Catalogue

of the

~~Furniture~~ Machinery & Effects

at the

~~High House~~ Cambridge Street Works.

~~King's Norton~~ Birmingham

sold by Auction

by

Chesshire & Gibson

Decr. 12 - 20. 1854.

BIRMINGHAM REFERENCE LIBRARY.

CATALOGUE.

FIRST DAY'S SALE,

TUESDAY, DECEMBER 12TH, 1854.

Smiths' Forge.

LOT		C.	qrs	lbs.
1	Pair of 36-INCH BELLOWS and frame, with cast-iron cistern and water tue-iron			
2	Large anvil and block	3	3	2
3	Swage block and punching apparatus, with four punches, surface plate, and two bottom swages	3	0	23
4	Small anvil and block	2	0	0
5	Two cast-iron SWAGE BLOCKS	3	2	10
6	Pair of 30-INCH BELLOWS, with water tub and water tue-iron			
7	Two cast-iron cisterns, under smith's hearth			
8	Two deal cupboards, with shelves			
9	Wrought-iron crane, with chains and rack hook			
10	Strong vice and bench			
11	Long gas pendant and burner			
12	Nineteen top and bottom rounding swages, from $\frac{1}{4}$ in. to 3 in.	1	0	9
13	Eighteen top-necking swages and two bottom swages	0	2	0
14	Six half-round steel chisels, with handles, and seven set hammers			
15	Thirty hand mandrils			
16	Three cast-iron ditto and bottom swage	3	2	4
17	Twenty-four bottom swages, for dies for expanders, fourteen top ditto, and nine others	1	2	17
18	Eighteen bottom swages, two beak irons, and set	1	2	5
19	Iron horse			

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LOT		C.	qrs.	lbs.
20	Five hearth rakes and pokers, and sieve			
21	Odd iron for smiths' work			
22	Nine bolt tools and ten top tools	9	2	1
23	Seventy-three light iron frames for windows	0	2	1
24	Quantity of new ROUND AND BAR IRON	2	0	1
25	Pair of scales and ten iron weights	11	1	1
26	Quantity of new wrought-iron hexagon nuts, from $\frac{1}{4}$ in. to $1\frac{1}{4}$ in.			
27	Lot of ditto, and sundry useful iron	1	1	0
28	One hundred and two steel and iron SMITHS' TOOLS and rods, with three racks	5	1	2
29	Thirty-eight bolt tools (various sizes)	1	3	17
30	Nine cast-iron bolsters, for expanders	1	2	8
31	Twenty small wrought-iron ditto	2	2	20
32	Twenty-four bottom swage tools	0	2	8
33	Quantity of small tools and nut mandrils			
34	Four sledge hammers			
35	Three ditto and six hand hammers			
36	Lot of screw bolts			
37	Lot of useful steel	0	3	3
38	Lot of scrap steel	2	2	5
39	Six files and one float	1	1	15
40	Three squares, pair of compasses, two pairs of callipers, six drift mandrils, and three bolsters			
41	Quantity of gauges, two winding straight edges, and four punches			
42	Forty pairs of SMITHS' TONGS	1	1	16
43	Eighteen pairs of large ditto	1	1	11
44	Eight pairs of gas tongs	0	1	4
45	Two pairs of pot tongs	0	0	24
46	Twenty-nine wrenches (various sizes)	1	0	10
47	Sundries in cupboards			
48	Two water-tue irons and two iron ladles			
49	Sundries			
50	Ditto			
51	Twelve steeled mandrils, for drifting ferrules	2	0	24
52	Four flanges and four pairs of clams	0	3	9
53	Lot of hoop iron	1	3	18
54	About twenty-five bags of breezes			
55	Lot of SCRAP WROUGHT-IRON	30	3	25
56	Ditto $\frac{3}{8}$ in. wrought-iron BOILER PLATES	8	1	10

LOT		C.	qrs.	lbs.
57	Lot of thin plate iron	2	0	0
58	Ditto bar and angle iron	1	2	10
59	Ditto old wrought-iron (various)	8	0	10
60	Ditto useful wrought-iron and ferrule bender			
61	Crate of glass			
62	Lot of set rods	17	1	20
63	Quantity of useful WROUGHT-IRON	1	2	12
64	Lot of wrought-iron brackets	5	0	0
65	Ditto useful ironwork			

Carpenters' Shop.

