

The following transcriptions were made by permission of the Museum of the History of Science, University of Oxford. They were selected from a bound collection of xerox copies of twenty auction sale catalogues dated between 1769 and 1795, in the museum library, accession number 1966-132.

For a discussion of these documents, see his two-part paper 'Private Instrument Collections Sold at Auction in London in the Late 18th Century', *Bulletin of the Scientific Instrument Society*, 95 (2007), 28-36 (Professional Practitioners and Gentlemen-Collectors), and 100 (2009), 27-35 (Instrument Makers and Watchmakers).

There are transcriptions from 14 sale catalogues, arranged in chronological order:

James Short, instrument maker, 1769
John Urings, instrument maker, 1773
William Ludlam, mathematical practitioner, 1788
William Russell, amateur astronomer, 1790
Edward Ellicott, watchmaker, 1791
Henry Pyefinch, instrument maker, 1791
Nicholas Meredith, instrument maker, 1793
John Smeaton, civil engineer, 1793
"A Gentleman", 1793
Samuel Dunn, mathematician, 1794
William Boyse, surgeon, 1794
"Two Scientific and Mechanical Gentlemen", 1794
John Field, instrument maker, 1795
Hurter and Haas, instrument makers, 1795

James Short, 1769

A catalogue of the large and valuable stock of the well-known and ingenious Mr. James Short, F.R.S., late of Surry-Street, in the Strand, deceased; consisting of a great number of curious telescopes, transit instruments, and speculums; an astronomical regulator, by Graham; divers microscopes, and other instruments; which will be sold by auction, by Mr. Langford and Son, at their house in the Great Piazza, Covent-Garden, (by order of the executors), on Wednesday and Thursday the 5th and 6th of April 1769 [...]

6 pages (first day of the sale only), 80 lots. No prices or names of buyers.

Note: A complete copy of this catalogue, without prices or names of buyers, is in the Senate House Library, University of London. It is bound together with eleven other pamphlets (no auction sale catalogues) in a volume, shelfmark [De M] M (B.P. 14), entitled on the spine 'Scientific Tracts, 1749-69', from the library of the mathematician, logician and historian of mathematics, Augustus de Morgan (1806-1871). A transcript of pages 7-10 from this copy is given below, with kind permission of Senate House Library, Special Collections.

Page 3:

First Day's Sale. Wednesday, April 5, 1769

Lot

- 1 A Mercurial thermometer, adapted to the scales of Fahrenheit and Reaumur, by H. Prins of Amsterdam
- 2 A mercurial thermometer, by Bird
- 3 A spirit thermometer, by Sisson
- 4 A diagonal barometer, and spirit thermometer
- 5 A brass scale of equal parts, forty-two inches long, by Sisson
- 6 A brass scale of equal parts, and a beam compass, by Bird
- 7 A microscope, with objects belonging to it
- 8 A beam compass, and a compass for drawing an ellipsis
- 9 A proportional compass, by Sisson
- 10 A case of instruments, and two small pocket ditto
- 11 A pocket compass
- 12 A pocket spirit level
- 13 A spirit level, without a frame, and an instrument for trying a spirit level

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- 14 A three-feet refracting telescope, by Dollond
- 15 A portable refracting telescope, by Dollond
- 16 A pocket reflecting telescope
- 17-21 A ditto (5x)
- 22 A four inch reflecting telescope
- 23 A seven-inch ditto, with its apparatus
- 24-27 A seven-inch ditto (4x)
- 28-29 A nine-inch ditto (2x)

- 30-32 A twelve-inch ditto (3x)
33-34 An eighteen-inch ditto (2x)
35 A two feet ditto, with a micrometer, and all its apparatus complete, also a Newtonian apparatus
36 A two-feet ditto, with its apparatus

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- 37 A two-feet ditto
38 A two and a half feet ditto, without stand, or rackwork
39 A two-feet equatorial telescope complete
40 A reflecting microscope
41 A ditto
42 An eighteen-inch reflecting telescope, made to screw in pieces
43 An eighteen-inch ditto, without a stand
44 An eighteen-inch ditto, with its apparatus
45-46 An eleven-inch ditto (2x)
47 A twelve-inch ditto, with its apparatus
48 A nine-inch Newtonian telescope, with its apparatus
49 A four-inch reflecting telescope
50 A four-inch ditto
51 A set of speculums, viz. a great speculum 12 inches diameter and 10 feet 10 inches focus, with four small speculums
52 Ditto: great speculum 9 inches diameter and 4 feet 1 inch focus, with three small speculums
53 Ditto: great speculum 6 inches diameter and 3 feet focus, with two small speculums
54 Ditto: great speculum 5 inches diameter, and 2½ feet focus, with two small speculums

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- 55 A set of speculums: great speculum 5 I. diam. 2 F. foc. with 1 small speculum
56-58 Ditto (3x)
59 Ditto: great spec. 4½ I. diam. 2 F. foc. with 1 sm. spec.
60 Ditto
61 Ditto: great spec. 5 I. diam. 18 I. foc. with 1 small spec.
62 Ditto: great spec. 4½ I. diam. 17 I. foc. with 1 small do.
63 Ditto
64 Ditto: great spec. 4 I. diam. 17 I. foc. with 1 small spec.
65-68 Ditto (4x)
69 Ditto: great spec. 2½ I. diam. 9 I. foc. with 1 sm. spec.
70-75 Ditto (6x)
76 Four great speculums, of 17, 12, 9 and 4 inches focus
77-78 Four ditto (2x)
79 Four ditto, of 17, 12, 6½ and 4 inches focus
80 Four Ditto

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Second Day's Sale, Thursday, April 6, 1769

- 81 Four great speculums, of 17, 12, 6½ and 4 I. foc.
- 82 Four ditto, of 15, 12, 6½ and 4 ditto
- 83 Three ditto, of 12, 12, and 6½ ditto
- 84-85 Three ditto (2x)
- 86 Two ditto, of 12 inches focus
- 87 Two ditto
- 88 A set of speculums: great speculum 1 3/8ths. I. diameter, 4 inches focus, with 1 small speculum
- 89 Ditto: great spec. 2½ I. diam. 9 I. foc. with 1 small spec.
- 90-95 Ditto (6x)
- 96 Ditto: great spec., 4 I. diam. 17 I. foc. with 1 small spec.
- 97-99 Ditto (3x)

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- 100 A set of speculums: great speculum 4 inches diam. 17 inches focus, with 1 small speculum
- 101 Ditto: great spec. 4½ I. diam. 18 I. foc. with 1 small spec.
- 102 Ditto
- 103 Ditto: great spec. 5 I. diam. 18 I. foc. with 2 sm. spec.
- 104 Ditto: great spec. 4½ I. diam. 2 F. foc. with 1 sm. spec.
- 105-110: Ditto (6x)
- 111 Ditto: great spec. 6 I. diam. 2 F. foc. with 2 small spec.
- 112 Ditto
- 113 Ditto: great spec. 7½ I. diam. 4 F. 1 I. foc. with 3 ditto
- 114 Ditto: great spec. 9¼ I. diam. 6 F. 2 I. foc. with 3 do.
- 115 Ditto
- 116 A spirit level
- 117 Ditto
- 118 A theodolite complete, by Adams
- 119 A portable observatory by Sisson, being a quadrant, equal altitude instrument, azimuth, &c. combined
- 120 An astronomical regulator, by Graham

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- 121 A reflecting transit instrument of a new combination
- 122 A refracting transit instrument, with its apparatus
N.B. This is the instrument which Mr. Short generally made use of
- 123 An equal altitude instrument
- 124 A set of speculums for a Newtonian telescope, 7 feet focus, 7¾ inches diameter
- 125 A reflecting telescope of five feet four inches focal length, with its apparatus
N.B. This is the telescope which Mr. Short generally made use of
- 126 A two-feet reflecting telescope, with its apparatus
- 127 Ditto

128 Ditto, without the stand
129 An eighteen-inch ditto, ditto
130 A seventeen-inch ditto, with its apparatus
131 An eighteen-inch ditto, ditto
132 A twelve-inch ditto
133 Ditto
134 A nine-inch ditto
135-137 Ditto (3x)
138 An eleven-inch ditto

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139 A seven-inch reflecting telescope, with its apparatus
140 Ditto
141 A six-inch ditto
142 A five-inch ditto
143 A four-inch ditto
144 A nineteen-inch ditto, without the stand
145 A micrometer, with its eye-piece for a large refractor
146 A ditto, smaller
147 A ditto
148 A four-feet refracting telescope
149 Sundry opera-glasses and spying-glasses
150 Sundry unfinished parts of instruments

FINIS

John Urings, 1773

A catalogue of all the large and valuable stock in trade, of Mr. John Urings, deceased; at his late house, No. 174, in Fenchurch-Street, one door from the corner of Gracechurch-Street; consisting of a great variety of mathematical, philosophical and optical instruments, together with all the working-benches, working tools, moulds, patterns, &c., also a variety of unfinished work, and a quantity of ivory, black ebony, box, and mahogany woods, with some brass, copper, &c. In the first day's sale [...] will be sold the unexpired term in the lease of the above good dwelling house and shop; and on the last day all the neat and genuine houshold furniture, china, linen &c. together with a few lots of very fine foreign prints, by the best masters. Which will be sold by auction by T. Aldersey, and S. Martin, by order of the administratrix, on the premises, on Wednesday the 16th Instant and the three following days [...] N.B. The lots are divided to suit any private Persons, and also for the Trade.*

** suit: the beginning of the word is illegible, it may be "wit" but only "suit" seems to make sense*

14 pages, 284 lots (fourth day missing, and third day incomplete). No prices or names of buyers. The year is not mentioned on the title page, but it is on the individual day sales.

[Page 3]

A / CATALOGUE / FIRST DAY'S SALE

Wednesday, June 16, 1773.

Lot

- 1 Thirty-six pair of temple spectacles
- 2 Twenty-eight pair of ditto
- 3 Some plates of dark glass, at [blank] per lb.
- 4 Thirty hour and minute glass
- 5 Fourteen half minute ditto filled with metal
- 6 A 6 inch celestial globe in a mahogany frame
- 7 Two brass stands for 3 inch globes
- 8 A pair of 3 inch globes mounted on brass stands
- 9 A 3 inch pocket globe in a fish skin case, and a 6 inch convex glass mounted in brass
- 10 Seven dozen of penknives with mettles handles
- 11 Three hundred bolt rope needle, 300 tabling ditto, 500 flat seams, and 50 large bolt rope ditto
- 12 Three hundred bolt rope needles, 2000 flat seams ditto, 400 tabling ditto, 500 of old work ditto
- 13 Three dozen and a half of temple spectacles in a mahogany box
- 14 Five of Davis's quadrants made of green ebony
- 15 Seven black ebony quadrant of Davis's, and 2 pear tree ditto

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- 16 A 1 foot black ebony quadrant of Hadley's

- 17 An 18 inch brass quadrant
- 18 A 2 foot black ebony ditto
- 19 A 12 inch with brass arch and Nonius's black ebony quadrant
- 20 A ditto ditto
- 21 A 12 inch ivory arch black ebony quadrant
- 22 A mahogany sextant with ivory arch and telescope sight
- 23 A double barrel air pump with apparatus
- 24 A single barrel air pump with apparatus
- 25 A large barometer in a mahogany frame
- 26 A ditto with a spirit of thermometer
- 27 A 6 inch square brass sun dial, 1 brass Sutton's quadrant, 1 Gunter's box ditto, and 4 box nocturnals
- 28 Six small pocket Wilson's microscopes
- 29 One magazine case of instruments, brass parrallel ruler and sector, &c &c.
- 30 Five small brass ring dials, and 1 hydrometer in brass
- 31 One 9 inch ring dial
- 32 Five Wilson's microscopes out of cases not glaz'd
- 33 A 2 foot rack work reflecting telescope, not metaled
- 34 A 9 inch ditto metaled
- 35 A 1 foot ditto metaled
- 36 A 1 foot reflector, nourse-skin tube, not metaled
- 37 A 6 inch pocket reflector metaled
- 38 A 9 inch ditto metaled
- 39 A 3 pillar'd microscope in a mahogany case
- 40 Four Miner's compasses and 7 camera obscura boxes
- 41 A circumferentor with a staff ball and socket
- 42 Four magnifying dark lanthorn and 3 bulls eyes
- 43 Six 3 foot mahogany sticks, achromatic mounted, not glaz'd
- 44 Seventy-four concave glasses mounted in horn and tortoiseshell
- 45 Five small spying glasses of different sizes
- 46 A 15 inch convex glass
- 47 A 15 inch concave ditto
- 48 A 10 inch concave mounted on a stand
- 49 Six 3 foot sticks mounted, not glaz'd
- 50 A large pair of steel canupers [sic]
- 51 Six dozen rules of different sorts and sizes
- 52 Six dozen rules of different sorts
- 53 Twenty-six brass acorn microscopes
- 54 Twenty-five convex len[s]es

Page 7 [should be 5]

- 55 Two dozen oval mirrors, and 3 dozen and a half reading glasses
- 56 Thirty mirrors of different sizes
- 57 Eleven steel nose spectacles
- 58 Thirty-six doz. of different glasses, magnifyers, &c &c.
- 59 Twelve 3 foot mahogany sticks not mounted

- 60 A 6 glass 5 foot telescope, green nourse skin
- 61 A 3 foot green nourse skin 6 glass telescope
- 62 Eleven mahogany spying glasses
- 63 A 6 glass 12 inch camp stick
- 64 Six camp sticks glaz'd of 6 and 4 glasses
- 65 Four pair of parallel rulers, and a brass ruler and sight
- 66 A 3 foot Dolland's glass telescope
- 67 A 3 foot brass telescope with 4 glasses
- 68 A hydrometer for proving of spirits in a tin case with weights
- 69 A 2 foot 6 glass green nourse skin telescope
- 70 Six nourse skin telescopes, 3 feet and 2 feet – 6 glass and 4 glass
- 71 A pair of 12 inch globes on stands
- 72 An electrical machine in a mahogany box
- 73 A silver key'd german flute
- 74 Two ditto
- 75 Two brass key'd german flutes
- 76 Two speaking trumpets
- 77 A large camera wainscot box, with several magick lanthorns, prints in the frames, and 1 brass protractor and parallel ruler
- 78 Six magnifying glasses in cocus and ivory frames
- 79 Forty acorn microscopes in brass, ivory, and wood, with 4 cloth linen provers
- 80 Thirty large reading glasses in horn frames
- 81 One 9 inch plate glass electrical machine with some apparatus
- 82 An equatic [sic] microscope with the apparatus
- 83 Four Wilson's large pocket microscopes
- 84 A double bodied microscope in a fish skin case with apparatus
- 85 Four box lectures, 6 protractors, 1 brass parallel ruler, 2 scales, and 2 squares, all brass
- 86 A 2 foot mahogany night telescope
- 87 An 18 inch reflecting telescope metaled
- 88 A double barr'd Cuff microscope
- 89 A scioptic ball or artificial eye
- 90 An 18 inch black fish skin tube reflecting telescope

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- 91 A solar microscope in a mahogany box with the apparatus
- 92 A double bodied microscope on a stand
- 93 An electrical machine cylinder glass in a mahogany box
- 94 Twelve ivory rules of different sorts
- 95 A large plate electrical machine with a mahogany box and apparatus
- 96 Five ivory sectors, one French jointed, 6 ivory scales, 2 ivory ditto with protracting scale on them
- 97 An anamorphosis, or metal, with 5 distorted prints
- 98 Fourteen dozen of best black lead pencils
- 99 A proportional compass in a fish skin case
- 100 Five opera nourse and fish skin glazed
- 101 Twelve ditto

- 102 Five large nourse and fish skin operas
- 103 Two operas mounted in silver
- 104 Seven thermometers with box and ivory scales

BOOKS

- 105 Twenty-two Falck's Ready Observator
- 106 Eight Dutch Navigation Books, and four Mariners Guides
- 107 A machine for viewing of prints and 6 perspective prints
- 108 Six achromatic operas in brass and nourse skin
- 109 Eleven pair of the best spectacles
- 110 A 9 inch brass reflector without a stand
- * One Hundred of Hadley's Quadrant
- * Ditto (4x)

End of the First Day's Sale.

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SECOND DAY'S SALE.

Thursday, June 17, 1773

- 111 Six mahogany barometer frames
- 112 Two ditto with black ebony beads and brass
- 113 One dozen 3 foot round sticks, a parcel of maps and charts
- 114 Two dozen and a half of 3 foot mahogany sticks, not planed up
- 115 Seven four foot mahogany sticks, 1 doz. and a half of 2 foot ditto, eight 12 and 9 inch ditto, and one night stick
- 116 Three doz. of 3 foot mahogany sticks, 1 doz. of 9 inch ditto
- 117 A double bodied microscope in a fish skin case
- 118 A double bodied microscope in a mahogany case
- 119 Three flutes, one of them silver key'd
- 120 A pair of 3 inch globes mounted on brass stands
- 121 One zograscope for viewing prints, with 6 perspective prints
- 122 Two hydrometers, or brandy provers, in tin cases, with weights
- 123 A cylinder for viewing distorted prints
- 124 A pair of 6 inch concave glasses, mounted on brass rims, &c.
- 125 A pair of 5 inch concave glasses mounted in brass, and 1 pair of 4 inch mounted in wood
- 126 An 8 inch and a half concave glass in a wood frame, gold bead

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- 127 Four concave and convex glasses in frames, wood and brass – 6 and 5 inch
- 128 Sixteen ivory rules of different sorts
- 129 Two French joint sectors, 5 common ditto, and 9 scales, all ivory
- 130 Fifteen doz. and a half of spectacle eyes
- 131 One small zograscope for viewing prints with 6 prints
- 132 Two large Wilson's pocket microscopes with all the apparatus

- 133 Two ditto
- 134 Two ditto in mahogany boxes
- 135 Three silver key'd flutes
- 136 Twenty-five reading glasses in horn mounted
- 137 Three tortoiseshell reading glasses with metal rim'd
- 138 Two pair of proportion compasses in fish skin cases
- 139 A 3 pillar double bodied microscope
- 140 A 3 foot 6 glass nourse skin telescope
- 141 Four 2 foot 4 glass nourse skin telescopes
- 142 Two 2 foot 4 glass ditto
- 143 Three nourse skin telescopes, not glazed
- 144 Three 4 foot 4 glass black fish skin telescopes
- 145 Two 3 foot 4 glass ditto
- 146 Three small 4 glass ditto
- 147 Six dozen of box rules Sliding Gunter's, &c. different rules
- 148 Four dozen and a half box rules of different sorts and sizes
- 149 Ten gauging rods
- 150 Two pocket Wilson's microscope
- 151 Two ditto
- 152 Two ditto
- 153 ditto
- 154 A black ebony sextant, ivory arch, brass side plates
- 155 An 18 inch brass Hadley's quadrant mounted
- 156 A mahogany quadrant, ivory arch
- 157 A black ebony 16 inch quadrant, brass side plate
- 158 An 18 inch brass arch mahogany quadrant
- 159 A common Hadley's quadrant, second hand
- 160 An 18 inch reflecting telescope metaled
- 161 A large 3 foot reflecting telescope metaled, with a fine carved mahogany stand
- 162 A large barometer and thermometer in a mahogany frame
- 163 A ditto

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- 164 A 15 inch convex glass
- 165 A 12 inch ditto
- 166 A 10 inch ditto
- 167 A 3 pillar double bodied microscope
- 168 An 8 inch concave glass, 2 small concave and convex, with 2 horse shoe magnets, and a brass ruler and sights
- 169 An electrical machine in a mahogany case with apparatus
- 170 An 18 inch reflecting telescope metaled
- 171 An electrical machine in a mahogany box with apparatus
- 172 A 3 foot 6 glass mahogany telescope
- 173 Six 3 foot achromatic mounted mahogany sticks, all glazed
- 174 Six common 4 glass mahogany sticks glazed
- 175 A 6 foot 1 joint green painted stick, 5 glasses, in a case

- 176 Four 3 foot 4 glass mahogany common sticks glazed
- 177 Two 3 foot 6 glass mahogany telescopes
- 178 Four common 3 foot mahogany sticks not glazed
- 179 Three 2 foot 6 glass mahogany sticks not glazed
- 180 Three dozen box rules of different sorts
- 181 A zograscope with 6 prints
- 182 A 9 inch ring sun dial, a horse shoe magnet, a round protractor, and 3 small pocket compasses in turn'd brass boxes
- 183 A pocket reflector 9 inches long, metaled, with a pillar and stand, black fish skin tube, in a mahogany box
- 184 A 1 foot reflecting telescope with a mahogany case, metaled
- 185 An electrical machine in a mahogany box, cylinder glass, with apparatus
- 186 Twelve operas nourse and fish skin
- 187 Ten ditto
- 188 Two nourse skin operas silver rim'd with dy'd ivory
- 189 One large nourse skin opera, silver rim'd and dy'd ivory, with 2 small operas
- 190 One large nourse skin opera, silver rim and dy'd ivory, with 2 small fish skin operas
- 191 Two nourse skin operas, silver rim and dy'd ivory, with 2 small fish skin ditto

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- 192 Four brass operas achromatic mounted, not glazed
- 193 Four large nourse skin operas achromatic, not glazed, mounted with brass covers for the object ends
- 194 Three achromatic brass operas, glazed compleat
- 195 Three ditto
- 196 Six brass operas not glazed, achromatic mounted
- 197 Six ditto
- 198 A pair of silver spectacles with a nourse skin silver swaged case, 2 pair of steel temple spectacles in japan'd cases, and 4 magnifyers in brass rims
- 199 Six brass operas not glazed, achromatic mounted
- 200 Two operas, brass and nourse skin, not glazed, achromatic mounted
- 201 A large copper condencer for weighing of air, and a brass hanging compass
- 202 A double silver swaged nourse skin case, 4 inches and a half, with silver instruments and ivory scale
- 203 A 3 foot 6 glass mahogany telescope Dollond's glazed
- 204 A 4 inch and a half nourse skin case of instruments, ivory scale, double silver swadged case
- 205 A 6 inch full case of instruments, brass parallel ruler, French joint, sector, &c nourse skin case, single silver swadged
- 206 A 6 inch silver swadged case of instruments, ivory scale, nourse skin case
- 207 A reading glass wrought tortoiseshell, mounted in silver, 3 inches and a quarter long
- 208 Two reading glasses, 1 pearl and silver, the other tortoiseshell, 3 inches, and 3 inches 3-quarters long
- 209 Six pair of nose spectacles, tortoiseshell rims, with 2 tortoiseshell concave eye glasses

- 210 Two reading glasses, pearl and silver, and tortoiseshell and silver, the first 3 inches, and the other 2 inches and 3 quarters long
 211 Twenty-two dozen of temple spectacles, with paper cases
 212 Five dozen paper opera cases, 1 dozen paper cases for instruments
 213 Twelve dozen of the best black lead pencils with 20 brass caps, and a parcel ivory ditto

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- 214 A jack, ensign and penant, the ensign 8 yards long, 15 narrow breadths, the jack 5 yards long and 10 narrow breadths, and the pendant 12 yards long
 215 A large scarlet ensign
 216 Eleven boat colours of different sorts and sizes
 217 A parcel of new paintings, crimson, blue, white, at [blank] per yard
 218 Eighteen operas of different sorts, some diagonals
 219 Forty-three brass turn'd compass boxes
 220 A parcel of odd work, and 2 dozen visual glasses, opera glasses, pocket reflectors, &c &c.

