

Sales catalogue: Stevens

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Courts

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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, Polariscope, 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.

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, 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 Tetrizzini, 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, ⅜in., ½in. and ⅝in., 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 ¼in., 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- $\frac{1}{2}$ -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 ⅜ 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 outside, 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 spanners, 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 Efundem 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 cylinders*
- 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 adjustments, 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, complete with flex and wall plug

- 435 Foolscap carriage, for Oliver visible typewriter
- 436 A No. 10 Smith Premier visible typewriter, 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 × 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
- 500A *Automatic stamp affixing machine*, with numbering device and key

The third portion of the Collection of Microscopes and Apparatus formed by the late Sir Frank Crisp, Bart.

- 501 A binocular presentation microscope, the *Watson Draper*, rack coarse adjustment,

50/-
£ 25/-

9.0
20.0

- 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
- 607 ✓ 502 An " A " objective by Zeiss
- 503 A " C " ditto
- 504 An " E " ditto
- 505 A " J " ditto
- 506 A student's microscope stand by Zeiss, with eyepiece 3.0.
- 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 understage, 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
65/-	523	Student's microscope by Kellner, fitted with eyepiece and objective	2. 15
	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
	526	Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage	
£4	527	Portable microscope, rack coarse adjustment, in brass case	4. 0
£7	528	Koristka's large stage microscope	4. 0
£4	529	Erecting binocular rack coarse adjustment, fitted with a pair of capped eyepieces	6. 6
5 85/-	530	Worked sphere with universal movements in brass mount, by C. D. Ahrens	4. 5
65/-	531	Two small youths' microscopes, 1 by Schirck	3. 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
£15	534	Giant microscope with adjustable stage, fitted capped eyepiece	10. 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.	
75/-	536	An Amica prism on adjustable stand, and another prism on stand	3. 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	

- 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 Nacet, 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.
- 544 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson
- 90/- ✓ 545 Two dissecting microscopes 2.10
- £10 ✓ 546 An expensively made reading microscope on stand, by Weston, Rostock 4.10
- 547 Projection microscope
- £10 ✓ 548 Universal microscope with tricolour and binocular bodies, by Beck 5.0
- 549 Ten various stages
- 550 Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss ; 3 astrosopes, 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.
- £5 ✓ 557 Small binocular microscope by Nacet 3.10.
- £8 ✓ 558 Microscope for showing the effects of high pressure, by Ducretet, Paris 4.4.

£ 4	559	Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism	
	560	Two youths' microscopes	
£ 10	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.
£ 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.
£ 4	568	Trichina microscope compressor, microscope with extra large glass stage	2.0.
	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.

£5	580	Microscope with rack coarse adjustment, by Gaubert, Paris	2.0.0
	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	
85/	585	Three small dissecting microscopes	2.10
	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
£9	589	Elaborately constructed microscope, fitted with 3 various powers and universal movements	4.10
50/-	590	Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers	1.15
50/-	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	
65/-	595	Therry's hand spectroscope	2.2
	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
£7	599	Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective	7.0

- 45/-
 £ 8
 45/-
 35/-
- 600 Oculist's microscope by Nachet, and triple objective
 601 Student's microscope, rack coarse adjustment, and another
 602 ✓ X Microscope by Plossel, and another by Pritchard 5.0.
 603 ✓ X Demonstration microscope fitted with eyepiece and condensing lens, and 2 others 2.0.
 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 "Herculis" 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

- 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
- 626 ~~Four micro photographic fittings, and a mounted lantern condenser~~
- 627 Nine various eyepieces
- 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
- 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
- 631 Solar microscope of unusual design
- 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
- 635 ~~Two student's microscopes~~
- 636 Projection microscope by John Browning, with rack adjustment
- 637 Antique projection microscope with fittings, in case
- 638 Youth's microscope with fittings, in case
- 639 James' exhibition microscope
- 640 Eight exhibition slides, including a fine specimen of the scarce fairy fly
- 641 Twenty opaque and transparent slides
- 642 A microscope in the form of a sea
- 643 A curious projection microscope, and four various fittings
- 644 A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings

£3

£10 ✓

£4

45 ✓

40 ✓

90 ✓

50 ✓

35 ✓

35 ✓

45 ✓

45 ✓

C 8

10. 10

1. 10

C 16

1. 5

18

2. 0

1. 4

Incomplete
Standard No 177
2 21/2/21

xx returned

L 6 ✓	645	Warrington's portable microscope with objective, and other fittings, in case	2.0.
757 ✓	646	An old projection microscope, and part of another	3.0.
	647	Warrington's portable microscope with eyepiece	
657 ✓	648	Matthew's portable microscope with objective eyepiece, and a few fittings, in case	2.5.
	649	An aquarium microscope, and another	
L 6 ✓	650	A projection microscope with rack adjustment, and a spectroscope stand	
	651	A double-bodied microscope, by Nacet	5.0.
	652	Abbé's apertometer by Zeiss	
757 ✓	653	Curious wooden microscope, and another	2.0.
	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	
L 8 ✓	666	Expensively made microscope with rack adjustment, graduated fine adjustment, by Ross	8.0.0
	667	Binocular magnifier by Beck, on stand	

- 668 Student's microscope with eyepiece and objective, and a small dissecting microscope
- ~~42~~ 669 Expensively made micrometer stage with rack movements and reading by Vernier
- 757 ✓ 670 Two expensive hot stages, and a spirit lamp 3.0.
- 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.
- 677 A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another
- 678 Demonstration microscope with eyepiece, and 2 others
- 757- 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.

- | | | | |
|--------|-----|---|--------|
| | 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 Klönne & Müller | |
| | 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) | |
| £4/0/0 | 694 | A biological microscope, Wales form, by Watson | |
| | 695 | Student's microscope by Dancer | 1.10. |
| | 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. |
| | | <i>Another property.</i> | |
| £40 | 701 | Beautifully-made exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila- | 39.18. |

delphia Exhibition, rack rotating mechanical 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, Maltwood finder, frog plate, stage bull's-eye, and a number of other accessories in 2 cases; by Negretti & Zambra; originally cost £300

- 85/ 702 *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*
- ~~85/~~ 703 *Micro spectroscope, rack adjusting slit variable in two directions, removable companion prism, stage and mirror removable*
- 704 *Best quality Ramsden eyepiece, micrometer 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 $\frac{1}{6}$ -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 adjustable crystal holder, and revolving tourmaline in cap*

- 716 A single air-pump with fittings, etc.
- 717 A dumpy level, 1 $\frac{1}{2}$ 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
- 719 Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked)
- 720 Astronomical telescope, 3in. 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
- 724 Portable microscope with rotating stage, fitted with 2 capped eyepieces, objective, camera lucida, live-box, and other fittings ; in mahogany case, by Moginie
- 725 A 3-in. microscope objective by R. & J. Beck
- 726 A 1 $\frac{1}{2}$ -in. and $\frac{1}{4}$ -in. microscope objectives by Hartnack
- 727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case
- 728 A $\frac{1}{2}$ -in. microscope objective, with correction collar, by Ross
- 729 A $\frac{1}{4}$ -in. microscope objective by Powell & Lealand, with correction collar
- 730 A $\frac{1}{4}$ -in. microscope objective, with graduated correction collar, N.A. .76, and fitted with lieberkuhn, by Powell & Lealand
- 731 A $\frac{1}{4}$ -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, 2 $\frac{7}{8}$ -in. lens, and camera lucida, by Powell & Lealand

L^o 4

5.5.

L^o 6

4.15.

- £4 ✓ 734 Student's microscope in case, with fittings by Ross 1.6.
- 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.
- 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
- £8 ✓ 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 4.10.
- 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
- 457 -770 ~~Antique small bone microscope~~ C / 2
- 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, 1in. objective, double nosepiece, eyepiece, condenser; all in mahogany case
- 785 Fine student's microscope by Swift with adjustment 1in. 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, Velosto 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, Velosto 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 1in. 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 × 12cm. 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.