66 Sundry moulds and patterns in corner
67 Canvass screen
68 Part of a cask of fire clay, and old wheelbarrow
69 Two wood cupboards
70 Quantity of wood boxes and trays, *in lots*
71 Four sun-blind frames, 10 ft. by 5 ft. 9 in.
72 Four pieces of mahogany
73 Five pieces of mahogany, and two frames and box
74 Hand barrow, shutter, and pair of steps
75 Painted cupboard and contents
76 Painted cupboard
77 Nine paint cans, and four varnish cans and contents, with brushes
78 STRONG CARPENTER'S BENCH, with wood screw
79 Two carpenter's saw benches, wood centre, and sundry boards under bench
80 Long carpenter's bench, with screw
81 Strong iron cramp
82 Box of useful screws, and sundries at end of bench
83 Three boxes and contents, consisting of nails and other ironmongery
84 Sundry locks, angle plates, and three door springs
85 Five boxes of nails, screw-pins, and sundries
86 Box of ochre and sundries
87 Six boxes of nails, screws, sprigs, and useful ironwork
88 Lot of cabinet locks, axle pulleys, blind springs, and sundry brass work, in six boxes
89 Box, containing drawer knobs, and sundries
90 Six boxes of screws, nails, and sprigs

LOT

91 Nine boxes of nails, screws, and tacks
92 Large box of nails
93 Strong deal plank, two tressels, and sundry glass in drawer under
94 Small vice and bench
95 Iron stove and piping
96 Box and sundries in manger
97 Deal table with eight drawers
98 Sundry planks and boards on floor
99 Seven small tressels
100 Seven ditto and three deal planks
101 Water-closet and case
102 Six wood uprights, and cross pieces supporting Upper Stores

Stores top of Yard.

103 Crate and contents
104 Two boxes, tier of shelves, and sundries
105 Crate, rabbit pen, jowl, basket, iron pot, and brushes
106 Quantity of SCRAP TUBING and trough — 24 3 20
107 Ditto of WROUGHT-IRON SWARF
108 Ditto of cast-iron ditto
109 Old wood framing, pulley, wheel, and crank
110 Steel swarf — 3 2 4
111 WROUGHT IRON CISTERN, 3 ft. 8 in. by 3 ft. 8 in. and 2 ft. 3 in. deep
112 Wood bench, with iron crank foot motion and wheel
113 Three sets of iron bedsteads, *(separate)*
114 Deal desk
115 Four wood packing boxes
116 Large wood case and three smaller ditto
117 Old lathe, head stocks, &c.
118 Three boxes and two casks of old glass
119 WROUGHT-IRON TUBULAR STEAM BOILER, 3 ft. 9 in. long, 2 ft. wide, and 2 ft. 6 in. high
120 Box containing useful ironwork
121 DRIVING DRUM, with wrought-iron centre, 18ft. long, and 22 inches diameter
122 Large iron-bound cask and packing case
123 Carboy of sulphuric acid

LOT		C.	qrs.	lbs.
124	Five casks and contents, and four crates	3	0	12
125	Quantity of SHORT WELDED TUBES, $2\frac{1}{2}$ in. diameter	3	1	10
126	Ditto, $2\frac{3}{4}$ in. and $2\frac{1}{2}$ in.	1	0	0
127	Eight $2\frac{1}{4}$ in. tubes, for bedsteads	1	0	20
128	46 ft. of $1\frac{1}{4}$ in. GAS TUBING	2	2	0
129	140 ft. of 1 in. ditto	2	2	0
130	200 ft. of $\frac{3}{4}$ in. ditto	0	3	2
131	Quantity of odd lengths of gas tubing	0	1	0
132	40 ft. of $\frac{1}{2}$ in. to $\frac{3}{8}$ in. gas tubing	3	2	0
133	Quantity of $\frac{3}{4}$ in. ANTI-WELDED TUBES			
134	Sundries			

Small Store Room by Gates.

135 Quantity of hammer shafts and four mallets
136 Lot of file cleansers and file handles
137 Deal stand table
138 Ditto ditto
139 Quantity of screw bolts, from $\frac{7}{8}$ to $\frac{1}{2}$ in., in boxes — 2 1 16
140 Wood shelves and seven iron holdfasts
141 Tar string and band, and wood box
142 Riddle, brush, and sundries
143 Long deal bench
144 Quantity of washers and sundries in window
145 Lot of mill boards, hemp, &c.

Yard.

146 Large grindstone, 4 ft. 6 in. by 4 in., with spindle
147 Two iron stoves
148 Ten iron buckets
149 SHAKING BARREL, two iron stoves, and tin funnel
150 Lot of cast-iron frames
151 Two iron stoves and eight buckets — 3 3 0
152 Three lengths of cast-iron piping, with flanges
153 Lot of WROUGHT-IRON SCRAP TUBES, of various lengths — 3 0 9
154 Lot of sheet-iron scrap — 13 3 0
155 Seven galvanized iron pipes, and one with elbow and flanges — 10 0 0

