inch.

The exact construction of the
Machine with which it was written
is not known as some time
before his death Webb destroyed
it.

- 600A A large stand condenser, 2½ in. diameter
- 600B A mahogany case for microscope with drawer,
suit previous microscope
- 601A A pair of new Voigtlander prismatic binoculars,
8 by 25, in leather case
- 601B Ditto
- 601C Ditto
- 601D Ditto

***The Fourth Portion of the Celebrated
Collection of MICROSCOPES,
formed by the late Sir Frank Crisp, Bt.***

- 601 *Powell & Leland No. 1 microscope, latest model,
binocular and monocular bodies, high and low
power prisms, mechanical revolving gonio-
meter stage, rack adjusting rotating substage,
with fine adjustment*
- 602 Achromatic substage condenser, fitted with
diaphragms and stops
- 603 *Nobert's 30-band ruling, signed and mounted in
brass frame ; extremely rare*
- 604 *The unique diamond writing by the late William
Webb, being the Lord's Prayer at the rate of
fifty-nine entire Bibles to the square inch*
NOTE.—This is the *smallest writing* (and the
only one) that Webb ever did.
- 605 A 2-in. objective fitted with lieberkuhn, by
Powell & Leland
- 606 A 1-in. ditto, no lieberkuhn
- 607 A 1/16-in. oil immersion, graduated correction
collar, by Powell & Leland
- 608 A 1/16-in. objective, graduated correction
collar with extra front for immersion, by
Powell & Leland
- 609 A 1/25-in. objective, with graduated correction
collar, by Powell & Leland
- 610 A 1/50-in. objective, with graduated correction
collar, by Powell & Leland
- 611 An erecting microscope, rack coarse adjust-
ment, mechanical stage, by C. D. Ahrens
- 612 Peffers' botanical microscope, rack adjustment
and levelling screws

- 613 A mounted prism on stand, and two stand condensers
- 614 An electric micro lamp on ball and socket foot, and a small stand condenser, and two other condenser fittings
- 615 *Fox's clockwork rotating polariscope fitted with large Nicol and selenites*; the selenite fitting has independent movements and can be made to rotate or remain stationary
- 616 Zeiss microspectral objective after Engelmann
- 617 Swift's understage fitting, with rotating Nicol polariser and selenites, standard size
- 618 Oberhauser's camera lucida
- 619 Microscope, rack coarse adjustment, mechanical stage, by Ross
- 620 A large heliostat
- 621 Portable star microscope, two eyepieces and two objectives in case, by R. & J. Beck
- 622 Solar microscope with numerous fittings, by Dixey
- 623 Mounted dissecting lens with compound power, in case
- 624 Student's microscope by Plossel
- 625 *Presentation binocular*, rack adjustment for width of eyes, rack coarse adjustment, Wale's form of inclination for rack work, rotating mechanical stage, rack adjusting substage with centering screws, fitted with a pair of capped eyepieces, and analyser, by Swift
- 626 Portable microscope by Powell & Leland, rack adjusting centering substage, best quality achromatic substage condenser with diaphragm and stops, monocular and binocular bodies, polariscope and rotating analyser, five eyepieces, paraboloid, live boxes, lieberkuhns, etc., in fitted mahogany lock-up case
- 627 Powell & Leland's oil immersion condenser
- 628 Heliostat rack rotating, and two substage illuminators
- 629 Two blood-testing sets, and another instrument
- 630 An object holder with seven cells, and a revolving object-holder, by Ladd
- 631 An expensively made oleomargeriscope, fitted with Nicol prisms and eyepieces

620 Nothing special about this formed
part of Macintosh's Unimod Microscope

629 Useful lot & very cheap the another
instrument is use in dividing lines & with
mathematical instruments known as Lehrs lens
holder

631. During the prosecution for violation
of the Walter laws of the District of Columbia
U.S.A. it was found necessary to have a simple
form of instrument so that the Jury & others
interested could examine the substance in dispute
to this end Dr J. Taylor designed this
hand form of combined polariscop. microscope

613 A mounted prism on stand, and two stand condensers

614 An electric micro lamp on ball and socket foot, and a small stand condenser, and two other accessories.

615 A large Nicol and selenite, the selenite sitting on a stand, and the Nicol on a stand, and a small stand for the selenite.

616 Zeiss microspectral objective after Engelmann

617 Zeiss's understage fitting, with rotating Nicol prism and selenite, standard size

618 Zeiss's camera lucida

619 Zeiss's rack coarse adjustment, mechanical stage, on base

620 A large binocular

621 Zeiss's microscope, two eyepieces and two objectives in case, by R. & J. Beck

622 Zeiss's microscope with auxiliary fittings, by Zeiss

623 Zeiss's objective lens with compound power, by Zeiss

624 Zeiss's microscope by Flossel

625 Zeiss's binocular, rack adjustment for rotation for rack work, rotating

626 Zeiss's binocular, rack coarse adjustment, Wale's

627 Zeiss's binocular, rack coarse adjustment, Wale's

628 Zeiss's binocular, rack coarse adjustment, Wale's

629 Zeiss's binocular, rack coarse adjustment, Wale's

630 Zeiss's binocular, rack coarse adjustment, Wale's

631 Zeiss's binocular, rack coarse adjustment, Wale's

632 Zeiss's binocular, rack coarse adjustment, Wale's

633 Zeiss's binocular, rack coarse adjustment, Wale's

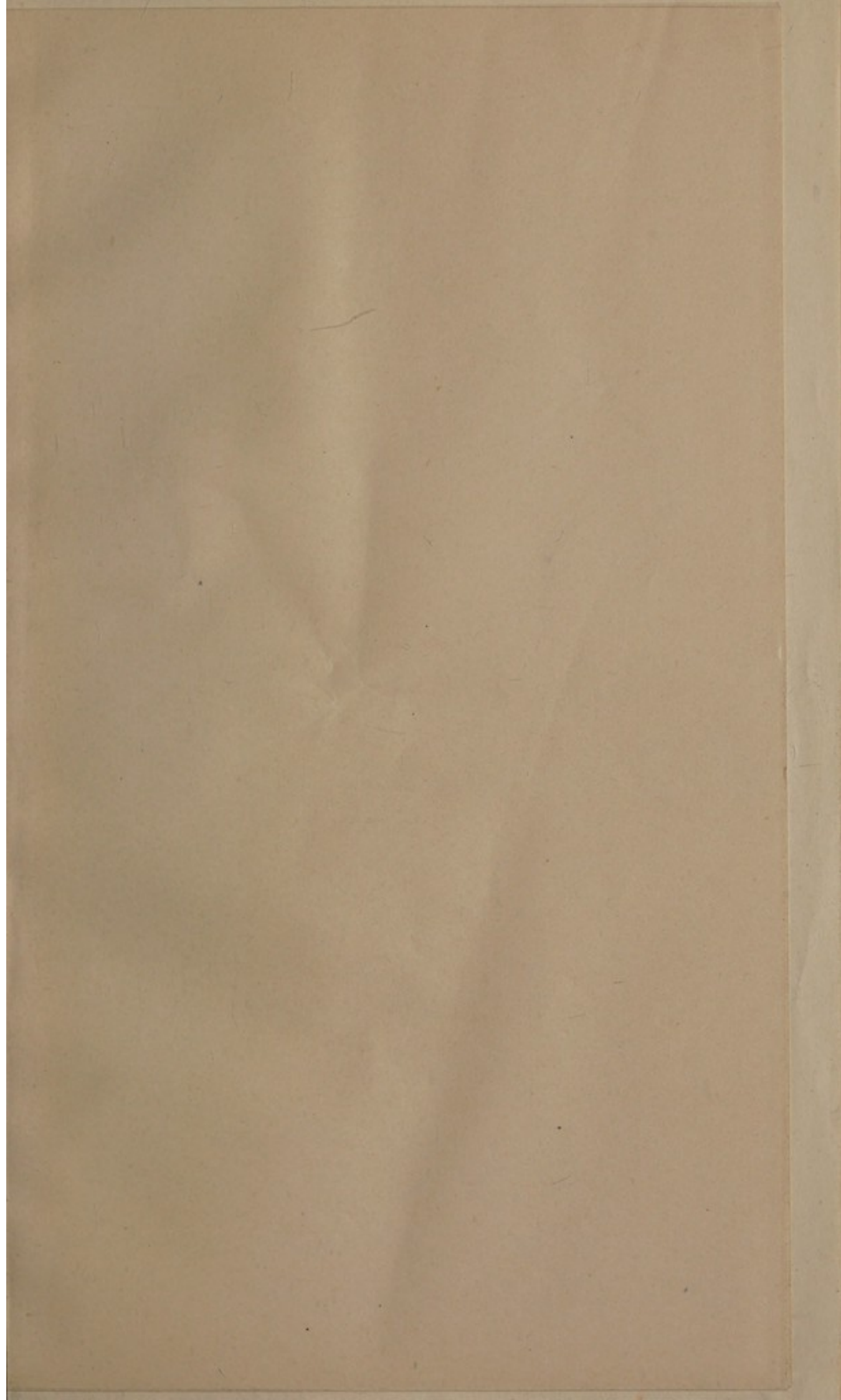
634 Zeiss's binocular, rack coarse adjustment, Wale's

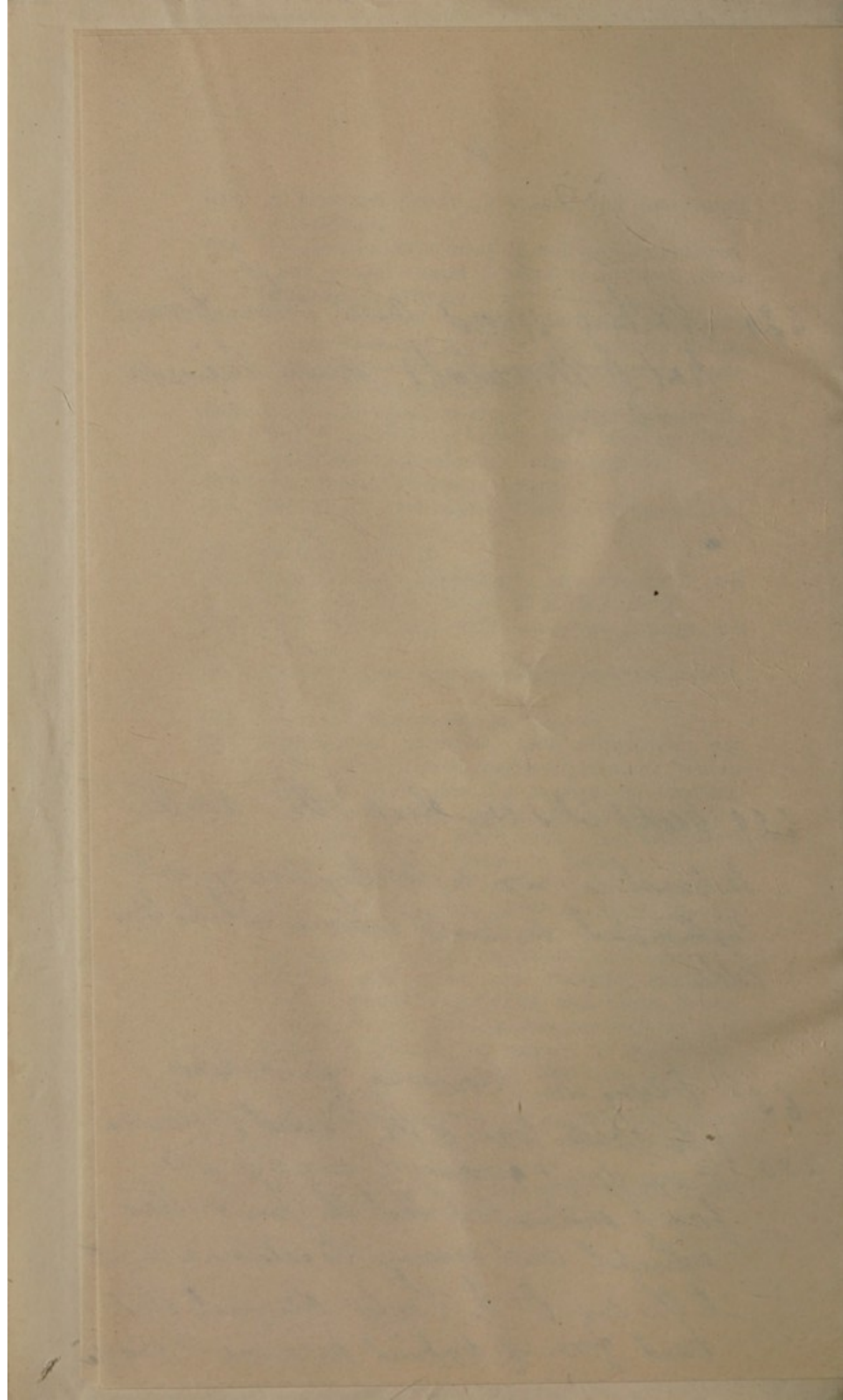
635 Zeiss's binocular, rack coarse adjustment, Wale's

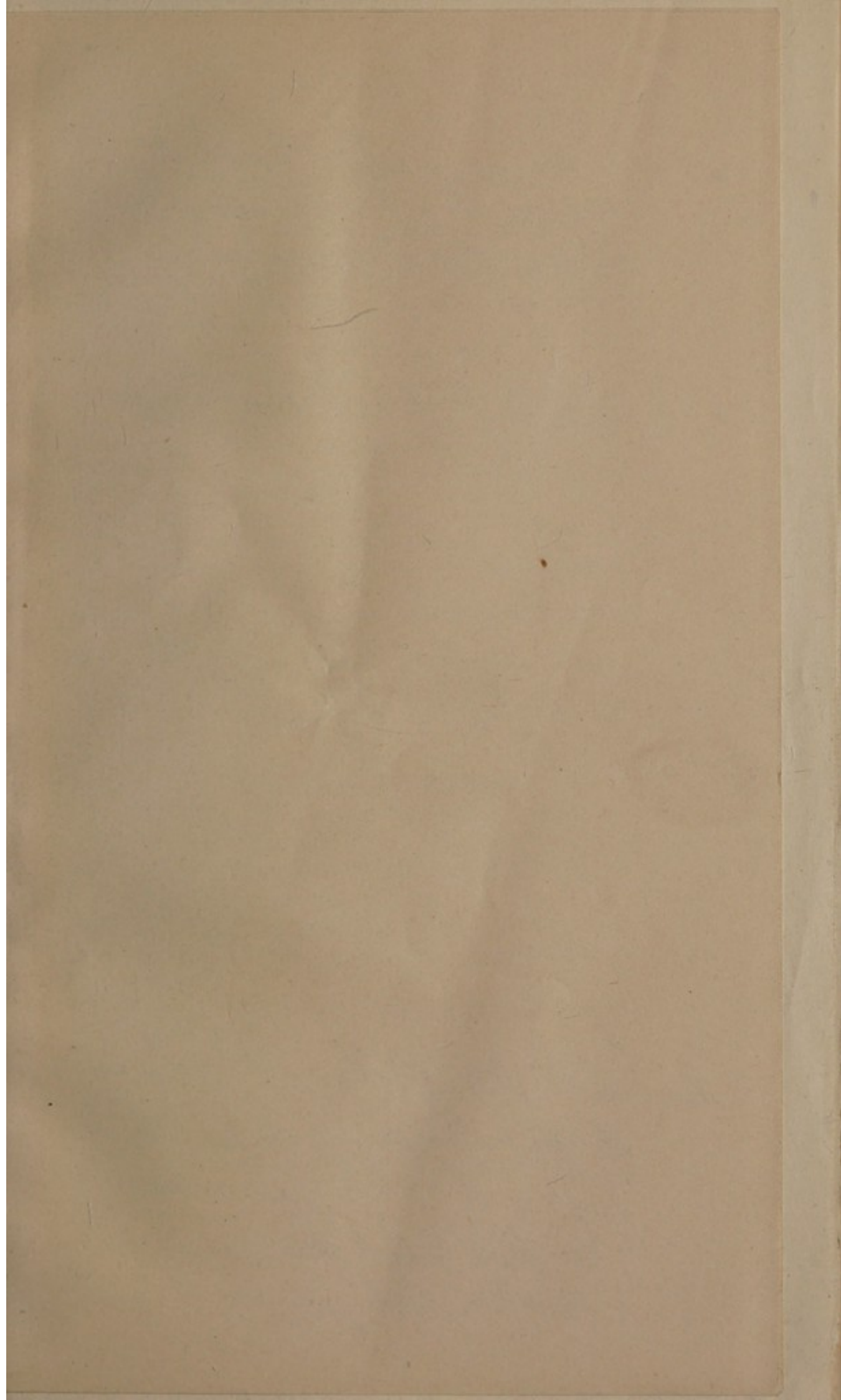
636 Zeiss's binocular, rack coarse adjustment, Wale's