Original
Phone : Gerrard 1824.

Swel
10 Dec 20.
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.

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. Smeal

Date

Dec 1

AUCTIONEERS

Stevens

Lot	Amount			Lot	Amount	
	£	s.	d.		£	s.
699	1-	2-	0			

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, ¾in., ½in. and ⅝in., 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 ¼in., 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- $\frac{1}{2}$ -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 ⅜ 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 measuring 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 outside, 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 spanners, 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 Efanem 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
9/- 402	A small washing machine for blankets
403	Fifteen gramophone records
18/- 404	Sixteen gramophone records
30/- 405	Two expensive vacuum cleaners
11/- 406	A small wringer
26/- 407	A plated hot-water jug, a ditto flask, and a plated kettle stand
8/- 408	One hundred and forty antique copper coins and tokens <i>Count</i>
13/- 409	Box of gold and silver articles, coins, and jewellery
39/- 410	A silver motor clock
50/- 411	A very heavy silver cigar case, beautifully engraved
42/- 412	Heavy silver flask
413	A 14-day ormolu clock, in order
414	A gold expanding wrist watch

- 62g 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
- 1/2 9 419 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
- 6/10/ - 420 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
- 6/10/ - 421 Mahogany pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
- 1/8 422 Oak pedestal gramophone, fitted double spring motor, goose neck, tone arm and sound box
- 1/2 10/ - 423 A Remington typewriter, No. 7, 9-in. roller
- 457- 424 A ditto
- 47/6 425 A Remington typewriter
- 11.95 426 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*
- 40/ 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 adjustments, inclining, with eyepieces and objective, condenser, etc., in mahogany case *2.igs mach*
- 1/2 13 433 A No. 11 Remington typewriter in first class order and condition, fitted 2 colours, backspacer and tabulator
- 434 Expensive pair electric curling irons, complete 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
- 2 1/4 452 Large mandarin necklace with pendant
and drops
- 2 1/2 453 Two ivory necklaces, graduated beads
- 7 5/8 454 Pair Chinese vases, richly decorated in
figure and birds
- 5 0/2 455 A set of 5 vases, 3 with covers
- 2 4/- 456 A carved ivory group of figures
- 2 2 1/2 457 A ditto, ditto
- £ 9 10/- 458 Fur coat with fashionable skunk opossum
collar
- £ 9 1/- 459 A ditto

SCIENTIFIC INSTRUMENTS, &c.

- 460 A student's microscope by Crouch, with 4 0/- ?
2 eyepieces, and objectives, in case
- £ 6 - ? 461 A fine case of optician's eye testing lenses,
by Pickard & Curry (incomplete)

22/ - <i>Low</i>	462	A graphoscope (folding)	
60/ -	463	Sextant, by Schmalcalder, with horizon and 1 $\frac{3}{4}$ lbs. mercury, in brass bound case with lock and key	<i>attention</i>
35/ -	464	Surveying level by Adie, in case with lock and key, and tripod for same	<i>35/ - Court</i>
	465	Surveyor's staff, 3-length, 14ft.	<i>16/ - Court</i>
32/6 <i>Low</i>	466	Prismatic field glass, 8x central focusing and case	
57/10/ - <i>Frankes</i>	467	Monocular microscope by Smith & Beck, mechanical stage, substage condenser, 4 eyepieces, 3 objectives, and 12 other fittings in mahogany case	
15/ - <i>Bronckhurst</i>	468	Special polariscope set for the above microscope	
11/ - <i>Francis</i>	469	Six dozen popular microscope slides, in case	
7/6 <i>Lewis</i>	470	Prismatic binocular, new condition, in case	
20/ - ?	471	Long range taper telescope, in case, 2 eyepieces	
20/ - ?	472	Three ^{one} $\frac{3}{4}$ -in. telescope object glass, in brass mount	
85/ -	473	Large prism binocular telescope by Carl Zeiss	<i>= 5-</i>
5/ - ?	474	Claude Lorraine mirror and sketching board by Steward, Strand	
5/ - ?	475	Corn scales in case, thermometer and compass	
25/ <i>Riches</i>	476	Single lantern by Newton & Co., 4-in. condenser, complete in case	
15/ - ?	477	Seventy coloured lantern slides on Japan, and 25 on India	
14/ - <i>Riches</i>	478	One hundred and ten ditto—many hand coloured—Africa	
11/ <i>McLindrey</i>	479	Fifty-five ditto, coloured Egypt, and 36 others	
7/ - <i>Riches</i>	480	Eighty ditto, coloured, in box	
7/ - <i>Riches</i>	481	Seventy Continental views by Levi, Paris, and 48 others	
32/6 <i>Riches</i>	482	Large quantity of lantern slides (over $\frac{3}{4}$ hundredweight)	
18/ - <i>Williams</i>	483	Two large diameter cinematograph lenses	
15/ - <i>Humbly</i>	484	Three Pathé lantern lenses	
15/ -	485	Two large diameter cinematograph lenses	