LOT

156 Large CAST-IRON SHAKING BARREL, 9 ft. long, and 2 ft. 2 in. diameter, with shaft and spur wheel, carriages, brasses, and standards
157 Quantity of waste tubes, and sundry iron scrap
158 Hand cart
159 Three-tier tree stand
160 Dog kennel
161 Crate, containing two large and sundry small sheets of glass
162 Two crates of glass
163 Iron railway carriage wheel, 3 ft. diameter
164 Stone cistern and filter
165 Wood trough and supports
166 Lot of blue bricks
167 Rack, manger, and bucket, in Stable
168 Nest of ten drawers, and open frame
169 Two doors, wood pattern, and rack for time tokens
170 Quantity of old bricks
171 Eleven-round ladder
172 Lot of USEFUL TIMBER
173 Ditto ditto
174 Ditto ditto
175 Ditto ditto
176 Ditto ditto
177 Ditto ditto
178 Ditto ditto
179 Ditto ditto
180 Ditto ditto
181 Ditto ditto
182 Ditto ditto
183 Ditto ditto
184 Ditto ditto
185 Old doors and shutters
186 Lot of boxes
187 Ditto ditto
188 Ditto ditto
189 Lot of tressels
190 Ditto ditto
191 Ditto ditto
192 Lot of deal boards
193 Sundry steadies for lathes

LOT

194 Two stone steps, pump trough, and three pieces of stone
195 LARGE MEAT SAFE, on stand
196 Lot of new timber, for tressels
197 Lot of framed boarding and racks, for Saddle House
198 Quantity of WOOD PATTERNS
199 Ditto ditto
200 Ditto ditto
201 Ditto ditto
202 Ditto ditto
203 Ditto ditto
204 Ash tree
205 Large DEAL CUPBOARD
206 Three deal cupboards, fitted with racks and spring catches
207 Gate frame, door frame, and wheelbarrow
208 Lot of dry casks
209 Three crates
210 Bedstead, with canopy top
211 Box of tesselated tiles
212 Cask, box, and contents
213 CARPENTER'S BENCH, with double screw
214 Large box, hamper, and lot of bottles
215 Lot of Staffordshire tiles, in box and basket
216 Two balustrade ornaments, and lot of small tiles
217 Stone water filter and sundries
218 Lot of button moulds, and two pattern draining tiles, and box
219 Sundries
220 Ditto
221 Ditto

End of First Day's Sale.

quare rubbers, bas

SECOND DAY'S SALE,

WEDNESDAY, DECEMBER 13TH, 1854.

Mill.

LOT

222 STRONG DOUBLE-SIDED PRESS
223 Ditto SINGLE-SIDED PRESS
224 Ditto ditto, with tools for piercing malleable-iron ferrules
225 Eight pairs of PRESS TOOLS
226 Two excellent SINGLE-SIDED PRESSES
227 Ditto ditto ditto
228 Ditto ditto ditto
229 Ditto ditto ditto
230 Ditto ditto ditto
231 Ditto ditto ditto
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243 Ditto ditto ditto
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245 Ditto ditto ditto
246 Ditto ditto ditto
247 Ditto ditto ditto
248 Ditto ditto ditto

LOT

249 Two excellent SINGLE-SIDED PRESSES
250 Ditto ditto ditto
251 Quantity of treadles and rods for presses, *in lots*
252 Lot of BUTTON TOOLS
253 Ditto ditto
254 Ditto ditto
255 Ditto ditto
256 Ditto ditto
257 Ditto ditto
258 Ditto ditto
259 Ditto ditto
260 Lot of press wrenches
261 LARGE and POWERFUL PLANING MACHINE, by *Collier and Co.*, will plane a surface 15 ft. 6 in. by 3 ft., with self-acting motions, complete
262 EXTRA CROSS SLIDE, with fixing, saddle, tool-holder, and twenty-one CRANKS AND TOOLS for planing external curves, from $\frac{3}{4}$ in. to $3\frac{3}{4}$ in., with wood rack
263 TWO APPARATUS for planing internal curves, from $1\frac{3}{4}$ in. to 5 in.

LOT		C	qrs.	lbs.
264	Five small angle plates, with distance bush	0	3	0
265	Two large angle plates, and three smaller ditto	4	0	4
265*	Two ditto, and four smaller ditto	2	2	9
266	Two fixing plates and one angle plate	1	2	2
267	Wrought-iron standard size plugs for tube moulds	1	0	0
268	Cast-steel planing tools	2	1	18
269	Steel and iron ditto	1	0	16
270	Wrought-iron cramps and plates	2	1	0
271	Ditto and sundry ironwork	1	1	0
272	Wrought-iron pins and burs	2	1	0
273	Wrought-iron dogs and setting screws	0	3	3
274	Wrought-iron stops and plugs	1	1	0
275	Wrought-iron plates and cramps	2	2	14
276	Lot of useful ironwork	4	1	0
277	Two wrought-iron spindles, with square-threaded screws			
278	Seven steel plates and two shovel moulds	1	0	18
279	Pair of powerful hand shears and bench	1	0	25
280	Lot of tools for fixing tubes in boilers			
281	Apparatus for boring holes in tube plates			