End of the Second Day's Sale.

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THIRD DAY'S SALE.

Friday, June 18, 1773

- 221 Six ivory French joint sectors not finished, 3 ditto, plain joint six 4 feet folding gauging Rods, not finished, six sliding Gunters, one foot long, six ivory thermometer's scales not divided.
 222 Thirty unfinished 12 inch sliding rules, 56 ditto parallel ruler-bars, 15 box sectors, 13 two foot common rules, and a parcel of old rules
 223 Four crimson velvet telescopes, with drawers and runners not mounted; 1 three foot black fish-skin ditto, 1 yard rule and 4 round rulers
 224 Six dozen of fish-skin temple cases, and six fish-skin cases for instruments
 225 Eighteen full fish-skin cases, 10 full cases for parallel rulers, 18 nose spectacle cases, 12 doz. for opera glasses, and 5 ditto cases for instruments
 226 Three Knight's compass-cards, one azimuth with needles and agate caps, &c. 4 agate cap needles and several others, 6 eye mirours and 2 six inch magnets, &c.
 227 Three single scrole Wilson's microscope, with stands, not glazed
 228 Three brass hanging compasses, 2 crown ditto, 4 wood japan'd ditto, and 1 ditto painted
 229 Twelve brass compass kettles with 9 rings for ditto, 3 dozen Tunbridge ware punch strainers, and 2 lemon squeezers
 230 A box with pieces of large concave and convex mirroures with several frames for small mirroures
 231 Six small stands for mirroures, and 1 large ditto
 232 Forty doz. of small opera glasses, magnifyers, &c.

- 233 Forty-eight doz. magnifiers, &c. of different sorts
234 Twelve pair of nose spectacles mounted in silver and
235 A nourse skin full case, single swaged with silver, and fine instruments, ivory sector, brass parallel ruler

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- 236 A small nourse skin case, double swaged with silver, fine instruments, 1 large nourse skin case, double swaged with silver, no instruments, and 10 other nourse skin cases
237 A pair of silver temple spectacles in a nourse skin case, double swaged with silver
238 A ditto
239 A ditto
240 A ditto single swage
241 A ditto in a shagreen case
242 A ditto with no glasses in a nourse skin case
243 A nourse skin case, double swaged with silver, fine instruments, and an ivory protracting scale
244 A ditto case, single swaged, with instruments
245 Three nourse skin temple spectacle cases, single swaged with silver, and 1 shagreen case
246 Four plain ditto cases, 5 ditto nose cases, and 4 shagreen ditto
247 A 3 inches an a half oval reading glass, mounted in pearl and silver
248 A 3 inch and a quarter oval ditto, mounted in work'd tortoiseshell and silver
249 A 2 inch and a half ditto, mounted in pearl and silver
250 A 3 inch and a half ditto
251 Three reading glasses, 2 mounted in metal, 1 tortoiseshell, and 1 pearl and silver
252 Three reading glasses, mounted in pearl and silver, tortoiseshell and silver, and tortoiseshell and metal
253 Three bellows make concave eye glasses, tortoiseshell and silver, and pearl and silver
254 One reading glass in stamp tortoiseshell, mounted in silver, 3 concave eye glasses, mounted in pearl and silver and tortoiseshell and silver
255 Two small round reading glasses, mounted in tortoiseshell and metal, and 2 eye glasses, mounted in ditto and silver
256 One reading glass in pearl and silver, and 2 ditto in tortoiseshell and metal
257 One reading glass in pearl and silver, 2 in tortoiseshell and metal, and 5 thermometers without scales.
258 Four tortoiseshell reading glasses
259 A large quantity of magnifying glasses, different sorts
260 A large parcel of dark glasses, mostly cut ready for quadrants, with 6 pair of compasses and 3 fish skin cases for instruments

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- 261 Three sets of instruments, 1 steel drawing pen, 1 pair of bow sweeps, 4 common drawing pens and 6 common compasses
262 A parcel of stick, opera, and compass work unfinished
263 A parcel of spikes and other nails at [blank] per lb.

- 264 Twenty-one brass compass kettles of different sizes; and some glasses of different sizes for ditto
- 265 Some pieces of ivory, at [blank] per lb.
- 266 Eighteen fish skins, 6 gauging rods, 4 mahogany sticks unmounted, 2 ivory sectors and 1 box ditto unfinished
- 267 Eleven brass plates for compass cards in a box
- 268 Two blocks of letters, 4 ditto, with 2 sets of figures in each, and 5 sets of figures in papers
- 269 A basket full of compass cards, some with needles and caps, most isinglass, 5 lb. of isinglass, and a pair of magnets in a case
- 270 A vice, a parcel of drills, files, taps, &c. with a pair of sheers, a hatchet, a small grindstone and trough
- 271 A sign of a sailor neatly carved in wood, with a leaden hat, and a brass quadrant in his hands
- 272 Two mahogany stands to hold telescopes, 18 concave glasses, and 2 Scotch ship colours

WORK SHOP

- 273 A foot lathe with chucks and crew, tools, &c.
- 274 A vice and a large grindstone
- 275 A vice, a pair of sheers, a large anvil and block, and a Turkey oil stone
- 276 A ditto with large sheers and anvil
- 277 A vice and the work board, as fixt, with drawers and a large parcel of tools
- 278 A work bench with a planing piece, a large Dutch vice and some tools
- 279 A work bench with a hand lathe and leaden wheel as fixt to ditto, with chucks, some tools, and a vice
- 280 A foot lathe with an inside collar, 2 large gauges and a crossing knife
- 281 A ditto with an outside collar, and 3 brushes to ditto
- 282 A small foot lathe, an iron stove grate and iron pot, and a pair of tongs
- 283 A hand lathe with leaden wheel
- 284 Four planes, a large iron frame saw to cut ivory, two wood frame turning sews, 3 other saws, and an iron frame for a saw

(Here ends this copy of the catalogue)

Edward Ellicott, 1791

A catalogue of the genteel household furniture, two piano-fortes, a capital eight-day clock, plate, useful and ornamental china, a few pictures and drawings, mathematical instruments and books, among which is a large air pump, an acromatic telescope, several very accurate scale beams, a turning lathe, and numerous curious articles, the property of the late Edward Ellicott, Esq. deceased; which will be sold by auction by Mess. Skinner & Dyke, on Saturday the 14th, and Monday the 16th of May, 1791, at eleven o'clock, on the premises, at Merton, in Surrey; by order of the executors (...)

16 pages (but pages 7-10 missing), the instruments number 40 lots. Prices throughout and occasional names of buyers.

The First Day's Sale on pages 3-6 (where the day's sale breaks off) is furniture and household goods, described per room.

The Second Day's Sale on page 11-16 begins with 20 lots cutlery and chinaware etc., then 4 lots headed Firearms &c. and 27 lots headed Pictures, Drawings &c. which also includes plaster casts. On page 13 and 14 are listed:

Mathematical instruments &c.

1 A 4 feet telescope, shagreen outside, and 6 inch lens, on stand	0-7-6
2 An acromatic telescope, with sets of eye glasses for terrestrial and celestial observations, in a mahogany box, by <i>Nairne and Blunt</i>	6-8-6
3 A 3 inch brass sextant, with a telescope, by <i>Ramsden</i>	6-17-0
4 A variation needle, by the late <i>John Ellicott</i> , and a dipping needle by <i>ditto</i>	1-14-0
5 A very accurate scale beam, in a glass lantern, with a very exact set of weights of 8 ounces, the grains and smaller parts in silver, by the late <i>John Harris</i>	2-11-0
6 A 5 inch scale beam, with silver pans, in a lantern and a set of smaller weights	0-13-0
7 A transit and equal altitude instrument, by <i>Bird</i> , with a firm and strong mahogany table	15-4-6
8 Two glass prisms, very fine, and 5 inch lens, with a handle	0-11-0
9 A 15 inch brass diagonal scale, by <i>Bird</i>	3-10-6
10 A pair of long beam compasses and case of mathematical instruments, and a concave lens	1-3-0
11 A 12 inch brass sector, by <i>Sisson</i>	2-12-6
12 A 4 inch brass sector, and a Ludlam's back liner	0-19-0
13 A case of mathematical instruments, a parallel rule, and money balance	1-5-0
14 A 21 inch concave mirror, in a wood frame	3-4-0
15 A Miner's compass, and mercurial level	?
16 Two 12 inch artificial magnets, by <i>Gowin Knight</i> , and a 6 inch set of ditto	0-16-0
17 A 6 inch set of ditto, a 3 inch set of ditto, and 2 odd ones	0-8-0
18 Two sets of 6 inch magnets	0-13-0
19 One set of 7 inch ditto, a 4 inch set of ditto, and 2 odd ones	0-14-0
20 A model of a wheel carriage, with 2 sets of wheels and friction rollers, to act	

as a friction machine, and an inclined plane 1-13-0

£ 21-7-0

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21 A pair of 12 inch globes, with the latest discoveries	2-18-0
22 A brass circle and square, divided on a mahogany board, and a mercurial level	1-3-0
23 A long pair of beam compasses, with divided line of chords, pair of ship's bows, a 6 inch wood diagonal scale, a set of the regular bodies in wood, an astronomical rotula, and 3 divided circles	1-11-6
24 Several parts of various instruments, with stands for telescopes, part of an electrical machine, brass screws, &c	2-8-0
25 An 8 feet telescope, a 3 feet ditto, and 3 legged stand	2-2-0
26 A small pair of beam compasses, a razor hone, a large brass protractor, 2 T squares, a sliding rule, a Sutton's quadrant, and a loadstone	1-5-0
27 Two artificial magnets, 4 ivory balls, a round loadstone, 2 razor hones, 2 sliding rules, a money balance, various optical glasses, and a quadrant of altitude for a globe	1-5-0
28 A variation compass, and a small transit instrument	1-14-0
29 A levelling instrument, by <i>Nairne and Blunt</i>	1-12-0
30 A large double barrelled air pump and apparatus	9-9-0
31 A box, containing a compleat set of mathematical instruments	3-10-0
32 A stand for a telescope, with equatorial motions, <i>Smeaton</i>	4-17-0
33 A barometer, by <i>Nairne and Blunt</i> , and thermometer	?
34 A Hadley's quadrant, part of a waywiser, a cylinder, and painting for ditto	1-11 ?
35 A copper model of an engine for raising water, a brass bracket, and sundry brass work	1-3-0
36 A quantity of very fine chased brass ornaments, and some sheets of Swedish copper coin	1-1-0
37 A very neat mahogany work board with 4 drawers, and some tools	2-0-0
38 A nest of 12 neat, mahogany drawers with tools, a hand turning lathe, and some hard wood for turning	4-12-6
39 A large turning lathe, and a small anvil on a turned pedestal, and hammer	5-2-6
40 Sundry small scale beams, a variation compass, 2 drawings boards, and part of a thermometer	1-1-0

Note: the prices are not always clearly legible. For lots 7, 9, 15, 20, 26, 28 and 34, the prices are written to the right rather than to the left, these may be acquired by the catalogue owner, probably William Jones. For two lots, viz. 3 and 11, the buyer's name is written: "Mr Blunt".

Pages 14-16 conclude with Books, 22 lots, each lot several volumes, predominantly on science and technology.

Henry Pyefinch, 1791

A catalogue of the remaining part of the stock in trade, together with the household furniture, and fittings of the shop, of the late Mr. Henry Pyefinch, optical, philosophical, and mathematical instrument maker, deceased; which will be sold by auction, by Mr. Chapman, on the premises, No. 67, Cornhill, on Thursday, June 2, 1791, and two following days, at eleven o'clock. Consisting of refracting and reflecting telescopes, of various sorts; concave and convex mirrors, in frames and on stands, from 20 to 4 inches in diameter; microscopes; electrical machines; air pumps; barometers and thermometers, of different sorts and sizes; and various other articles in the optical, philosophical, and mathematical branches (...)

11 pages, total 150 lots, of which the last seven are 'shop fittings'. Prices occasionally noted. The third day's sale is missing from this copy.

Page 3

A CATALOGUE, &c.

First Day's Sale,

Thursday, June 2, 1791

- 1 An hydrometer and weights, in mahogany box
- 2 A ditto, in tin box
- 3 A ditto
- 4 A ditto, with arrack weights
- 5 A Clark's hydrometer and weights, No. 3567
- 6 Three mahogany boards for aerostathmion frames, and 8 ditto with plates and tubes, not finished
- 7 A thermometer box scale
- 8 An analogous thermometer, in a mahogany box
- 9 A brewer's thermometer, in ditto
- 10 A small thermometer, in a shagreen case
- 11 A small barometer, round top
- 12 A ditto, with pediment top

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- 13 A barometer, with thermometer, inlaid frame
- 14 A ditto, with ditto, open cistern
- 15 A ditto, with thermometer and hygrometer
- 16 A ditto, with thermometer, no silver in barometer tube, a barometer plate, a thermometer plate, and a box plate for a thermometer
- 17 A small cylindrical mirror
- 18 A 4-inch double concave and plane mirror
- 19 A 6 by 5-inch concave mirror
- 20 A single 5-inch concave mirror
- 21 Ditto
- 22 A double 5-inch concave and convex mirror

- 23 A single 5½-inch concave mirror
- 24 A ditto
- 25 A ditto 6½-inch ditto
- 26 A ditto 7½-inch ditto
- 27 A ditto 7½-inch convex ditto
- 28 A ditto 12-inch concave ditto, black and gilt frame
- 29 A ditto ditto convex ditto, gilt frame
- 30 A ditto 14½-inch ditto, black frame
- 31 A single 15-inch concave mirror
- 32 A ditto
- 33 A ditto 18-inch ditto
- 34 A double 7-inch concave and plane ditto, to swing, on stand
- 35 A ditto
- 36 A ditto 8-inch ditto
- 37 A ditto 10-inch ditto
- 38 A single 15-inch concave mirror, to swing, in pillar and claw stand
- 39 A ditto 18-inch ditto ditto
- 40 A ditto 24-inch frame for mirror, to swing, on pillar and claw stand

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- 41 A pair of 12-inch globes
- 42 A 9-inch terrestrial globe
- 43 A pair of 9-inch globes, no frames, and a pair of 16-inch brass meridians, for globes
- 44 A drawing board
- 45 A ditto, and a T square
- 46 A dipping needle, in mahogany box
- 47 Two Coventry's money balances, and 2 money scales and boxes
- 48 Four brass stands for telescopes
- 49 A pyrometer, in wainscot box
- 50 A 12-inch brass circular protractor, with Nonius divisions, in a mahogany box
- 51 An 8-inch ditto, and a ball and socket
- 52 A ditto and ditto, on stand
- 53 A middle sized double barrel air pump
- 54 A less ditto, without frame
- 55 A ditto
- 56 A large single barrel air pump, on pillars
- 57 A small single barrel air pump
- 58 A middle size double barrel ditto, not compleat
- 59 Three pair of brass hemispheres, with stop cocks
- 60 Two small brass syringes, with 4 lead weights
- 61 Three brass guinea and feather apparatus's, with 3 falls each, and 2 ditto, 1 fall each
- 62 A brass double transferer, with stop cocks
- 63 Sundry brass and wood apparatus for air pumps
- 64 Nine small images for air pump experiments

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- 65 A combined horse-shoe 8-inch magnet, 7 bars
- 66 A pair of magnetic 15-inch bars, in mahogany case
- 67 Two small horse-shoe magnets, and 8 small bars
- 68 A pair of brass scales and weights
- 69 A camera obscura, mahogany case
- 70 An orrery, brass frame

End of the First Day's Sale.

Page 7

Second Day's Sale,
Friday, June 3, 1791.