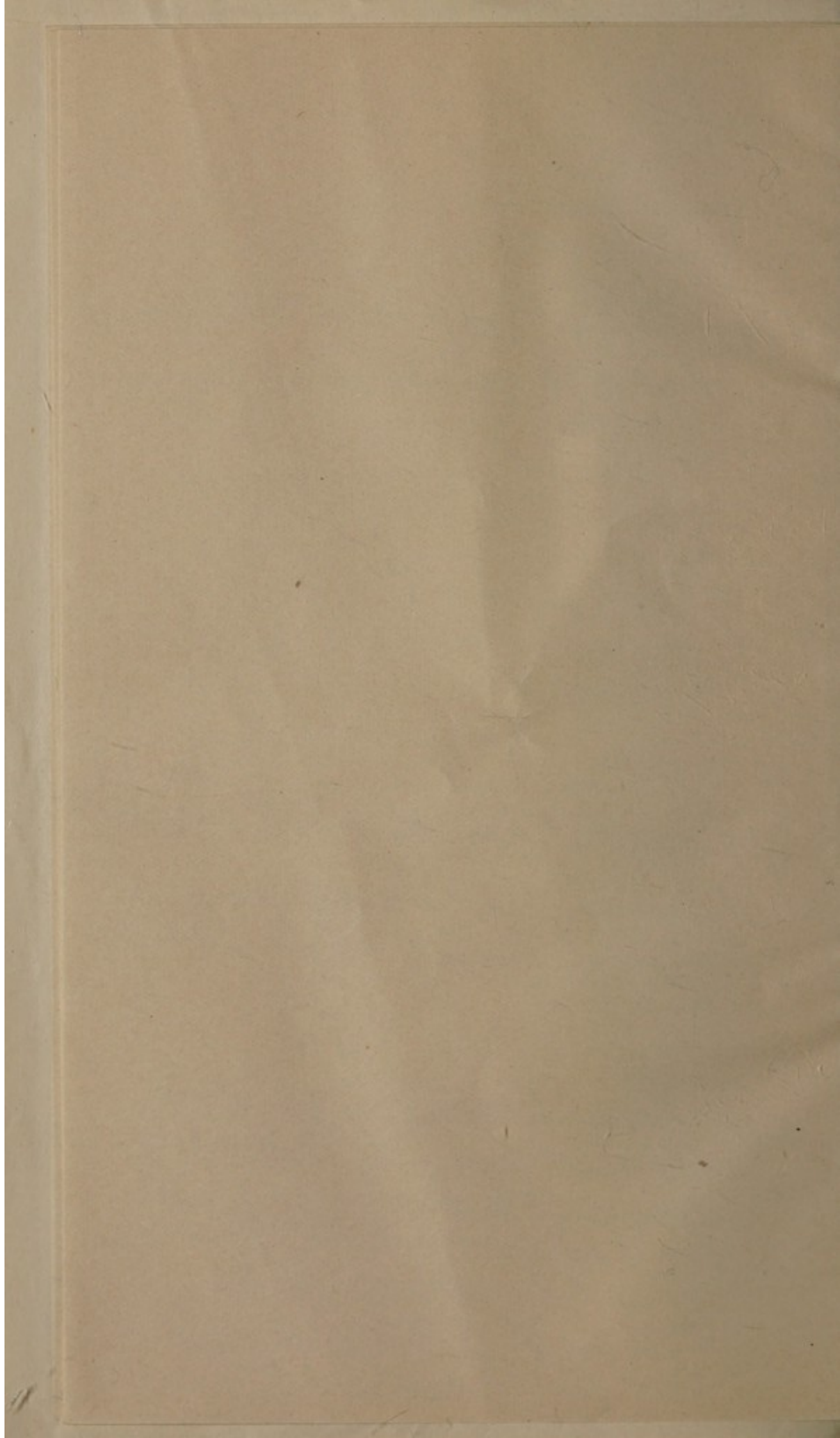
637 Zeiss's binocular, rack coarse adjustment, Wale's

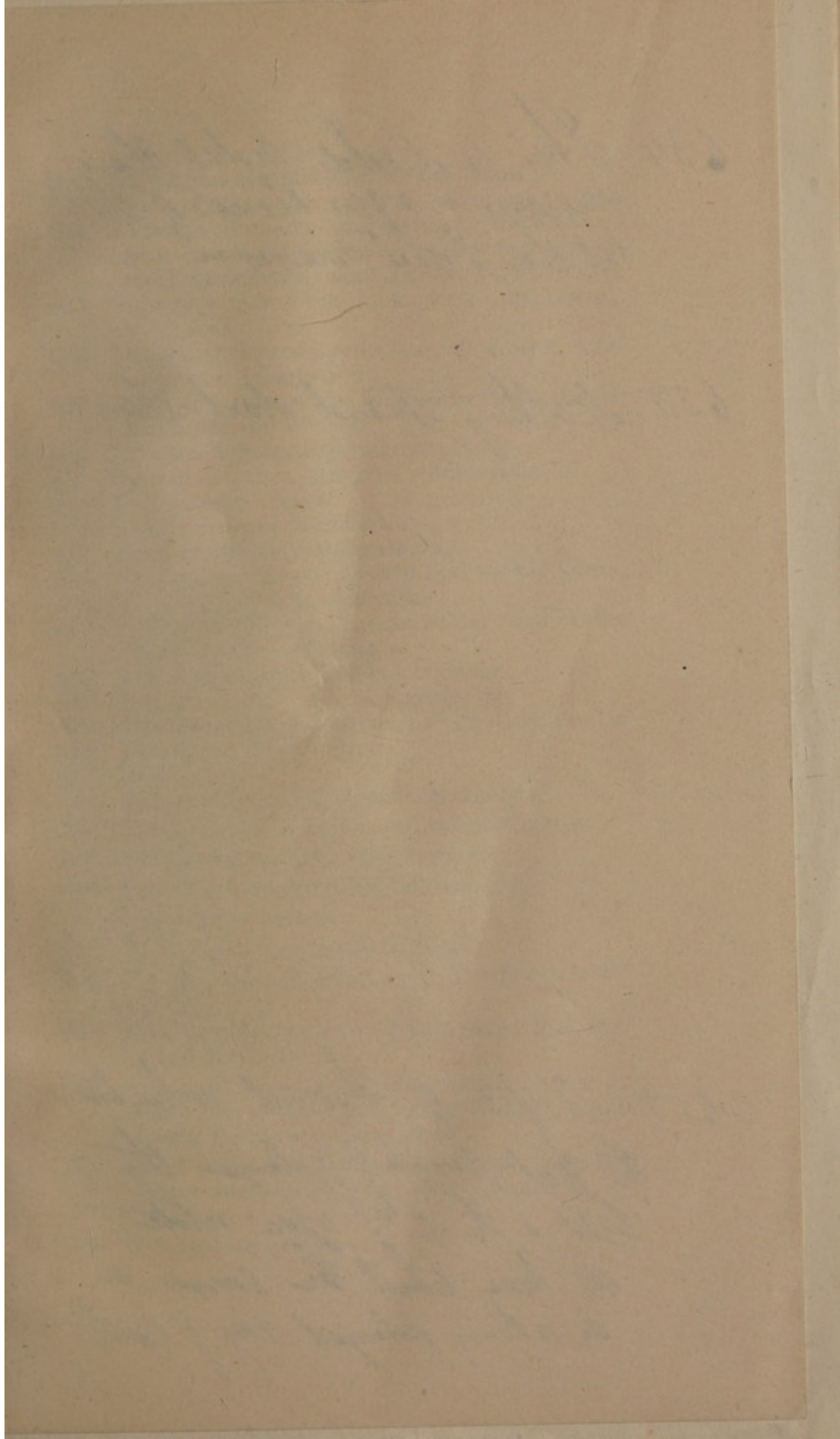
638 Zeiss's binocular, rack coarse adjustment, Wale's













- 632 Two various compressors and two boxes
 633 One various compressors and two boxes
 634 Expertly-made rack coarse adjustment, mechanical micrometer stage, by Rachel
 635 Student's microscope, rack coarse adjustment, by Rachel
 636 Investigating microscope in case by Powell, with
 637 Investigating microscope in case by Powell, with
 638 Investigating microscope in case by Powell, with
 639 Investigating microscope in case by Powell, with
 640 Investigating microscope in case by Powell, with
 641 Investigating microscope in case by Powell, with
 642 Investigating microscope in case by Powell, with
 643 Investigating microscope in case by Powell, with
 644 Investigating microscope in case by Powell, with
 645 Two dozen same axis-cut crystals -
 646 Two dozen same axis-cut crystals, etc.
 647 Two dozen same axis-cut crystals, etc.
 648 Two dozen same axis-cut crystals, etc.
 649 Two dozen same axis-cut crystals, etc.
 650 Two dozen same axis-cut crystals, etc.
 651 Forty-eight same mica and selenite plates
 652 Two dozen same mica and selenite plates, etc.
 653 Two dozen same mica and selenite plates, etc.
 654 Two dozen same mica and selenite plates, etc.
 655 Two dozen same mica and selenite plates, etc.
 656 Two dozen same mica and selenite plates, etc.
 657 Nine same mica and selenite plates, and four
 658 Nine same mica and selenite plates, and four
 659 Nine same mica and selenite plates, and four
 660 Nine same mica and selenite plates, and four

134

138

138

634 This is Naches highest class
Microscope & a fine example of the
best class French Microscopes

638 Nothing special about these

658 A pair of Fresnel's rhombs
the 1st. Circularly polarizes the
light & the 2nd again rotates
the beam which then emerges as
an ordinary polarized ray of light.

- 632 Six various compressors and live boxes
- 633 Photo micrographic camera, in mahogany case
- 634 Expensively-made micrometer microscope,
rack coarse adjustment, divided fine adjust-
ment, mechanical micrometer stage, by Nacet
- 635 Student's microscope, rack coarse adjustment,
by Plossel
- 636 Dissecting microscope in case by Powell, with
condenser, forceps, etc.
- 637 Dissecting microscope in case by Ross, and a
lens holder by Watson
- 638 Five small dissecting microscopes
- 639 Four hot stages, and two compressors
- 640 Five various stages
- 641 Two transverse illuminators
- 642 Four expensively-made stages
- 643 Silver side reflector on ball and socket joints,
and a silver lens condenser
- 644 A Bunsen burner, candle-holder and three
stand condenser fittings
- 645 Two dozen scarce axis-cut crystals
- 646 Two dozen ditto, topaz, apatite, etc.
- 647 Two dozen ditto, diopside, celestine and azurite
- 648 Two dozen ditto, various
- 649 Ditto, ditto
- 650 Two dozen quartz, axinite, glauberite
- 651 Thirty-eight fine micas and selenite plates
- 652 Two dozen emerald and topaz, etc.
- 653 Two dozen apophyllite, euklase, etc.
- 654 Three dozen various
- 655 One dozen fine selenite designs
- 656 Ten fine quartz plates, and five fine selenite
designs
- 657 Nine fine specimens of chilled glass, and four
other specimens
- 658 A pair of Fresnel's prisms mounted so as to
show the circular polarisation of light, and a
heater for glass in polariscope
- 659 Small polariscope with Nicol prism, and tour-
malin analyser in case, with specimens by
Ahrens
- 660 Ten various prisms

- 661 A case of twenty-one scarce absorption tubes in case, a plate of various coloured gelatines and other tubes
- 662 A dissecting microscope with two powers, in case, by Ross ; and mounted forceps, in case, by West
- 663 Johnson's patent surveying and measuring instrument for attachment to umbrella or walking stick
- 664 A number of odd powers for the microscope
- 665 A fine mounted selenite object, a polarising bundle (cracked), and a micro hand-viewer
- 666 A binocular microscope, the Ross Zentmayer, rotating mechanical stage, rotating centering substage (A.F.)
- 667 Abbé's telescopic microscope objective by Zeiss
- 668 Nachet's double-bodied microscope
- 669 Microscope with mechanical stage by Powell
- 670 Student's microscope, mechanical stage fitted with rotating polariscope
- 671 Microscope by Jung, no eyepiece, and another with eyepiece
- 672 An erecting dissecting microscope, no eyepiece
- 673 Hematospectroscope de Henocque by Lutz, Paris
- 674 Student's microscope with curious mechanical movement to the stage, by West
- 675 Petrological microscope with goniometer eyepiece, rotating goniometer stage, by Voigt & Co., of Gottingen
- 676 Air pump microscope
- 677 James' exhibition microscope
- 678 Student's microscope with centering stage, by Schiek
- 679 Dissecting lens with two powers, on stand, and a hot chamber
- 680 Two small stand condensers, and a diaphragm
- 681 Expensively-made binocular magnifier with rack adjustments, on stand
- 682 Binocular microscope, mechanical rotating stage, by R. & J. Beck
- 683 Microscope by Jaubert
- 684 Bacteriological microscope fitted with substage and swing-out Abbé condenser

61. They are useful to show the various kinds of absorption bands in various chemicals

62. Two small but very interesting dissecting stands very nicely made (& very cheap)

63. Fine early example of Schick's down microscope & very uncommon.

64. Nothing very special but not a common form

65. A rather unusual form of stage (& very cheap instrument the polariscope is worth 15/ to 20/ alone)

66. Uncommon form noteworthy for the large stage & curved base

67. The very curious long lever movements to the stage is unique I think Crisp thought a lot of this microscope

679. This is Dr. v. Weingarten's simple microscope for the examination of seeds the large lens has a magnifying power of $2\frac{1}{2}$ times the other is more powerful and also achromatic.

684. This is a recent form of photographic microscope invented by Dr. H. Viallanes its special feature is large field & it is claimed that by a system of successive exposure a clear definition is obtained throughout such field

The first part of the paper is devoted to a description of the apparatus used in the experiments.

The apparatus consists of a microscope with a camera lucida, and a stage with a glass plate on it.

The microscope is of the compound type, and has a magnifying power of about 1000 times.