- ~~50/-~~ 84/- ? 486 A No. 3 Powell & Lealand microscope, 1 eyepiece, mechanical stage and fine adjustment
 26/- ? 487 A Powell & Lealand student's microscope, 1 eyepiece, and sliding bar stage
 1/6/187 - Reynolds 488 Orthoscopic eyepiece by Zeiss - 9/- Court
 4 1/2/- " 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 1/4-in. objectives, achromatic condenser, polarizer, parabolic reflector, 2 eyepieces, lieberkuhn, live box, camera lucida, etc., in mahogany case 1/- 9/- Sunlops
 17/- Mackell 492 Expensive mechanical microscope stage with double rack and pinion, horizontal motions, and screws for attaching to any plain stage
 10/- Brassey 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
 50/- ? 494 Zeiss prismatic binoculars, 8x, in case
 57/6 ? 495 Zeiss marine binoculars, 6 x 30
 57/6 Harrison 496 Zeiss prismatic binoculars, 6x, in case
 29/- Riches 497 Goerz field glass
 65/- ? 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.
 1/25. Ricard
 40/- Lawley 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/- Court

 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, 1/20. Court

- 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*
- 26/- Grubb 502 An " A " objective by Zeiss
 13/- Hawksley 503 A " C " ditto
 21/- ? 504 An " E " ditto
 45/- ? 505 A " J " ditto
 60/- 4 506 A student's microscope stand by Zeiss, *6/- Cour*
 with eyepiece
- 95/- Bragg 507 Microscope rack coarse adjustment, patent fine adjustment, rack adjusting substage with centering screws, rotating graduated mechanical stage fitted with " B " eyepiece by Ross
- 21/6 in. Ross 508 A 4-in. objective by Ross
 24/- 509 A 1½-in. ditto
 24/- ? 510 A ½-in. objective by Ross, with graduated correction collar and cone front
 26/- ? 511 A ¼-in. objective by Ross with graduated correction collar, can be used either as an immersion or dry
- 21/- Bragg 512 Five odd stages
 1/- Hawksley 513 Three goniometer stages
 514 Pair of " A " capped eyepieces, 1 with indicator, and a " B," " C," " D " and " F " ditto *18/- Cour*
- Brown 515 An " A " eyepiece with adjustable diaphragm, 2 " B " eyepieces, 1 with indicator, and 4 others
- Hawksley 516 Three capped eyepieces with indicators, and 4 others
- Grubb 517 Sphere of clear quartz, 2½-in. in diameter full, mounted on brass adjustable stand
- 7/6 " 518 Four cases of various coloured glass screens for the microscope
- 4- 519 Centering substage fitting, swing out understage, with iris, camera lucida, and other micro sundries *10/- Cour*