- 1 A small opera glass, in wood, with slides
- 2 Ditto
- 3 Ditto, with cap
- 4 Ditto
- 5 Ditto
- 6 One ivory and noursa opera, 1 ditto unfinished, a diagonal opera, with wood tube, and 1 noursa and 1 shagreen opera cases
- 7 A small acromatic brass opera, 2 powers
- 8 An acromatic noursa perspective, with brass tube, and 2 oculars
- 9 A ditto, with morocco tube
- 10 A large perspective ditto, 2 powers
- 11 A ditto, by Nairne
- 12 A small opera, with silver rim and shagreen case
- 13 An opera glass mounted in silver, with noursa case
- 14 A linen microscope
- 15 One large and 3 small brass linen microscope frames
- 16 One English Pilot, 2 Hamilton Moore's Practical Observer, and 3 Waddington's Seaman's New Daily Assistant 0-5-0

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[£] 0-5-0

- 17 A West-India Pilot
- 18 A British Channel Pilot 0-4-6
- 19 An Oriental Pilot
- 20 Heath's Astronomer and Navigator 0-6-6
- 21 Ten sea charts, various
- 22 A diagonal machine for viewing prints
- 23 Twelve coloured prints on pasteboard for ditto
- 24 Ditto
- 25 Fourteen ditto, and 9 not pasted
- 26 Sixty-nine ditto bound
- 27 A small compass in a silver box, with enamel card
- 28 A ditto, and a gilt seal

29 Ditto	
30 A brass acorn microscope, 3 ditto, no glasses, and 3 ivory ditto	0-10-6
31 Three small Wilson's microscopes, no glasses, and 2 shagreen cases for ditto	
32 A large ditto, compleat, in a shagreen case	
33 A body for a large Wilson's ditto, with 1 magnifier, and 3 shagreen cases	
34 Two small opaque microscopes, imperfect, in shagreen cases	
35 Ellis's aquatic microscope, in a shagreen case	1-10-0
36 A neat portable pocket microscope, shagreen case	
37 A new constructed double ditto, in a pyramidal mahogany case	3-5-0
38 A ditto to fold down, in a flat mahogany chest	4-5-0
39 A measuring wheel, with clock-work movement, in a mahogany frame	2-12-6
40 A ditto to fold down with a solar and Wilson's, in a flat mahogany chest	
	£ 12-19-0

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41 An electrical machine, with an arch, mahogany frame, and glass handle discharger	
42 A small ditto, flat board, wheel and pulley	0-12-6
43 A large electrical machine, with strong mahogany pillar and claw feet and frame, insulated cushion, large tin conductor on mahogany frame, coated glass jar, and circular electrometer	
44 A ditto, with brass conductor and 2 glass jars, in a mahogany box	
45 A small ditto, with 1 glass jar, in ditto	
46 A small ditto, no jar	
47 A picture of the King, prepared for electrical experiments	
48 Sundry brass, copper, glass, and wood electrical apparatus	
49 An ebony and brass pentagraph, in a mahogany box	
50 A pair of compasses for striking ovals, with adjusting screw, in a mahogany box	1-0-0
51 A 5-foot acromatic telescope, mahogany tube	
52 A ditto, in 2 parts	
53 An 8-foot ditto	
54 A 10-foot-6 glass noursa ditto, vellum tubes and mahogany box	
55 An 8-inch acromatic ditto, with brass tube, and triangular stand, to pack within the body	
56 A 30-inch ditto, brass tube, triangular stand, 2 magnifying powers, and mahogany case	
57 A ditto, mahogany tube, and 2 ditto	
58 A 3-feet-6 acromatic ditto, on a brass triangular stand	3-16-0
	£ 18-17-6

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59 Two 12-inch reflecting ditto, no metals	2-6-0
60 One 2-feet ditto	
61 A ditto, with finder and rack work, extra small speculum, and 3 magnifying powers, mahogany case	2-7-0
62 A 3-foot ditto, with 2 magnifying powers, in ditto	

- 63 Five mahogany boxes for telescopes, &c.
 64 Three ditto, and 2 wainscot ditto
 65 Three old noursa and shagreen telescopes, a parcel of old vellum, &c. drawers for telescopes, 12 old shagreen instrument and spectacle cases, a parcel of broken spectacle frames, &c.
 66 Some tin foil, and a small parcel of colours
 67 A brass box, with screw cover, a parcel of small pieces of brass for telescopes, &c.
 68 A small brass sun dial, a small lantern, 2 small brass boxes with springs, a small parallel rule, broke, a box top, with small looking glass, and broken lens
 69 Ten brass telescope tubes, &c. and a finder
 70 A Lacey's primum mobile glass, broke 0-4-6
 71 A small brass instrument on pillar and claw foot, in shagreen case, a small sun dial, in a brass box, a pair of compasses, and 2 drawing pens
 72 An old wood tube for microscope, with hoops and pillar, 4 wood frames for hour glasses, and 4 ditto pedestal stands
 73 Two small lanterns, a small glass jar coated, 3 broken snakes, 3 small wood rules, an ivory sector, and some small pieces of ivory
- £ 23-5-0

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SHOP FITTINGS

- 74 Two mahogany sash frames, 20 squares each
 75 A mahogany counter, with glass doors and runners under, containing 44 squares; a glass case on top, with columns, pediment head and cornice, glass doors and runners, containing 48 squares
 76 A glass case, with columns, pediment head and cornice, glass doors and runners, containing 48 squares, with 89 drawers under
 77 A mahogany counter, with 2 glass doors and 3 runners, containing 20 squares
 78 A ditto, with 20 guard irons, a till drawer, and 2 others
 79 The shutters and frames for inclosing inside of shop, together with the cupboard, lock and key, under passage to Sun Court
 80 Two circular iron-framed wire bottom shelves, with 10 iron brackets and 2 iron screw supports, and 2 circular wainscot ditto

£ 23-5-0

In manuscript:

Lathe	1-11-6
Die	0-8-6
Tools	3-5-0

£ 28-10-0

Here ends this copy of the catalogue. Presumably the priced noted, and the totals, and the added three items, were bought by the catalogue user, presumably William Jones.

Nicholas Meredith, 1793

A catalogue of the curious and valuable stock in trade, neat household furniture, and other effects, of Mr. Nicholas Meredith, optical, mathematical, and philosophical instrument maker; comprising capital telescopes, air pumps, electrifying machines, superb globes and quadrants, elegant barometers, thermometers, microscopes, electrical batteries, opera glasses, spectacles, mirrors, magic lanterns, cameras, and numerous other articles, of the latest improvements, unfinished work, implements, working tools, &c. (...) Which will be sold by auction, by Mr. Graham, on the premises, No. 91, New-Bond-Street, on Tuesday, April 30, 1793, and following day (...)

10 pages, 130 lots. This catalogue is only for day one, the second day's sale is missing. Some prices, presumably the bids by the catalogue user, presumably William Jones.

Page 3
First Day's Sale,
Tuesday, April 30, 1793.

STOCK IN TRADE

- 1 Thirty pair of steel spectacles with glasses, 30 pair of ditto without glasses and 13 pair of nose ditto without glasses
- 2 A sagacious swan and case compleat, the magical painter and 3 boxes with fish and ducks
- 3 Three silvered plates, 3 oval concaves, a thunder house, a luminous experiment, 2 mahogany feet and a broken concave mirror 1-1-0

In Drawers under the Counter

- 4 Sundry microscope reflectors, slides, caps, &c.
- 5 Nineteen double steel spectacle frames and 48 single ditto
- 6 Sundry boxes with green spectacle glasses, 7 pebbles, sundry slides and 6 phosphorus boxes
- 7 Sundry compasses and drawing instruments and 28 amalgam boxes

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- 8 Eighty-seven hand spectacles, eye glasses, magnifiers &c. in horn 1-1-0
- 9 Sixteen pair of steel spectacles and 12 pair of single ditto
- 10 Twelve box slides with objects, a quantity of glasses and other slides with and without objects
- 11 A pocket sun dial and black shagreen case and a spirit level
- 12 A large parcel of white spectacle glasses
- 13 Two concave mirrors, 1 plain ditto and 56 large and small lenses 3-8-0

- 14 Eleven instrument cases, 21 spectacle ditto, 12 paper ditto and 9 telescope ditto
 15 Twenty-three box rulers, various, 5 rules and a set of marquois scales
 16 Thirteen reading glasses, in horn, 2 frames, 4 silk pocket electrical machines and 2 telescope parchment tubes
 17 A book of maps, sundry loose maps, drawings, pocket maps, &c.
 18 A sagacious swan and case, compleat
 19 An electrical machine with conductors and image plate
 20 Thermometer and hygrometer in a curious carved ivory and gilt frame and Morocco case 2-3-0
 21 Three new invented pocket thermometers mounted in ivory and Morocco cases
 22 Nine scale and drawing rules and 2 glass prisms
 23 Two pearl and silver double hand spectacles and 3 pearl and silver concave glasses
 24 One pair of hand spectacle frames, tortoiseshell and silver, 2 pair of tortoiseshell, 2 pair of ditto with glasses and 2 concaves, in shell and silver
 25 Four treble magnifiers, 4 double and 6 single ditto
 26 Two pair of gogles, 1 pair of ditto frames, a gold concave, and a tooth-pick case in ivory and gold
- £ 6-12-0

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- 27 One concave mirror in nourse skin, 2 ditto in black fish skin and a reading glass in tortoiseshell and silver
 28 Seven reading glasses in tortoiseshell
 29 Twenty-six concave glasses in ditto and 1 ditto in horn
 30 Two claudloranes with six glasses, 3 ditto with 4 ditto, 3 ditto with 3 ditto, 5 ditto with 2 ditto, and 5 single ditto in shell and horn 1-11-6
 31 Two oval 6 inch ditto, and one 5 inch, in shagreen cases
 32 Two round ditto, 2 ornamental spar watches, a pair of 5 inch bar magnets and case
 33 A pocket thermometer, a hydrometer, 2 leather snuff boxes, one with a compass in the lid
 34 Thirty brass balls, different sizes, 8 brass caps and 2 unfinished thermometers 1-14-0
 35 A double barrel portable air pump 3-11-0
 36 A magic lantern, with 17 sliders, a drawing instrument unfinished, and a mahogany box
 37 Ditto
 38 A 30-inch acromatic telescope on a brass stand and mahogany box
 39 A large electrical machine, and brass conductor
 40 A 3-feet reflecting telescope, japanned tube and a mahogany stand
 41 A lucernal microscope complete 3-15-0
 42 A 12-inch brass reflecting telescope, in a mahogany box
 43 An 18-inch ditto and a ditto
 44 A portable camera obscura
 45 A compound microscope complete, in a pyramid case 2-3-0
 46 Ditto 2-3-0

- 47 Two large electrical jars, a spotted ditto, aurora flask, electrical fly and discharging rod
- 48 A lucernal microscope and a drawing instrument 0-15-0
- £ 22-4-6

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- 49 A 12-inch reflecting telescope on a mahogany stand and a sagacious swan unfinished
- 50 A wheel barometer with thermometer, hygrometer, in a sattin wood case
- 51 A ditto with thermometer, in a composition case
- 52 A wheel barometer in a mahogany inlaid case
- 53 A pair of 12-inch globes, plain mounted
- 54 A 12-inch terrestrial globe, mahogany frame, claw feet
- 55 One electrical battery, with 9 jars unfinished
- 56 One ditto, 4 jars ditto
- 57 An electrical machine, brass conductor, mahogany stool, 4 glass feet 0-12-0
- 58 An 18-inch reflecting telescope, japanned tube, mahogany stand
- 59 Ditto
- 60 A large portable camera obscura complete
- 61 A large optical deception
- 62 A 2-foot reflecting telescope, japanned tube and mahogany stand
- 63 A large standing air pump unfinished
- 64 A large universal compound microscope, mahogany case
- 65 A mahogany case, with 6 drawers, containing a collection of microscopic objects
- 66 A diagnol barometer, mahogany inlaid case
- 67 A barometer in a mahogany case and thermometer in ditto
- 68 Ditto
- 69 Ditto
- 70 Two barometer and thermometers in a mahogany case
- 71 A barometer, in a mahogany case and a thermometer in a ditto 0-15-6
- 72 A ditto and ditto, without case
- 73 A single barrel air pump, on a peculiar construction
- £ 23-12-0

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- 74 Hadley's quadrant, double observation and wainscot case
- 75 A ditto single observation
- 76 A diagnol machine and part of a solar microscope
- 77 A night telescope
- 78 A 3 ft. acromatic telescope
- 79 An acromatic ditto, silver mounted
- 80 A ditto

- 81 A 2-feet 6 ditto, brass mounted
- 82 Three acromatic telescopes
- 83 Two ditto
- 84 Two ditto
- 85 An opera glass, mounted in ivory and gold (twisted)
- 86 Two ditto in ivory and silver, 1 small ditto in silver gilt
- 87 Two ditto in silver, 1 small ditto in silver gilt
- 88 One ditto in shell and silver, a small ditto, ivory and silver gilt
- 89 One ditto in ivory and silver, 1 ditto in brass and a linen prover
- 90 Five opera glasses and a Britanical microscope
- 91 Five opera glasses, a linen prover and a Britanical microscope
- 92 Four Britanical microscopes and cases
- 93 Four microscopes in cocus, 3 bone perspectives, and 2 pair of money scales, japanned boxes
- 94 An universal discharger, a thunder house, electrical belts and luminous experiment
- 95 A pair of directors, 2 jars, Bennet's electrometer pigeon house, an air pestle
and a set of spiral tubes 2-5-0
- 96 An 18-inch jar, electrical flies, discharging rod, electrometer discharging ditto, and a pyramid thunder house
- 97 A stand of musical bells, a pyramid thunder house, a jar rolling fly, and a luminous conductor

25-17-0

Page 8

- 98 A set of bells, 2 jars, discharging rod, a pair of directors, image plates, fly and luminous tube
- 99 A 9 inch globe, 2 pair of money scales, pocket microscope and a case of drawing instruments
- 100 A planetarian on stand, a box of magnets, a pair of money scales, and a pocket sun dial and compass
- 101 An Ellis's pocket microscope, a magic lantern, and sliders, 2 dissected maps, 2 wood compasses and a set of micrometers for a microscope
- 102 A magic lantern and slides, a case of drawing instruments, a pair of money scales, 2 sets of glass sliders, a compass, a pocket microscope, 2 boxes with four diamond beedles, &c.
- 103 An air pump, receiver, hemispheres, guinea and feather experiment, Fortiscillion ditto, lungs glass, exhausting and condensing syringes
- 104 A large colour box, a case of drawing instruments, a parallel ruler, book stand and colour stone
- 105 Two pocket globes, 2 card spheres, a case of drawing instruments, a lead [sic] stone, a box of colours and a pair of money scales
- 106 A case of best drawing instruments, 2 parallel rulers, a load stone, 2 card spheres, 7 cakes of India ink and 4 bottles of colours
- 107 A set of drawing instruments, in a silver mounted case, and a pocket compass

- 108 A smaller ditto, a thermometer in ivory and a pocket compass
 109 A magazine case of drawing instruments, compleat and a pocket compass
 110 A cabin compass in brass and a case of drawing instruments
 111 Four pair of silver spectacles with glasses, 3 pair with pebbles and 2 pair of frames
 112 Nine pair of tortoiseshell ditto with glasses, 2 ditto, silver slides, 2 frames, 1 pair of silver nose and 1 pair of shell ditto

Page 9

- 113 Five pair of best steel ditto with glasses, 1 pair of pebbles, 6 pair of frames and 2 pair of green glasses
 114 Eleven nourse-skin cases, silver mounted, 2 plain ditto and 1 shell ditto
 115 Eighty-five Morocco cases, various
 116 A polyoptic deception, a scyoptic ball, 3 pair of money scales and 3 cases of sliders 1-8-0
 117 Two portable cameras, 2 cameras, 2 telescope stands, a jar top, 2 phosphorous cases and a magnet
 118 Two hygrometers, 2 hydrometers, a riddle case, 3 large dissected maps and 8 mahogany map boxes
 119 A barometer and thermometer portable in a mahogany case and a sea telescope
 120 A ditto
 121 A ditto and 2 telescopes
 122 A diagnal machine, a concave mirror, 2 telescopes, a compass index and sights for a playing* table [* presumably misheard in dictation for 'plane']
 123 Twenty-three electrical jars, various sizes, 2 large glass globes, glass handles, feet flasks and tubes
 124 A magic lantern, a pair of artificial eyes, a 2 ft. telescope, a set of polyoptic deceptions, a box of microscopes, a scyoptic ball and a large cylindrical mill and pictures
 125 Seven reflections, a universal discharger, a thunder house, luminous word, small fumagating bellows, large microscope and sundry mahogany boxes
 126 A three-feet acromatic telescope, 2 large brass stands, a camera, a planetarian, conical pictures and a concave mirror

£ 27-5-0

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- 127 Two camera boxes, a mirror stand, 2 screen stands, a brass cutting engine and sundry brass, &c.
 128 A box with black lead pencils, a set of crayons, a box of slides and 4 deal boxes with contents
 129 Two mahogany microscope cases and sundries
 130 A pair of white globes, and a box with unfinished thermometers, &c.

End of the First Day's Sale

A Gentleman (= William Storer?), 1793

A catalogue of a valuable collection of camera obscura and telescopic instruments and machines, a large assortment of optical glasses for experiments, variety of working optical tools, lathes, vices, models, figures; neat and genteel household furniture, plate, linen, china, pictures, prints, a drawing-room suit, and other valuable effects, of a Gentleman; which will be sold by auction, by Mr. Graham, on the premises, No. 52, Dean-Street, Soho, on Monday, October 28, 1793, and following day (...)

8 pages, 141 lots. This is only the First Day's Sale. Prices given throughout, no names of buyers.

Page 3

First Day's Sale.

Monday, October 28, 1793

OPTICAL INSTRUMENTS, &c.

Back Room in the Yard, Right Hand

1 A quantity of sattin-wood telescope tubes, different sizes, unfinished	0-5-0
2 Ditto, mahogany and sattin-wood	0-3-0
3 Eighteen brass figures of the king's arms, about 18 sets of window fastenings and 12 dozen of brass rings with screws	0-12-0
4 A quantity of Storer's optical delineators and magazines, unfinished	0-9-0
5 Sundry parts of telescopes, opera glasses, microscopes, reading glasses, spectacles, &c.	0-5-0
6 Seven slates, a large atlas, 4 other books and a quantity of Storer's <i>opticia principia</i>	0-10-6
7 Eight slates, Adams on the microscope, imperfect, 17 other books and sundry prints	1-11-6
8 Part of a Storer's camera, in a chest, and 7 other parts of optical machines	0-4-0
9 Sundry plaister and other figures and paintings, used in optical experiments	0-4-0
10 Two long cylinder patent lamps	0-4-0
11 Two improved sliding patent lamps	0-13-0
12 Twelve large mahogany boxes for telescopes and other instruments	0-16-0
13 Fifteen ditto, various sizes	1-0-0
14 Sundry glass tubes, vessels, phials, &c. containing chemicals, &c.	0-11-0
	£ 7-8-0

Page 4

15 Two boxes of pieces of white flint and other glass	0-1-0
16 Two ditto, containing a great number of squares of crown glass for lenses	2-2-0
17 One ditto	0-5-0

18 A large mirror and plain glass, in frames, and sundry pieces of silvered glass	1-1-0
19 Sundry polished and ground glass plates, for camera obscuras, &c.	1-2-0
20 Seven plates of flint glass, at per lb.	6½
21 Two boxes, containing 8 glass lumps for magic lanthorns, unfinished, and sundry pieces of white flint glass, &c.	1-12-0
22 A box, containing green and other coloured glass plates	1-0-0
23 About 27 dozen of small concave and convex lences, various foci and diameters	0-13-0
24 Thirty acromatic object glasses, in brass cells, for perspectivs, telescopes, &c.	1-0-0
25 Ditto	0-16-0
26 Eight large round convex lenses and 8 square ditto	1-0-0
27 Twenty-two square convex lenses, different foci for camera obscuras, &c.	0-12-0
28 Three dozen of round and oval convex lenses, various foci and diameters	0-11-0
29 About 7 dozen of round ditto	0-5-0
30 About 10 dozen of ditto	0-7-0

Back Room in the Yard, Left Hand

31 Two dozen of large and small lenses for experiments, fixed in frames	1-12-0
32 Six large square ditto in frames	1-1-0
33 Sundry scioptic ball and sockets, with and without glasses	0-3-0
34 One round mirror in a frame and 7 square frames, containing plain mirrors	0-18-0
35 Six jointed staffs, 3 drawing boards, mahogany pallets, a folding reading desk, and 18 painting brushes	0-11-0

£ 24-16-0

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36 Four glass prisms, 2 pearl and silver cases, a fine square lens in a case and sundry speculums for reflecting telescopes	?-10-0
37 Seven silvered mirrors, a reflecting cone and a walking stick tellescope, unfinished	?-7-0
38 A quantity of paste, at per lb	10d
39 A box of brass rings, for telescopes, &c. at per lb.	11d
40 Ditto smaller, at per lb.	9d
41 Ditto, various, at ditto	9½
42 A pair of 15 inch globes, imperfect	?-3-0
43 A set of lead, brass and iron optical working tools, 24 pieces, and some lap	2-3-0
44 Ditto brass, 6 pieces	1-10-0
45 Ditto lead, 28 pieces	1-6-0
46 A quantity of iron ditto, at per lb.	[illegible]
47 Ditto	5d (?)
48 Sundry pieces of ivory, rings, tubes, &c.	0-4-0
49 A small musket, a fowling piece, by Blake, and a long sword	0-12-6
50 Sundry rulers, squares, &c.	0-19-0

51 Five padlocks, 12 locks, various, 3 bells, 2 wooden clocks and 2 lanthorns	0-8-0
52 A mahogany jointed drawing table, a deal painted box, sundry mahogany claw feet, stands, &c.	0-19-0
53 Two ebony quadrant frames, a set of mahogany staffs and part of beam compasses	0-3-6
54 A large ebony wheel, 2 Davies's quadrants, a quadrant, a bird cage, and sundry boxes	0-5-0

In the Yard --- WORKING TOOLS

55 A very large quantity of pieces of different optical instruments, machines, some picture frames, &c.	1-3-0
56 A quantity of pieces of mahogany, boxes, &c.	0-4-0
57 A lathe, imperfect, a large mahogany turning wheel and several iron peic [sic]	5-13-0
58 Ditto	1-14-0
59 An optical centering lathe, imperfect	1-4-0
60 A large iron bench vice	0-16-0
61 Ditto	0-12-6
62 Ditto	0-15-6

£ 45-18-0

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63 One large and 1 small ditto	0-13-6
64 A quantity of turning tools and sundries	1-2-0
65 Sundry working tools	0-8-0
66 About 15 dozen of new files, various sorts and some steel bars	1-11-0
67 About 19 dozen of ditto	2-2-0
68 A quantity of files, mixed	1-5-0
69 A chest of tools, various	1-1-0
70 Sundry tools, various	1-14-0
71 Sundry chissels, various	0-10-6
72 A large wood saw, a small ditto, 2 large wood planes, 1 auger, hammers, iron squares and sundries	0-13-6
73 About 8 dozen of scrapers, various sizes, some augers, &c.	0-14-0
74 A quantity of screw tools, squares, gages, callipers, compasses, rasps, &c.	0-17-6
75 Sundry small scrapers, polishers, burnishers, curriers, &c.	0-17-6
76 A large hammer, pick axe, large shears, stake, &c.	2-0-0
77 Four pitch pots, 2 chasing dishes and sundry iron pieces	0-6-6
78 Ten iron ladles, a glue pot, iron pan, &c.	0-15-6
79 A small kitchen range, part of a German stove and sundry iron pieces	0-16-6
80 A large iron wheel and sundry iron pieces, at per lb	[illegible]
81 A basket of sundry iron articles at per lb	2d(?)
82 Ditto	6?
83 Ditto	6?