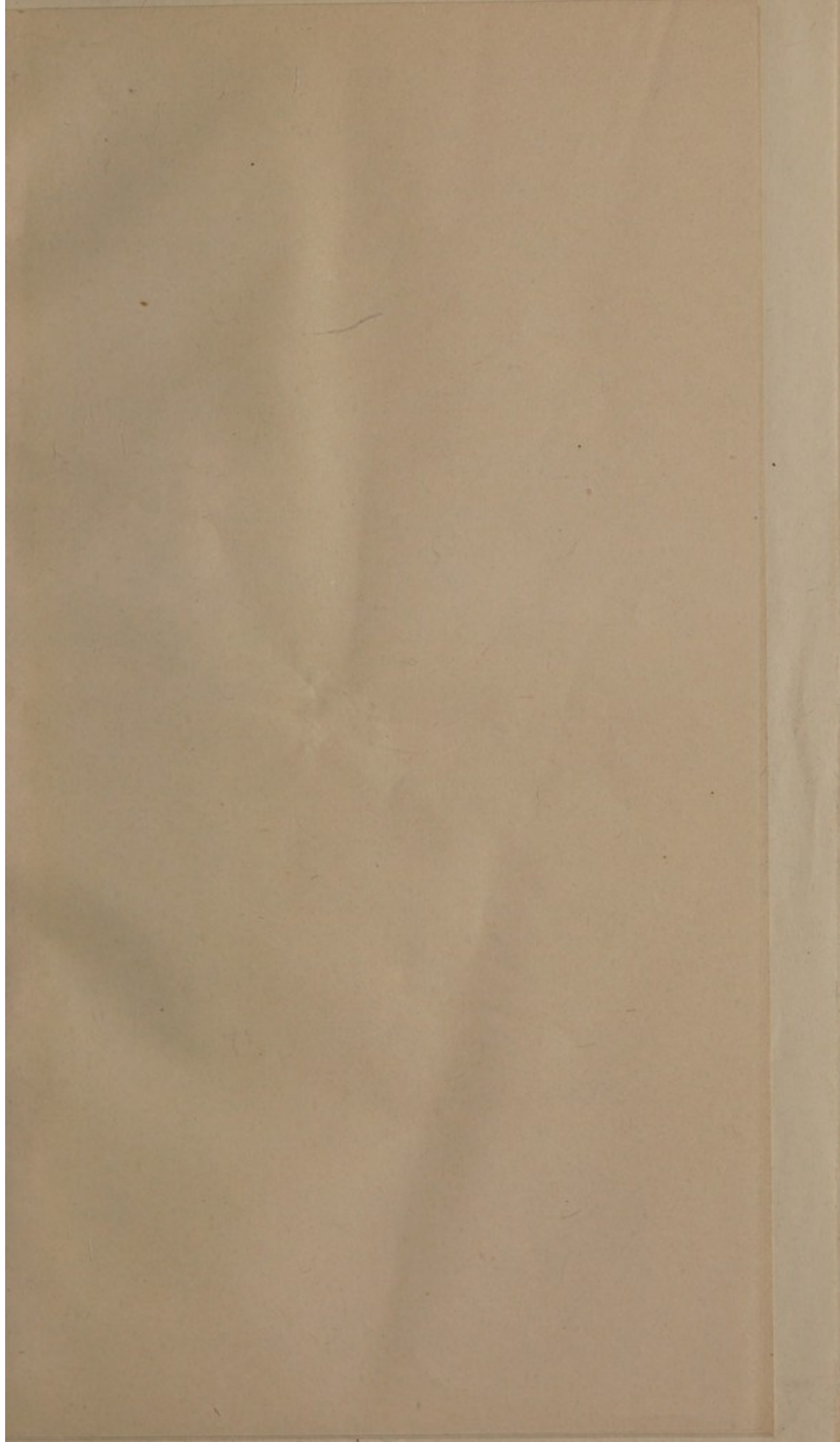
The camera lucida is of the ordinary type, and is used to project the image of the object on to a screen.

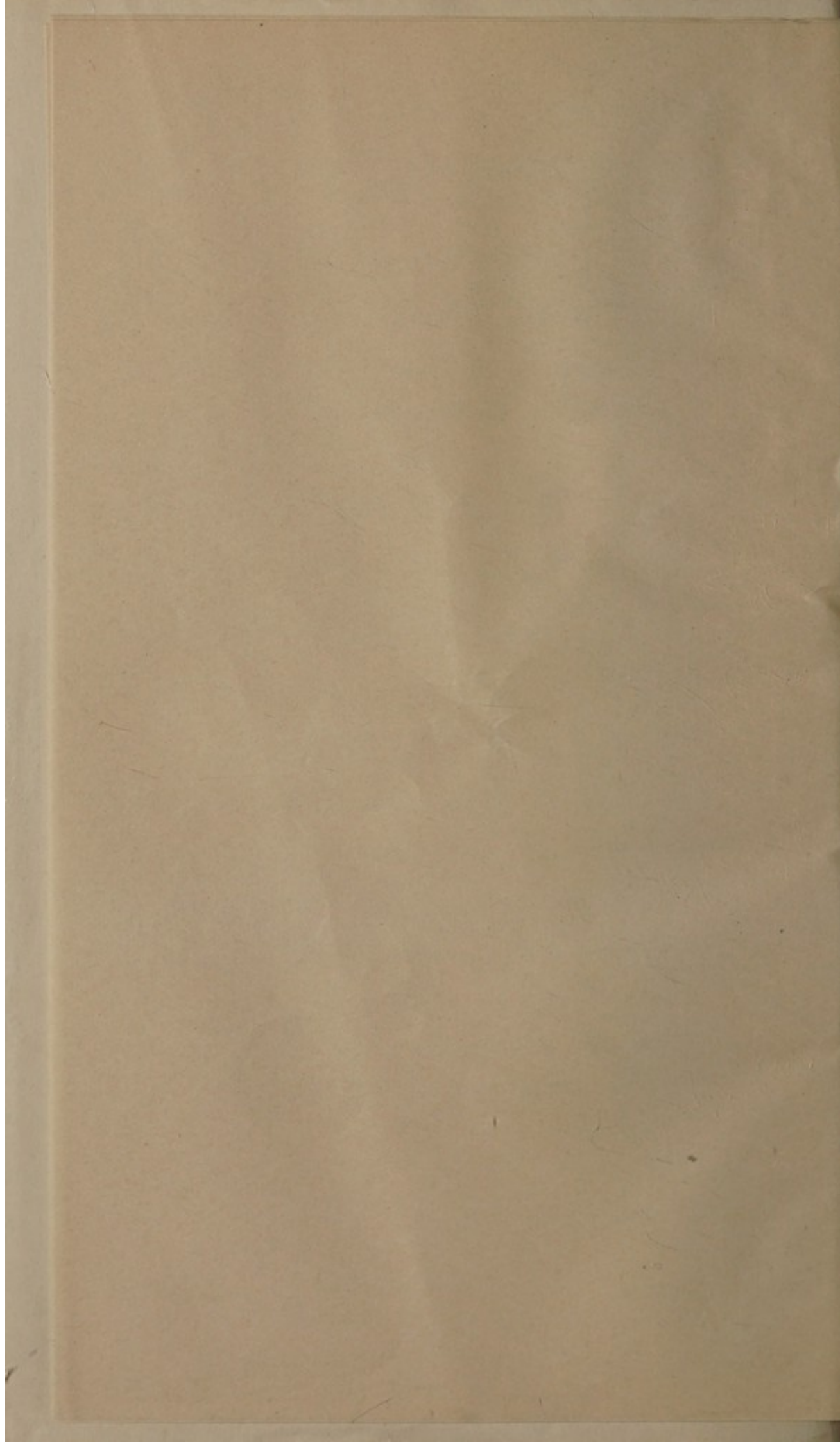
The stage is of the ordinary type, and is used to hold the glass plate on which the object is placed.

681 This is really a Stereoscope
& a very uncommon form.

682 A very nice example of R.
J. Beck's Lath's International
Microscope fills a gap in your
collection (& very cheap)

683 A very fine example of this
type of extraordinary microscope by
Leon Jaubert of Paris made about
1866. & no very scarce he took
out a patent for such forms &
also for a large number of so called
improvements in lenses &c it is
a standing example of misdirected
ingenuity & its multiplicity of movements
almost defies description. Its most
notable feature is that ^{the body} it can be
rotated right round the centre.





1870
 Microscope with large and small objectives
 it was found to be the best of the kind
 adjustable substage rotating stage
 rack movements

687 Martin's ball-jointed microscope for the
 examination of small objects
 688 Bacteriological microscope, rack coarse adjust-
 ment, adjustable substage by Bullock

1871
 Microscope by Bellini & Co. with
 adjustable substage

Microscope with large and small objectives
 it was found to be the best of the kind
 adjustable substage rotating stage
 rack movements

1872
 Microscope by Bellini & Co. with
 adjustable substage

Microscope with large and small objectives
 it was found to be the best of the kind
 adjustable substage rotating stage
 rack movements

1873
 Microscope by Bellini & Co. with
 adjustable substage

Microscope with large and small objectives
 it was found to be the best of the kind
 adjustable substage rotating stage
 rack movements

1874
 Microscope by Bellini & Co. with
 adjustable substage

686 This is a very interesting micrometer microscope with several novel features it was made to the order of a Russian Nobleman who never returned to claim it so that is vague

687 This microscope is the invention of A. Marten of Berlin who patented it. In a slightly different form it was originally made for the Author by Zeiss. it was constructed for the examination of large specimens of rocks &c.

701. This is a fine microscope by Ross & the special feature is the fine adjustment. designed by Dr. Hugo Schroeder this was a very effective form of fine adjustment but the difficulties of manufacture were so great that few were ever made & Mess. Ross soon after had to adopt a more simple form.

* Shown in International Exhibition 1885.

- 685 Student's microscope, rack coarse adjustment, adjustable substage rotating stage
- 686 Prasmowski's micrometer microscope, with rack movements
- 687 Martin's ball-jointed microscope for the examination of minerals
- 688 Bacteriological microscope, rack coarse adjustment, adjustable substage by Bullock
- 689 Microscope by Belthle & Co., and another by Chevalier
- 690 Binocular microscope by Ahrens (A.F.)
- 691 Microscope by Chevalier, and another
- 692 A microscope and an aquarium ditto, on stand
- 693 Two student's microscopes, by Merz
- 694 A binocular microscope, by Ahrens
- 695 Student's microscope, and another
- 696 Binocular microscope, by Nachet
- 697 Another binocular, by Nachet
- 698 Two double bodies (Harting's design) for the microscope, on stand, and a right-angled prism
- 699 Student's microscope, by Chevalier
- 700 Warrington's portable microscope
- 701 Expensively-made microscope by Ross with Schroder's fine adjustment, rack coarse adjustment, patent side fine adjustment, rotating mechanical stage and graduated rack adjusting substage with centering screws
- 702 Microscope by Chevalier
- 703 *Best quality petrological microscope, rack adjustment, micrometer fine adjustment, revolving goniometer stage, Nicol prism polariscope, and a goniometer analysing eyepiece fitted special square-cut Nicol*
- 704 *A unique and remarkable museum microscope, holding 500 separate objects: it consists of a brass drum 20in. long, into which is fitted six cylinders, each of which can be rotated independently; specially made by Messrs. Beck for the International Exhibition of 1872; originally cost £300*
- 705 A unique microscope ("The Jumbo"), being the largest and heaviest microscope ever made. This remarkable instrument is adapted for photography, and was made by Lowdon,

- optician, Edinburgh. Also the midget, being the smallest working microscope ever made, with rack coarse adjustment, fine adjustment and mechanical stage ; a few screws missing (A.F.)
- 706 Beautifully-made miniature microscope with fittings, under glass shade ; and another miniature microscope
- 707 A quadocular microscope, rack adjusting substage fitted with Abbé condenser
- 708 Reading microscope with rack coarse adjustment, fitted with eyepiece, and a bull's-eye stand condenser
- 709 Six fine microphotographs, including Sir David Brewster, and five others
- 710 The Royston-Piggott divided body tube, a body tube with rack adjustment, an erector, a binocular body with two eyepieces, and three revolving stages fitted with objects
- 711 Eight various camera lucidas
- 712 Five various stages
- 713 A frog plate and six compressors
- 714 Thin cover glass measurer, and a goniometer stage
- 715 Robert's pantographic eyepiece, and a micrometer eyepiece by Zeiss
- 716 Four electric stages and five slides, and a bichromate battery
- 717 Thirty-two micrographic slides in two cases, three ditto framed, and a fine transparent slide of pond life by Richter
- 718 Ten various eyepieces
- 719 Ten ditto
- 720 Ten ditto
- 721 Expensively-made micrometer stage, and a ditto by Klonne & Muller
- 722 Centering goniometer stage by Zeiss, and another stage
- 723 Mechanical stage with micrometer movements, by Reichert
- 724 Inostranzeff's comparator
- 725 Ahrens' camera lucida
- 726 Three expensively-made hot stages fitted with thermometers

404 This is a unique instrument no other having been made it was made for the 1862 (not 1872 as stated in the Catalogue) & very favorably reported on by the Jury.

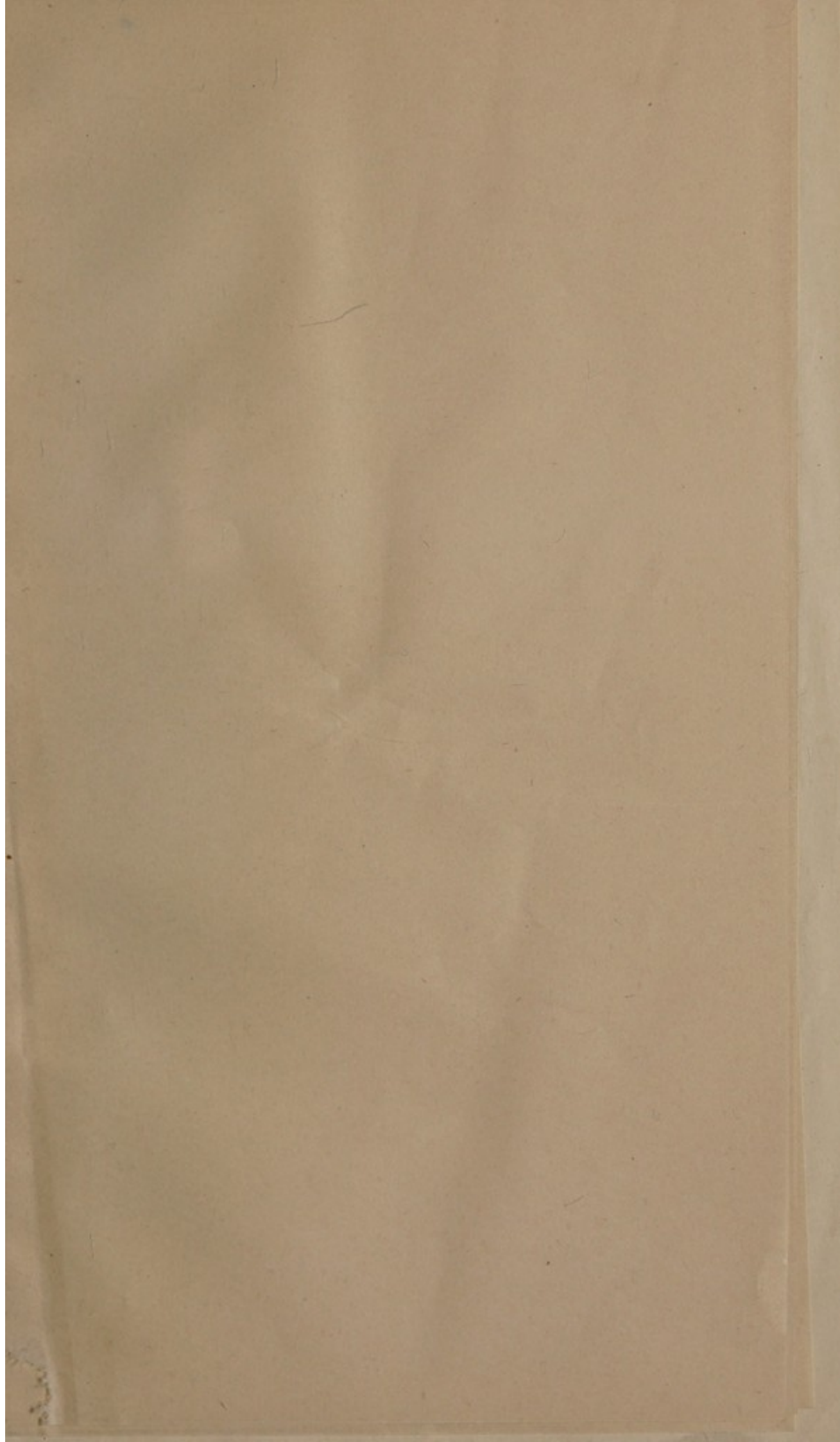
405 This is also a unique instrument it was made to the order of an ex Indian Officer. The Midget Microscope that accompanies it is also unique it is a perfect working microscope with such coarse adjustment cone fine adjustment mechanical stage & every part fitted to work the same as the larger Ross model after which it is made, (When possible this together with Jumbo should be shown in 1 Case)