- 307- Hopkins 520 Mahogany bodied projection lantern, 4-in. condenser, by Watson & Sons
- 137- Clements 521 A projection microscope fitted with drawing prism and rack adjustment, by Watson & Sons; fits above lantern
- ~~407~~ 522 James' exhibition microscope — 307- Court
- ~~657~~ 523 Student's microscope by Kellner, fitted with eyepiece and objective 557- Cour
- 207 524 Portable microscope and a student's ditto, with objective and eyepiece 207- "
5. 525 Demonstration microscope by Nachet, with extra handle and stand 807- "
- 357- Lewis 526 Student's microscope by Gundlach, rack coarse adjustment, rotating goniometer stage
4. 527 Portable microscope, rack coarse adjustment, in brass case 807- Cour
7. 528 Koristka's large stage microscope 9 X X 807-
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 857- "
- 657 531 Two small youths' microscopes, 1 by Schirck 607- "
- 357- Stayer 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 607- "
16. 534 Giant microscope with adjustable stage, fitted capped eyepiece £ 10 0/0 X X
- 57- McAndrew 535 Revolving polariscope, fitted with a square end prism, $\frac{3}{4}$ -in. by $\frac{3}{4}$ -in. by $1\frac{3}{8}$ -in.
- 757 536 An Amica prism on adjustable stand, and another prism on stand 607- Cour
- 357 537 A prism with circular faces, 2-in. diameter, on adjustable brass stand 407- Sect
- 307- Brinkley 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
- 267- Hollway 539 Polariscope, and 4 nicol prism analysers

1/ - Young	540	Bull's-eye stand condenser with ball and socket movements, lens $2\frac{1}{2}$ -in. in diameter	
6/- - ?	541	Gas micro lamp, and another	
65/-	542	An expensively mounted drawing prism by Nachet, on rack adjusting stand	65/- - Zone
5/-	543	A microscope of unusual design, rack coarse adjustment, fitted with eyepiece, objective and stage bull's-eye, by Morrau, Paris	60/- - Court
27/6 Mackey	544	Student's microscope, rack coarse adjustment, fitted with eyepiece, by Anderson	
90/-	545	Two dissecting microscopes	50/- - Court
10/-	546	An expensively made reading microscope on stand, by Weston, Rostock	90/- - "
Handley	547	Projection microscope	
10/-	548	Universal microscope with tricolour and binocular bodies, by Beck	£5. - Court
12/-	549	Ten various stages	10/- - Court
50/- - Julep	550	Abbé's hemisphere puzzle plate in brass frame, and a defraction plate in brass mount by Zeiss ; 3 astrosopes, a defraction apparatus by Tisley, and a defraction plate by Zeiss (faulty)	
26/-	551	A set of 3 swing-out Darker selenites, and a reflecting polariscope	
12/-	552	Rack centering substage, fitted with achromatic condenser	
25/- Mackey	553	Kellner achromatic eyepiece, another with indicator, high power ditto by Beck, and 3 others	
1/-	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	47/6 - King
4/-	556	Student's microscope with mechanical stage, by Pritchard	45/- - Court
5/-	557	Small binocular microscope by Nachet	70/- - "
9/-	558	Microscope for showing the effects of high pressure, by Ducretet, Paris	7/7/- - "

4.	559	Petrological microscope with nicol prism polariscope and goniometer eyepiece, fitted with analysing prism	90/- Beck
20/- Cr	560	Two youths' microscopes —	20/- Court
20.	561	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	£16 Court
8. 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	£9. Mercott
22/- ?	563	Objective by Nobert, and 3 others	
	564	3. Four microscope objectives	
	565	Five odd size objectives —	7/- Court
8/- Brown	566	Twenty small magnifying non-achromatic single powers	
5.	567	Demonstration microscope by R. & J. Beck	80/- Court
4.	568	Trichina microscope compressor, microscope with extra large glass stage	40/- "
	569	Three special magnifiers, 3, 6 and 10, by Reichert	
45/- Shear	570	Watson's modification of Mackenzie's removable swinging substage, and a mounted mirror	
	571	Bramhall's illuminator, and 3 paraboloids	
35/- Bunkle	572	Gundlach's illuminator and 5 other substage illuminators	
45/- Bunkle	573	Ten various substage illuminators	
	574	Superstage with mirror, mounted illuminator, and 3 others	8/- Court
30/- ?	575	Four vertical illuminators	
	576	A binocular illuminator, superstage, and 2 silver side reflectors	14/- Court
35/- Bunkle	577	Binocular eyepiece (Tolles), by Ladd; tubes separated by pins travelling in spiral slots	
18/- Bunkle	578	Hot stage in case	
50/-	579	Spherometer by Dollond	10/- Court