LOT		C.	qrs.	lbs.
282	Thirty-seven hollow-socket ferrule drifts, for inserting tubes in boilers			
283	Lot of useful tools for ditto			
284	Sundries			
285	Ditto			
286	Ditto			
287	APPARATUS FOR TURNING ROLLS			
288	Boring apparatus to ditto			
289	Two fixings for ditto	6	2	24
290	Ten wrenches	7	0	
291	Pair of 4 in. wrought-iron clams and lever, and worm for still	0	0	27
292	Quantity of useful planed parallel pieces			
293	Strong wood bench	2	2	5
294	Deal cupboard			
295	Four shelves, with iron brackets, and sundries on ditto			
296	Powerful SINGLE-SIDED PIERCING PRESS, with 3 in. screw, fly, balance balls, &c., and strong bench, with cupboard under			
297	DIES and TOOLS to ditto	1	1	10
298	IRON SURFACE TABLE, 3 ft. 9 in. by 2 ft. 6 in.	2	2	0
299	Smaller ditto	2	1	19
300	Ditto ditto	2	1	19
301	Ditto ditto	3	2	0
302	Ditto ditto	3	1	10
303	Ditto ditto	5	2	0
304	Large steel and iron die	0	3	16
305	Large cupboard			
306	Smaller ditto and four wood tressels			
307	Box, and tier of three shelves			
308	Five squares and plumb bob			
309	CHARCOAL PLATE IRON, in 7 ft. lengths, and $2\frac{1}{4}$ in. wide	12	1	0
310	Thirteen-round ladder and pair of six steps			
311	28 ft. run of 1 in. gas piping, with sixteen elbows			
312	Two planed wrought-iron bars	0	2	15
313	CASE OF WHITWORTH'S PATENT STOCKS and DIES, from $\frac{3}{4}$ in. to $1\frac{1}{2}$ in. and one extra tap, $1\frac{3}{4}$ in., including seven sets of dies, twenty-eight taps, stocks, three tap wrenches, and screw key			

LOT				
314	CASE containing set of SEVEN EXTERNAL and INTERNAL STANDARD GAUGES, by *Whitworth*, varying from $2\frac{1}{4}$ in. to 4 in.			
315	CASE OF TWELVE EXPANDING BORING BITS, by *Shanks*, from $\frac{3}{4}$ in. to $2\frac{1}{2}$ in.			
316	CASE OF FIVE EXTERNAL and INTERNAL STANDARD GAUGES, by *Whitworth*, from			
286A	POWERFUL THREE-ROLL TUBE-WELDING MACHINE, by *Prosser*, with set of rolls for making 3 in. tubes			
286B	Ditto ditto			
286C	Ditto ditto			
286D	Set of extra ROLLS for making 3 in. tubes			
286E	Ditto ditto for making $2\frac{3}{4}$ in. ditto			
286F	Ditto ditto for making $2\frac{1}{2}$ in. ditto			
286G	The WOOD PATTERNS for making three-roll tube-welding machine			
286H	Three extra BEVIL WHEELS, cast-iron centre and ring, and pair of brasses			
	Brass escape valve			
320	Wrenches and useful ironwork to press	5	3	0
320*	Small PORTABLE FIRE ENGINE, on wheels, with 6 in. barrels, and the piping and cistern belonging thereto			
321	Nine 9 ft. lengths of 4 in. STEAM PIPE, connecting press with boiler and stack			
322	*Smith's* steam indicator			
323	Two deal rods and iron suspenders to steam pipe			
324	POWERFUL TRAVERSING CRANE			
325	The extensive wood framing for ditto, with iron railroad, and wood and iron supports			
326	Pair of large three-sheaf PULLEY BLOCKS and ROPE, capable of lifting from 4 to 5 tons			
327	Lot of leathers for hydraulic press and box			
328	Wrought-iron rings for making ditto			

C. qrs. lbs.

LOT

314 CASE containing set of SEVEN EXTERNAL and INTERNAL STANDARD GAUGES, by *Whitworth*, varying from $2\frac{1}{4}$ in. to 4 in.

315 CASE OF TWELVE EXPANDING BORING BITS, by *Shanks*, from $\frac{3}{4}$ in. to $2\frac{1}{2}$ in.

316 CASE OF FIVE EXTERNAL and INTERNAL STANDARD GAUGES, by *Whitworth*, from $1\frac{1}{2}$ in. to 2 in.

317 CASE OF SCREWING APPARATUS, for gas tubing, containing three sets of stocks, with eleven sets of dies, and thirty-five taps, varying from $\frac{3}{8}$ in. to 2 in., with six wrenches

318 LARGE and POWERFUL COMPOUND STEAM HYDRAULIC PRESS, with balance weights, valve gearing, connecting pipes, &c., complete, comprising three STEAM CYLINDERS of 48in. diameter, and 3 ft. stroke, combined with three HYDRAULIC CYLINDERS and rams of 6 in. diameter, acting upon or connected to a strong and powerful hydraulic press, with three cylinders and rams of 13 in. diameter, equal to a power of NINE HUNDRED TONS; length of press 15ft., width 3ft. $1\frac{1}{2}$in., height, 2ft. $2\frac{1}{2}$in.; also seven duplicate cylinders, estimated *weight of the whole, 50 tons*