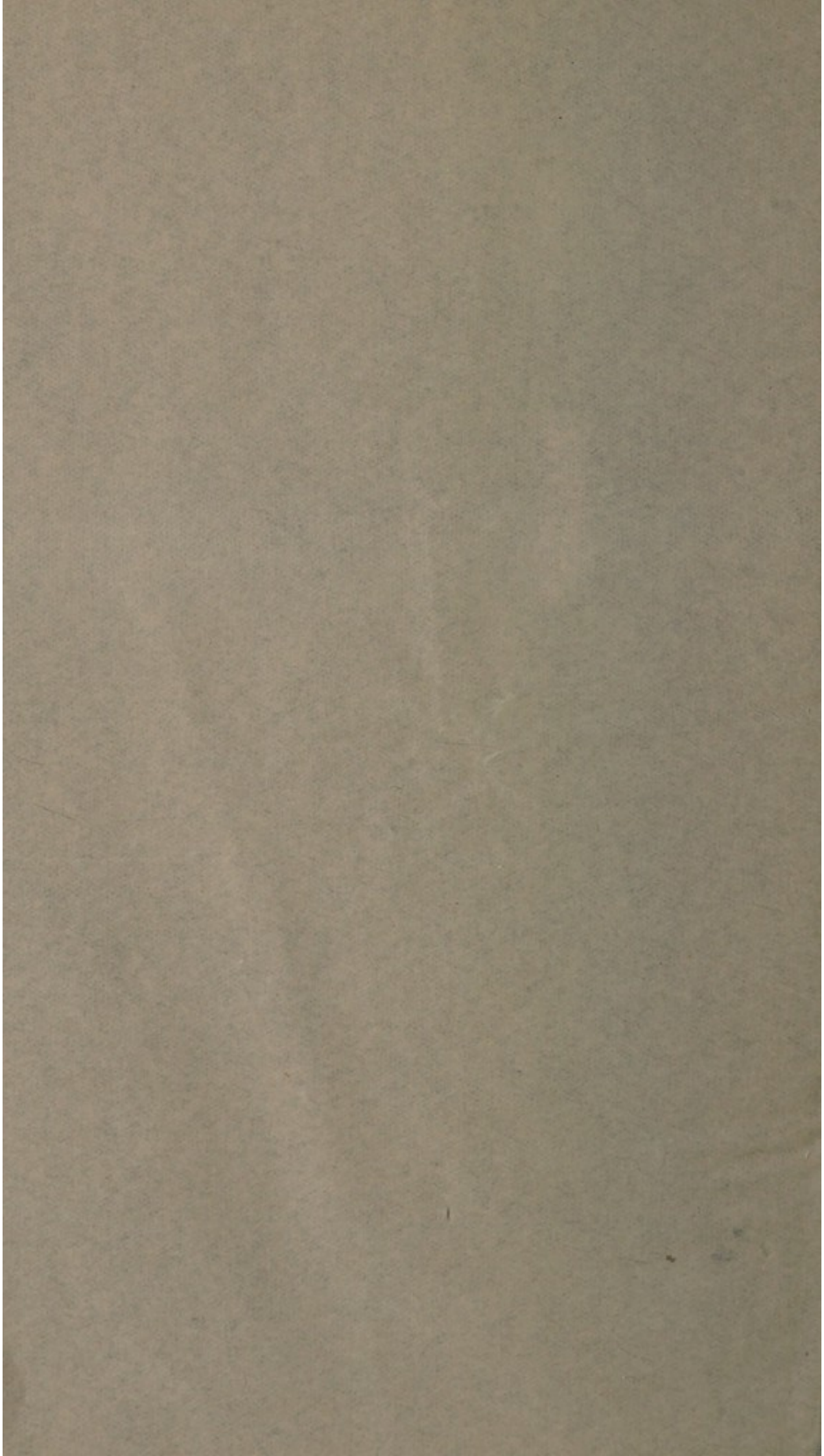
406 Two interesting models. the one not under the glass shade is the best - as it is an actual working microscope, the other only being a model.

107
The first of the
series is a single specimen of
the same form as the one
which is now in the
collection of the
British Museum.

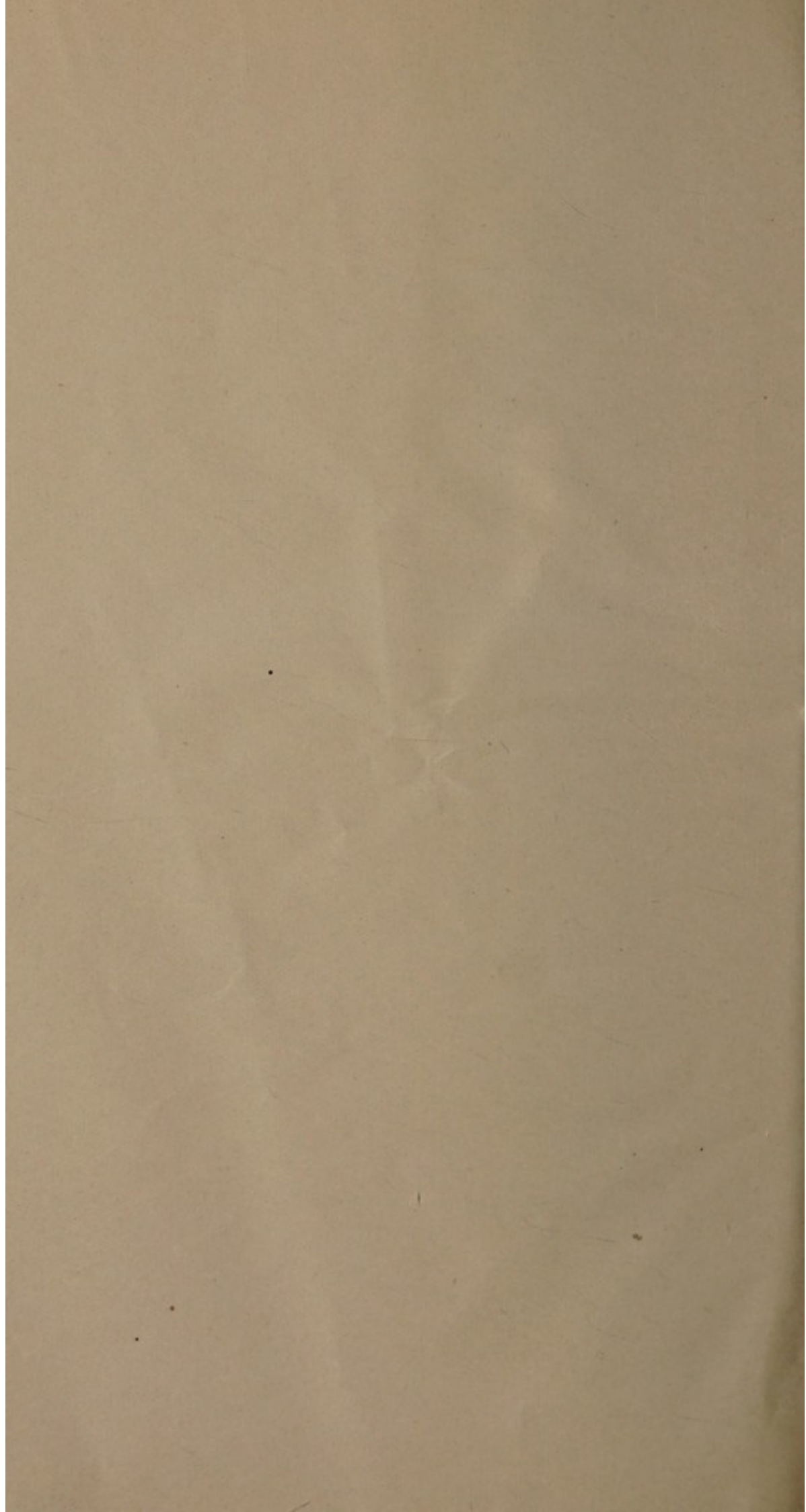
108
The second of the
series is a single specimen
of the same form as the one
which is now in the
collection of the
British Museum.

109
The third of the
series is a single specimen
of the same form as the one
which is now in the
collection of the
British Museum.









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731. Seven eyepieces
732. Camera lucida
733. High power spot lens, light modifier
734. Two eyepieces
735. Two dissecting microscopes
736. Portable microscope by Nartel and two
737. Two dissecting microscopes
738. Compound microscope with microscope fitted
739. Two stages and five other fittings
740. Four rail holder and five other fittings
741. Two thermometers, large zoophyte trough and
742. Two filter-chambers and seven other microscope
743. Twelve various under-stage fittings
744. Two finders, two cruetes, and five other fittings
745. Eleven various nose-piece fittings
746. Camera lucida and three other
747. Camera lucidas
748. Two stage illuminator and three other
749. Camera lucida and three other
750. Camera lucida and three other
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796. Camera lucida and three other
797. Camera lucida and three other
798. Camera lucida and three other
799. Camera lucida and three other
800. Camera lucida and three other

438 This is a very fine & beautifully
made Miniature Microscope & every
part works. It will be noted that
it has a first class mechanical stage
exactly like its parent model the original
large stand first made by Andrew
Ross about 1841.

- 727 Four hot stages, electric stage platinum points, and a rotating stage with twelve objects, by R. & J. Beck
- 728 Two Stephenson's safety stage and three others
- 729 A micrometer, 1/500in., ditto by Hartnack, Webbs' finder and another finder
- 730 Micrometer stage by J. W. Moller, a stage micrometer brass-mounted mica stage, and three brilliant selenites
- 731 Eleven various eyepieces
- 732 Ten ditto
- 733 Hofmann's camera lucida
- 734 Set of stops, high power spot lens, light modifier and five eyepieces
- 735 Two dissecting microscopes
- 736 Portable microscope by Nacet, and two others
- 737 Two dissecting microscopes
- 738 Beautifully-made miniature microscope fitted with mechanical stage
- 739 Two hot stages and five other fittings
- 740 Four vial holders, and five other fittings
- 741 Two thermometers, large zoophyte trough and sundries
- 742 Two lieberkuhns, and seven other microscope fittings
- 743 Twelve various under-stage fittings
- 744 Two finders, two erectors, and five other fittings
- 745 Eleven various nose-piece fittings
- 746 Dumaige's camera lucida and three others
- 747 Four camera lucidas
- 748 Prism stage illuminator, and crystal cap eyepiece fitted with a revolving tourmalin
- 749 Calliper on stand, and microscope fitted with eyepiece
- 750 A number of objective mountings, and lens tools, by Pritchard
- 751 A telescope and a small microscope, by Dollond
- 752 Two dissecting microscopes
- 753 Microscope by Fasoldt, rack coarse adjustment
- 754 Sector microscope by Grubb, rotating stage
- 755 Bacteriological microscope with patent fine adjustment, by Swift

- 756 Microscope, rack coarse adjustment, substage with centering screws, by Tolles
- 757 *Seven binocular bodies fitted with various systems of prisms : Barnard's Calcite, Hamilton Smith's System, Riddle's First Binocular, Ahrens' Spa Binocular, Ahrens' Improved Wenham, Ahrens' Erecting Monocular and Binocular, etc., mounted upon brass bases for exhibition purposes, and stand taking all the bodies for use*
- 758 Bacteriological microscope by Chevalier, rack coarse adjustment, and adjusting substage
- 759 Large microscope, rack adjustment, rude adjusting substage
- 760 A Challenge binocular microscope, rack coarse adjustment, adjustment for width of eyes, rotating stage, fitted with a pair of "A" eyepieces
- 761 Stephen's erecting binocular by Browning (body only), mounted on stand for exhibition
- 762 An erecting binocular (body only)
- 763 James' exhibition microscope
- 764 Petrological microscope, rack coarse adjustment, fitted with selenites and eyepiece; no polariscope or analyser
- 765 Student's microscope with bent body tubes
- 766 A $\frac{3}{8}$ -in. objective by Ross
- 767 A $\frac{1}{2}$ -in. objective by Ross, graduated correction collar with extra front for immersion
- 768 A $\frac{1}{8}$ -in. *immersion objective by Tolles; this is the celebrated $\frac{1}{8}$ in., around which part of the aperture question ranged*
- 769 A $\frac{1}{4}$ -in. Tolles' objective with cone front
- 770 Ditto, fitted with prism for illuminator
- 771 A 4-in. amplifier by Gunlack, and a $\frac{1}{8}$ -in. by Bausch & Lomb
- 772 *An expensively-made goniometer microscope, graduated fine adjustment, divided on silver, and micrometer reading by vernier, and divided on silver*
- 773 Microscope by Ross on ball and socket joint
- 774 Ditto, 1837 model
- 775 A kaleidoscope on stand by Horn & Thornthwaite, London

454 These 4 binocular bodies were all
made specially for Sir Frank Crisp
by Ahrens the celebrated prism maker
(he made all the large prisms for
Spottiswood & the well known scientific)
& in this set are comprised all the
leading types of Binocular Microscopes
several of them are the only ones made
(except the originals) Prof Barnard's Celeste,
Hamilton Smith's form & Riddell's 1st.
binocular are amongst the recent.

462 Interesting & quite useful if it was
mounted on a stand with mirror

445 This is a very rare form of polarizing
kaleidoscope.

Duckett (sic)

446 This is the original medal it was
submitted to Mrs M. Duckett there was a
letter with it from her saying that it was a
very good likeness (Crisp took it up & threw
it in the fire place I asked him for it & he
gave it to me & I stuck it together & still
have it) You will notice that the name is spelled
wrong.