84 A carpenter's work bench	0-10-10
85 A work bench	0-1-4
86 Two work benches	0-2-0
87 Two nests of drawers, imperfect, 2 writing desks and 2 wooden chests	0-14-0
88 Two tables and sundries	0-5-0
89 A work bench, 2 troughs and sundries	0-5-0
90 A large quantity of deal boxes, drawers, stools and sundries	0-6-6

£ 67-9-0

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One Pair of Stairs, Back Room

91 A large 10 inch brass circumferentor, without staffs [in 'without' the last three letters have been crossed out]	[no price]
92 A patent azimuth compass, by M'Culloch	0-17-0
93 A compound microscope in a case, by Cuff, imperfect	0-19-0
94 A large magic lanthorn and sundry parts of solar and other microscopes	1-17-0
95 A 5 inch brass pocket telescope and stand, not glazed, in a case	0-8-6
96 Ditto	0-9-6
97 Two 12 inch brass reflecting telescopes, unfinished	1-4-0
98 One ditto	0-19-6
99 Two ditto	0-17-0
100 Three brass stands for telescopes, 4 brass pillars and joints and 1 set of feet for ditto	1-5-0
101 Part of an orrery, support for a telescope sun dial, and Gunter's Quadrant	0-10-0
102 A portable brass stand, part of a 2 ft. 3 drawer telescope, 2 Hook's jointed handles, 2 telescope tubes and sundries	0-17-0
103 Twenty Storer's patent subscription telescopes, unfinished	1-17-0
104 Eighteen ditto	0-19-0
105 Twenty ditto	1-5-0
106 Eighteen ditto [Eighteen crossed out and changed for Twelve]	0-16-0
107 Ditto	1-3-0
108 Twelve ditto	1-1-0
109 A large brass stand with a long vertical axis for a telescope	2-13-0
110 A Storer's patent delineator, on a mahogany claw foot stand, unglazed	0-18-0
111 A ditto	0-12-0
112 A ditto	0-12-6
113 A mahogany table stand with sliding rack pillar, and part of 2 ditto	2-2-0
114 A large mahogany framed stand and part [...] small ditto	1-2-0

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115 Three portable cameras obscuras, unfinished	0-7-6
116 Ditto	0-3-6
117 Four ditto	0-12-6
118 Six 4 ft. 2 brass drawer telescopes, unfinished	0-16-0
119 Ditto	1-0-0
120 Four ditto	0-12-6
121 Ditto	0-15-0
122 Seven sets of brass tubes, for ditto	0-12-0
123 Six ditto	0-8-0
124 Thirty brass tubes, various, for ditto	1-5-0
125 Twelve mahogany telescopes and other tubes	0-5-0
126 A curious inlaid drawing case with part of a delineator, and a fowling piece, by Nickson	1-12-0
127 Clagget's patent tuning instruments	0-9-0
128 Ditto	0-9-0
129 Ditto, imperfect, parts of blow pipes, portable lamp furnaces and sundries	1-14-0
130 Fourteen Pocket purses, some spun glass, machine for making ditto and sundries	0-8-0
131 A box, containing about a 100 brass tubes, various	0-19-0
132 Ditto, 58	0-16-0
133 Ditto, 48	0-14-0
134 Two ditto, about 58	0-15-6
135 A model of a new invented boat steerage, sundry bronzed figures, 2 moulds for casting in plaister and sundries	1-15-0
136 Six tortoiseshell tubes, a measuring tape and sundries	0-10-6

In the Garrets

- 137 A work bench and sundry wooden pieces and frames
138 A library table, a box, sundry wooden frames and pieces
139 Sundry large plaister figures
Crossed out the last two lots:
140 A work bench with deal drawer
141 Sundry [illegible], troughs, parts of machines, &c.

End of the First Day's Sale

Note: No prices written for the final lots. On the last two pages, the catalogue user gave up on totalling hammer prices. However, he totalled the prices on page 7 and added this to a parallel totalling on pages 4 5 and 6 for lots where he wrote the hammer price on the opposite column. This suggests that these are the lots he bought himself. There are 21 lots in this alternative system, for a total £ 19-10-0.

John Field, 1795

A catalogue of the genuine and valuable stock in trade, working tools, a capital chamber organ, in a mahogany case, an upright harpsichord, an air gun, by Bate, &c., of Mr. John Field, optical, mathematical, and philosophical instrument-maker, quitting the business; which will be sold by auction, by Mr. Fletcher, on Thursday the 24th of September, 1795, and following day, at eleven o'clock, on the premises, No. 74, Cornhill, by order of the proprietor; consisting of a variety of reflecting, improved acromatic, levelling, night and day, and pocket telescopes; solar and other microscopes, theodolites, circumferenters, air pumps, electrifying machines and apparatus, large globes, orreries, planetariums, sextants and quadrants, elegant barometers, thermometers and hydrometers, convex and concave mirrors, camera obscuras, magic lanterns and sliders, a variety of opera and reading glasses, drawing instruments, and every other article in the above branches (.....)

15 pages, both day's sales, total 291 + 35 = 326 lots. Prices throughout, no names of buyers. Mostly instruments and tools, also a few books.

[Page 3]

A CATALOGUE &c.

First Day's Sale,

Thursday the 24th of September 1795

1 Three dozen horn concave boxes	0-9-0
2 Fifteen tortoise-shell ditto, and 13 watchmakers magnifiers	0-14-6
3 Fourteen double and single magnifying glasses, in horn	0-10-6
4 Twelve ditto, in tortoise-shell	1-5-0
5 Sixteen ditto, and single ditto	0-17-6
6 Ten horse shoe magnets	0-7-6
7 Two boxes of bubbles, a brewers thermometer, and 3 gauging rods	1-1-0
8 Four boxes of bubbles	0-12-0
9 Fifteen compasses, and 3 drawing pens	1-2-0
10 A pair of best triangle compasses, 3 drawing pens, 2 pair of compasses, 2 bow pens, knife and key	1-7-0
11 Seven money balances	1-2-0
12 Twenty-five brass pencil tops, 19 ivory ditto, 8 sectors, 2 feather edge scales, 5 protractors, 6 common ebony parallel rules, 4 double bar ditto, and 2 wood squares	1-3-0
13 A brass cross bar parallel rule, and a feather edge scale	0-14-0
14 A ditto, and protractor	1-0-0
15 Two brass sectors, 3 protractors, and a pair of gunners callipers	3-13-6
16 Four ivory French joint sectors, an ivory parallel rule, 5 protractors, and 8 feather edge scales	2-1-0
17 Three ebony parallel rules, brass edges	0-12-6
18 Two double bar parallel rules, and 6 single ditto	1-2-0
19 A 12 inch brass sextant, mahogany case	6-11-0

20 An artificial horizon, with dark glass and level	0-9-0
21 An ebony ivory arch quadrant, and a 2 feet acromatic telescope	2-13-0
22 A 3 feet improved acromatic telescope, on a stand	4-4-0

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23 A 4 feet large acromatic telescope, with brass drawers	5-2-6
24 A 3 feet ditto	3-10-0
25 A 2 feet ditto, and stand	2-16-0
26 A 20 inch ditto, and stand	2-11-0
27 A 3 feet acromatic telescope, with eye piece for hazey weather	2-3-0
28 An acromatic telescope, and an opera glass	0-18-0
29 A ditto, and microscope	1-2-0
30 A telescope, and opera glass	0-12-6
31 A microscope, opera glass, a compass, and a pair of hand glasses, in fish skin case	1-5-0
32 A ditto, ditto, ditto, and a pair of hand spectacles	1-3-0
33 A ditto, ditto, ditto, and a silver gilt concave glass	1-9-0
34 A set of bar magnets, in mahogany box	0-12-0
35 A set of horse shoe magnets, combined	1-12-0
36 A barometer, with hygrometer, and a thermometer	1-18-0
37 An excellent barometer, and a ditto thermometer	2-18-0
38 An elegant barometer, and a thermometer, inlaid	3-0-0
39 A neat barometer, with hygrometer	1-14-0
40 A ditto, and thermometer, fish-skin case	2-0-0
41 A capital brass 30 inch acromatic ditto, on a stand, in mahogany box	8-10-6
42 An 18 inch reflecting telescope, on a stand, in mahogany box	4-15-0
43 A 4 feet large improved acromatic telescope	4-6-0
44 Two night and day acromatic ditto	4-4-0
45 One 2 feet acromatic telescope	[illegible]
46 One ditto	1-16-0
47 Three 2 feet large night telescopes	3-12-0
48 Three ditto	[illegible]
49 Two ditto	2-12-6
50 A very good pull-out acromatic telescope, with astronomical eye piece to ditto, and a pair of silver double joint spectacles, in black case	4-12-0
51 A large mahogany camera obscura	2-12-6
52 A pair of 18 inch globes	6-8-6
53 One 18 inch terrestrial ditto, best mounted	4-11-0
54 One 12 inch celestial	1-1-0
55 A pair of 9 inch globes	1-17-0
56 One pair of 18 inch red leather globe covers, 3 pair of 12 inches ditto, 1 green baze ditto, and 1 pair of 9 inches ditto	0-13-6

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57 A 15 inch concave mirror, claw feet	3-8-0
58 A 17 inch oval ditto	3-0-0
59 A 12 inch ditto	1-14-0
60 A large solar microscope, mahogany case	3-15-0
61 A smaller ditto, and 12 bottles of salts, mahogany boxes	3-3-0
62 A theodolite of the best kind, and staff, in mahogany boxes	12-12-0
63 An improved circumferenter, with parallel plate, and mahogany staff	3-3-0
64 A ditto common, and staff	1-12-0
65 A ditto, and ditto	1-12-0
66 A best levelling instrument, and staff, in mahogany boxes	4-8-0
67 A capital fine toned chamber organ, in mahogany case, on rollers, consisting of stop diapason, open diapason, principal, fifteenth, sesquialtra, cornet, and trumpet, with hautboy swell	73-10-0
68 A very good upright harpsichord, in a mahogany case, by Mitzner	5-5-0
69 A large orrery, with wheel work	[price hard to read: 18?]
70 A smaller ditto, glass cover	9-9-0
71 A ditto, common	0-18-0
72 A cometarium, on an improved construction	2-13-0
73 A ditto, by Ferguson	1-13-0
74 A planetarium	1-4-0
75 A manuel planetarium	1-4-0
76 A ditto	1-3-0
77 An ebony ivory arch quadrant, double observation, brass index, and box	1-11-0
78 Ditto, ditto	1-9-0
79 A large 3 pillar microscope, mahogany box	3-10-0
80 Ditto	3-14-0
81 A capital electrical machine, with apparatus, in a stained box	3-18-6
82 A ditto, with medical apparatus in ditto	3-3-0
83 A small neat ditto, and conductor	1-17-0
84 Electrical apparatus, a luminous conductor, universal discharger, thunder house, tin house for firing cotton, 2 jars, and glass leg stool	2-3-0
85 Ditto, a thunder house, a double jar, single ditto, ditto with electrometer, and glass leg stool	1-18-0

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86 Ditto, a four-jar battery, a thunder house, a set of spiral tubes, a glass of inflammable air pistol, and luminous flask	2-13-0
87 A small single barrel air pump	2-8-0
88 A diagonal machine for viewing prints, and 40 coloured prints	2-5-0
89 A pair of double joint silver spectacles, with pebbles, green nourse-skin case silver mounted, and a reading glass, silver and pearl	2-8-0
90 A pair of ditto glasses silver gilt in ditto, and a large reading glass, silver and tortoise-shell	1-15-0
91 A pair of ditto pebbles, in Morocco ditto, and a pair of hand spectacles, silver and tortoise-shell	1-14-0

92 A pair of ditto glasses in nourse-skin, and a pair of hand ditto	1-12-0
93 A pair of ditto, plain case, and an opera glass	0-18-0
94 A pair of tortoise-shell spectacles, green glasses, and an opera glass, tortoise-shell and silver	0-18-0
95 A pair of glasses, silver mounted, single joints, a reading glass, and a pair of hand spectacles	0-13-0
96 Ditto, ditto, tortoise-shell, and a pocket microscope, with 2 glasses	0-19-0
97 A 2 feet large acromatic telescope	1-18-0
98 Ditto smaller	1-15-0
99 One 2 feet ditto	1-15-0
100 A 20 inch ditto, and an opera glass, ivory and silver	2-2-0
101 Two 3 feet ditto	3-11-0
102 A pair of double spectacles, silver and pearl, ditto single, ditto spring box, 2 ditto concave boxes, a tortoise-shell and silver reading glass, and an opera glass	2-19-0
103 Ditto, ditto, ditto, 2 concave boxes, tortoise-shell and silver, a reading glass, and an opera glass	2-12-6
104 Ditto, single ditto, tortoise-shell and silver, 2 concave ditto, 1 pearl reading glass, and 1 tortoise-shell ditto	2-10-0
105 Six tortoise-shell double hand spectacle cases	0-14-0
106 Four ditto reading glasses, 1 pair of tortoise-shell hand spectacle cases, and 3 concave ditto	0-17-0
107 One horn reading glass, 3 ditto hand spectacle cases, and 4 ditto concave ditto	0-10-0

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108 A magazine case of the best 4½ inch drawing instruments, with ivory scales	2-2-0
109 A case of 6 inch ditto, with proportional compasses, and a drawing square	3-4-0
110 A 10 inches best divided protractor, with nonius, in mahogany box, and a pair of 6 inches proportional compasses	2-7-0
111 Two best spirit levels, 1 with sights	1-1-0
112 A set of best drawing instruments, ivory scale, and parallel rule, in nourse-skin case, silver mounted	2-18-0
113 Ditto	2-10-0
114 Quin's hydrometer in fish skin case, and a brewer's thermometer, metal scale	2-16-0
115 Ditto, no case	1-10-0
116 Clark's ditto, mahogany box	1-8-0
117 Two glass hydrometers with spirit thermometers	0-16-0
118 Three brewing thermometers, tin cases	0-18-0
119 Five long box scale thermometers	1-5-0
120 Seven ditto smaller	1-8-0
121 A parcel of spirit thermometers	0-6-6
122 Two ivory scale thermometers, fish-skin cases, 2 medical ditto, and 2 ditto unfinished	1-10-0
123 Two dozen and nine very good thermometer tubes	1-11-6
124 A metal scale thermometer, fish-skin case, 2 ditto, no cases, 1 ditto unfinished, and 4 box scales, ditto, ditto	1-3-0

125 An excellent copper plate for a 4 inch terrestrial globe, and horizon plate to ditto	9-9-0
126 Six opera glasses, in Morocco cases, a pair of goggles, and 3 cases for ditto	2-3-0
127 Six ditto	1-13-0
128 Three ditto, and 2 perspective, 1 no case	1-18-0
129 Four electrical flyers and point, an 8 inch round protractor, and a 5 inch ditto	0-13-0
130 A load-stone armed, an hygrometer, 2 compasses, wood boxes, a small metal compass, and an ivory scale, for Quin's hydrometer	0-18-0
131 Six pair of single joint spectacles, 1 no glasses	2-8-0
132 Six pair double joint ditto	3-8-0
133 Six pair ditto	3-6-0
134 Five pair ditto, 3 nose frames, and 1 tortoise-shell and silver ditto	2-18-0

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135 Six pair of single joint tortoise-shell ditto	1-3-0
136 Four pair of double joint silver concave spectacles	2-5-0
137 Two double joint tortoise-shell and silver frames, and 7 single ditto	1-15-0
138 Eighteen dozen pair of spectacle glasses	2-7-0
139 Twenty-two pair of pebbles for spectacles, 1 pair unwrought, and 1 large ditto	4-16-0
140 Sixty dozen of concave glasses, and 15 concave pattern	1-15-0
141 Nine dozen pair of green glasses, 8 large green glasses, and sundry pieces coloured glass	2-2-0
142 Seven prisms, and 3 spirit proofs	2-0-0
143 Forty-nine large and small convex lenses, and 2 glass lumps	2-2-0
144 Thirty-four flint reading glasses, and 8 plate ditto	2-1-0
145 Three glass plates for electrifying machines, and 4 round plates	0-12-0
146 Three plate glasses, 1 silvered, and sundry pieces of ditto	0-5-0
147 Twenty glass hydrometers, 3 glass tubes for microscopes, 5 opera tubes, 2 tortoise-shell tubes, and 3 pair of gogler horns	0-8-0
148 A large quantity of barometer and thermometer tubes	0-16-0
149 Sundry ditto, and deal cupboard	0-15-0
150 A diagonal barometer tube, filled with mercury	[no price]

BOOKS

151 Nautical Almanack from the year 1780 to 1790 inclusive, and 2 books of requisite tables to ditto	1-?-0
152 Nollet's Experimental Philosophy, 5 tom	0-13-0
153 Colson's Philosophy, 2 vol – Deane's Copernican System, and Harris on the Globes	0-7-6
154 Bennet on Electricity – Six on the Thermometer – Hauxbies Experiments, and 2 others	0-11-0
155 One hundred and fifty Pamphlets for Globes	1-7-0
156 One hundred and twenty ditto	1-1-0
157 Ninety-six ditto, for instruments	1-10-0

End of the First Day's Sale.

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Second Day's Sale,

FRIDAY, SEPTEMBER 25, 1795.