5-	580	Microscope with rack coarse adjustment, by Gaubert, Paris	40/- Court
4/- Court	581	Portable microscope by Murray & Heath, fitted with eyepiece and objective, and another	18/- Court
12/-	582	Demonstration microscope with eyepiece objective and condenser	
	583	Portable dissecting microscope with powers and apparatus, and another	
85/-	584	Three dissecting microscopes	16/- ?
85/-	585	Three small dissecting microscopes	50/- Court
	586	Three ditto	20/- Court
57/- King	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 Court XXX
9/-	589	Elaborately constructed microscope, fitted with 3 various powers and universal movements	90/- Court
50/-	590	Koch and Maxwol's patent reflecting microscope lamp, and 2 lamps with bull's-eye stand condensers	35/- Court
11/- ?	591	Expensively mounted dissecting lens with ball and socket movements, on stand	
Sp. H. Cooke	592	Three small dissecting lenses on stands	
Baker	593	Copper oven for cultivation of bacteria, and stand	
60/-	594	Utzmann's saccharometer eyepiece, by Reichert	£3/3/- Baker
65/-	595	Therry's hand spectroscope	42/- Court
	596	Bent body tube and a right angle prism	20/- Court
	597	Microscope with eyepiece, by Plossel	40/- Court
	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 Court
7/-	599	Ahrens' binocular microscope, mechanical stage, fitted with a pair of eyepieces and objective	£7 Court

- 757- 600 Oculist's microscope by Nachet, and triple objective 857- Gov
- 601 Student's microscope, rack coarse adjustment, and another 12 point
8. 602 Microscope by Plossel, and another by Pritchard £5- Cow
- 757- 603 Demonstration microscope fitted with eyepiece and condensing lens, and 2 others 40/ Court
- 357- 604 A Ramsden micrometer eyepiece, fitted to draw tube, and a dissecting lens with 3 powers on stand 40/- Blaker
- 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 "Herculis" 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

- ✓ 623 Burch's reflecting micrometer, a stage micrometer (millimetres) by R. & J. Beck, and two others
 18/- Baker 624 Micrometer stage
 625 Beck's Krato meter eyepiece, and an eyepiece with an adjustable slit
 60/- 626 Four micro photographic fittings, and a mounted lantern condenser 8/- Court
 ✓ 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/- Court
 7/- 629 Kuhn's chemical microscope for high pressures, fitted with square-ended nicol prism and analyser special objective, eyepiece and condenser £7/7/- Baker
 ✓ 630 Expensive calliper reading microscope with eyepiece and objective, by Meisner, Berlin
 75/- 631 Solar microscope of unusual design 30/- Court
 632 A student's microscope by Klon & Muller, and another fitted with eyepiece and objective 42/- Baker
 16/- Court 633 Three student's microscopes, fitted with eyepieces and objectives 16/- Court
 8/- ? ✓ 634 Microscope, incomplete, and another
 40/- 635 Two student's microscopes 16/- Court
 12/- 636 Projection microscope by John Browning, with rack adjustment
 90/- 637 Antique projection microscope with fittings, in case 25/- Court
 50/- 638 Youth's microscope with fittings, in case 18/- Court
 4/- 639 James' exhibition microscope 40/- Court
 35/- 640 Eight exhibition slides, including a fine specimen of the scarce fairy fly 24/- Court
 641 Twenty opaque and transparent slides 5/- Wolfe
 35/- 642 A microscope in the form of a seal 20/- Court
 75/- 643 A curious projection microscope, and four various fittings 47/6 "
 644 A polished mahogany fitted microscope cabinet, containing live box, vial holder, stage forceps, objectives, and other fittings 45/- Court