750. Microscope rack coarse adjustment, substage with rotating stage.

751. Small binocular body with eyepieces, objective, and stage.

752. System, Kiddle's binocular, 1/2 in. objective, 1/2 in. eyepieces.

753. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

754. Large microscope rack coarse adjustment, substage with rotating stage.

755. Large microscope rack coarse adjustment, substage with rotating stage.

756. Challenge binocular microscope, 1/2 in. objective, 1/2 in. eyepieces.

757. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

758. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

759. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

760. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

761. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

762. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

763. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

764. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

765. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

766. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

767. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

768. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

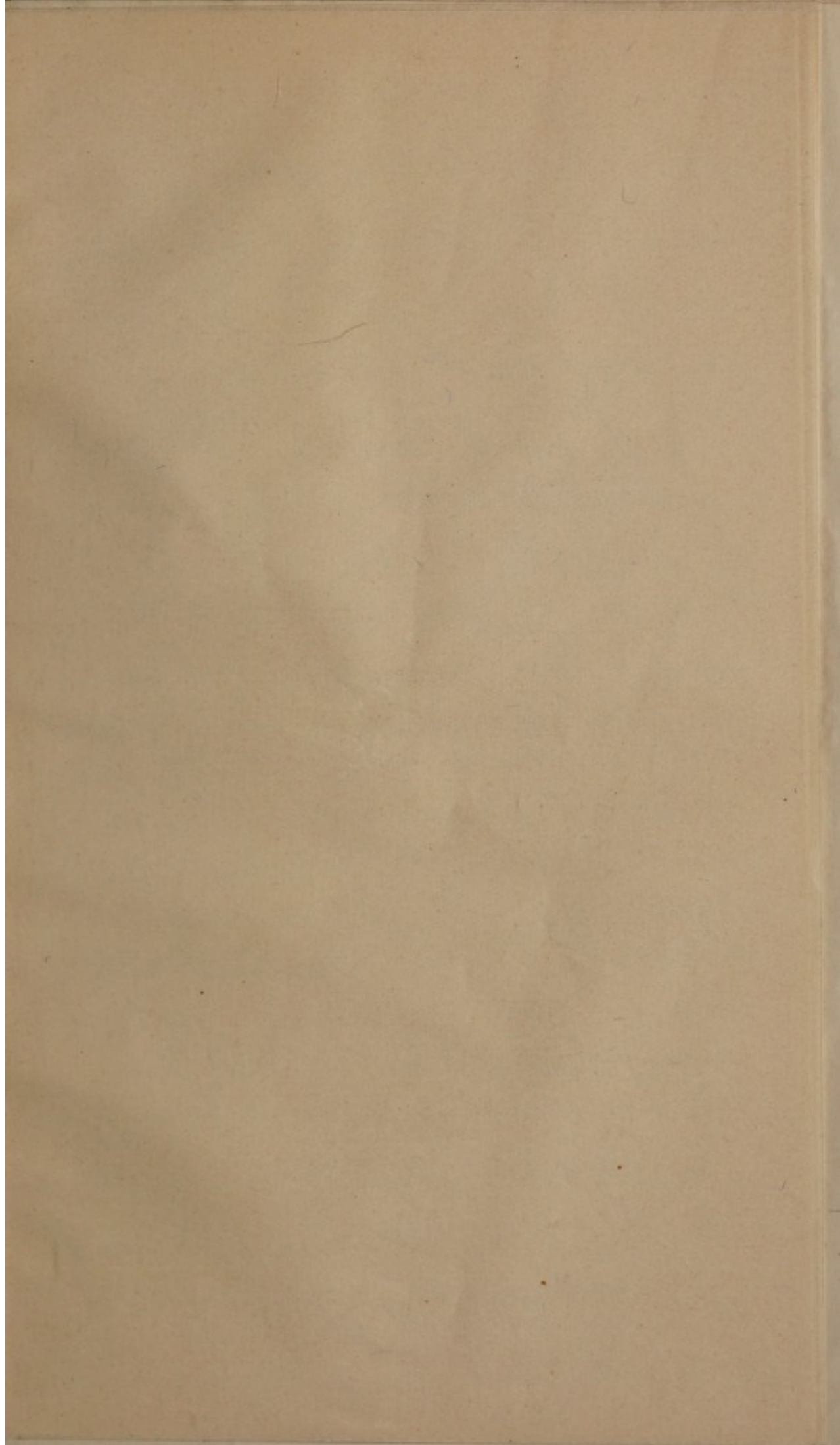
769. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

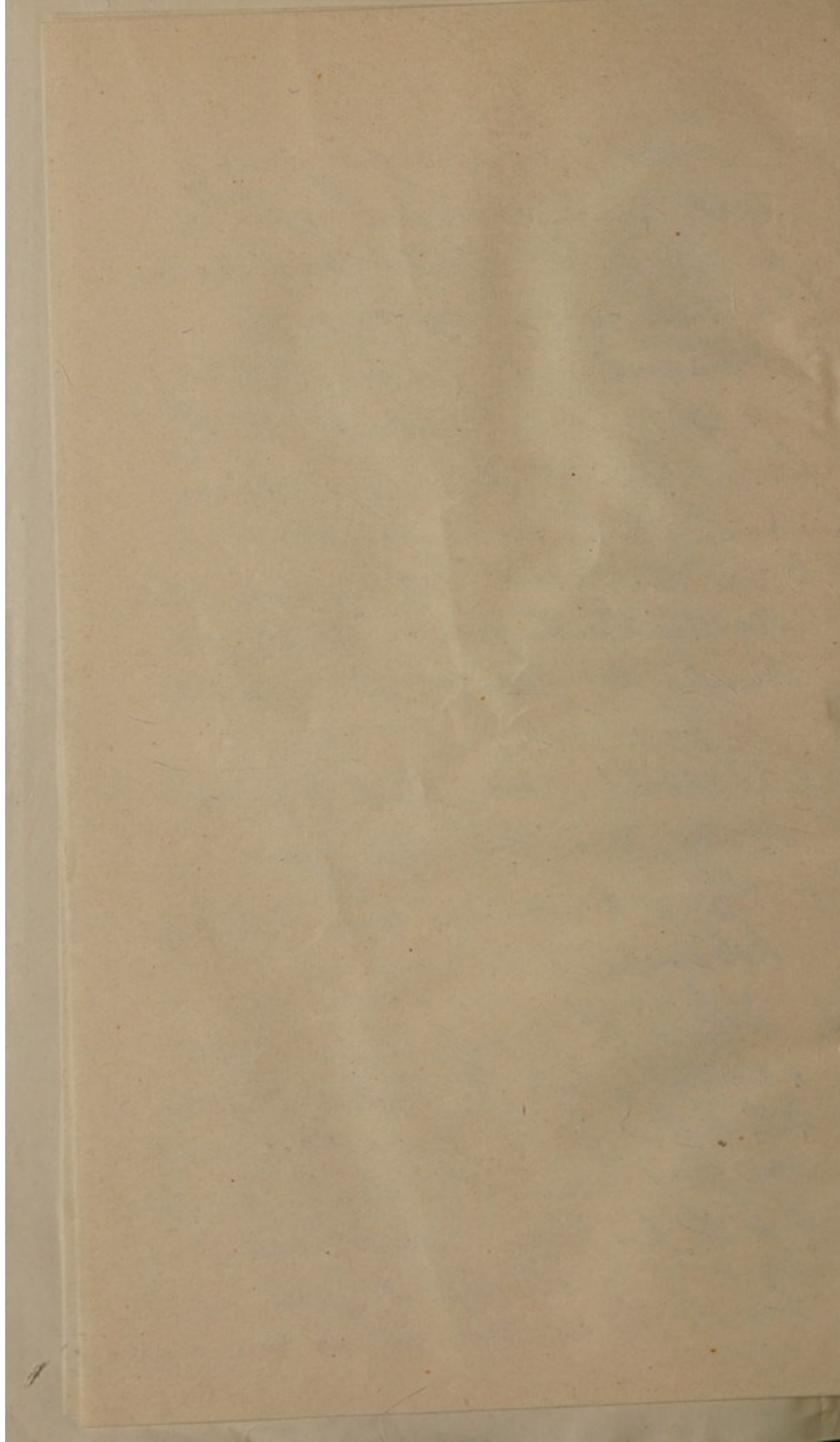
770. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

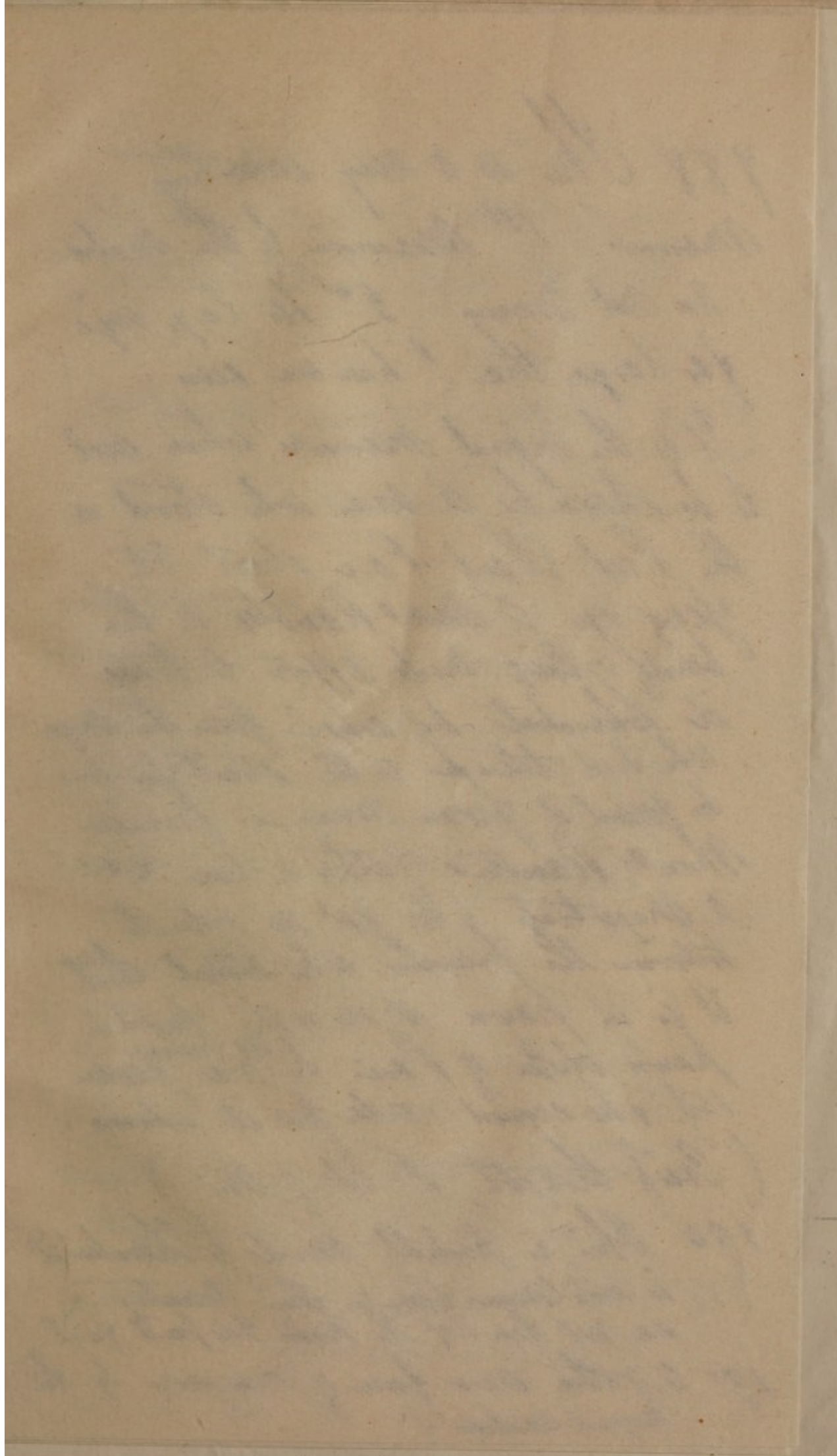
771. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

772. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.

773. Binocular, 1/2 in. objective, 1/2 in. eyepieces, 1/2 in. stage.









188 The is a very interesting
Memorandum by the Hon. Secy
of the Navy, dated 20th Sept 1881
for the purpose of showing the
progress of the work done in
the Department of the Navy
during the year 1881. It is
a very interesting and valuable
document, and one which every
one interested in the Navy
should read. It gives a full
and complete account of the
work done in the Department
of the Navy during the year
1881, and shows the progress
of the work in every branch
of the service. It is a very
interesting and valuable document,
and one which every one
interested in the Navy should
read.

488 This is a very interesting
Microscope 1st Microscope by the maker
are not common 2nd Its large size
is larger than I have ever seen.

It is the original microscope which used
to be shown by a man who stood on
the Pont Neuf Paris about 80
years ago. A Mon^r Rambler on the
behalf of Crisp made effort to trace
it to the street by asking from the men
who had telegraph in the street for him
he found it from a man in prison
Mon^r Rambler's father in law was
a Magistrate & he got an order to
interview the prisoner who stated that
it is in pawn at one of the public
pawn shops of Paris he was given
15^{fr} & he signed order for its release.

(Crisp thought a lot of this)

190 This is probably made by Chevalier it
is not a common form in this country &
we not deal at the price you paid for it.

191 A rather scarce form of microscope by the
original maker.

478 A New Series of Plates

Mounting Slides & Microscopic

778 Inverted microscope by Zeiss

779 Rapidly-made inverted microscope

479 A New & Improved Model of

Mounting Slides & Microscopic

480 A New & Improved Model of

Mounting Slides & Microscopic

Mounting Slides & Microscopic

Mounting Slides & Microscopic

Mounting Slides & Microscopic

481 A New & Improved Model of

Mounting Slides & Microscopic

Mounting Slides & Microscopic

Mounting Slides & Microscopic

Mounting Slides & Microscopic

482 A New & Improved Model of

Mounting Slides & Microscopic

Mounting Slides & Microscopic

448 A nice example of Plossel's
Inverted Chemical Microscope the only
one by the maker in the collection.

449 A fine & expensive Model of
Nachet's photographic Microscope

481 This is Jung's Embrograph it
was designed by Proff Koch it
gives various magnification from
about 8 to 30 diameters with the
objective & eyepiece supplied. (it is one
of the cheapest things you get in this sale.)

482 This very rare form of binocular
was made by Sam^l Holmes about 1870
it cost Crisp £15 it was sold at
Strom about 1885. Crisp got sent
to take for it & the party who bought
it made Crisp pay £15 for it

486 This is a very interesting & rare
form of fine adjustment

~ Please turn back for other lots over leaf.)

- 776 Quecket bronze medal, kaleidoscope and small lantern
- 777 Student's microscope by Nachet, with complete rotation on the foot
- 778 Inverted microscope by Plossel
- 779 Expensively-made inverted microscope, with mechanical stage, rack coarse adjustment, by Nachet
- 780 Expensively-made photographic microscope with two bodies, by Nachet
- 781 A microscope fitted with camera lucida
- 782 A binocular microscope (divided), by Holmes
- 783 A binocular microscope by Holmes (divided)
- 784 A binocular microscope by Holmes
- 785 Goltzch binocular microscope
- 786 Student's microscope by Gray
- 787 Expensively-made microscope by Jaubert, no eyepieces
- 788 Large drum microscope by Sectreian
- 789 Antique student's microscope
- 790 French solar microscope
- 791 Antique chest microscope by Nairne & Blunt
- 792 An 18-carat gold-mounted rhinoceros horn pointer
- 793 Micrometer microscope in case, by Dollond
- 794 Student's microscope by Oberhauser
- 795 Two microscopes by Carey
- 796 Dissecting microscope by West, and another
- 797 Two dissecting microscopes
- 798 Portable microscope in case, and a hand magnifier in case
- 799 Antique projection microscope complete with reflector and slides, in case
- 800 Dissecting microscope by Banks, and ditto by Dixie
- 801 Large projection microscope by Watkins & Hill
- 802 Microscope lamp fitted with large bull's-eye condenser, in case
- 803 Lucernal microscope, and a tripod stand

LANTERNS, SLIDES, &c.

- 801A *Life model photo slides* : Tony Tompkins, 12 ; Nervous Man, 4 ; Dick and his Donkey, 15 ; Cabin Boy's Bible, 5 ; Catterina, 9 ; Sweep and Whitewasher, 8 (48 in all)

- 802A History of a Butterfly and floral subjects, 46 ;
White City, 5 ; Cinderella, 9 ; Hymns, 6 ;
Soldier's Dream, 2 ; Portraits, 2 (61 in all)
- 803A Rather Warm, 32 ; King Alfred, 9 ; Various
Views, 24 (66 in all)
- 804 Box containing about 80 cinema mottoes and
announcements, plain and coloured
- 805 Tabby and Paint Pot, 10 (and 3 coloured) ;
Roger Plowman, 12 ; Tony Tompkins, 12 ;
Pair of Stilts, 6 ; Mechanics, 10 ; Pussy's
Road to Ruin, 10 ; Gates of Heaven, 5 (55 in
all)
- 806 Precocious Pigs (12) ; Rival's Revenge (10) ;
Cock Robin, 7 ; Algiers, 16 ; Views, 4 (50 in all)
- 807 *Hand-coloured photo slides* : The Fool's Pence,
14 ; Young Ellerly, 3 ; Dreadful Effects of
Drink, 6 ; Kitten's Lessons, 4 ; Smiting the
Rock, 3 ; Exchange of Pigs, 3 ; Angel's Christ-
mas, 10 ; Poor Mike, 6 (49 in all)
- 808 Narrative of a Narrow Escape, 31 ; Enchanted
Flirt, 11 ; Ballad Singer, 6 (48 in all)
- 809 Lantern Puns, 22 ; Sweep and Whitewasher,
7 ; Froggy's Little Brother, 10 ; Abstainer and
Drinker, 9 ; Floral, 5 (46 in all)
- 810 Somebody's Mother, 5 ; Temperance Enter-
tainment, 23 ; Vulgar Little Boy, 10 ; Cali-
fornian Nugget, 4 ; Paddy, 2 (44 in all)
- 811 The Lost Purse, 21 ; The Chimes, 19 ; Mother's
Last Word, 10 (50 in all)
- 812 Sing a Song of Saturday, 9 ; Hope on, 16 ;
Evolution, 5 ; Angel of the Tenement, 6 ;
Photographer's Perplexities, 6
- 813 Free Trade or Tariff Reform, 55

MISCELLANIES.