158 Two dozen magnets, in cases, and 6 magnet cases	0-9-0
159 Two mast makers rules, 6 sliding rules, 12 two feet rules, 4 one foot ditto, & 9 three feet ditto	1-15-0
160 Five bright mirrors, in fish-skin cases, 1 broke, and 4 black ditto, in ditto	1-1-0
161 Three dozen and 10 single joint spectacle frames	1-1-0
162 Two dozen double joint ditto	1-5-0
163 Twenty-nine pair of best double joint steel spectacles, 12 pair of best steel temple	2-13-0
164 Sixteen concave glasses, in tortoise-shell	0-17-0
165 Twelve ditto in horn	0-7-0
166 Eighteen convex ditto	0-10-6
167 Twenty-six pair common double joint spectacles	0-18-0
168 Seventeen ditto, and single ditto	0-17-6
169 Eight pair of nose ditto, & 18 pair of horn visuals	0-3-0
170 Three dozen and 10 Morocco spectacle cases, and 6 black cases	1-17-0
171 One nourse-skin ditto, silver mounted, and 8 ditto plain	0-17-0
172 Fifteen black fish-skin instrument cases, 2 candle screen ditto, 7 opera, 17 paper opera, 6 Morocco, 4 fish-skin microscope, 2 compass, 1 thermometer ditto, and 3 spectacle paper ditto	1-13-0
173 One sliding Gunter's scale, 5 common ditto, and 12 feather edge scales	0-13-6
174 A large magic lantern, and 1 dozen slides	2-14-0

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175 Seventeen slides for magic lanterns	2-1-0
176 A small camera obscura	0-7-0
177 A mahogany ivory arch quadrant, double observation, and a brass speaking trumpet	1-9-0
178 An ebony ditto, half brass index	1-8-0
179 A mahogany ditto, brass index, and a 2 feet acromatic telescope	2-10-0
180 A mahogany box arch ditto	0-13-0
181 A ditto single, wants index glass	0-10-0
182 A ditto double, ivory arch	1-2-0
183 One 3 feet acromatic telescope	1-8-0
184 One 2 feet ditto	1-13-0
185 Three telescopes, painted sticks	0-15-0
186 One 3 foot telescope	0-13-0
187 Two ditto	0-18-0

188 Three ditto	2-2-0
189 One 30 inch large acromatic ditto	3-3-0
190 A capital brass 30 inch acromatic ditto, on a stand, in a mahogany box	7-10-0
191 An 18 inch reflecting telescope, on stand, in a mahogany box	5-0-0
192 A 2 feet ditto	8-8-0
193 A 12 inch ditto	3-16-0
194 A pocket ditto	1-12-0
195 A thermometer, with double scale, metal plate	0-19-0
196 A neat barometer, inlaid with sattin wood, and thermometer	2-18-0
197 An elegant barometer, thermometer, and hygrometer, inlaid	4-0-0
198 A 15 inch concave mirror, black frame	3-3-0
199 A 10 inch ditto	1-8-0
200 Two 9 inch concave and convex ditto	2-8-0
201 One 6 inch and one 5 inch concave with handles	1-4-0
202 One cylindrical mirror, neat black frame	1-5-0
203 A chest microscope, mahogany box, no objects in sliders, and a set of small knives for ditto	6-0-0
204 A compound microscope, mahogany box	2-5-0
205 A small scroll microscope, in ditto, and a set of boxes for objects	1-14-0
206 A ditto, no objects to sliders	1-9-0
207 A small solar microscope	3-8-0
208 A ditto	3-13-6

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209 A large camera obscura, mahogany case	1-15-0
210 A ditto	1-10-0
211 A smaller ditto, and a telescope	1-9-0
212 A pocket ditto, and ditto	1-1-0
213 A theodolite of the best kind, and staff, mahogany box	9-11-6
214 A levelling telescope, and staff	2-12-6
215 A plane table, and staff	2-5-0
216 A common theodolite, mahogany staff, and boxes	5-12-6
217 A small surveying compass, with single staff	0-16-0
218 A large measuring wheel	3-11-0
219 A pair of jointed off-set staffs, a pocket instrument for taking off sets, and a measuring chain	1-9-0
220 A pair of beam compasses, mahogany box	1-0-0
221 Two two-pole measuring chains, 6 measuring tapes, and 1 box for ditto	1-0-0
222 One large 30 inch acromatic telescope	3-16-0
223 Six common telescopes	2-7-0
224 A very capital double barrel standing air pump, with several receivers	17-0-0
225 A small single barrel dito	2-13-0
226 A capital air gun, by Bate, 2 copper balls, a syring, and stool for condensing the balls	10-10-0
227 A Nooth's machine for making artificial Pyrmont water	1-2-0

228 A tin machine for making and applying fixed air in ulcerous complaints	1-6-0
229 <i>An electrical machine, with medical apparatus, negative and positive conductors, in a stained box</i>	3-15-0
230 A portable medical ditto	1-13-0
231 Electrical apparatus, a large jar, powder house, inflammable air pistol, and luminous flask	1-2-0
232 Ditto, a large jar, thunder house, diamond jar, electrical picture, an inflammable air lamp, and a Cavallo's electrometer	2-7-0
233 A jar with electrometer, and luminous flask	0-11-0
234 Sundry unfinished jars	0-12-6
235 Five electrical jars, and 2 luminous flasks	1-4-0
236 A set of glass pumps	1-12-0
237 A diagonal machine for viewing prints, and 20 coloured large prints	1-16-0
238 A small sun dial, and a silver pocket compass	1-12-0

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239 A small magic lantern, and a scioptric ball	0-11-6
240 Two optical deceptions, mahogany boxes	1-10-0
241 A set of best drawing instruments, ivory scale, parallel rule, nourse-skin case, silver mounted	2-14-0
242 A ditto, no parallel rule	2-2-0
243 A set of small silver ditto, in ditto	1-0-0
244 A ditto, plain case	1-13-0
245 A pair of single joint silver spectacles with pebbles, in green nourse-skin case, silver mounted	1-9-0
246 A pair of double joint concave ditto, in ditto	0-17-6
247 A pair of oval ditto on Morocco case, and a candle screen, fish-skin case	1-1-0
248 A pocket globe, a small microscope, and a curious opera glass	1-7-0
249 A very curious terrestrial dissected globe, mahogany case	1-7-0
250 An elegant silver and tortoise-shell acromatic perspective, in a nourse-skin case, silver mounted	2-2-0
251 A ditto, in ditto	2-2-0
252 An elegant pearl and silver reading glass, and a ditto opera, plated	1-14-0
253 A pearl and silver concave glass, an opera glass plated, and a pocket microscope	1-17-0
254 Five brass Acorn's microscopes, and 1 ivory ditto	0-15-0
255 Three linen provers, and 3 ditto double squares	0-11-6
256 Twelve double magnifiers, in brass, 7 without glasses	0-17-0
257 Four second glasses, and seven opera ditto	1-1-0
258 A glass hydrometer, and quick silver thermometer, gauging rod, and float	0-11-6
259 Two ditto, and spirit thermometers	0-12-6
260 Two brewing thermometers, metal scales, and 1 box ditto	1-3-0
261 A Six's thermometer, with magnet to ditto	1-2-0
262 A long metal scale thermometer	0-17-0
263 Ditto, with 2 scales	0-18-0

264 A ditto, with scale to turn up for chiminal experiments	1-0-0
265 A ditto	1-12-0
266 A botanic thermometer	0-8-0
267 A brass thermometer, with 2 scales	0-11-6
268 A double barometer	0-10-0
269 A pyrometer	0-13-0

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270 Two marine barometers, unfinished	1-1-0
271 Seven mariners compasses	3-15-0
272 A pair of globes, terrestrial and celestial	1-8-0
273 Two ebony ivory arch sextants and cases, 2 mahogany ditto and ditto, 1 ditto box arch and ditto, and 2 spare cases	2-0-0
274 A scrole microscope, no glasses, and 2 brass apparatus for applying to bellows for the recovery of drowned persons, wants valves	1-6-0
275 Ten brass electrical balls, 40 pith ditto, some brass chain, and 4 iron clamps	0-15-0
276 Five sextant telescopes, 2 drawers for large telescopes, 2 silver tubes for operas, and sundry eye pieces	1-4-0
277 Brass work for 2 hygrometers, 20 level tubes, and sundries	0-7-6
278 Twelve dozen glasses for operas	2-13-0
279 Twelve dozen ditto	2-6-0
280 Twelve dozen concave ditto	1-0-0
281 One hundred and forty small magnifiers	1-8-0
282 Twelve dozen magnifiers	1-2-0
283 Ditto	1-1-0
284 Ditto	1-1-0
285 Ditto	1-1-0
286 Ditto	1-2-0
287 Ditto	1-0-0
288 Three dark glass mirrors, 3 silvered ditto, 20 glasses for microscope mirrors, and sundry small object glasses	1-1-0
289 A quantity of dark and green parallel glass for quadrants, a set of glasses for an artificial horizon, and 3 sets of index glasses	1-13-0
290 A large glass cylinder and jar, 8 smaller ditto, and glass sundry pillars	1-5-0
291 Sundry glasses wrought on one side	0-10-0

TOOLS

1 A very good hand lathe, a quantity of chucks for ditto, and turning tools	2-13-0
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Follow 3 written lots, illegibly faint, only the prices can be read: 4-9-0, 3-10-0 and 5-0-0

Page 14

2 A ditto standing lathe	4-4-0
3 A ditto	2-2-0

4 Two standing vices, a pair of shears, and a strong work bench	1-17-0
5 A brush lathe	0-15-6
6 A grindstone and trough	0-15-0
7 A pair of very good forge bellows, lead pipe, and a too-iron to ditto	1-4-0
8 A ditto lamp table and bellows	1-2-0
9 A machine for cutting wood for microscope sliders	1-2-0
10 A very good cutting diamond, and 2 ditto drills	0-18-0
11 A level tryer, a dividing plate for a barometer, and a pair of large beam compasses	0-9-6
12 A brass divided plate, into 360 and 365, a ditto smaller, and 3 strait edges	0-7-6
13 A pair of large stocks, 7 pair of dies, a pair of small ditto, 10 pair of ditto, 3 screw plates, 1 watchmaker's ditto, 8 taps, 39 steel ditto, 2 large brass ditto, and a pump tap, and plate	2-18-0
14 Twenty-four drills various, 7 common broaches, and 2 thorough ditto	0-7-6
15 Twelve steel punches, 9 flat ditto, 9 chissels, 2 hollow punches, and 1 ball tool	0-3-0
16 Four fluted broaches, 6 common ditto, a forked key, a pair of arch compasses with shifting point	0-10-6
17 Two turn benches, iron backed saw, brass ditto, watch spring ditto, and 6 screw drivers	0-13-0
18 An iron plane for brass, a mahogany planing board, 1 brass and 1 iron plough	2-3-0
19 Three sets of steel letters and 4 sets of figures	1-13-0
20 A racking tool, 4 strait edges, 2 lacker brushes, a pair of sights, 3 hammers, 3 hand vices, a pair of dividers, and a breast plate	0-8-0
21 Seven large iron triblets	1-2-0
22 Five pump borers, and winch for ditto, brass screw clamp	0-4-6
23 A condensing machine, 2 brass squares, a brass guage, and 4 saws	0-16-0
24 Three shop candlesticks, sundry pieces of box, ivory and sundries	0-8-0
25 A pair of copper scales, one 14lb. one 7lb, one 4 lb. one 2lb. one 1lb, one ½lb, and 2 small weights	1-8-0

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26 A large quantity of patterns, brass and wood [crossed out, no price]	
27 A very good iron center point, for lathes	0-17-0
28 Nine pair of screw tools, and 3 milling ditto	0-8-0
29 Sixty files various, and sundry turning tools [crossed out, no price]	
30 A quantity of cast brass, at per lb [price illegible]	
31 Plate ditto, ditto [price illegible]	
32 Sundries [crossed out, no price]	
33 A German stove and pan, 12 feet of pipe, and a wainscot bureau	1-5-0
34 A mahogany glass case, with 3 sliding drawers, 2 smaller ditto, 2 mahogany shew boards, and 2 ditto stands	3-0-0
35 A mahogany flap desk, and 2 brass patent lamps	1-18-0

FINIS.

Hurter and Haas, 1795

A catalogue of all the valuable stock in trade of mathematical and philosophical instruments, of Messrs. Hurter and Haas, dissolving partnership; comprising large electrical machines, air pumps, and orreries, on approved principles; a capital astronomical and geographical clock, the recent and ingenious invention of the above artist Mr. J.B. Haas; a set of mechanical powers, and a very extensive assemblage of apparatus for pneumatics, hydraulics, electricity, and every branch of experimental philosophy. Also, many excellent turning lathes, dividing engines, many newly invented tools, with vices, and implements in the work-shops. Which will be sold by auction by Mr. Christie, on the premises, No. 53, Great Marlborough Street, Oxford Road, on Wednesday, December the 23rd, 1795, at twelve o'clock (.....)

10 pages, 141 lots: 'Mathematical instruments' (lots 1-107) and 'Turning lathes, tools, and implements in the shop' (lots 108-141). Prices throughout, no names of buyers.

Page 3

A / CATALOGUE / &c &c. &c.

Wednesday, December the 23^d, 1795.

MATHEMATICAL INSTRUMENTS

1 A Quantity of loose spectacle glasses	0-3-0
2 A quantity of rules of various sorts	1-1-0
3 Five steel spectacle cases, a quantity of fishskin ditto, and a quantity of papier maché ditto	0-8-0
4 Twenty-two reading glasses in horn [a bracket indicates that 0-8-0 was for lots 3+ 4]	
5 Four dozen pairs of common steel spectacles, single-jointed, glazed, and a dozen pairs of nose spectacles, ditto	0-18-0
	£ 2-10-0

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6 Six dozen pairs of common steel ditto, unglazed	2-2-0
7 Three dozen pairs of best single-templed steel frames, unglazed	1-4-0
8 Three dozen of double-templed steel ditto frames, glazed and unglazed	1-10-0
9 An opera glass in a red morocco case, and a small ivory ditto	0-13-0
10 A ditto large, mounted with tortoiseshell, and a small black ivory ditto in red case	0-18-0
11 One large and 1 small ditto	0-9-0
12 Two large ditto in black cases, and a diagonal eye piece for a telescope	0-6-0
13 An ivory and tortoiseshell opera glass, 3 linen provers, and a magnifier	0-18-0
14 Three ivory-mounted opera glasses	0-10-6
15 Ditto	0-10-6
16 Three ditto and a perspective glass	0-19-6
17 Thirty-three dozen of black lead pencils and 16 cakes of Indian ink	1-11-6
18 A quantity of lenses and magnifiers	0-17-6

19 A quantity of red Morocco spectacle cases and nourse skin ditto	3-1-0
20 A quantity of spectacle and telescope glasses	2-0-0
21 A quantity of telescope and opera-glass tubes	0-18-0
22 Sundry sets of drawing instruments	2-17-0
23 Five pocket compasses and 5 miners ditto	1-1-0
24 Eight six-inch parallel rules, 2 nine-inch ditto, 3 twelve-inch ditto and 1 eighteen-inch ditto	0-11-0
25 Three tortoisshell reading glasses, 25 ditto eye glasses, 2 pair of nose ditto, 13 ditto magnifiers, 20 pairs of ditto frames and 2 hand glasses	3-3-0
26 Four pairs of silver spectacles	1-7-0

£ 29-19-0

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27 Two pairs of silver mounted ditto, 2 tortoisshell eye glasses, mounted with silver, and 2 pearl ditto	1-13-0
28 Two turtleshell spectacle cases, mounted	0-13-0
29 A turtleshell snuff box mounted with silver, with logarithmic scale and perpetual almanac	2-2-0
30 A variation compass, and microscope to ditto	1-19-0
31 A pair of best proportional compasses	1-6-0
32 A nine-inch ivory plotting scale and a pair of triangular compasses	0-17-0
33 A fourteen-inch brass sector and protractor	1-2-0
34 Ditto	1-4-0
35 A circular logarithmic scale of numbers, a strait ditto and a sliding rule	1-0-0
36 A two-foot cross-bar, parallel rule with steel edges, and a two-foot Gunter's scale	0-19-0
37 A press for copying letters in a mahogany case	2-15-0
38 A ditto incomplete, and an empty mahogany case	0-11-0
39 A De Luc's hygrometer	1-8-0
40 Ditto	1-10-0
41 Ditto	1-11-0
42 Ditto	1-11-6
43 A De Luc's chamber hygrometer with a case	1-10-0
44 Ditto	1-6-0
45 Ditto	1-4-0
46 One small ditto, and a large hygrometer	1-3-0
47 Two sets of magnets in mahogany cases, 2 horseshoe ditto, 1 bar ditto, and some loadstone	0-18-0
48 A barometer for taking the height of mountains in a mahogany case	6-2-6
49 A ditto without a case	5-17-6
50 A ditto	4-3-0
51 A syphon barometer	0-14-0

£ 75-1-0

Page 6

52 A thermometer, and a De Luc's spirit thermometer	0-15-0
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53 A De Luc's spirit thermometer, and a standard thermometer [broken*]	0-5-6
54 A De Luc's spirit thermometer, and a Saussure's hygrometer	0-13-6
55 A common house barometer, a small thermometer, and a pulse glass	1-10-0
56 A Farenheit's thermometer, and a De Luc's spirit thermometer	1-1-0
57 Three glass tube thermometers in shagreen cases	1-4-0
58 A capital electrical machine with a multiplying wheel on an mahogany stand, a large japanned tin conductor, and an electrical swing chair	8-0-0
59 A small electrical machine with a brass conductor	1-2-0
60 A ditto complete, with jar and conductor	1-11-6
61 An eight-inch cylinder, a glass legged stool, and a luminous conductor	0-19-0
62 A small electrical machine with a brass conductor	1-5-0
63 Two large jars uncoated, 4 smaller, sundry small ditto, and an electrical battery	0-17-0
64 A large and small flask for the Aurora borealis mounted, an electrical pistol, an universal discharger, a pair of electrical plates, and an electrical orrery	1-1-0
65 A ditto flask and 2 smaller, an electrical pistol, an universal discharger, and an electrical orrery	0-18-0
66 An universal discharger, a common ditto, an electrical pyramid, a set of bells, a pair of directors, a concave mirror, a Leyden vial and electrometer, and an illuminated flask	1-2-0

£ 97-3-6

Page 7

67 A glass tube for a luminous conductor, and 5 large feet for an electrical stool	0-11-0
68 A capital large air pump, (two-inch bore) with gauge	7-10-0
69 A large capital condensing engine	2-10-0
70 Ditto	2-8-0
71 Eleven large close receivers	1-11-0
72 Nine open ditto, 3 tall receivers, and sundry air pump glasses	0-16-0
73 Eight glass retorts, 3 globes, a chymical glass, sundry glass globes and flasks, and a bath for artificial airs	1-5-0
74 A small exhausting air pump, a pair of transferring plates, and pair of brass hemispheres	2-6-0
75 A pair of excellent transferring plates, and a fountain jet	1-12-0
76 An apparatus for the gunpowder experiment, a ditto for the bell, a ditto for mixing liquors in vacuo, and sundries	1-12-0
77 Three large tubes for the Torricellian experiment, 7 smaller mounted, and a stand to ditto	0-8-0
78 A syringe and a receiver for a vacuum, and a guinea and feather dropper, and receiver	1-5-0
79 A windmill, and an aerometer for the air pump	2-0-0
80 A guinea and feather dropper and receiver, a condensing receiver mounted, and a receiver mounted	1-11-6
81 A model of a lifting pump, a ditto of a forcing pump in a japanned case, a ditto, and a ditto unmounted	1-5-0

£ 125-13-0

Page 8

82 A camera obscura [replaced by 'A quantity of Glasses']*]	0-5-0
83 A set of mechanical powers to illustrate the simple and compound levers	2-8-0
84 A ditto for the screw, dented wheels, and axis in peritrochio	1-19-0
85 A ditto for the inclined plane and wedge, and a set and system of pullies	3-0-0
86 A complete telescope with a newly invented micrometer by Cavallo	4-0-0
87 A reflecting ditto in a mahogany case	3-3-0
88 Ditto	2-17-0
89 A small model of an equatorial, 3 of air pumps, 1 ditto of a condensing engine, and ditto of a press	1-1-0
90 A small portable orrery under a glass shade	1-2-0
91 A model of a small orrery with glass shade, and a nine-inch globe unmounted	0-8-0
92 A pair of twelve inch globes	0-12-0
93 A pair of ditto unmounted	0-13-0
94 A pair of twelve-inch ditto mounted	1-14-0
95 A <i>CURIOUS ASTRONOMICAL and GEOGRAPHICAL CLOCK, tells the hours and days of the months, and at the same time forms a solar and lunar orrery</i>	4-12-6
96 Five barometer scales, and an artificial horizon	0-8-0
97 A chest camera obscura	0-10-6
98 A sun dial, a stand for a mountain barometer, and a nine-inch brass sphere	0-6-6
99 Sundry electrical apparatus	0-13-6
100 Sundry brass work	0-14-0
101 Two De Luc's hygrometers, sundry telescope and opera work, and a camera obscura	0-14-0

£ 155-19-0

Page 9

102 A capital planetarium with wheel-work	1-16-0
103 A twelve-inch reflecting telescope	1-12-0
104 A set of 5 patent lamps in a japanned case, and a two-light japanned shop ditto	1-1-0
105 A mahogany counting house desk with drawers, and a ditto stool	0-15-0
106 A counter with drawers, a wainscot chest of ditto, a deal table and 2 pair of steps	0-5-0
107 The shew frames and drawers, as fixed	2-0-0
<i>Turning Laths, Tools, and Implements in the Shop.</i>	
108 A circular dividing engine	16-16-0
109 A ditto on an inclined plane with apparatus	7-5-0
110 A ditto straight line screw dividing engine	2-2-0

111 A set of taper, and cylindrical triplets	3-8-0
112 A large turning lathe	4-14-6
<hr/>	
113 A ditto smaller with sundry tools	10-0-0
114 Ditto with ditto	6-16-6
115 Ditto with ditto	7-7-0
Note: bracket around lots 111-115: "with chucks"	
116 Nine standing vices and 2 bench ditto	5-15-6
117 A small portable forge with tongs, shears, hammer and an anvil	4-16-0
118 A quantity of modern patterns	0-11-6
119 A quantity of old ditto	0-5-0
120 A complete set of taps and dies with screw plates	2-14-0
121 A theodolite, unfinished	2-13-0
122 A box of unfinished work	0-7-6
123 A grindstone and a pair of large and small scales and weights	0-10-6
124 The benches throughout the work-shops	0-9-0
125 A quantity of turning tools and gouges	0-15-0
126 Four planes, 3 saws, braces, a glue pot and 3 oil stones, 3 bows, some candlesticks snuffers, and oil cans	1-4-0
	£ 241-3-6
Page 10	
127 A quantity of waste, cast and plate brass	1-0-0
128 A quantity of useful ditto	1-7-0
129 A lamp and bellows, and a quantity of glass tubes	0-17-0
130 Four turn benches, 1 iron plane, 3 flat plates and sundry tools	7-0-0
131 Three boxes of old files, &c, a box of punches and a box of old iron	0-12-0
132 A quantity of brass dust	1-10-0
133 A number of damaged jars and receivers, a box of glass tubes, a box of solid glass, and a box of broken glass	1-1-0
134 A condensing engine, a mahogany stand, a wheel and pulley for an electrical machine, and a copper globe	0-6-6
135 Sundry cabinet maker's tools	0-8-0
136 Two stoves and a pipe	1-9-0
137 A tin case of lime and sundry boxes and shelves	0-10-0
138 Two stakes, 5 hammers, 1 pair of shears, 1 pair of wafer tongs, 3 grindstones and sundries	0-15-6
139 Sundry pieces of mahogany	0-17-6
140 Sundry lumber	0-7-0
141 A cutting engine, a hand lathe, and a tin box of lime	1-18-0
	£ 266-2-0

FINIS.