6. 645 Warrington's portable microscope with 40/- lens
objective, and other fittings, in case
757. 646 An old projection microscope, and part of 60/- lens
another
- 18/- Court 647 Warrington's portable microscope with
eyepiece
- 657 648 Matthew's portable microscope with ob- 45/- lens
jective eyepiece, and a few fittings, in
case
- 10/- Day 649 An aquarium microscope, and another
- 8/- ? 650 A projection microscope with rack adjust-
ment, and a spectroscopy stand
6. 651 A double-bodied microscope, by Nacet 5/- Court
- 42/- Reynolds 652 Abbé's apertometer by Zeiss
- 757-653 Curious wooden microscope, and another 40/- "
- 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
- 32/6 2/4 - ? 665 Three substage condensers, 1 by Powell,
and 2 by Ross
8. 666 Expensively made microscope with rack 8/- Court
adjustment, graduated fine adjustment,
by Ross
- 667 Binocular magnifier by Beck, on stand

- 668 Student's microscope with eyepiece and objective, and a small dissecting microscope
- 7- ? 669 Expensively made micrometer stage with rack movements and reading by Vernier
- 757- 670 Two expensive hot stages, and a spirit lamp 60/- Court
- 671 A triple nosepiece, a substage superstage, and 2 pairs of safety rings
- 357-Court 672 Dr. Matthew's calliper eyepiece, "B" eyepiece with 2 indicators, "C" eyepiece with indicator, and 2 others
- 7-McCray 673 Four microscope stages
- 8-Court- 674 Stand for dissecting microscope by Beck, and a ditto by Chevalier fitted with a power
- 557- ? 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 $\frac{1}{9}$ Court
- 27- Grace 677 A stand with rack adjustment for dissecting microscope, by Powell & Lealand, and another
- 157-Ring 678 Demonstration microscope with eyepiece, and 2 others
- 757- 679 A portable microscope by Nachet, in case, with eyepiece and 2 objectives 84/- Court
- 27-Baker 680 Student's microscope, rack coarse adjustment, fitted with eyepiece, by Bausch & Lomb
- 61- " 681 Dissecting microscope by Chevalier, fitted with Brucke lens
- 127- ? 682 Eight various eyepieces
- 7-Court- 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 $\frac{1}{6}$ £5 Court

- 37/6 - *Andrus* 685 Kaleidoscope in case, stand for dissecting lens with ball and socket movements, another stand, and a small microscope
- 40/ - *Angus* 686 Student's microscope by Siebert with eyepiece and objective, and another with eyepiece
- 80/ - 687 Small binocular microscope - 42/ - *Court*
- 12/ - *Baker* 688 Two dissecting microscopes, and another by Zeiss, with power
- 14/ - *Vicker* 689 Student's microscope, and an antique ditto
- 12/ - *Baker* 690 Expensively made dissecting microscope with rack adjustment, by Klönne & Muller
- 21/ - *Court* 691 Student's microscope, rack coarse adjustment, with eyepiece, by Powell & Lealand
5. 692 Microscope of unusual form supported by monkey, and 2 others 60/ - *Court*
- 30/ - *Wacker* 693 Bacteriological microscope, rack coarse adjustment, by Zentmeyer (glass of stage broken)
- 32/6 - ? 694 A biological microscope, Wales form, by Watson
- 80/ - 695 Student's microscope by Dancer 30/ - *Court*
- 13/ - *Angus* 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 30/ - *Court*
- 20/ - ? 698 Two mahogany microscope cases containing a graduated microscope tube, and other sundries
- (22/ - 45/ - 699 Microscope case containing spot lens, small substage with diaphragms, and large lieberkuhn, etc.
- 50/ - ~~45/~~ 700 Ten hand glasses and pocket magnifiers, and other sundries in case 24/ - *Court*

Another property.