- 814 Two model steam engines
- 815 Large mechanical train
- 816 Three various steam engines
- 817 Two cinematographs
- 818 Three ditto various
- 819 A $\frac{1}{4}$ -plate folding camera with rapid rectilinear
lenses, working at F/8, iris diaphragm,
various speeds, 2 slides and release
- 820 A $3\frac{1}{2}$ by $2\frac{1}{2}$ ditto, ditto

- 821 An electric railway complete, in perfect order
- 822 100 guaranteed metal filament bulbs
- 823 Eight volt and amp. meters (Dead Beat)
- 824 Three various motors
- 825 Twenty-four Sheffield safety razors with Gillette
pattern blades
- 826 100 various full-size coloured lantern slides
- 827 Twelve $\frac{1}{4}$ -plate metal dark slides for Klito
camera
- 828 Twelve $3\frac{1}{2}$ by $2\frac{1}{2}$ ditto
- 829 A $\frac{1}{4}$ -plate Ernemann camera with one slide
- 830 Four strong expensive wood lockers with patent
fastenings
- 831 Four various steam engines
- 832 Two larger ditto
- 833 An aluminium stereoscope, and 2 dozen slides
for same
- 834 A set model rails

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, JANUARY 25th :—

Curiosities, China, Arms and Armour, etc.

FRIDAY, JANUARY 28th :—

Lathes and Tools, by Holtzapffel.

Photographic Apparatus and Miscellanies.

1825
Photography multiplicity
+ 3.16

STEVENS' AUCTION ROOMS.

ESTABLISHED 1760.

Important to Trustees, Executors and others.

Mr. J. C. STEVENS begs to call attention
to the Sales regularly held at his Rooms.

SCIENTIFIC, ELECTRICAL AND
PHOTOGRAPHIC APPARATUS
AND MISCELLANIES.

EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

• CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

NATURAL HISTORY SPECIMENS.

MONTHLY Sales of Collections relating to
Entomology, Ornithology, Conchology, Minerals,
Heads and Horns, Cabinets, etc.

BOOKS.

Frequent Sales of Libraries relating to Natural
History and kindred subjects.

Sales undertaken in Town and Country.
Valuations for Probate and other purposes.
Collections catalogued and arranged for sale.

Telegrams:—"Auks, Rand, London."

Telephone:—Gerrard 1824.

Auction Rooms and Offices:

38 KING STREET, COVENT GARDEN, LONDON, W.C. 2.

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Nov. 12th 1920

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Phone : Gerrard 1824.

Sale No. 13,221.

Sale to commence at **12.30** o'clock.

FRIDAY, NOVEMBER 12th, 1920.

A CATALOGUE OF

**Scientific and
Photographic Apparatus**

INCLUDING

The Second Portion of the Celebrated Collection of
MICROSCOPES and ACCESSORIES,

formed by the late Sir Frank Crisp, Bart. ;

Valuable Cameras and Lenses,
by first-rate makers ;

ALSO

MISCELLANIES.

MR. J. C. STEVENS

WILL SELL BY AUCTION AT HIS ROOMS,

No. 38, King Street, Covent Garden, W.C. 2,

On **FRIDAY, NOVEMBER 12th, 1920,**

At **12.30** o'clock.

On view the day prior from 12.30 till 5.30 o'clock, and Morning of Sale from 9.30 till 12, and Catalogues had of Mr. J. C. STEVENS, 38 King Street, Covent Garden, W.C. 2.

Telegraphic Address : AUKS, RAND, LONDON.

Established 1760.

RIDDLE, SMITH & DUFFUS, Windsor House, Kingsway, W.C. 2, and Forest Hill, S.E. 23.

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.

** * Pictures offered for sale are attributed to the artists named, but no guarantee as to their genuineness is given or implied.*

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.

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AUKS, RAND.

BUYER

*Court-
Stevens (Cont) 3*

Date

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AUCTIONEERS

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387	1	10	0				
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Com. 5%

BUYER

AUCTIONEER

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BUYER

Court.

Date

12/1

AUCTIONEERS

Stevens

Lot	Amount			Lot	Am
	£	s.	d.		
244	8	0	0	B/7a	£ 48
248	4	0	0		3
266	3	0	0	308	1
268	7	0	0	309	2
270	3	15	0	310	3
272	2	10	0	311	5
273	-	18	1	321	15
278	2	0	0	328	1
284	6	6	0	329	3
288	1	10	0	330	2
296	3	0	0	334	3
298	1	17	6	337	4
301	1	10	0	340	1
304	1	0	0	341	3
306	1	10	0	345	3
307	-	12	1	346	2
C/7a	£ 48	8	6	354	1
Sty. Mu. 3				356	1
				361	1
					£ 103

Friday, November 12th, 1920.

ON VIEW:

Thursday, 12.30 to 5.30 p.m.

Friday, 9.30 a.m. to 12 noon.

Lot

- 1 Handsome papier-mâché writing box,
inlaid with pearl
- 2 Pair of handsome bronze vases with figures
on marble stands, with liners
- 3 *An 18-carat gold chronometer watch*, by
Sharp, Dublin, in case ; in going order
and regulated
- 4 Mark V. aircraft watch, highest grade,
detached lever, 15-jewel movement,
Breguet spring, non-magnetic compen-
sated balance, 3 positions synchronised,
with dashboard holder or for pocket ;
guaranteed perfect
- 5 Ditto, less holder
- 6 An 8-day fully luminous Mark IV. A.,
ditto, same specification
- 7 An 8-day non-luminous ditto
- 8 Coney seal coat, as new
- 9 Ditto

- 10 Coney seal coat with skunk opossum collar
- 11 Six gramophone motors, complete with turntable and winding key
- 14 Hornless gramophone with lid and doors, in perfect condition
- 15 Inlaid cabinet gramophone, 3ft. 6in. high, double spring motor, with record cupboard (A.F.)
- 16 Twelve double-sided 10-in. records—Columbia, Beka, Regal, Scala, etc.
- 17 Twelve 12-in. in album, H.M.V., Columbia, Celebrity, etc., condition as new
- 18 Twenty-four 10-in. Columbia, Regal, etc., fine selection bands and songs, new condition
- 19 Microscope, rack and fine adjustment, 2 powers, in case
- 20 Plated tray and 2 ditto boxes
- 21 Two lady's umbrellas
- 22 Six spoons, 6 forks and tea tray
- 23 Pair of photo frames
- 24 Six knives, 6 forks and 6 spoons
- 25 Set of 5 aluminium saucepans with lids
- 26 Electric battery with fitting in mahogany case, perfect order and condition
- 27 Binocular microscope in mahogany case, with eyepieces, objectives, etc.
- 28 No. 10 visible Remington typewriter, with backspacer, 2 colours, tabulator, etc., in first-class order and condition
- 29 Latest model self-feeding and inking Roneo duplicator, with interleaving attachment, good working order ; in metal case
- 30 No. 7 Remington typewriter, first-class order and condition, fitted 10-stop tabulator, and metal cover and base
- 31 Royal Barlock visible 2-colour typewriter, with backspacer, etc. ; good order and condition
- 32 Two pairs electric curling irons, complete with flex and plug, in cases

PICTURES, POSTAGE STAMPS, &c.

- 33 A large collection of stamps in improved album
- 34 Two albums and quantity of stamps
- 35 Collection in large Ideal album, Vol. II., foreign countries, containing over 900 good Europeans, etc. ; a useful lot
- 36 Engraving by Bartolozzi after Hamilton—"Edmund Keene as Richard III.," framed and glazed
- 37 Oil painting in gilt frame—"Shipping "
- 38 Three large water-colour drawings, framed
- 39 Five small ditto
- 40 Oil painting in gilt frame and a pen and ink drawing
- 41 Two coloured engravings in black and gilt frames, a sepia engraving—"Duchess of Devonshire," 2 large unframed portraits in oils and 6 other pictures and engravings
- 42 Two engravings—Horses, by Stubbs, Anvil and Godolphin; old print, coloured—"Race over the Beacon Course, Newmarket, 1770 "
- 43 Another—"Bay Malton beating Gimcrack "
- 44 A coloured oval in sepia—Duchess of Devonshire, 1782
- 45 Coloured engraving—"Attacking the Fortress," by Lucas
- 46 Circular coloured engraving—"The Harvester," by H. Mole
- 47 Coloured engraving—"The Farmer's Boy "
- 48 Ditto—"The Infant Bacchus," by R. Westall, R.A., 1804
- 49 Oil painting—Landscape with Herdsman and Cattle
- 50 Another—"Birds "
- 51 Another—Portrait of a Gentleman
- 52 Another of an Artist
- 53 Interesting and rare engraving, framed—The Last Meeting of the Knights of St. Patrick in Dublin
- 54 Large box of books

PHOTOGRAPHIC APPARATUS, &c.

- 55 Thornton-Pickard $\frac{1}{2}$ -plate camera, slides, stand and case
- 56 A 10 by 8 copying camera, 2 slides
- 57 Billcliffe midget camera, lens and stand
- 58 Billcliffe vertical enlarger with condenser
- 59 A 12 by 10 camera, 2 double slides, carriers, etc., leather case
- 60 Twenty-four printing frames, $\frac{1}{2}$ -plate
- 61 Six lenses
- 62 Folding stand, dozen 12 by 10 studio plates, 5 draining racks and numbered rack
- 63 Goerz-Anschutz 5 by 4 focal plane folding camera ; the favourite pressman's model fitted with Goerz Dagor 6.8 lens, film pack adapter, Mackenzie type plate-holder and 12 envelopes ; in leather case
- 64 A $\frac{1}{4}$ -plate folding camera with Rodenstock aplanat 7.7 lens, film pack adapter, 3 metal plate-holders ; canvas case
- 65 A 5 by 4 Ray camera, Beck Isostigmat lens F/5.8, six slides and leather case
- 66 No. 3 folding pocket Kodak, $\frac{1}{4}$ -plate, for roll films, rapid rectilinear lens, T.B. and I. shutter ; good condition
- 67 Ensign $\frac{1}{4}$ -plate roll film and plate camera, Beck symmetrical lens F/8, Unicum fully-speeded shutter, plate adapter and 6 single slides in wallet
- 68 No. 1A folding pocket Kodak, closed front model, black bellows
- 69 Pair powerful field-glasses, in case
- 70 Hunsicher & Alexis 8-magnification prism binoculars, separate eyepiece for focusing, large object glasses
- 71 *Watson's 5 by 4 Argus reflex long extension, Holostigmat F/6 anastigmat lens, with telephoto attachment, focal plane shutter, (requires slight adjustment), 3 double dark slides and solid leather case*
- 72 Fine 10-lens leather-covered powerful field-glasses, in tan case

- 73 Fine 3-draw leather-covered telescope with case
- 74 Small microscope in case
- 75 Fine student's microscope with $\frac{1}{4}$ -in. and $\frac{1}{2}$ -in. objectives, 2 eyepieces, bull's-eye condenser; in mahogany case, splendid order
- 76 A pair of powerful field-glasses
- 77 Strong 4-fold wooden tripod with top
- 78 No. 4 bull's-eye Kodak, 5 by 4 daylight loading box-form model
- 79 No. 3 Cartridge Kodak $\frac{1}{4}$ -plate for roll films or plates, double extension, Goerz anastigmat lens F/6.8, Unicum fully speeded shutter, 3 double dark slides, rack focusing, late model
- 80 No. 3 folding Brownie $\frac{1}{4}$ -plate for roll films; as new
- 81 A $\frac{1}{4}$ -plate magazine camera
- 82 No. 3A folding Kodak, postcard size, fine rapid rectilinear lens, automat all-speed shutter; leather case
- 83 Vest pocket Kodak, fine 6.9 anastigmat lens; just cost £6
- 84 Twelve No. 1 Brownie spools; date just expired but quite perfect
- 85 Small powerful telescope
- 86 No. 1 box Brownie with view finder
- 87 No. 1 Ensignette in case, as new
- 88 Vest pocket Kodak with fine F/6.9 anastigmat lens in case
- 89 *Postcard and 10 by 15cm. folding focal plane camera, double extension, fine Zeiss Tessar lens F/4.5, 6-in. focus, compound shutter, 2 slides and film pack adapter*
- 90 Shew folding Eclipse $\frac{1}{4}$ -plate camera, fine rapid rectilinear lens, 3 double dark slides
- 91 Fine compound microscope with 2 objectives, in mahogany case
- 92 No. 1 autographic folding Kodak, Berthiot anastigmat lens F/5.7, speeded shutter, leather case

- 93 1A ($4\frac{1}{2}$ by $2\frac{1}{4}$) flush-back Ensign roll film camera, Velos anastigmat lens F/6.3, speeded shutter
- 94 No. 1A Junior autographic Kodak, fine anastigmat lens F/6.3, leather case
- 95 No. 0 Graphic vest, pocket size, focal plane film camera, Zeiss Tessar lens F/6.3, focal plane shutter
- 96 A $\frac{1}{4}$ -plate folding camera, double extension Goerz Dagor lens F/6.8, compound shutter, direct and ordinary view finder, 5 slides and film pack adapter
- 97 No. 3 folding Kodak $\frac{1}{4}$ -plate, very late model; fine condition
- 98 A $\frac{1}{4}$ -plate and 9 by 12 Ica folding camera (slides fitted with $\frac{1}{4}$ -plate carriers), double extension, Novar anastigmat lens, speeded shutter, 3 slides, film pack adapter and leather case
- 99 Meagher strong whole-plate stand camera, Dallmeyer lens and Thornton-Pickard shutter, 4 heavy mahogany dark slides, stiff canvas case; make a fine studio outfit
- 100 Carbine $\frac{1}{4}$ -plate roll film camera, will also take plates; Beck rapid rectilinear lens, speeded shutter
- 101 Goerz Dagor anastigmat lens, F/6.8, 6-in. focus in automat fully speeded shutter
- 102 Stereoscopic stand camera, field size, fine pair rapid rectilinear lenses, roller blind shutter, 3 double dark slides, and a stout canvas case
- 103 Fine lens for $\frac{1}{2}$ -plate enlarger
- 104 Hume's $\frac{1}{4}$ -plate Cantilever enlarger for artificial light, with illuminant
- 105 A No. 3 folding pocket Kodak for $\frac{1}{4}$ -plate roll films
- 106 Holborn $\frac{1}{4}$ -plate magazine camera, fine F/7.7 lens, for 12 plates
- 107 A No. 2 folding Kodak for $3\frac{1}{2}$ -in. square pictures (lantern slide size), in leather case