Note: The marked-up copy in Christie's Archives, King Street, St James's, London, contains interesting additional information.

Firstly, the buyers are noted, and among these is Jones for lots 29, 32, 34, 39, 40, 44, 45, 47, 50, 70, 74 and 98. In the Oxford copy, a mark appears in the margin for all but two (47 and 74) of these lots. This seems conclusive evidence that this copy – and by implication all other catalogues in the Oxford set - was used by the instrument maker William Jones or his brother Samuel Jones. This had already been assumed on other evidence, as argued in the first article listed in the heading to this appendix.

Others buyers are Watkins (lots 8, 15, 32), presumably the instrument maker Francis Watkins (1723-1791), and a certain Pennington, who bought among others lots 108-112, 114-115 and 117-126, being most of the machinery, including the dividing engines and lathes. Lot 95, the clock invented by Haas, highlighted in the title page, was bought by a certain Roberts.

Secondly, there are brackets before the lot numbers, mostly marked 'Haas' or 'Hurter', with occasionally another name; details below. Did this indicate that the marked lot had been brought into the partnership by that person and that therefore the proceeds are for him? This seems more convincing for tools than for products, finished and unfinished. By the far the largest number of lots, including virtually all machinery and tools, has the bracket 'Haas', which suggests he had been the most important partner. 'Haas': 1-59, 62-65, 68-72, 74-81, 83-93, 95, 96, 98-101, 108-133, 136, 138-140. 'Hurter': 66, 67, 73, 82, 97, 104-107, 134, 135, 137, 141.

Lots 60, 102 and 103 are marked 'Law' (?), lots 61 and 94 are marked 'Marsh'.

William Ludlam, 1788

As a title page is lacking, the catalogue is anonymous, but we now know that the vendor is the mathematical practitioner, the Reverend William Ludlam (1717-1788).

There are 4 pages with 97 lots. No annotation of prices or names of buyers. The catalogue is slightly damaged, and the xerox copy is faint and awkwardly bound. As a result, very occasionally parts of the transcription are either left blank or are speculative.

MATHEMATICAL INSTRUMENTS

- 1 Two 24 inch double jointed Box Rules, into different parts of an inch
- 2 One ditto, a Glaziers Box foot Rule, a 6 inch Box Sector
- 3 Two large Box double Sliding Rules for computing
- 4 A Gunter's 6 inch Brass Quadrant, A Sutton's 9 inch Wood Quadrant, A ... inch Quadrant, with a Telescope
- 5 Sundry Steel Compass Points, Dotting Wheels, Port-Crayons
- 6 Two Brass Protractors, Brass S...ting Square, and T Square
- 7 One fourteen inch Box Rule, with Nonius Slider, inch, and half inch into 12 parts, one 7 inch ditto
- 8 One ditto, inch, and half inch, into 10 parts, one 7 inch do.
- 9 One eighteen inch Box Rule single joint, into 8ths, 10ths, and foot measure, by Bird
- 10 One twelve inch ditto, by Bird
- 11 One Pair large Spring Dividers, one Pair small ditto
- 12 Ditto Ditto
- 13 One Pair ditto with moveable points
- 14 Pair of three legged Compasses
- 15 Very nice Pair of proportional Compasses
- 16 English Yard steel Foot Rod, Ends
- 17 A two foot feather edged Brass Scale, into inches and 50ths, and into inches and half inches diagonally, by Old Sisson
- 18 A two foot Brass Plotting Scale, inches 15.20.25. into 10ths and 12ths, by Old Sisson
- 19 A two foot Brass Plotting Scale 12 10ths. 3 qrs. one 8th. by Bird
- 20 Curious large Beam Compass, Brass Heads, Regulating Screw, 4 round Steel Points, 3 Cutting Points, Drawing Pen, Pencil, and Saw Point, in a neat Mahogany case, with 4 Beams of Green Ebony and Mahogany from 1 foot to 6
- 21 Curious small Beam Compass, Brass Heads, with deep Lenses, and Regulating Screw, 5 round Steel Points, 2 Cutting Points, Drawing Pen, and Pencil with a ground Steel Bar of one foot, and another of 5 inches, in a neat Mahogany case
- 22 Very nice Spirit Level
- 23 Mahogany Step Level, with Shifting Plumb-line
- 24 Mahogany Plumb Rule, with Shifting Plumb-line. A double cone Plummet with Steel Points
- 25 Instrument to shew the *Nature* of the Errors of the Equatorial arising from Mal-position of the Parts
- 26 Instrument to shew the *Nature* of the Errors of the Transit arising from Mal-position of the Parts

MODELS AND MACHINES

With the principal Models and Machines is a MSS description and directions, in Mr. L's own hand.

- 1 Model of HOOKE's Reflecting Quadrant
- 2 Model of Hadley's Sextant, to shew the motions of the reflected image
- 3 Model of a double Sextant, invented by Ewing. Also an Octant by Mr. Michell
- 4 Model of Clock Palet
- 5 Model of Circular and Reciprocal Motion
- 6 Models of parts of several sorts of Lathes, and Stocks, and Dies
- 7 Models of several sorts of Lathes to turn Ovals
- 8 Model of a perpetual Day of the Month
- 9 Model of Dial Work for a Month Regulator
- 10 Model of a Remontoir
- 11 Model of the Eschaptment of Harrison's Time-keeper, i.e. Longitude Watch
- 12 Model of Harrison's Remontoir and Double Balance
- 13 Model of a Solar Microscope
- 14 Model of a Solar Magic Lantern
- 15 Model of HOOKE's Universal Joint
- 16 Model of Machine to weigh Waggon
- 17 Model of Spring Repeating Clock with one Rack
- 18 Model of Eight Day Repeating Clock with one Rack
- 19 Model of Spring Repeating Clock with two Racks
- 20 Machine to describe a Conchoid
- 21 Machine for dividing Circles
- 22 Machine for drawing Perspective Views of Buildings, Machines, &c.

A most excellent Eight-day Clock, in an elegant case of solid mahogany, with dead seconds, remontoir, and compensation pendulum: - It repeats hours and quarters upon two bells.

OPTICAL & PHILOSOPHICAL INSTRUMENTS

- 1 Three Watch Glasses set in coco wood, Focus from ,5 to 1,7
- 2 Three ditto in Brass Cells, Focus ,55 to 1,4
- 3 One ditto in Tortoise Shell, Focus 1,8
- 4 Two ditto in Brass Tubes, Focus 1,5 to 1,95
- 5 Tin Box with seven Lenses of various Apertures, Focal lengths from 7,4 to 177 inches
- 6 Chip Box with 9 Lenses of various Apertures, Focal lengths from 4,3 to 16,8
- 7 Ditto with 7 Lenses of various Apertures, Focal lengths from 25,3 to 92,5 inches, with small Ox-eye-ball, two Cells and Mahogany Cell Boards

- 8 Six Chip Boxes with 15 Lenses of different Focal lengths and Apertures from ,25 to 1,25. Seven coloured Glasses, and several Glasses for Compound Spectacles.
- 9 Very large Ox-eye-ball with 4 Lenses, 3 Square Cell Boards and 2 Spare Cells
- 10 15 inch Refracting Telescope in 3 Vellum Joints and Side Mirror, by Dollond. Magnifying Power 8.
- 11 19 inch ditto in 4 Vellum Joints, by Nairn. Power 8.
- 12 Four foot ditto in 5 Vellum Joints, by Ascough. Power 14.
- 13 Three foot ditto in 5 Vellum Joints, by Dollond, with a guard. Power 17.
- 14 Ditto in one Joint, Vellum eye Tube, by Dollond. Power 20.
- 15 5 foot ditto in 5 Vellum Joints, by Dolland. Power 25.
- 16 6 foot ditto in 4 Vellum Joints, Brass Eye Tubes, by Dollond. Power 29. Drill Case for carriage
- 17 3 foot ditto single joint Scale-board, with 3 Brass Eye Tubes, and Triple Object Glass, smoaked glass frame. Powers 38. 52. 100. Stand, Gimbals, Drill Case for carriage
- 18 6 inch Brass Opera Glass, with Triple Object Glass, and Brass Stand. 11 Powers from 3 to 35, in two shagreen cases, by Nairn
- 19 Brass 18 inch Telescope in one Joint, with hair lines on the Object Glass for Land Surveying, by Nairn. Power 13.
- 20 Copper Telescope with point and cross wires, two tubes for erect and inverted vision, brass surveying ruler, T screw driver, box of screws, &c.
- 21 Very strong Surveying Chain
- 22 12 inch Brass Reflecting Telescope by Short, with stand, in three shagreen cases, powers 10 and 18
- 23 18 inch Brass ditto by Short, with stand, powers 17, 22, 28, 38, in a mahogany case
- 24 Tin Transit Telescope with centers, dark glasses, light vane, spirit level and stand, reversing frame, declination arch, &c. compleat
- 25 A 6 inch Brass Hadley's Sextant, with erect and inverting Telescope, plain sights, sliding smoaked glass, reading glass, coloured glasses, and leather case for carriage, compleat
- 26 Mahogany Box Ground Glass Panes, pewter and watertrough cover, and quicksilver box for taking altitudes at land
- 27 Solar Microscope with MSS. directions, but without a particular mirror to throw in the solar rays
- 28 Very Curious Solar Magic Lantern, with a great number of STILL and MOVING pictures, beautifully coloured, and nicely fitted into three boxes, with MSS. directions. – The Mirror belonging to this instrument can be applied to the Solar Microscope.
- 29 Very curious Upright Camera Obscura, for drawing or ...ing buildings, views, &c. with large drill cloak to

exclude the light when used in the open air, and MSS. directions.

- 30 Very large Horizontal Camera Obscura, with suitable reflecting mirror and rough glass, screen, cloak, and MSS. directions.
- 31 Reflecting Mirror, truncate pyramidal box and hood, and square frame to fix against a window for endwise view of streets in camera obscura. – Round mahogany board, and Dollond's prismatic wedges, which by means of the same mirror, serve to shew the reflective powers of different sorts of glass, and the effects of differently combining them.
- 32 Very fine Prism by Nairn
- 33 Ditto – in a green vellum case
- 34 Ditto
- 35 Two Troughs and two short Prisms capped with brass, for experiments upon different mediums combined
- 36 Two long Parallel Mirrors mounted in brass for a Back-liner. Two shorter ditto for an Off-setter
- 37 Two Parallel Mirrors mounted in brass
- 38 Mahogany Box, with Parallel Mirror, 5 inches and 1 half by 3, by Dollond. – 4 Parallel Index Glasses, 2 inches by 1 and 1 quarter, by Nairn. – 2 Horizon Glasses, 7-8ths square, to suit the Index Glasses, and 3 Parallel Glasses to be smoked.
- 39 Oak Back-liner in leather case
- 40 Mahogany ditto
- 41 Parallel Mirror, 2 inches square, mounted on mahogany block
- 42 Pyramidal Metal Reflector
- 43 Two Boxes of Silver and Copper Wire for Plummets
- 44 Ferguson's Card-dial, and Luminarium, and Instrument to shew the position of Jupiter's Satellites
- 45 Brass Syringe and Turn-about Jet
- 46 Tuning Forks, and Tuning Horn.- Two large and two small Flutes
- 47 Fragments, consisting of Vellum Tubes, Brass and Coco Cells, Brass Frames and Glasses for smoking, deep Convex eye Glass and Brass Tube, &c.
- 48 Plain Glass Barnacles, and ditto set in horn frame to keep the dust out of the eyes in working or travelling
- 49 Two Tripods, with bars, boards, and setting screws

THE END

William Russell, 1790

A catalogue of the entire and valuable mathematical library of William Russell, Esq. F.R.S., deceased; to which is added a small, but select, parcel of medical books, (which were reserved); the property of the late John Lewis Petit, M.D. F.R.S. The whole comprehending a very good collection of books in mathematics, history, belles lettres, law, physic, voyages and travels, amongst which are several of the best reports, Cooke's second and third voyages, first editions, and fine impressions; ruins of Balbec, and Palmyra; with many others equally valuable. Likewise a very good collection of mathematical instruments. Which will be sold by auction, by Leigh and Sotheby, booksellers, at their house in York-street, Covent Garden, on Tuesday, March 23, 1790, and the four following days (...)

33 pages: title page, conditions of sale, and lots on pages 1 to 31. There are 1139 lots: 1 to 1096 are books, followed by 43 'Mathematical Instruments'.

Some prices are noted in this copy, but except for one no names of buyers; for these, one may turn to the auctioneer's marked up copy in the British Library, Sotheby's Catalogues, SCS 21 (6).

On the title page in manuscript: "& Mr. Michl. Taylor", perhaps indicating that a third library was mixed in.

MATHEMATICAL INSTRUMENTS

1097 A Theodolite, with three-legged Staff, by Adams	
1098 A 4-Foot Transit Instrument, by Bird [buyer's name = Gilpin]	7-17-6
1099 An Equatorial Instrument (and Glass Case), by Ditto	8-18-6
1100 A Micrometer, belonging to Transit Instruments, by Scisson [=Sisson]	2-3-0
1101 A Ditto, by Hearne	2-12-6
1102 A 15-Inch Concave Mirror, in a Black Frame	2-2-0
1103 A 7-Inch Brass Sextant, by Bird	2-2-0
1104 A 6-Inch ditto, by Morgan	2-1-0
1105 A Brass Quadrant, with Level, by Ramsden	1-13-0
1106 An Universal Interest Table, in Brass	1-1-0
1107 A very curious Dial, with Equation Table, Sun Declination, &c., by Scisson	2-10-0
1108 A fine Diagonal Scale, in Brass, by Ditto	2-2-0
1109 A Pocket Case of Mathematical Instruments, by Bird	2-2-0
1110 A Small Level Telescope, by N. and B. [=Nairne & Blunt]	1-3-0
1111 A Case of Mathematical Instruments, by Morgan	3-3-0
1112 A 2-Foot Divided Brass Scale, by Bird	3-17-0
1113 An Achromatic Prospect Glass, with Brass Stand	0-13-0
1114 A Pair of 12-Inch Proportional Compasses, by Heath and Wing	
1115 A Small Pocket Microscope, by Lindsey	
1116 A Thermometer, by Bird	
1117 A Ditto, by Prins [the catalogue has Prine, presumably an error]	
1118 A 30-Inch Gunter's Scale, Improved, by N. and B.	
1119 Two Artificial Magnets, in a Mahogany Box	

- 1120 An Ivory Parallel Rule and Scale
1121 An Echard's Parallel Rule [should be Eckhardt's]

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- 1122 An Artificial Horizon
1123 A Small round Pocket Level
1124 A Turkish Dial
1125 Three Iron Pocket Steel-yards
1126 A Brass Instrument for weighing Gold
1127 A Steel Beam Compass
1128 A Box with Brass Weights, Avordupois and Troy; 32 Ounces each
1129 Two Black Mirrors, in Cases
1130 A Mercurial Level
1131 Two Glasses, in Horn Boxes
1132 Six Box Rules and Scales 0-12-0
1133 An Opera Glass
1134 A Reflecting Telescope, on a Brass Stand, by short, 1734
1135 A Pocket Ditto, Ditto, by Ditto
1136 A small Ditto, Ditto, in a Mahogany Box
1137 A Ditto, Ditto, by Short
1138 A 12-Inch Ditto in a Mahogany Box, by Ditto
1139 A Ditto, Ditto, by Ditto

FINIS

John Smeaton, 1793

Mr. Smeaton's Instruments, &c.

A catalogue of the valuable collection of curious astronomical, philosophical, optical, and mathematical instruments, models, machines, excellent tools and implements for working, &c. together with a variety of other apparatus, applicable to mechanical purposes, the truly genuine property of John Smeaton, Esq. civil engineer and F.R.S. deceased, which, by order of the executors, will be sold by auction, by Mr. Herring, at the Globe Tavern, Fleet Street, on Wednesday, the 1st of May, 1793, at eleven o'clock. The greatest part of the models, machines, and mechanical instruments, were made and worked by the hands of the above late most ingenious artist, and will be sold without reserve.

NB: Not one article in this sale but was the real genuine property of Mr. Smeaton.

(...)

8 pages, including title, conditions and Address. 78 lots. No prices or buyers' names.

[Page 3]

Address

The valuable collection of instruments now offered to public sale require no panegyric on their intrinsic worth; it will be sufficient to assure those who may wish to become purchasers, that they are the very same which the late Mr. JOHN SMEATON was in the habit of using daily, not for the purpose of amusement, but for investigating and bringing to perfection those sciences which he made his peculiar study.

Most of the instruments were made by the best makers of their time, many of them were of his own invention and several made with his own hands, and others he has improved.

The parts of the collection are often closely related, although not necessarily connected, with each other. Thus a great number of lenses, cells, &c. which will be put up in separate lots, though they do not properly belong to any one optical instrument, are applicable to them all.

Many applications have already been made to the executors to dispose of some of the instruments by private contract, and the positive refusal given to those requests, will, it is hoped, prevent similar ones, and be approved of by the public at large.

[Page 4]

A Catalogue, &c.

Wednesday, May 1, 1793.