45. 701

Beautifully-made exhibition binocular microscope, the actual instrument that gained the 1st Class gold medal Phila-

?
38.9
Court

delphia Exhibition, rack rotating mechanical 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, Maltwood finder, frog plate, stage bull's-eye, and a number of other accessories in 2 cases ; by Negretti & Zambra ; originally cost £300

857-702

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,gs
L. Jones

- 703 Micro spectroscope, rack adjusting slit variable in two directions, removable companion prism, stage and mirror removable
- 704 Best quality Ramsden eyepiece, micrometer 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 2in. 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 adjustable crystal holder, and revolving tourmaline in cap

- 124-Macray 716 A single air-pump with fittings, etc.
- 171- " 717 A dumpy level, 1 $\frac{1}{2}$ in. object glass, and 2 levels, by Yeates
- 327-Mercatt 718 A large photographic lens with arrangements for diffusion of focus, by McLean and Melliush, London ; in case
7. 719 Beautifully-made antique 18th century chemical balance, in mahogany Chippendale case, with 2 levels, weights, etc., in drawers (glass cracked) *590*
- 720 Astronomical telescope, 3in. object glass, eyepiece and sun cap ; no stand
- 207-Benjamin* 721 Powerful 3-draw telescope and brass stand for same, to screw into tree or window frame
- 1107-Baker* 722 Microscope object cabinet, with mahogany glass-fronted door, to hold 1000 slides, flat
- ~~407-Court~~ 723 Antique mahogany-fronted specimen cabinet, of 6 drawers, cut-glass knobs
- 457-Grace* 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 *957-Court*
- 111- ?* 725 A 3-in. microscope objective by R. & J. Beck
- 157-Vickery* 726 A 1 $\frac{1}{2}$ -in. and $\frac{1}{4}$ -in. microscope objectives by Hartnack
- 307- ?* 727 A 1-in. best quality microscope objective by Powell & Lealand, with lieberkuhn ; in case
- 728 A $\frac{1}{2}$ -in. microscope objective, with correction collar, by Ross
- 187- ?* 729 A $\frac{1}{4}$ -in. microscope objective by Powell & Lealand, with correction collar
- 197-Hawkins* 730 A $\frac{1}{4}$ -in. microscope objective, with graduated correction collar, N.A. .76, and fitted with lieberkuhn, by Powell & Lealand
- 157-* 731 A $\frac{1}{4}$ -in. microscope objective, graduated correction collar in case, by James Smith
- 267- ?* 732 Portable microscope, eyepiece, a double objective, live box, etc., in case, by Crouch
- ~~211-~~ 733 Bull's-eye stand condenser, 2 $\frac{7}{8}$ -in. lens, and camera lucida, by Powell & Lealand *Hawkins*

87- 734 Student's microscope in case, with fittings by Ross 26/- Cour

87- ? 735 Bull's-eye stand condenser by Watson, and mineral holder by Beck

87- ? 736 Graduated draw-tube with capped eyepiece and erector, by Beck ; and a number of other sundries, in fitted mahogany case

6. 737 L2. Antique wooden microscope, and another antique microscope £1.15 75/- Cour

157- ? 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

147- ? 746 Rectangular concave mirror $8\frac{1}{2}$ in. by $6\frac{1}{2}$ in., in silk-lined morocco case, by Carpenter & Westley

8. 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 90/- Cour

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

14) - Anderson

- 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
- 751 770 Antique small bone microscope - 22/- Court.
- 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, 1in. objective, double nosepiece, eyepiece, condenser; all in mahogany case
- 785 Fine student's microscope by Swift with adjustment 1in. 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, Velosto 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, Velosto 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 1in. 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
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EVERY FRIDAY a Sale is held which includes Microscopes, Telescopes, Cameras, Lenses, Lanterns, 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.

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