- 108 A student's microscope with $\frac{1}{4}$ and $1\frac{1}{2}$ -in. objectives and 2 eyepieces, in mahogany case
- 109 A Negretti & Zambra's $\frac{1}{2}$ -in. oil immersion microscope objective
- 110 A *Zeiss Minimum Paltmos* focal plane press camera, 9 by 12cm., or can be used for $\frac{1}{4}$ -plate with carriers, Zeiss Tessar lens, F/4.5, focal plane shutter, 3 double dark slides, and folding pack adapter
- 111 A No. 2 Brownie box-form camera and canvas case
- 112 A No. 2 folding Brownie $3\frac{1}{4}$ by $2\frac{1}{2}$, fine lens and shutter
- 113 A Blair 5 by 4 roll film camera, rack focusing, fine anastigmat lens, F/6.8, speeded shutter
- 114 A No. 1 folding Kodak, $2\frac{1}{2}$ by $3\frac{1}{4}$, open front
- 115 A No. 1 box Brownie view finder and a canvas case
- 116 A vest pocket Kodak in leather case
- 117 A No. 2 folding Brownie, $3\frac{1}{4}$ by $2\frac{1}{4}$, fine lens, speeded shutter
- 118 Pair of powerful field-glasses in case
- 119 Pair of Lemaire binoculars in leather case
- 120 A No. 1A folding pocket Kodak, late closed front model, black bellows
- 121 A magazine camera, $\frac{1}{4}$ -plate, fine lens, magnifiers, etc.
- 122 A ditto
- 123 Benetfink's lightning $\frac{1}{4}$ -plate magazine camera (Holborn flex), focusing model, fine rapid rectilinear lens, speeded shutter, as new
- 124 Fine pair Rodenstock prism binoculars, 6 magnification, in leather case
- 125 A 3A folding Kodak, post-card size, fine rapid rectilinear lens, fully speeded shutter, leather case
- 126 Toy microscope in case
- 127 A Beck compound microscope, $\frac{1}{4}$ -in. and 1-in. objectives, eyepiece, and case

- 128 Two boxes microscopic slides, about 150
assorted subjects
- 129 Two small single lenses
- 130 A Ross Goerz double anastigmat lens,
F/6.8, in fully speeded unicum shutter,
5in. focus
- 131 400 P.O.P. postcards
- 132 400 ditto
- 133 400 ditto
- 134 400 ditto
- 135 400 ditto
- 136 400 ditto
- 137 Five $\frac{1}{4}$ -plate Goerz film packs, dated Feb.
1921, cost 22/6
- 138 Six 9 by 12cm. Goerz film packs, cost 34/-
- 139 Six ditto
- 140 Six ditto
- 141 Six ditto
- 142 Stereo Weno stereoscopic roll film camera,
full size, fine rapid rectilinear lens, leather
case; practically as new
- 143 Small microscope in case, old fashioned
but very effective
- 144 Photo Jumelle $3\frac{1}{2}$ by $2\frac{1}{2}$ Stereoscopic Co.'s
magazine camera, fitted with Krauss
Zeiss Tessar lenses, F/6.3, in tan leather
case
- 145 Watson's 6x prism binoculars, eyepieces
separate focusing, bending bar, leather
case
- 146 Fine pair Hunsicker & Alexis prism
binoculars, 8 magnification eyepiece
focusing, tan leather case
- 147 Negretti & Zambra's 8x stereo prism
binoculars, central focusing, eyepiece
adjustment, leather case; fine
- 148 A Richard's glyphoscope stereoscopic
camera, complete with 12 slides and
leather case
- 149 A Thornton-Pickard Ideal $\frac{1}{4}$ -plate folding
camera, fine lens, 2 slides, and case
- 150 Nine Thornton-Pickard $\frac{1}{4}$ -plate single
slides
- 151 A $\frac{1}{4}$ -plate magazine camera for plates

- 152 A metal telescopic tripod
- 153 A $\frac{1}{4}$ -plate instantograph with fine achromatic lens, Thornton-Pickard time and instantaneous shutter, 2 book-form slides, fine lens
- 154 A No. 2 J Ensignette folding film camera, $3\frac{1}{4}$ by $2\frac{1}{4}$, as new
- 155 Polished walnut stereoscope on stand, with coloured and other views
- 156 Parcel containing 8 dishes (some large), 12 printing frames, 6 magnifiers, and a view finder
- 157 Fine $\frac{1}{2}$ -plate outfit with Ross symmetrical lens, 4 mahogany dark slides in best mahogany turntable and 3-fold tripod
- 158 A No. 1 autographic folding junior Kodak, $4\frac{1}{4}$ by $2\frac{1}{2}$, fine lens, speeded shutter, as new
- 139 *Ensign Popular Pressman Reflex $\frac{1}{4}$ -plate, double extension, Ross Xpress lens, F/4.5, focal plane shutter, and 6 single slides*
- 160 Holborn Ilex magazine camera, $\frac{1}{4}$ -plate focusing model, Aldis Plano anastigmat lens, F/6.8, speeded shutter, brilliant finders, in splendid condition
- 160A A No. 4 cartridge Kodak, 5 by 4 double extension roll film camera, or adaptable for plates; no lens or shutter, leather case

SCIENTIFIC APPARATUS, &c.

- 161 Beck's best binocular microscope, concentric rotating stage with iris diaphragm, racking sub-stage, racking interocular adjustment, 4 eyepieces, objectives $1\frac{1}{2}$, $\frac{2}{3}$ in., and $\frac{1}{2}$ in., stage forceps, live box and stage bull's-eye condenser, in case
- 162 Beck $\frac{1}{4}$ in. objective for use with binocular
- 163 A ditto $\frac{1}{2}$ in. ditto
- 164 A ditto $\frac{1}{2}$ in. (immersion) ditto

- 165 Beck bacteriological microscope, coarse adjustment rack and pinion, fine ditto with micrometer, screw, triple nosepiece, racking and centering sub-stage with Abbé condenser and iris diaphragm, 2 eyepieces, objectives $\frac{1}{2}$ in., $\frac{1}{4}$ in., and $\frac{1}{8}$ in. oil immersion
- 166 Nachet monocular microscope, sliding coarse adjustment, micrometer fine adjustment, 2 eyepieces, 2 objectives, bull's-eye condenser, complete in case
- 167 Swift portable binocular, 2 eyepieces, spot lens and polariscope
- 168 Swift spot lens with centering adjustment
- 169 Watson projection eyepiece
- 170 Gundlach $\frac{1}{16}$ in. immersion objective, with correction collar
- 171 Watson $\frac{1}{2}$ in. oil immersion for metallurgical work
- 172 Wray $\frac{1}{4}$ in. objective
- 173 Triple nosepieces
- 174 Micro lamp in case
- 175 Leitz microscope with mechanical stage, racking Abbé condenser with iris diaphragm, 3 eyepieces, triple nosepiece objectives, Nos. 3, 6, and $\frac{1}{2}$ in. oil immersion
- 176 Blood counter, after Thoma
- 177 Zeiss projection eyepiece
- 178 Smith & Beck portable monocular microscope, rack and pinion coarse adjustment, mechanical stage, 3 eyepieces, 4 objectives, polariscope, sub-stage condenser, various accessories, including large bull's-eye condenser, complete in case
- 179 Zeiss apochromatic objective, 1.5mm. oil immersion
- 180 Compensating eyepiece by Baker
- 181 Zeiss 16mm. apochromatic objective
- 182 A No. 12 compensating eyepiece
- 183 Abbé condenser with iris diaphragm
- 184 Zeiss 4mm. apochromatic, with correction collar

- 185 Zeiss condensing lens, with iris diaphragm,
in gimbals
- 186 A 3-in. objective by Ross
- 187 Dollond student microscope, rack coarse
adjustment, micrometer fine adjustment,
2 eyepieces, 2 objectives, bull's-eye con-
denser on stand, complete in case
- 188 Dissecting microscope with rack, 3 lenses,
turntable, erecting eyepiece and triple
objective, complete in case
- 189 Micro lamp, complete in case
- 190 Swift student microscope, rack coarse
and micrometer fine adjustment, racking
and centering sub- stage with Abbé con-
denser and iris, double nosepiece, 2 eye-
pieces, $\frac{3}{8}$ in. and $\frac{1}{4}$ in. objectives, sliding
polariscope in body, and swing out
analyser
- 191 Box of rock specimens in 4 trays, by
Gregory
- 192 Blood counter in case
- 193 Microscopic air pump, complete with bell,
on stand
- 194 Crouch monocular microscope, rack coarse
and micrometer fine adjustment, eye-
piece, 1 in. and $\frac{1}{4}$ in. objectives
- 195 A $3\frac{1}{2}$ -in. telescope by Tulley, finder and
steady rods, 1 day, 2 astro eyepieces,
with equatorial head, in case, and tall
outdoor stand
- 196 Equatorial head on tall outdoor stand
- 197 Cooke's sun-diagonal
- 198 Set 4 achromatic eyepieces by Browning,
in case
- 199 Dent's meridian instrument
- 200 A $3\frac{1}{4}$ -in. telescope by Jones, with finder,
2 astro eyepieces, 2 day ditto, on equa-
torial head with slow motions, on tall
stand
- 201A Single prism table spectroscope
- 202A Recording barometer
- 203A Faber 10-in. slide rule

Cols Not Bought

201	201	13. 13. 0	244	9. 0. 0
229	"	3. 15. 0	247	18. 0. 0
243	"	23. 0 14 0	292	11. 0. 0
			293	<i>over your limit but?</i>
294	204A	11. 10. 0		<i>Price</i>
313	205A	7. 10. 0		
316	206A	2. 0. 0		
324	207A	6. 10. 0		
325	208A	8. 10. 0		
333	209A	2. 0. 0		
338	210A	2. 15. 0		
342	211A	5. 0. 0		
357	212A	? Price I did not get this		

Case of drawing instruments and board
A ditto
A ditto
Box of railway curves
Biunial lantern with dissolver
Two limelight jets
A graphoscope (folding)
A very fine microscope by Ross, monocular and binocular, with full range of oculars and objectives, polarisers, analyzers, sub-stage condensers, Amici; prisms, live box, compressorium, all fitted, complete in polished mahogany cabinet; this is a very fine instrument
Steward microscope, 2 objectives, mechanical stage, in mahogany case

The Second Portion of the Collection of MICROSCOPES and ACCESSORIES, formed by the late Sir Frank Crisp, Bt.

- (10.) 201 Presentation binocular, rack coarse adjustment for width of eyes, patent rotating mechanical stage graduated and divided on silver, graduated inclination, rack adjusting sub-stage with centering screws; fitted with a pair of "A" capped eyepieces; by Watson & Sons
- 202 An "A" objective, by Zeiss
- 203 A 1-in. and $\frac{1}{2}$ -in. objective, by Tulley
- 204 No. 10 immersion objective, by Verick
- 205 Two objectives in cases
- 206 Three various objectives
- 207 Objective with lieberkuhn, and 4 others
- 208 Zengers' $\frac{3}{8}$ -in. endo-immersion
- 209 Hasert's $\frac{1}{8}$ -in. immersion, and another
- 210 Three objectives
- 211 A $\frac{1}{4}$ -in. objective with correction collar, by Nobert
- 212 A mounted double mirror on stand, and an expensively mounted prism
- 213 A 4-in. double bull's-eye stand condenser

- 214 Two bull's-eye stand condensers
- 215 An adjustable microscope lamp by Baker,
with metal chimney
- 216 Fidden's improved portable microscope
lamp
- 217 Schafer's thermo-regulator with glass
and mercury
- 218 Abbé test plate mounted in brass, by Zeiss,
and a Maltwood finder in case
- 219 A goniometer stage and a tilting stage,
by Watson
- 220 A revolving stage, another on ball and
socket, revolving object holder and 2
others
- 221 An expensively made micro-spectroscope
fitted with comparison mirrors
- 222 An expensively-made micrometer eye-
piece, by Hartnack & Co., and another
micrometer eyepiece
- 223 An expensively made rack revolving
goniometer with crystal stage
- 224 Oberhausser's horizontal camera lucida
- 225 Sub-stage condenser fitted in rack adjust-
ing under-stage, and a case of dark wells,
both by Beck
- 226 A camera lucida fitted to eyepiece, 2 by
Chevalier, and 2 others
- 227 Three nose-pieces and 2 pairs of safety
rings
- 228 Two hot stages, 2 frog plates and a com-
pressor
- (657) 229 A binocular eyepiece by Hartnack, fitted
with a pair of eyepieces, and another by
Tolles fitted with a pair of eyepieces
- 230 Ten various single nose-pieces
- 231 Two micrometer eyepieces, a calliper eye-
piece, and an eyepiece ruled in squares
- 232 An expensively made comparison micro-
meter eyepiece by Nachet
- 233 An expensively mounted drawing prism
- 234 A binocular eyepiece by Verick, fitted
with 2 eyepieces

- 235 An expensively made micro-spectroscope fitted with micrometer, divided adjustment and mirrors with ball and socket universal motions
- 236 Three hot stages
- 237 Three hot stages and an electric stage
- 238 An expensively made goniometer stage with divided circles
- 239 Five compressors
- 240 Five ditto
- 241 A blood-testing set by Zeiss, another by Verick, and another
- 242 Nine various eyepieces
- (7.) 243 *Stephenson's erecting binocular, adjustment for width of eyes, rack coarse adjustment, graduated fine adjustment, mechanical and circular rack rotating stage, graduated, rack adjusting sub-stage with centering screws, graduated rack rotation; in new condition, by Ross*
- 244 An expensively made triocular bodied microscope by Nachet, with 3 eyepieces
- 245 *Stephenson's erecting binocular microscope, rack coarse adjustment, graduated fine adjustment, rotating stage by Browning, London*
- 246 Dissecting microscope on horse-shoe foot rack adjustment, fitted with double achromatic dissecting lens
- (9.) 247 Dr. T. Pelletan's expensively made microscope with rack coarse adjustment, graduated fine adjustment, mechanical stage, graduated and rotating, rack adjusting sub-stage, with centering screws by Lutz, Paris
- (5.) 248 Wenham's binocular aquarium microscope, rack adjustment on stem, fitted with a pair of "A" eyepieces and small condenser
- 249 An Abbé condenser by Zeiss in sub-stage fitting
- 250 Stephenson's illuminator and 3 under-stage condensers

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- 251 Three kettle-drum condensers by Ross,
and a Kingsley illuminator
- 252 A Nachet prism, Wenham's reflex illumi-
nator, and 3 other prism illuminators
- 253 A Webster condenser, Wallach's condenser,
spot lens, and 2 other condensers
- 254 Beck's tadpole condenser and another by
Beck
- 255 Eight various diaphragms and under-stage
fittings
- 256 Multiple colour spot lens, 2 mounted
prisms, a mounted mirror and 2 other
fittings
- 257 Two silver side reflectors, a paraboloid
and a mounted lens
- 258 Two under-stage condensers, spot lens with
iris diaphragm, revolving polariscope, and
a centering sub-stage fitted, by Beck
- 259 Two large mounted prisms, a mounted
mirror and 2 stage bull's-eyes
- 260 Draw tube fitted with erector, a gonio-
meter eyepiece, divided circle and analys-
ing prism
- 261 Set of Darker swing-out selenites and a
revolving polariscope
- 262 An apertometer, by Zeiss
- 263 A polarising bundle, a polariscope and a
mounted prism
- 264 Swift's best sub-stage condenser with
revolving polariscope and centering
screws
- 265 An expensively made patent petrological
microscope by Swift, with graduated
revolving polariscope and analyser,
graduated fine adjustment, rack coarse
adjustment and moveable selenite plate,
etc.
- (5) 266 An expensively made micrometer micro-
scope, fitted with micrometer stage, gra-
duated, and a Ramsden's micrometer
eyepiece
- 267 A bacteriological microscope, rack coarse
adjustment, micrometer screw fine
adjustment, by Hartnack

3. 0. 0 ✓

7.-268

Bausch & Lomb's laboratory microscope ;
can be used either inverted or as an ordinary microscope

4.0.0 ✓

269
75/-270

Student's microscope by Reichert

A large and expensively made dissecting microscope by Reichert, rack coarse adjustment, glass stage

3.15.0 ✓

271

A student's microscope by Nachet, fitted with eyepiece and another microscope with rack adjustment

75/-272

An expensively made theodolite microscope, with levelling screws and divided in silver

2.10.0 ✓

80/-273

Horizontal microscope with glass rotating stage, fitted with objective and eyepiece

18.0 ✓

8.-274

An expensively made microscope by Bausch & Lomb, graduated rotating stage, rack coarse adjustment, rack adjusting swing-out sub-stage, centering screws and capped eyepiece

275

A rack adjusting sub-stage condenser with under-stage fittings, a super-stage, a rack adjusting under-stage and a mirror