319 Brass escape valve

320 Wrenches and useful ironwork to press — 5 3 0

320* Small PORTABLE FIRE ENGINE, on wheels, with 6 in. barrels, and the piping and cistern belonging thereto

321 Nine 9 ft. lengths of 4 in. STEAM PIPE, connecting press with boiler and stack

322 *Smith's* steam indicator

323 Two deal rods and iron suspenders to steam pipe

324 POWERFUL TRAVERSING CRANE

325 The extensive wood framing for ditto, with iron railroad, and wood and iron supports

326 Pair of large three-sheaf PULLEY BLOCKS and ROPE, capable of lifting from 4 to 5 tons

327 Lot of leathers for hydraulic press and box

328 Wrought-iron rings for making ditto — 0 3 4

LOT		C.	qrs.	lbs.
329	Eight cast-iron MOULDS FOR DISHING COPPER			
330	Twenty three cast-iron drifts, for copper tubes	13	2	0
331	Thirty-three CAST-IRON DIES for DRAWING COPPER ROLLERS, from 10¼ in. to 8¼ in.	3	0	24
332	Thirty-three ditto 8¼ in. to 7 in.	21	0	16
333	Thirty-three ditto 7 in. to 6 in,	22	2	16
334	Thirty-three ditto 6 in. to 4⅝ in.	20	0	14
335	Six mandrils for ditto (one unturned)	18	1	0
336	The WOOD PATTERNS for making dies	10	2	0
337	One top plate for drawing copper			
338	Four large wrought-iron bolts for ditto	4	0	20
339	Sundries	0	3	0
340	SET OF CAST-IRON MOULDS, WITH HOLDER, FOR MANUFACTURING 4 in. TUBES, 15 ft. long	111	0	0
341	Ditto for 3¼ in. ditto, with wrought-iron bottom	70	1	0
342	Ditto „ 3 in. ditto ditto	58	2	12
343	Ditto „ 2¾ in. ditto ditto	51	2	16
344	Ditto „ 2½ in. ditto ditto	53	2	12
345	Ditto „ 2¼ in. ditto ditto	45	1	0
346	Ditto „ 2 in. ditto ditto	41	2	0
347	Ditto „ 1⅞ in. ditto ditto	37	1	0
348	Ditto „ 1¾ in. ditto ditto	41	2	0
349	Ditto 9 ft. 6 in. moulds for ¾ in. tubes, and one mandril	15	2	14
350	Ditto 5 ft. ditto for 5¼ in. ditto, one unfinished	17	0	0
351	Top plate and one holder	29	2	7
351*	WOOD PATTERNS, for tube moulds			
352	Ditto ditto ditto			
352*	STRONG PORTABLE VICE, on pillar and wheels, with bench and box			
353	TWO STRONG PORTABLE VICES, with iron bench and rests, and frame of drawers under	1	2	7
354	Lot of strong iron chain (8 pieces)	1	1	26
355	Lot of strong iron chain (4 pieces)			
356	Deal cupboard, with folding doors			
357	POWERFUL LIFTING JACK			
358	Deal cupboard, with folding doors, and contents, and timber over			

LOT		C.	qrs.	lbs.
359	Five wood frames, with two screws and wheels, and mahogany moulds			
360	Iron hand pump	8	1	12
361	Seven pairs of wood clams, with bolts	2	3	0
362	Quantity of WROUGHT BAR IRON			
363	Seven pieces of wrought iron, for bending hoops			
364	Four large spanners			
365	Large portable vice	1	2	12
366	Lot of rope slings			
367	TURNED WROUGHT-IRON RINGS			
368	CAST-IRON CISTERN, 3 ft. 10 in. by 2 ft. 1 in. and 1 ft. 8 in. deep	6	2	0
369	Quantity of timber and sundries against wall			
370	HYDRAULIC PUMP, for testing tubes			
371	Ditto ditto ditto			
372	Ditto ditto ditto			
373	Large swage block, with ironwork	5	2	7
374	Two pieces of ash timber, frame, and two shelves			
375	BRICK MUFFLE, 18 ft. by 7 ft. and 6 ft. 6 in. high, with the iron plates, braces, and pins, and the brick wall adjoining			
376	Seven furnace tools	0	3	10
377	Lot of useful ironwork	3	3	13
378	TUBE-TESTING APPARATUS, with cupboard and contents			
379	Quantity of screw pins (various sizes)	4	1	15
380	Ditto of USEFUL SMITHS' IRONWORK	10	1	0
381	Dinner bell and fixing			
382	Tell-tale clock			
383	9 in. brick wall, from stack to pillar, 23 ft. long and 6 ft. high			
384	Useful wrought-iron work			
385	Ditto ditto			
386	Ditto ditto	4	3	0
387	Plank and two spouts	4	1	0
388	Trolley, on iron wheels	4	2	10
389	Two wheelbarrows, shovel, and pick			
390	SET OF LARGE IRON BEAM SCALES, by *Chambers, Day, and Co.*			
391	IRON WEIGHTS, viz., twenty 56 lbs., one 28 lbs., one 14 lbs., one 7 lbs., and five smaller ditto			

LOT
392 Length of wood spouting and shutter frame
393 Sundries
394 Ditto

End of Second Day's Sale.