Working Tools &c

- 1 A Box with 15 files and rasps
- 2 Two drawers with 15 chissels and guages, 3 saws, 4 mallets, 2 planes, and sundry carpenter's tools
- 3 A drawer containing a mould of bell-metal for casting cylinders, with 2 pewter cylinders, and other articles
- 4 Two screw stocks, with dies and taps, 4 screw-plates, and other articles, do.
- 5 A beam compass, a club-footed do. 12 broaches in handles, 4 pair of small hand vices, 2 drill stocks, 24 drills, and other articles
- 6 Two spring saws, a small neat board vice, 3 hammers, a pair of dividers and callipers, several files, and other articles
- 7 Two dividing plates, with a drawer, and other articles

Page 5

Mathematical and Optical Instruments, Astronomical Clocks, &c

- 8 A piece of load stone, an inflammable air pistol, and a wood T square
- 9 Three wood sliding rules, with various lines, a wood T square, and strait edge
- 10 A neat pocket metal compass
- 11 A Ludlam's back liner and 2 measuring tapes
- 12 Three pair of spectacles, a reading glass, and a pair of goglers, not compleat
- 13 A brass steering compass, with spare card and glass
- 14 Part of an azimuth do. various brass rings, cards, and glasses for do. and an engraved plate for do.
- 15 Several pieces of parallel silvered mirrors, various sizes
- 16 A box containing various folders, spelter, borax, &c.
- 17 A very fine steel strait edge, 40 inches long, and 2 shorter do.
- 18 An instrument for drawing in perspective
- 19 A rain guage
- 20 An acromatic telescope and stand, with equatorial motions, and micrometer, by *Smeaton*
- 21 A stand, with equatorial motions, for telescope, by ditto
- 22 A do. do. incomplete
- 23 A regulator, in a wainscot case, with wooden pendulum, by *Hindley*, the frame and wheels mathematical bell metal
- 24 A 3 ft. and a half transit instrument, complete, by *Bird*
- 25 *Smeaton's* original air-pump (made by himself) to exhaust and condense, with some apparatus
- 26 A condensing engine, by *Smeaton*
- 27 A steel rod, with the English yard and French half toize, set off by *Bird*
- 28 A small theodolite, with telescope and level, and 3 legged stand, by *Nairne* and *Blunt*
- 29 A pocket levelling instrument, by ditto
- 30 A box containing various silver and copperwire astronomical and other purposes

- 31 Ditto, ditto
- 32 A brass sextant, by *Morgan*, and artificial horizon
- 33 A celestial globe, with brass horizon, and improved quadrant of altitude for the resolution of problems dependent on altitude, and azimuth, by *Smeaton* (see *Philosophical Transactions*, vol. 79, for the year 1789)
- 34 A regulator, in wainscot case, with seconds in the center, and compound half seconds pendulum, by *Hartley*
- 35 A variation compass, by *Smeaton*
- 36 A do. incomplete, by ditto
- 37 A small reflecting telescope and stand
- 38 A 5 feet draw out acromatic telescope
- 39 A triangle stand, with parallel plate, and adjusting screws for a theodolite
- 40 A sciopic ball and socket
- 41 A very large do. with a variety of lens fitted to it
- 42 A brass ball and socket, with rack, horizontal and vertical motions, a wood T square, and a strait edge
- 43 A regulator, in wainscot case, with seconds in the center, and compound half seconds pendulum, by *Hartley*
- 44 A small transit instrument, by *Smeaton*, in a box
- 45 A great variety of convex lens, of various diameters and focus, and tubes for optical experiments
- 46 Do. do. and some metal speculums
- 47 Various small brass tools for grinding glass
- 48 A pair of 10 inch artificial magnets, by *Gowan Knight*
- 49 A pair of proportional compasses and wood T square

Lathes, Working Tools, Implements, &c. continued

- 50 An excellent good lathe (for hand or foot) with triangular bar, dividing plate, moveable brass chucks, a large parcel of wooden chucks, turning tools, &c.
- 51 A very good triangular bar turn-bench

- 52 Fifteen foot files, a pair of sheers, 2 spring saw frames, and sundry other articles
- 53 A brace, with 18 bits, a candlestick, and other articles
- 54 An exceeding good set of bits, in a neat mahogany case
- 55 A well made brass wheel, in excellent preservation, cut into 360 teeth, with 2 fine endless screws to fit do. supposed to be executed by Mr. *Hindley*
- 56 A very good hand lathe, with dividing plate
- 57 A brass endless screw, cut by Mr. *Smeaton*, July 21, 1742, a set of hollow punches, 4 sets of figures, a box, and 17 arbors
- 58 A very good hand lathe, with dividing plate, a sliding engine to do. for cutting wheels and pinions, 18 cutters, with a number of arbors, chucks, &c.

59 A way wiser for counting the turns of a wheel, (applicable to any carriage), by *Smeaton*

Mathematical instruments continued, with models, printing press, &c.

60 A complete working model of Mr. *Smeaton*'s pullies

61 A portable copper plate printing press

62 A 5 feet acromatic object glass, 3 inches diameter

63 A 4 feet pentagraph

64 A 6 inch circular protractor, with a vernier, by *Troughton*

65 An artificial horizon and hygrometer

66 Two speculums for 9 inch reflecting telescopes and 1 small do. ground by *Mudge*

67 A parallel ruler, a pair of beam compasses, with various points, in a fish-skin case

68 A pair of beam compasses, a parallel rule, a wood T square, and a bevel

69 An instrument for trying glass bubbles, for levels

70 An improved 30 inch Gunter's scale, by *Nairne* and *Blunt*

71 A *Wilson*'s microscope

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72 Sundry curious models and wood curves for experiments on naval architecture, by the ingenious Mr. *Jessop*, of *Plymouth Yard*

73 An Archimede's screw and a brass sun dial, by *Smeaton*

74 A pedometer, incomplete

75 About 76 lb. of brass, in pieces of various sizes, also sundry brass tubes and wire of different sizes, at per lb.

76 About 12 lbs. of steel wire, various sizes, at do.

77 A grindstone, copper trough, and a small wainscot tool chest, with drawers

78 Sundry packing boxes

NB: There are sundry models, machines, &c. Mr *Smeaton*'s property, not catalogued, but will be sold in the course of this sale.

FINIS

Samuel Dunn, 1794

A catalogue of the valuable library and mathematical instruments, &c. of Mr. Samuel Dunn, teacher of mathematics in all its branches, editor of the Atlas, &c. &c. deceased. Comprehending all the remaining impressions of his own works, with the impressions of the plates, together with copper-plates. Which will be sold by auction, by Leigh and Sotheby, booksellers, at their house in York-Street, Covent-Garden, on Thursday, April 10, 1794, and the four following days (....)

36 pages: title page, conditions of sale, and lots pages 1 to 34. The 'Mathematical Instruments' (lots 1-80) and 'Books in sheets, Copper plates' (lots 81- 105) were auctioned on the fifth day, Tuesday 15 April. Prices throughout, no names of buyers, but they are in the auctioneer's marked up copy in the British Library, Sotheby's Catalogues, SCS 26 (3). On the title page in ink 'For Mr Jones of Holborn', - one of the instrument makers who was among the buyers.

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Fifth Day's Sale.

Mathematical Instruments

1 Four Sectors, a Parallel, and Mahogany Rule	0-8-6
2 Three Sectors, a Square, two Parallel, and one Mahogany Rule	0-10-0
3 Five Sectors, a Parallel, and two other Rules	0-8-6
4 A Parcel of Parallel, and other Rulers, Protractors, &c.	0-10-6
5 A Parallel Rule, and Brass Tea Square	1-5-0
6 Four Brass Sectors, and Scales, &c.	0-14-0
7 Two Beam Compasses, and a Brass Instrument	2-2-0
8 Sundry Plain Rules and Scales	0-7-6
9 A Square, a Bevil, an engineer's Scale, and Elliptical Compasses	0-6-0
10 Six Sectors, &c.	0-14-0
11 A Beam Compass	1-2-0
12 A Beam Compass, two Tea Squares, and Sundry Rulers	0-8-0
13 Sundry Instruments, Rulers, &c.	0-14-6
14 Three Tea Squares, and Spirit Level	0-5-0
15 A Theodolite Stand, and a Pedometer	0-11-6
16 A Theodolite Stand, a Beam Compass, and Gunter's Chain	0-7-0
17 Ten Telescopes, Spy-Glasses, &c.	0-8-0
18 Three Spy-Glasses, by Ayscough, &c.	0-5-6
19 A small Acromatic Telescope and Stand, by Ramsden, in a Shagreen Case	1-19-0
20 A Night Glass, by Dolland	0-10-6
21 A Pair of Prisms	0-16-0
22 A Pair of Proportional Compasses, and Steel Parallel Rule	0-15-6
23 A Sea Compass, and a Variation Compass	0-15-0
24 A Case of Magnetic Bars, a Compass	0-4-6
25 A Pair of Proportional Compasses, and a Steel Parallel Rule	0-15-6

26 A Drawing Table and Box, and Mahogany Drawing-boards	0-18-0
27 A Box of Stamps for Rule-makers	0-8-0
28 Four Boxes of Small Globes, Stands, and Needles, used for an Orrery	1-0-0
29 A Box with Spirit Levels	0-5-0

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30 A Pair of Prisms	0-7-6
31 Suspeach's Universal Sliding Rule and Description	2-4-0
32 A Model of a Canon	0-10-0
33 A Parcel of Old Brass and Mahogany Sextants, &c.	0-8-6
34 A large parcel of Models of Works in Fortification	0-7-6
35 A Cover for an Artificial Horizon with Parallel Glasses and other Glasses for the same purpose, placed in Mahogany	0-14-0
34* Parcel of different Scales and Pieces in a box	0-12-6
35* A parcel of old Sextants and Quadrants	0-1-0
36 A Model of a Pump, a Water-level, a Box of Cones, Gunter's Chain, &c.	0-14-0
37 A pair of Horse Shoe Magnets	0-6-0
38 A pair of Prisms and Stands	0-18-0
39 An Hydrostatic Balance and Box	0-12-6
40 A small Reflecting Telescope with Rack Work	1-11-6
41 A Microscope, &c. in a box	1-0-0
42 A Camera Obscura	1-1-0
43 A pair of 3 inch Globes in a box	0-13-0
44 A Parcel of Loadstones and Compass Needles	0-10-0
45 A Loadstone covered, and a Terratilla Loadstone	0-11-0
46 A Water-level with Sliding Perpendicular for Gunnery; a Compass and Burning Glass	0-5-6
47 A Portable Universal Dial, with Level, by Adams, in Shagreen Case	0-16-0 or 1-16-0
48 A Thermometer, by Burton, and Compass by Sisson	1-1-0
49 A Case of Drawing Instruments	1-4-0
50 A Double Barreled Table Air Pump, with Apparatus, and variety of Receivers, and part of Single Air Pump, together	4-7-0
51 Three Brass Quadrants and Scales	0-10-6
52 Two Mahogany Quadrant and Sextant in cases	0-7-6
53 A Pair of Globes 5½ Diameter	0-8-6
54 A Heliostate or Clock for Optical Experiments	4-1-0
55 A Puradies Universal Dial, by Adams	1-3-0
56 A 30 Inch Acromatic Telescope on a Stand	3-4-0
57 A 17 Inch Do. with Rack Work	1-18-0
58 A Delineator and Camera Obscura	[no price]
59 A Tellurian and Lunarian	3-10-0
60 Two Instruments for Drawing in Perspective	1-17-0
61 An Eliptical Dial, by Adams	0-11-0
62 Three Botanical Miscrosopes	1-16-0
63 Four Opera Glasses	[no price]

64 A Mahogany Sextant, by Gregory and Case	0-11-0
65 A Rose-wood Sextant, with a Nonius of a new construction, by Dunn, in a Case	1-4-0
66 An Ebony Quadrant, by Heath, of Caleb Smith's Invention	0-13-0

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67 An Ebony Sextant, by Burton and Case	1-0-0
68 A small Brass Do. by Burton	0-13-6
69 A small Brass Do.	0-10-0
70 A small Brass Do. by Jackson	0-19-0
71 A small Brass Do. by Jackson	0-16-0
72 A Compound Microscope in Shagreen Case	[no price]
73 An Instrument with Vertical and Horizontal Motions and Micrometer Screws, adapted either to Surveyors use as a Theodolite or for Cœlestial Purposes	1-16-0
74 An Astronomical Time Piece	4-10-0
75 A Reflecting Telescope 26 inches in length, on a Brass Stand	1-5-0
76 Four Globes, by Senex, &c.	0-5-0
77 A pair of Globes, by Hill, 12 inches diameter	1-7-0
78 A pair of Globes, by Ferguson, 12 inches diameter	2-18-0
79 A small Brass Pentagraph in a Mahogany Case	1-7-0
80 A large Pentagraph, by Newman, from Mr. Dunn's Principle, with the Description	2-8-0

William Boyse, 1794

Furniture, musical, optical, and other instruments, and effects. / A catalogue of the household furniture, plate, linen, wearing apparel, china, books, wines, philosophical, astronomical, optical, musical, and surgical instruments; gold, metal, and silver watches; chime and quarter clocks; a capital regulator (by Tompion); diamond rings, fire arms, swords, tools, medals, and other valuable effects, of William Boyse, Esq. deceased; which will be sold by auction, by Mess. Griffith & Co. on the premises, No. 3, Great Surrey-Street, (a small distance from Blackfriars Bridge, Surrey Road), by direction of the executors, on Tuesday, the 22d of July, 1794, and three following days (...)

This catalogue is incomplete: of the 36 pages, it only has title page, conditions of sale, and pages 27 = end of the Third Day's Sale and 28-36 = Fourth Day's Sale, when 201 lots were auctioned : 90 'Instruments in Natural Philosophy, Mathematics and other Sciences', 39 'Musical Instrument & Music' and 'Music by esteemed masters', and 72 'Tools, engines, &c.'. Prices given only for the instruments, no names of buyers.

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Fourth Day's Sale,

Friday, the 25th of July, 1794

Instruments in Natural Philosophy, Mathematics and other Sciences

1 A large standing double-barrel air pump, with glasses, apparatus, &c.	4-10-0
2 A brass fountain with a condenser	1-12-0
3 A refracting telescope in a nourskin case, an hydrometer, and a microscope	1-10-0
4 A smal orrery, comprising a terranium, lunarium, and a planetarium	10-0-0
5 A curious dissected brass cone, and case	2-2-0
6 A large beam compass and mahogany box	2-4-0
7 A case of drawing instruments, complete	1-1-0
8 A pillar microscope in a mahogany case, and a box for sliders	4-4-0
9 A camera obscura	1-14-0
10 A ring sun dial	1-2-0
11 An æmilian sphere, and a small brass celestial globe	0-19-0
12 A set of guage rings, a pair of callipers, an hydrometer, and a spirit level	0-15-0
13 A solar and opaque microscope and a refracting telescope	2-13-0
14 A chronometor and a set of Naper's bones	1-9-0
15 A pentagraph and mahogany box	2-12-0
16 Two illuminators, a brass ring dial, and a spirit thermometer	1-1-0

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17 Four small spheres	0-16-0
18 An air pump on mahogany stand, with glasses and apparatus	4-15-0
19 A copper fountain and jets, with a ball and socket	1-6-0
20 A 3-feet reflecting telescope, by SHORT, in a mahogany case	12-1-6

21 A pair of 12-inch globes, completely mounted	5-5-0
22 A bull's eye, 2 illuminators, a pocket globe, a spirit level, and a liquor hydrometer	1-4-0
23 An hydrostatic balance, an hydrometer, and a small thermometer	0-17-0
24 Two illuminators, 2 opera glasses, a pocket sun dial, and a small terrestrial globe	1-12-0
25 A quadrant, and a sun dial in a mahogany case	1-1-0
26 A set of magnets, 5 magnifyers, and a pillar microscope	1-8-0
27 A microscope cutter, a small ditto with a set of prisms, a spirit level, an ivory hydrometer, and a pocket compass	3-11-0
28 A brass bull's eye, (unfinished), a pillar microscope and box, a brass angular instrument, and a thermometer	1-3-0
29 A reflecting microscope, a set of drawing instruments, an hydrometer, and a pocket compass	1-15-0
30 Two nocturnals, an angular instrument, a pair of proportional compasses, an hydrometer, and a pocket microscope	2-2-0
31 Four compasses, a money balance, a pocket microscope, 2 spirit levels, a perambulator, 3 glass cubes, and a prism	1-5-0
32 A beam compass, a refracting telescope, an opera glass, and 3 pocket sun dials with compass	1-12-0
33 A mahogany case with 50 small phials	1-2-0
34 Two reading glasses, 2 squares of ivory, a deception box, a beam and a set of weights, a knife in a nouskin case, and an angular instrument	0-18-0
35 Two flat speculums	0-7-6
36 A condensing engine and syringe	2-6-0
37 Two moulds for casting of balls	0-9-0
38 A pair of 12 inch senex globes	1-1-0
39 A brass astronomical quadrant	1-1-0
40 A clock globe (by AUDEBERT) and stand	1-16-0
41 A silver mounted case with 2 pair of silver-mounted spectacles	1-1-0

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42 A case with 1 pair of silver-mounted spectacles, and 5 cases with 6 pair of spectacles	0-16-0
43 An India pen case, a Chinese tinder box, a pocket ink stand, and a pounce box	0-3-6
44 A small silver-mounted reading glass, an ivory tooth-pick case with lancet, a pearl cane head, and an ivory ditto, inlaid with silver	0-9-0
45 Three copper fountains	0-6-0
46 A pair of blocks, of 3 pullies weights and standard	1-4-0
47 A 16-inch convex mirror, on a stand	3-12-0
48 A large electrifying machine, stool, and battery, in mahogany cases, with brass handles	4-16-0
49 A less ditto and stool	2-4-0
50 An electrifying machine in a deal box, with an extra wheel	1-6-0
51 A curious model of Mr. MARTIN's new-invented pump, with glass barrels,	

mahogany frame, &c. in a deal case	2-6-0
52 A ditto, and the model of a chain pump	1-15-0
53 A parcel of glass tubes, various lengths	1-2-0
54 Three electrical cylinders, 4 jars, and a round glass tube in a frame	1-1-0
55 A case with 8 drawing instruments, 22 medallions, a mathematical instrument, a wood screw engine, a piece of ore, and a powder horn	0-15-6
56 A large quantity of concave and convex lenses, &c. in a box	3-11-0
57 A variety of parts of microscopes, &c. contained in a mahogany and a deal box	5-6-0
58 A cometarium and a planetarium	0-19-0
59 An instrument for discovering the variation of the compass, in a case	0-11-0
60 A clock frame with chime barrel and hammer, and 7 bells, 7 mahogany pillars and an unfinish'd brass arch	0-14-0
61 A piece of machinery for covering musical strings	1-11-6
62 A mahogany horse guage	0-7-6
63 A magic lanthorn with 7 slides, and various other glasses	2-6-0
64 A box with colours, pallet, marble stone, and a sun dial	1-10-0
65 A parallel rule 2 T squares, an ivory protractor, a brass ditto, a nocturnal instrument, a sector, and 4 other mathematical rules	0-16-0

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66 A T square, 2 brass scales, 2 sectors, a brass protractor, a parallel rule, and 3 other mathematical rules	1-16-0
67 A T square, brass parallel rule, a protractor, 5 brass scales, and 11 other mathematical rules	0-9-0
68 A single-barrel air pump, with hemisphere	1-8-0
69 A ditto and ditto	1-4-0
70 Two brass syringes and 2 stop cocks	1-2-0
71 Two iron plates	0-3-6
72 Two barometers	1-3-0
73 A wheel ditto	3-14-0
74 A syhen [sic] ditto, and extra case	0-11-0
75 Two sets of scales with Troy weights, a standard, a pair of scales, a pair of box-end money scales, and weights, a marble sham book, and a measuring reel	0-19-0
76 A group of ivory figures and 12 medals	1-3-0
77 A case of copper medals from William the Conqueror down to George the Third	1-10-0
78 A T square, a bar for a beam compass, a roller, a parallel ruler, part of a round guage, a 3-feet brass rule, a square theodolite, and a small mahogany box	0-7-0
79 A camera obscura	2-4-0
80 An instrument stand	1-8-0
81 A pair of bellows for blowing glass, in a mahogany frame	2-2-0
82 A mahogany music desk on a pillar and claw	0-15-0
83 A large convex lens (16 inches diameter) on a swivel claw stand	9-14-0
84 Two table desert glasses, in gilt frames	0-10-0
85 An horizontal quadrant and frame, and a loadstone, arm'd	1-8-0

86 A variety of brass-work in a box, including an air gun	0-18-0
87 Æneas (in copper) carrying Anchises from Troy	2-2-0
88 A mirror on a stand, and 28 prints	0-17-0
89 A ditto and ditto	2-3-0
90 A 3-feet reflecting telescope, and wainscot case, by HEARNE	[no price]

[pages 31-33 Musical instruments – Music by esteemed masters - not transcribed]

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Tools, engines, &c.