276

A sub-stage condenser with centering screws ; another condenser and 2 others

8.-277

An expensively made Noremberg polariscope, rack adjustment, rotating analyser; the polariser is a large tourmaline

80/-278

Expensive model of the human eye, another model, and a model with lens on stand

2.0.0 ✓

279

Pseudoscope in case, and a direct vision spectroscope with adjustable slit ; and comparison prism by Browning

279A

A pseudoscope by Ahrens in case, a Whetstone photometer and Newton's ring apparatus

280

An expensively made pair of prisms on stand showing the recombination of light

281

Expensively made stand for a pseudoscope and a Newton ring apparatus

282

A small level and a Bunsen burner

283

A telescope with stand and other fittings in case

- (6.) 284 Albertottie's micrometer microscope with
rack revolving micrometer scale, divided
in silver, made by Bartels & Diederichs
285 Student's microscope by Bausch & Lomb,
rack coarse adjustment, micrometer fine
adjustment
286 Ditto, ditto
287 Portable microscope with eyepiece, in
glass-topped case
(69-) 288 Artificial model of eye, and a large mounted
mirror on stand with ball and socket
movements
289 Set of high-power achromatic magnifiers
with holder, by Steinheil
290 A press showing the polarising effect of
stress in glass cubes, and another for bars,
by Hoffman, Paris
291 Mineral holder with graduated drum
divided on silver, and a pair of tourmaline
pincers
(10.) 292 *Presentation binocular microscope by Tolles,*
rack adjustment for width of eyes,
mechanical micrometer goniometer stage
rotating, rack adjusting sub-stage rotat-
ing and divided, swing-out sub-stage,
both graduated; the whole instrument
rotates on the base, which is also gra-
duated; fitted with pair of eyepieces
(6.) 293 Binocular microscope by Winspear, rack
adjustment for width of eyes, mechanical
rotating stage with motions in both
directions, fitted with a pair of eyepieces
(8.) 294 *Presentation binocular by Zentmayer,*
rotating goniometer stage, rack adjusting
sub-stage, rack coarse adjustment, gra-
duated fine adjustment; instrument
rotates on the base, which is graduated
295 Ten various eyepieces
(5.) 296 Expensively made reading microscope by
Nachet, rack adjustment on stem, fitted
with eyepiece
297 Demonstration microscope fitted with
eyepiece and objective; and another
with eyepiece

6.6.0 ✓

1.10.0 ✓

3.0.0 ✓

- (40/-) 298 Dr. Beale's demonstration microscope with lamp and stand, fitted with eyepiece ; and another 1-17-6
- (6/-) 299 Demonstration microscope on stand, fitted with objective eyepiece and adjustable stage 1. 10.
- 300 Demonstration microscope on stand, with eyepiece and objective, by Chevalier
- (6/-) 301 McQueen's demonstration microscope, rack coarse adjustment, fine adjustment, fitted with lamp and eyepiece 1. 10. 0
- 302 Portable microscope by Verick
- 303 Demonstration microscope on stand by Watson, and ditto by Salt, in pocket case
- C (60/-) 304 Student's microscope with folding foot 1. 0. 0
- 305 Student's microscope, rack coarse adjustment and Wales' form of inclination
- (75/-) 306 Aquarium microscope, rack coarse adjustment, fitted with eyepiece on stand 1. 10. 0
- (60/-) 307 Dissecting microscope with 3 powers on stand, another with 3 powers, and another 12. 0
- (7/-) 308 A binocular dissecting microscope by R. & J. Beck, with rack adjustment and fitted with stage bull's-eye 3. 10. 0
- (50/-) 309 Dissecting microscope with 3 powers, and Huxley's dissecting microscope 1. 0. 0
- (85/-) 310 Trichina microscope, revolving glass stage with rack adjustment 2. 5. 0
- (85/-) 311 Microscope with large micrometer stage and screw adjustments 3. 0. 0
- 312 Four small microscopes
- (7/-) 313 An expensively made binocular aquarium microscope, rack adjustments in all directions, by Ross ; fitted with a pair of " B " eyepieces
- 314 An expensively made microscope by Nachet, rack coarse adjustment and fine adjustment
- 315 Two student's microscopes, rack coarse adjustments
- (40/-) 316 Portable microscope by Collins, and a small ditto 2. 10. 0
- 317 Two student's microscopes with rack adjustments

- 318 Student's microscope by Ladd, rack adjustment
- 319 Bacteriological microscope, by Bethle & Rexroth
- 320 Student's microscope with rack adjustment, and a demonstration microscope fitted with eyepiece and objective
- (10) 321 Stein's electric light microscope fitted with lamps and resistances 5.0.0 ✓
- 322 Portable microscope by Baker, and eyepiece, in leather case with straps
- 323 Portable microscope by Powell & Lealand, with mechanical stage, 2 eyepieces, 1-in. objective with lieberkuhn, $\frac{1}{4}$ in. with lieberkuhn, $\frac{1}{2}$ in. correction collar, etc., in case
- (6) 324 Elaborately fitted portable binocular microscope in case, with live box, stage bulls-eye, pair of "B" eyepieces and turntable; a large number of mounting knives and other expensive mounting accessories in drawer
- (6) 325 Portable microscope by Swift, with rack adjusting sub-stage and centering screws, analyser sub-stage condenser, rotating polariscope, fitted with fine large nicol prism and stage bull's-eye
- 326 Student's microscope fitted with swing-out sub-stage and Abbé condenser
- 327 Biological microscope fitted with extra large stage, by Schmidt & Haensch
- (10) 328 An expensively made exhibition microscope, fitted with rotating circular stage, rotating and rack adjusting horizontal movements, taking 12 standard size slides; special eyepiece and objective 15.0.0 ✓
- (45) 329 Lossener's combined microscope and telescope with tripod stand 1.6.0 ✓
- (8) 330 Primshen's chemical microscope for observing the circulation in plants, etc., fitted with eyepiece, special objective and under-stage condenser 3.0.0 ✓
- (89) 331 Binocular microscope fitted with a pair of "B" eyepieces by Holmes I missed this

332 Expensively made petrological microscope, mechanical rotating goniometer stage, fitted with micrometers, rack adjusting sub-stage condenser and nicol prism polariser; by Nachet

Salt
hook 2nd?
Baxter (10.) 333 A grand model inverted microscope by Nachet, cost originally 600 francs, 2 eyepieces; *very scarce*

(5.) 334 A binocular microscope by Beck, for the examination of large objects *2.5.0*

335 Five small microscopes

336 A small microscope on stand, and 3 others

(7.) 337 A Leiter's stomach microscope *3.0.0*

(50.) 338 A microscope with extending rod and rack adjustment, and an aquarium microscope by Duterne, Paris

339 A Geneva Co.'s calliper microscope with graduated scale

(5.) 340 An expensively made demonstration microscope, with rack adjustment, in horizontal, vertical and lateral directions *4.0.0*

(6.) 341 An expensively made microscope for the investigation of objects under the air pump, with table clamp *1.15.0*

(4.) 342 An expensively made microscope for the investigation of Newton's rings, with micrometer movements

343 A dissecting microscope and a microscope lamp, by R. & J. Beck

344 A student's microscope, rack coarse adjustment, rack sub-stage, rotating, mechanical goniometer, micrometer stage, reading by Vernier, and divided in silver

(6.) 345 Horizontal microscope with rack adjustment, fitted with mirror (adjustable) on stand, with universal ball and socket movements *3.0.0*

(5.) 346 Aquarium microscope with outer glass tube, and rack coarse adjustment *3.0.0*

347 An adjustable reading microscope, rack adjustment, eyepiece and objective, by Buff & Berger, Boston

- 348 A horizontal microscope by Chevalier,
and brass stand
- 349 An expensively made lens holder on
stand, with rack adjustment, and a
microscope by Murray & Heath
- 350 An inverted chemical microscope by
Nachet
- (5.) 351 A vibration microscope, fitted with rack
adjustment, eyepiece, objective and
tuning fork
- (6.) 352 An expensively made reading microscope,
fitted with micrometer, divided on silver,
and prismatic eyepieces
- 353 A binocular microscope by Smith & Beck
(A.F.)
- (70.) 354 An inverted chemical microscope by
Nachet
- (80.) 355 An expensively made micrometer reading
microscope by the Cambridge Scientific
Instrument Co.
- 356 Aquarium micro cope on stand, fitted
with eyepiece and objective
- (70.) 357 A comparison microscope with graduated
movements to the stage
- 358 A Wasserlein saccharometer microscope,
fitted with bi-quartz
- 359 A reading microscope with micrometer,
screw motions, in horizontal directions,
by Plossl, and a carrier for a reading
microscope
- 360 An aquarium tank on stand by Klonne
& Muller, and a bull's-eye condenser, no
stand
- (90.) 361 An aquarium microscope, a lens holder on
stand, and an aquarium on stand
- (16.) 362 An expensively made binocular exami-
nation microscope with graduated rack
adjustment to eyepieces, and graduated
coarse adjustment, reading by vernier,
by C. G. Collin, Stockholm
- 363 An inverted chemical microscope by
Nachet, adjusting swing-out sub-stage
with condensing lens, micrometer move-
ments to the stage

Clay
9 of 100?

2.0.0

1.10.0

~~1.6.0~~

1.0.0

6.0.0

- 364 A large bull's-eye stand condenser, 4-in. lens
- 365 A microscope lamp, fitted with bull's-eye condenser and sterilizer
- 366 A bull's-eye stand condenser, 3-in. lens
- 367 Two ditto
- C (49/-) 368 An inverted microscope by Nachet 1.6.0
- 369 A dissecting microscope by Boecker, fitted with achromatic dissecting lens
- 370 A dissecting microscope, rack coarse adjustment, fitted with stage bull's-eye
- (50/-) 371 A projection microscope on ornamental stand 1.10.0
- (85/-) 372 An horizontal microscope by Nachet, fitted with eyepiece and powers 3.0.0
- 373 A large 4-in. lamp and condenser in brass mount, with slide holder
- (40/-) 374 A dissecting microscope on mahogany stand, fitted with 4 drawers containing a number of glass slips and zoophyte troughs 1.12.6
- 375 An expensively made heliostat
- 376 A microscope table with revolving casters
- (90/-) 377 An expensively mounted tuning fork, to show vibrations in microscope 2.0.0
- 378 A fitted microscope case with microscope tubes, and other sundries
- 379 A fitted microscope case containing a number of empty brass objective cases, and other micro sundries
- (5/-) 380 Seventeen small seed microscopes
- (40/-) 381 Fourteen seed and other small microscopes
- (35/-) 382 Fifteen seed and botanical microscopes 1.4.0
- (40/-) 383 Nine Coddington and other hand magnifiers
- (8/-) 384 Sixteen hand magnifiers, small microscopes, and 4 pairs of spectacles 1.10.0
- 385 Fifteen small hand microscopes
- 386 Twenty ditto magnifiers, etc.
- (85/-) 387 Twenty-two various small magnifiers, in 2 cases 1.10.0
- 388 A small student's microscope on ball and socket joint, and 7 others; and a number of small microscope powers in case

- (60f)-389 Two trichinoscope, a small compass microscope, a binocular hand magnifier, and a small microscope in case
- 390 A focusing glass by Ross, and another
- 391 Three dozen slides—various
- 392 Ditto
- 393 Ditto
- 394 Sixteen fine test diatoms, and 17 others
- 395 Three dozen sections of shells, pearls, etc.
- 396 Three dozen insects, etc., by Enoch, Topping, and other good mounters
- 397 Thirty fine insect and insect parts, including the scarce fairy fly, by Enoch and other good mounters
- 398 Thirty-eight insect parts, and various
- 399 Forty-one large insect parts and botanical
- 400 Twenty-eight various and 6 large injected slides
- 401 Two dozen large injected slides
- 402 Nineteen fine coal sections
- 403 Four rock sections, including 2 of the scarce Eozoon Canadense and 36 others, including scarce platino cyanides, and other polarising salts
- 404 Thirty-one slides, various, by Enoch and others
- 405 Twenty-four test diatoms
- 406 Eight choice exhibition slides
- 407 Two dozen exhibition objects, in case
- 408 Eight choice slides showing the anatomy of the insect on one slide
- 409 A scarce diamond writing at the rate of 12 bibles to the inch, and another
- 410 A ditto
- 411 A scarce diamond writing at the rate of 13 bibles to the inch
- 412 A scarce diamond writing at the rate of 14 bibles to the inch, and another 16 bibles to the inch
- 413 A scarce diamond writing at the rate of 15 bibles to the inch, and another 10 bibles to the inch
- 414 A scarce diamond writing at the rate of 47 bibles to the inch

18. 0

- 415 Noberts' ruling 11 bands, *now very scarce*
 416 Ditto, 17 ditto
 417 Ditto, 19 ditto
 418 Ditto, 20 ditto

Another Property.

- 419 *Binocular microscope by Watson, "Edinburgh Students' Model," with 2 B and 1 C eyepieces, 1-in. and $\frac{1}{8}$ -in. objectives, by Watson, and a $\frac{1}{2}$ -in. ditto by Powell & Lealand; coarse and fine adjustments, triple nosepiece, mechanical stage and sub-stage with vernier, reading both ways, Abbé condensor with iris diaphragm and stops, also with Watson's patent adjustable stop, polariser and analyser live box, trough and slips and sundry accessories; in mahogany case and key (perfect condition)*
 420 Microscopic lamp with bull's-eye, in case
 421 A well-made fine microscopical slide cabinet of 21 drawers, glass panel door
 422 Forty-three well mounted micro slides, contents of 2 drawers
 423 Forty-eight ditto
 424 A ditto lot
 425 Sixty ditto, contents of 3 drawers
 426 A Morton's ophthalmoscope in case
 427 Old medical book with coloured illustrations
 428 An air pump with glass shade
 429 A pair of 8x prism binocular glasses in leather case, and metal case of surgical instruments
 430 Pair Carl Zeiss prismatic binoculars, 8x, in case
 431 An electric copper kettle, $1\frac{1}{2}$ pints, 200-210 volts, complete with flexible and adapter; perfect order
 432 A 4-volt 40 amp. "Fuller Block" accumulator, charged
 433 A 4-volt 40 amp. "Ever Ready" ditto
 434 An 8-volt 30 amp. accumulator, charged

- | | |
|-----|--|
| 435 | Three 2-volt 100 amp. "Lucas," charged |
| 436 | Half-dozen 4-volt 4 amp. "King Eton,"
new |
| 437 | Half-dozen 4-volt 4 amp. ditto, ditto |
| 438 | Half-dozen 4-volt 4 amp. ditto, ditto |

END OF SALE.

SALE ANNOUNCEMENTS.

TUESDAY, NOVEMBER 16th :—

A Collection of Sudanese Weapons and
Curios from Omdurman, the Property of
an Officer.

Chinese and Japanese Porcelain ; Ivories ;
Bronzes ; Native Curios, etc.

**THURSDAY, NOVEMBER 18th, and
FRIDAY, NOVEMBER 19th :—**

Scientific and Photographic Apparatus ;
Miscellaneous Property.

TUESDAY, NOVEMBER 23rd :—

Valuable Bird Skins and Eggs, also
Cabinets, being the Collections of Captain
Hon. R. Bethell and E. Turner, Esq.

TUESDAY, NOVEMBER 23rd :—

China ; Bronzes ; Weapons ; Egyptian and
Roman Antiquities.

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Mr. J. C. STEVENS begs to call attention
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EVERY FRIDAY a Sale is held which includes
Microscopes, Telescopes, Cameras, Lenses, Lan-
terns, Cinematographs, Theodolites and Levels,
and every class of Scientific Instrument; Lathes
and Tools, Furniture, Silver Plate, Jewellery,
Fishing Tackle, and Sporting Requisites.

CURIOS, CHINA, BRONZES,
ARMS AND ARMOUR, IVORIES,
ETHNOGRAPHICAL SPECIMENS, etc.

A Sale is held on **TUESDAYS**, twice in every
month.

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