THIRD DAY'S SALE,

THURSDAY, DECEMBER 14TH, 1854.

Mill Continued.

LOT
395 Two excellent SINGLE-SIDED PRESSES
396 Ditto ditto ditto
397 Ditto ditto ditto
398 Ditto ditto ditto
399 Ditto ditto ditto
400 Ditto ditto ditto
401 Ditto ditto ditto
402 Ditto ditto ditto
403 Ditto ditto ditto
404 Ditto ditto ditto
405 Ditto ditto ditto
406 Ditto ditto ditto
407 Ditto ditto ditto
408 Three ditto ditto
409 GALVANIZED IRON CISTERN, 3 ft. 8 in. by 3 ft. 8 in., and 2 ft. 3 in. deep, with brickwork and about 25 ft. of piping, and brass tap
410 *Worthington's* WATER INDICATOR to boiler
411 *Smith's* ditto and safety apparatus on boiler
412 37 ft. of $1\frac{1}{2}$ in. iron piping, and two brass taps
413 PORTABLE FORGE, with bellows and anvil
414 SUPERIOR STEAM DONKEY, by *Nasmyth*, for feeding boiler
415 Upwards of 100 ft. of 1 in. IRON PIPING, from boiler, with four 1 in. brass stop cocks
416 TUBULAR BOILER, 7 ft. 6 in. long, and 4 ft. diameter, containing thirty-two 3 in. tubes, with fire-door, frame and bars, safety valve, and the iron and brick setting belonging thereto

417 WATER INDICATOR, by *Worthington*
418 Force pump for steam engine
419 Twenty-eight feet of 1½ in. supply pipes, and three brass taps
420 STOP VALVE on tubular boiler, and 24 ft. of 4 in. iron piping, with 4 in. stop valve
421 Forty feet of ½ in. iron piping, from boiler to engine
422 VACUUM GAUGE to condenser, by *Casella, London*
423 BRIGHT DRIVING SHAFT, 21 ft. long and 2 in. diameter, with two brackets, four carriages and brasses, and two turned IRON PULLEYS, one 26 in. diameter, and 4 in. on face, and the other 24 in. diameter, and 6 in. on face, and pair of wood and iron MITRE WHEELS, and one duplicate
424 Angular wall fixing, supporting ditto
425 Turned iron pulley, 2 ft. 4 in. diameter, and 10½ in. on face
426 Ditto ditto, 2 ft. 8 in. ditto, and 8 in. ditto
427 Ditto ditto, 2 ft. 4 in. ditto, and 17 in. ditto
428 Ditto ditto, 2 ft. ditto, and 7½ in. ditto
429 Pair of FLATTENING ROLLS, with frame, shaft, and coupling box
430 Set of duplicate flattening rolls and pinions — 2 3 10
431 Two cast-iron STRAIGHTENING PLATES, 15 ft. long, 10½ in. wide, and 2½ in. thick, on wood trestles, and two wrought-iron plates
432 Small pair of pulley blocks and rope
433 Machine for manufacturing tesselated bricks and tiles
434 Very strong and powerful self-acting PLANING MACHINE, by *Shanks and Co.*; will plane a surface 16 ft. by 3 ft. 6 in., with self-acting motions, complete, and two spare racks and pinions
435 SKELP HOLDER for planing machine *(on a modern principle, by Prosser)*, 16 ft. long, with gearing, sideboards, &c., complete
436 TWO FIXINGS FOR TOOL HOLDERS, fitted-up complete with two sets of compound holders and tools — 1 1 2

LOT		C.	qrs.	lbs.
437	Fifty-one cast-steel tools and six holders	0	1	24
438	Seventy steel and iron planing tools, for scarfing skelps	0	2	13
439	Fifty steel tool holders and tools	0	1	11
440	Fifty ditto ditto	0	2	0
441	Forty-three ditto ditto	0	1	15
442	Thirty-eight ditto ditto	0	1	12
443	Lot of wrenches and lever to planing machine	0	1	11
444	Useful wrought-iron work to ditto	0	2	5
445	Cast-iron packings for skelp holder	3	3	25
446	Wrought-iron skelp gauges	0	2	14
447	A POWERFUL SELF-ACTING PLANING MACHINE, by *Collier and Co.*, to plane a surface 15 ft. 6 in. by 3 ft., with self-acting motions, and two spare racks, complete			
448	SKELP HOLDER for ditto, by *Prosser*, 16 ft. long, with gearing and sideboards, complete			
449	Cast-iron packings for ditto	1	3	20
450	TWO FIXINGS for tool holders, fitted up complete, with four sets of compound TOOL HOLDERS AND TOOLS			
451	Fifteen steel tools and five holders	0	0	18½
451*	Steel planing cutters	0	0	16
452	APPARATUS FOR MAKING CUTTERS, comprising one fixing and five circular cutters, with two spindles, &c.			
453	Nine wrenches	0	0	14
454	Useful ironwork to machine	0	1	3
455	Short cast-iron skelp holder	6	3	18
456	Skelp gauges	0	1	13
457	Pulley, shaft, and frame, with chain and bucket at end of planing machine			
458	Ditto ditto ditto			
459	STRONG AND POWERFUL TRIANGLES, with pulley blocks, windlass, and chain, capable of lifting from four to five tons			