- 1 A lathe for turning brass and iron, and sundry tools
- 2 A ship stove and pan, and a lathe wheel
- 3 Six iron stocks, 9 bitts, 2 spring-frame saws, 10 spring frames, and a box with sundry files
- 4 A screw timber jack, and a tackle and fall with brass sheaves
- 5 Seven iron rods, 9 door and jack chains, a quantity of iron wire, and 2 iron gun scrapers
- 6 Five bow saws, 2 tenon ditto, 25 pair of drawing plates and 1 stock, and a small bench vice
- 7 Three square stakes, 4 beak irons, a pistol tinder box, a copper dripping engine, a glue pot, a pair of sheers, 3 pair of stocks with drawing plates and wrench, 5 drawing plates, a size and screw plate
- 8 A work bench with 3 iron screws and pin, a large standing vice, and a smaller ditto
- 9 Four chair vices and 5 drawing pins
- 10 A capital mahogany turning lathe with apparatus, complete, for ovals and rounds, containing the undermentioned tools: 4 brass chucks, 3 iron ditto, a parcel of wood ditto, a setting frame, 4 polishing brushes, 2 iron plates, 1 screw, a small gut lathe to the above, and rose engine, a standing piece, with brass plate, and 238 turning tools, various
- 11 A large rubber, 3 round rasps and a file, 2 drawing knives, 2 adzes, a cooper's ditto, a shipwright's axe, a caulking hammer, sundry bell-hangers gimblets, wires, &c., a hammer, and a pair of tongs
- 12 Twenty nine pieces of brass and copper rods
- 13 Sixteen gauge and flat box rules
- 14 A large turn bench, compleat, and Turkey stone
- 15 Ditto
- 16 Ditto
- 17 Ditto

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- 18 A ditto with brass pillars and ditto
- 19 Two large plates
- 20 A flatting mill, with 2 pair of rollers and handle
- 21 A flatting mill with 3 rollers
- 22 Two small flatting mills and 2 milling engines

- 23 Three pewter cranes
- 24 A large pair of plate sheers, 4 pair of taylor's ditto, a 5-tap screw plate, one 6-tap ditto, a square stake and block, a burnisher, cutting knife, nut and screw, &c.
- 25 A brass lathe wheel and brass box, a gauge, 6 sadlers' racing irons, 10 bookbinders' stamps, and 7 drawing plates
- 26 Six spring-frame saws, 11 draw plates, a clamp vice, 2 beak irons, 2 hammers, 4 other clock and watch tools
- 27 Eleven augurs, 4 spoon bitts, 35 small ditto, 4 pair of plate sheers and 3 melting ladles
- 28 A ruff rubber, and 70 files, floats and rasps
- 29 Four 2-handled screw plates, 2 ditto without taps, 3 wrenches, 5 stocks, and sundry taps and dies
- 30 Sundry tools, &c.
- 31 A pye
- 32 A lapidary's mill, with 4 cutters
- 33 A nest of 6 wainscot drawers, with their contents, and small ditto with screws, &c.
- 34 A spice cupboard, 2 nests of wainscot drawers, and a small box with various tools
- 35 A nest of 20 wainscot drawers and contents
- 36 Ditto
- 37 Ditto 10 ditto
- [38 this lot is skipped in the catalogue]
- 39 A carpenter's tool chest with drawers and set of tools
- 40 Five nests of wainscot drawers, and a spice cupboard with their contents
- 41 A nest of 6 small drawers, and 6 shagreen boxes with various watch and clock tools
- 42 A nest of 3 drawers with various clock and watch tools
- 43 Three shagreen cases, containing watch and clock tools, and 60 other tools, &c. various
- 44 A hone and case, 2 coach wrenches, and a fine warded chest lock

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- 45 A hone and case, a large coach wrench, 2 pair of plyers, pair of cutting nippers, 2 pair of nail ditto, 2 wire gauges, a hand stock with 7 bright bitts, and a pair of scales
- 46 Two spring clock-saws, 15 draw plates, 34 files, burnishers and floats, 2 hammers, 2 pieces of stone, and 16 pieces of steel
- [47 this lot is skipped in the catalogue]
- 48 A case with 9 mahogany drawers, containing various tools, &c.
- 49 A watchmaker's upright tool, a balance tool, a turnbench, a hand vice, a pair of stocks, 34 pair of dies, and sundry taps
- 50 A shagreen case with 4 razors, pair of scissars, a hone in a mahogany case, a tin pocket lanthorn, and a box with chess men
- 51 A large hone and leather case, a case with 6 razors, a hone, strap, oil bottle and scissars, a brass pocket lanthorn, and a box with chess men
- 52 Eight razors in 4 cases, 2 hones, 2 straps, a set of wooden figures for printing, a small ink stand, and 2 set of plate weights
- 53 A shagreen case with sundries, 6 sets of iron figures and letters, 2 sets of wood figures, a marking block, 2 snakes in boxes, and a set of puzzling irons

- 54 A mahogany drawing table in a wainscot box and a walnut-tree box with sundries
55 A deal case, containing Tantalus's cup, in a mahogany frame, and piece of wheel machinery
56 An India bubble, silver cap and chain, and a long length of pipe
57 A neat mahogany case with marking types, stone, &c. complete, curiously inlaid with silver
58 Two pair Chineze shoes, a bow with sundry arrows, a tomahawk, spear, dagger, and sundry curiosities from Otaheite
59 A brass mechanical model of a crane, a 7-link brass chain, (18 inches) a circular brass chain, (12 inches), cross jointed, 2 double cones, and a frame
60 A large cutting engine and a pinion ditto, with cutters, and additional plate

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- 61 A clock and watch cutting engine and a frame for rounding teeth
62 A watch cutting engine and pinion ditto
63 A watch cutting engine and a frame for rounding teeth
64 A balance tool, a ditto for rounding teeth, and part of a cutting engine
65 A curious incline engine for cutting screws
66 A clock cutting engine and an extra plate
67 Ten leather Stamps for linen, a mahogany work board with vice, some brass wire, and a triangle
68 Sundries
69 Ditto
70 Ditto
71 Ditto
72 Ditto

FINIS

“Two Scientific and Mechanical Gentlemen”, 1794

A catalogue of a capital and curious collection of modern optical, mathematical, and philosophical instruments and machines; consisting of a variety of elegant, useful, and valuable articles; among which are, a grand magazine of microscopical apparatus, by Jones, including an improved lucernal microscope, &c. Reflecting and achromatic telescopes, by Nairne, Adams, &c &c. Camera obscuras and delineators; curious lenses; a capital large universal equatorial; a smaller ditto, by Sisson; a brass 2-feet diagonal scale, by Bird; a Magellan’s circular instrument, by Nairne; cases of instruments; a large accurate set of beam compasses; various perspective machines; an accurate balance; curious sun dials; air pumps and apparatus of the best kind; plate and cylinder electrical machines and apparatus of modern construction; portable orreries, by Jones; natural and artificial magnets; barometers and thermometers; pyrometers; a very capital and complete universal turning engine; a most complete watch jewellery lathe; some articles of recreation, &c &c. The whole deserving the attention of the best mathematicians and philosophers, being a genuine collection, and the property of two scientific and mechanical gentlemen; and which will be sold by auction by Mr. Christie, at his Great Room, Pall-Mall, on Friday, the 12th of December, and following days (...)

This catalogue is complete. 14 pages: title page, conditions of sale, and on pages 5 to 16 a total 155 lots: 1-143 are instruments and some clocks, 144-155 are ‘Books and Prints’. Prices throughout. Virtually no names of buyers, but these can be found in the marked up copy in Christie’s archives.

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A CATALOGUE, &c.
FIRST DAY’S SALE
FRIDAY, DECEMBER 12, 1794

1 A Set of brass pullies; an artificial combined magnet, a box sector, and a cutting engine	1-2-0
2 A large load-stone elegantly mounted	1-9-0
3 A double barrel coach gun	0-12-0
4 An air gun	1-17-0
5 A French plate electrical machine and apparatus packed in a deal box	2-7-0
6 A machine for drawing in perspective, and a Chinese money steelyard	0-12-0
7 A ditto, ditto	0-14-0
8 A 12-inch brass dove-tailed parallel rule, graduated and contrived to apply to longer rules	1-2-0
	£ 9-15-0

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9 A 12-inch double French jointed, full divided brass sector by Sisson, and

a large Chinese weighing steelyard	1-10-0
10 A brass instrument for trying glass spirit bubbles	0-15-0
11 A brass astronomical quadrant, fixed on part of an azimuth circle	1-18-0
12 A binocular 4-feet telescope	2-12-0
13 A levelling brass plane, and a 10-inch brass sector	1-1-0
14 A perspective drawing machine in a tin case	1-3-0
15 A ditto in a mahogany case, and a Chinese money steelyard	0-13-0
16 A curious and best finished perspective machine	2-3-0
17 A large and very accurate set of beam compasses with various mahogany beams. <i>They are the compasses by which Mr. Graham divided the first grand mural arch at the Royal Observatory, Greenwich</i>	1-11-0
18 A patent portable waywiser, by Fenn, complete	1-11-6
19 A very accurate 2-feet brass diagonal scale in a mahogany case, <i>divided by J. Bird</i>	2-5-0
20 A ditto, partly divided	0-12-0
21 An electrical machine and apparatus, by Nairne, packed in a mahogany box	4-4-0
22 A compound microscope, by Adams, in a mahogany case	4-16-0
23 A portable clock, with two separate movements in one case, by Tompion, made to confirm the observation made by Mons. Huygens, of the influence which two pendulum clocks have upon each other	4-4-0
24 A complete patent delineator with a mahogany stand	2-8-0

£ 49-0-6

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25 A portable orrery and planetarium, by Jones, in a mahogany box, with book of directions	3-15-6
26 A large circular protractor and drawing board, by Sisson, in a box	2-17-6
27 A machine for shewing the different degrees of the resistance of the air in different velocities	1-14-0
28 A metal thermometer, by Ellicott	1-14-0
29 An original 2-feet mahogany reflecting telescope, on a stand, <i>made by Sir Isaac Newton</i>	3-3-0
30 A 12-inch brass set of beam compasses, with micrometer adjusting screw, in a mahogany case	2-15-0
31 A curious antique time piece, with double balance, supported by Hercules, shews the moon's age and phases, day of the week, day of the year, &c.	3-13-6
32 A curious, neat, and portable camp roasting jack, by Sisson, goes by a spring, gives alarum when it wants winding up, and enclosed in a circular glass case	6-10-0
33 A French elliptical brass sun-dial, and a set of spiral trigonometrical scales, on a brass plate	0-16-0
34 A curious and valuable turning engine, with a great variety of rosettes of different patterns, and all sorts of turning tools for forming the several mouldings, best adapted to the art of turning in all the variety of rosette and turning, and also a variety of embossing	

tools; the whole mounted in a neat mahogany case with 24 drawers, and other conveniences for holding materials for turning, &c. 52-10-0
 35 *A large double 2 feet glass-plate electrical machine, with brass conductor, &c., by Dollond* 11-11-0

£ 139-19-6

Page 8

36 A portable equatorial with stand, by Sisson 8-8-0
 37 A complete pyrometer on Ellicott's construction, by Adams, with a variety of metal, &c. rods for ditto 4-6-0
 38 A very elegant and curious set of bag-pipes, mounted in silver, with book of directions 5-10-0
 39 A complete universal ring sun-dial on a stand, with compass and rack-work motions, in a fish-skin case 3-10-0
 40 *A very complete lathe for watch jewellery, fitted with every sort of apparatus requisite for accuracy and expedition, and is judged to be the most perfect and complete ever made* 34-13-0
 41 A brass sun-dial for finding its own meridian by any given day of the month 2-6-0
 42 A 6-inch pocket brass reflecting telescope, in a mahogany case 1-6-0
 43 A large book camera obscura 3-6-0
 44 A cylinder electrical machine mounted in an elegant brass frame, in a mahogany box 2-0-0
 45 An improved lucernal microscope, by Jones, in a mahogany case 9-19-6
 46 A complete and best mounted standard barometer, by Jones 3-15-0
 47 A portable orrery and planetarium, by Jones, in a box, with book of directions 3-5-0
 48 A glass prism, a 4-inch and half circular protractor, a compass and a magnet 0-10-6
 49 A scarificator, with glasses, in a fish-skin case 1-12-0
 50 A diagonal machine, and six prints for ditto 1-12-0

£ 225-18-6

51 An ebony and brass Hadley's quadrant, in a wainscot case 1-9-0
 52 A portable orrery and planetarium in a mahogany box, with book of directions 0-14-0
 53 A 4-inch and half case of very best drawing instruments and scales, in silver mounted fish-skin case 2-0-0
 54 A large electrical jar; a universal discharger, 2 directors; a thunder house; an obelisk, and sundry other electrical apparatus 2-10-0
 55 A set of electrical musical bells, a set of spiral tubes, and a luminous conductor 2-2-0
 56 A spiral tube, a pistol, a pair of electrical forceps, and an atmospherical electrometer 1-2-0
 57 A spiral thermometer, and 12 Morocco leather spectacle cases 0-8-0
 58 An opera glass mounted in silver, a reading glass in tortoiseshell, and 6 Morocco spectacle cases 0-16-0
 59 A 12-inch night telescope 1-18-0

60 A 1-foot 3 drawer achromatic telescope, and 6 Morocco spectacle cases	0-16-0
61 A ditto, ditto	0-16-0
62 An elegant gold-mounted opera glass	1-18-0
63 A loadstone mounted, a botanical microscope, and 6 Morocco leather spectacle cases	0-14-0
64 A scioptic ball and socket, 4 large lenses, a linen prover, 6 Morocco leather spectacle cases, and sundries	1-7-0
65 Two hydrometers for proving spirits, a dissected map, a botanical microscope, 6 Morocco leather spectacle cases, 2 pair of goggles, and sundries	0-14-0
	£ 245-2-6

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66 A concave glass (No. 9) set in a gold elegant frame, a delineator for copying pictures, profiles, &c.	1-0-0
67 A magic painter, a magic set of fish, and sundry other recreations	1-3-0
68 A case full of instruments, and a 3-feet draw-out telescope	1-3-0
69 A 4-inch and half lense mounted, a glass prism, a semicircular protractor, and a magnet	0-10-6
70 A 6-inch concave mirror, and a small pocket camera obscura	1-12-0
71 Sundry lenses of all descriptions for experiments	0-17-0
72 A small magic lanthorn with slides, a set of Nieper's bones	1-6-0
73 A large set of staffs with large brass ball and socket, and a pocket electrophorus	0-13-0
74 A set of portable staffs, without ball and socket, and 2 large long quadrant telescopes	1-0-0
75 A machine for cutting watch fusees	0-9-0
76 An electrical battery, with 16 jars	2-0-0
77 A 9-inch thermometer by Meredith	0-6-0
	£ 257-2-0

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SECOND DAY'S SALE
SATURDAY, DECEMBER 13, 1794

78 A pocket electrical apparatus, a 9-inch glass electrical cylinder, a conductor, and sundry apparatus	0-17-0
79 A double spirit barometer and thermometer	0-12-0
80 A 12-inch thermometer, by Jones, in a mahogany case, and a compound microscope imperfect	0-12-0
81 A 12-inch thermometer, in a mahogany case, by Jones	0-15-0
82 A Six's improved thermometer, by Jones	0-17-0
83 A portable printing press, with a large quantity of types	5-5-0

84 A portable still	0-13-0
85 A neat mahogany 2 volume folio box, with insects, glazed covers, &c.	1-18-0
86 An hydraulic engine	2-14-0
87 A 10-inch brass horizontal sun-dial, by Jones, with cover and post	1-15-0
88 A curious glass globe 16 inches in diameter	1-2-0
89 A principia optica, by Storer	1-14-0
90 A combined 7-bar horseshoe magnet	1-0-0

£ 276-16-0

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91 A brass 12-inch armillary sphere in a mahogany glazed case	5-5-0
92 A 2-feet brass reflecting telescope, with 2 eye tubes, by Frasher, in a mahogany case	6-11-0
93 An air gun, by Bate, with a case	4-10-0
94 A capital 9-inch cylinder electrical machine, by Adams, with a great variety of apparatus, and a packing chest	15-4-6
95 A Davenport's table air-pump, by Cole, with a large quantity of useful apparatus	9-19-6
96 A capital compound microscope, in a case	7-7-0
97 A single-barrelled air-pump, with receivers, &c.	1-10-0
98 A large double-barrelled standing air-pump, with a long barometer gauge	4-4-0
99 A brass solar microscope, by Adams	3-7-0
100 A model of an horizontal windmill, its sails feather to the wind, and a small single-barrelled air-pump	1-17-6
101 A 9-inch fish-skin mounted reflecting telescope, with rack work, to answer other as a Gregorian, or Cassegrain construction	3-15-0
102 Magellan's circular instrument, by Nairne, 10 inches diameter, best finished, and divided to 30 seconds, in a mahogany case [Note: 'seconds' is underlined and in handwriting added 'minutes']	8-8-0
103 A complete rain gauge to measure to the 1000 th part of an inch, by Nairne	3-13-6
104 A glass-plate electrical machine 30 inches in diameter, with two conductors, one being 5 feet in length, by Nairne	9-11-16

£ 364-7-6

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105 An electrical machine, by wheel and pinion, with a jar and directors, in a box	4-6-0
106 A double-barrelled table air-pump, with gauge	5-5-0
107 A curious single-barrelled air-pump, by Nairne, to exhaust and condense, with copper fountain and jets	4-0-0
108 An excellent small balance beam, turning with less than 100 th part of a grain, with a vertical adjusting suspension in a glass case	2-3-0
109 An 18-inch brass reflecting telescope, by Nairne, with curious rack-work	

and adjusting rod	7-17-6
110 An hydrostatic balance, and a transparent churn	2-7-0
111 A pyrometer, by Ellicott	4-4-0
112 <i>A capital universal equatorial, the equatorial, &c., circles 10 inches diameter, carrying a reflecting telescope magnifying from 30 to 120 times, with a separate brass stand for the telescope</i>	32-11-0
113 A quadrant 16 inches radius, by Caleb Smith, with telescope, level, and stand	2-17-0
114 An 8-inch pocket thermometer, in a case	0-12-0
115 A curious portable barometer serving to measure the height of the mountains, &c.	4-0-0
116 <i>A grand magazine of microscopical apparatus, by Jones, containing the improved lucernal, solar, transparent, opaque, universal, compound, &c. microscope, with a complete variety of apparatus, and objects</i>	36-15-0
117 A middle sized double-barrelled air-pump, by Jones, with a variety of useful apparatus	9-9-0
118 Atwood's elegant and accurate mechanical apparatus, by Martin, for demonstrating the laws of falling bodies, with a large mahogany pillar and stand, and his treatise of its uses	5-5-0

£ 485-19-0

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119 A portable tellurian, by Jones, with book of directions	1-6-0
120 A 9-inch cylinder electrical machine, conductor, large jar, a set of musical bells, and a great variety of apparatus	5-10-0
121 An electrical universal discharger and press, a large jar, and sundry electrical apparatus	1-11-6
122 A large and complete battery of 9 jars, in a mahogany case	2-5-0
123 A ditto, ditto	2-3-0
124 A 12-inch brass, large aperture, achromatic telescope, by Adams, with rack-work stand, astronomical eye-piece, &c. in a mahogany case	5-5-0
125 A 7-inch brass pocket ditto, with plain portable stand, and fish-skin case	2-4-0
126 A pocket perspective drawing machine, in a mahogany case	0-16-0
127 A large complete curious ditto, in ditto	3-3-0
128 A double spirit portable barometer, by Baretto NB: crossed out and in manuscript: A Best (?) Barometer	2-5-0
129 An azimuth compass, by Cole	1-5-0
130 A 12-inch universal ring dial, with stand and mahogany case	2-17-6
131 A semicircular theodolite, with compass and staff	6-6-0
132 A gunner's level, and a set of brass shot gauges	1-2-0
133 A 7-inch complete theodolite and staffs, by Adams	5-5-0
134 An 18-inch spirit level and telescope, by [illegible because of stain] with a compass, constructed so as to answer as a portable transit	5-0-0

£ 529-3-0

135 A wheel barometer, by Jones	3-5-0
136 Two pieces of painted glass after Louthembourg, adapted to a window	5-15-0
137 A large magic lanthorn, with 6 painted slides	2-2-0
138 A small bird organ, with two barrels, plays 16 tunes	3-15-0
139 A 9-inch improved terrestrial globe, with a small compass	1-16-0
140 A portable delineator, by Storer	1-17-0
141 A set of artificial fire-works imitated	5-5-0
142 An optical deception, with 6 prints	1-5-0
143 A sagacious swan, in a box, with directions	2-8-0

BOOKS AND PRINTS

144 Bayer's Uranametria, folio, <i>scarce</i>	0-10-6
145 Vince on Practical Astronomy, Ferguson's Lectures, and Hutton's Mensuration, all 4to.	1-0-0
146 Albinus's Anatomy	0-19-0
147 Walter's Mathematical dictionary, Emerson's Astronomy, Emerson's Fluxions, Simpson's Algebra, and Miln's Well-bred Scholar	0-17-0
148 Simpson's Exercises, Walter's Mathematical Dictionary, Imison's School of Arts, and 3 more	0-15-0
149 Adams's Essays on the Microscope, fine plates, in folio	1-1-0
150 A set of the Gentleman's Diary, from the commencement, wanting only a few years	0-17-6

£ 562-11-0

151 A quantity of mathematical, philosophical, &c. pamphlets, descriptive of instruments, &c.	1-2-0
152 Cowley's Solid Geometry with curious folding plates, and Leybourn's Surveying	0-13-0
153 Lavoisier's Chemistry, Wyld's Surveyor, Miln's Scholar, Webster on Instruments, and 2 more	0-13-0
154 Martin's Synopsis of Cœlestial Science, Cometary World, the Orrery, and several other prints	0-10-0
155 Ditto, ditto	0-7-0

Added by hand:

Barometer	1-10-0
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THE END

£ 567-6-0