Leather Driving Bands.

460 Strong driving band, 45 ft. 6 in. by 7 in., weight, 30 lbs.
461 Two bands, 53 ft. 6 in. by 4 in. and 24 ft. by 3 in. weight, 29½ lbs.

LOT		C.	qrs.	lbs.
462	Two bands, 51ft. by 3in. and 23ft. by 3in., weight, 26½ lbs.			
463	Two ditto, 52 ft. by 3 in. and 29 ft. 6 in. by 4 in. weight, 25¼ lbs.			
464	Three ditto, 19 ft. by 3 in.; 12 ft. by 5½ in.; and 11 ft. by 1½ in., weight, 20 lbs.			
465	Five ditto, 21 ft. by 3¾ in.; 15 ft. by 2 in.; 12 ft. by 2¼ in.; 16 ft. by 1½ in. and 11 ft. by 2 in., weight, 18 lbs.			
466	Four ditto, 30 ft. by 2¾ in.; 13 ft. by 3 in.; 12 ft. 2¾ in.; and 12 ft. by 2¼ in., weight, 18¾ lbs.			
467	Four ditto, 22 ft. by 3 in.; 15 ft. by 2 in.; 17 ft. by 3 in.; and 18 ft. by 2½ in., weight, 18¼ lbs.			
468	Four ditto, 27½ ft. by 2½ in.; 16 ft. by 2¼ in.; 14 ft. by 2 in.; and 13 ft. by 2 in., weight, 14½ lbs.			
469	New gutta percha band, 13 ft. by 6 in., weight, 17 lbs.			
470	Three doz. white leather band lacings			
471	Leather band, 45 ft. by 3¾ in., weight, 17½ lbs			
472	Six strong benches			

Mill Continued.

473	Machine for copying drawings, (unfinished)			
474	Very strong and POWERFUL SHEARING and SLITTING MACHINE for iron plates, by *Prosser*, with MOVEABLE HEAD STOCKS for various breadths, traversing bed, 15ft. 6in. with carriage, driving gearing, clam couplings, and machinery, complete			
475	The WOOD PATTERNS for ditto			
476	Seventeen extra cast-steel CIRCULAR CUTTERS to shearing machine			
477	STRONG AND VERY POWERFUL SELF-ACTING SHEARING MACHINE, for wrought-iron plates, by *Prosser*, with 36 ft. bed, two traversing carriages, with stretching motion, and two pairs of cutters, with their shafts, wheels, and fixings, gearing, &c., complete	2	1	15
478	The WOOD PATTERNS for making the above machine			
479	Pair of very strong TONGS to ditto, with wheel and screw			

LOT		C.	qrs.	lbs.
480	Pair of very strong TONGS (as last lot)			
481	Pair of extra CIRCULAR CUTTERS and shafts to ditto			
482	Ditto ditto ditto			
483	Pair of cast-iron standards for ditto, with brasses, distance rods, &c., complete			
484	Six turned distance washers to ditto	0	2	20
485	Twelve circular steel and iron cutters to ditto	1	2	2
485*	Double slide rest			
486	BRIGHT WROUGHT-IRON SHAFT, 15 ft. long, and 2⅝ in. diameter, at per lb., with chairs, brasses, and coupling box			
487	Ditto ditto, 15 ft. long, and 2⅜ in. diameter, with coupling box			
488	Ditto ditto, 9 ft. 9 in. long, and 2⅜ in. diam. with two chairs, brasses, and coupling box			
489	Ditto ditto, 15 ft. long, and 2 in. diameter			
490	TURNED IRON PULLEY, 2 ft. 6 in. diameter, and 8 in. on face			
491	Ditto, 2 ft. 8 in. diameter and 11 in. on face, with conical bush			
492	Ditto, 15½ in. diameter and 13 in. on face			
493	Ditto, 2 ft. 7 in. diameter and 12½ in. on face, with conical bush			
494	Ditto, 2 ft. 4½ in. diameter and 11¼ in. on face, with conical bush			
495	The wood framing and three uprights supporting shafting, with iron plates, screw pins, &c.			
496	VALUABLE TIN WORKER'S MACHINERY, by *Roys and Wilcox, Berlin*, and by *Flanders and Blake, America*, with the various apparatus and tools belonging thereto, and bench			
497	Eight short tubes and pair of draw bench tongs	0	3	3
498	Lot of sample boiler tubes, with wrought-iron plates	2	0	20
499	About one thousand 2 11/16 inch MALLEABLE IRON FERRULES, for 2¾ in. tubes about	4	3	21
500	About one thousand ditto, 2 5/16 inch, for 3 in. tubes, about	5	3	4
500*	Lot of 3 in. ditto	0	3	12
501	Ninety-five 4 in. ditto	0	3	10
502	Wrought-iron ditto 3¼ in. ditto	2	0	10
503	Ditto ditto 2 in. and 2¼ in. ditto	1	3	5

LOT		C.	qrs.	lbs.
503*	Wrought-iron ferrules, for 2¼ in. tubes (unturned)	1	2	5
504	Deal ferrule box, with eight divisions			
505	Ditto ditto, with seven divisions			
506	Deal tool cupboard and box			
507	Three oil cans and contents, and stand			
508	Large box			
509	Deal cupboard and sundries			
510	Lot of engine tools, spare bucket, and clack	1	0	10
511	One hundred and twenty-five WELDED TUBES, 2 in. diameter, 5 ft. 7 in. long	10	2	8
512	One hundred and twenty-five ditto, 2 in. diameter, 5 ft. 1 in. long	9	2	16
513	Two 2 in. pedestals, with brasses, complete			
514	Five screws, and various ironwork for a press			
515	Dividing plate, with spindle, &c.			
516	Lot of useful ironwork			
517	Cast-iron fly wheel, 3 ft. diameter	1	2	10
518	Circular brush and spindle			
519	Spindle lever and lead lap	0	3	0
520	Six IRON SPUR WHEELS (various sizes)	6	3	0
521	Six wrought-iron tubes, 5 in. diameter, 3 ft. 6 in. long, part bored and turned	4	0	10
522	FIVE MITRE WHEELS and shaft, 18 in. diameter, 2½ in. on face, and 1¾ in. pitch	4	0	20
523	TWO-HORSE POWER DISC ENGINE			
524	Cast-iron stand, with wrought-iron tie rods and bolts			
525	VERY COSTLY NOTCHING MACHINE and frame, with steel circular cutters and two extra spindles, with sliding table and 8 in. roll, with pulleys, gearing, &c.			
526	Four-inch safety valve			
527	Portable FIVE-HORSE DIAGONAL STEAM ENGINE, by *Rowan*, (on *Brunel's* principle) with 8 in. stroke, two 5 in. cylinders, fly wheel, force pump, &c.			
528	Two-inch stop valve			
529	Iron carriage, for conveying tubes to furnace			
530	Seventeen MITRE, BEVIL, and SPUR WHEELS, of various sizes	1	3	20

LOT		C.	qrs.	lbs.
531	FOUR CAST-IRON PULLEYS, of the following sizes, viz., 22 in. by 6 in., 14 in. by 6 in., 14 in. by 3 in., and 8 in. by 5 in.	1	2	0
532	Three ditto, viz., 20 in. by 3½ in., and two 18 in. by 2½ in.	0	3	10
533	Four ditto, viz., 24 in. by 4¼ in., 24 in. by 3 in., 16 in. by 2¼ in., and 9 in. by 5 in.	1	2	0
534	Quantity of wrought-iron guide plates, with planed edges	16	2	0
535	Machine for testing the strength of iron, with twelve iron weights			
536	Hand drilling machine and stand, by *Kirk*			
537	Two turned cast-iron MANDRILS, 5 in. diam.	3	2	0
538	1¾ in. BRIGHT IRON SHAFT, with two turned PULLEYS, of 25½ in. diameter and 4¾ in. on face, and 15 in. diameter and 6 in. on face, and two iron hanging pedestals			
539	1⅞ in. ditto ditto, with two chairs and brasses			
540	Two CONICAL PULLEYS, and two end plates	1	3	16
541	Three iron castings for stop valves, bored and turned	1	2	12
542	Two iron fly wheels, of 3 ft. 6 in. and 2 ft. 3 in. diameters	1	0	16
543	Three cast iron pipe moulds, with fittings	1	2	25
544	Two iron dampers and frames	0	2	0
545	Small drum, with end plates and centre	0	2	16
546	Large iron pestle and mortar	1	1	10
547	Eight lengths of vulcanized india rubber hose, in 14ft. lengths, from 1½ in. to 3 in. diameter, and wood rods			
548	IRON AND COPPER GAS FITTINGS in Mill, consisting of twenty-one branches from the main pipe, with brackets and burners			
549	Two large wood packing cases, and five pieces of timber			
550	Large quantity of iron GAS PIPING and elbows, in box, with brass taps			
551	Wrought iron bars for tubular boilers	3	0	27
552	Wood drum, with axle			
553	Sundries			

End of Third Day's Sale.