COTTON MACHINERY SKETCHES

CARD ROOM OF 5-STORRY MILL

Containing 78,384 Mule Spindles, Spinning American Cotton, Nos. 32's Twist and 45's Weft.

1 Bale Breaker and Lattice Mixing Arrangement.
2 Horizontal Exhaust Openers.
10 Single Sketchers.
54 Carding Engines.
11 Draw Frames, each 3 heads of 7 deliveries.

9 Snibbers, each 96 spindles, 8 in. space.
10 Intermediates, 132 63 in.
20 Rovers, 172 5 in.
14 Rovers, 372 5 in., in 1st

Spinning Room

PREPARING MACHINERY

For 20,000 Mule Spindles, Spinning No. 80's Combed Yarn.

20 Carding Engines.
2 Silver Lap Machines.
2 Draw and Lap Machines.
14 Combing Machines of 8 heads each.
2 Draw Frames, each 3 heads of 7 deliveries.
2 Snibbers, 64 spindles each, 7 in. space.
4 Intermediates, 120 63 in.
10 Jacks, 300 44 in.

Fig. 214.

Fig. 215.
CARD ROOM OF INDIAN MILL

Containing 20,000 Ring Spinning Spindles, Spinning No. 20's.
2 Single Vertical Openers, with Porcupine Feeder.
9 " " Scutchers.
52 Carding Engines.
7 Draw Frames, each 2 heads of 7 deliveries.
7 Slubbers, 76 spindles each, 10 in. space.
8 Intermediates, 120 spindles each, 6½ in. space.
4 " " 122 " " 63 " "
25 Rovers, 160 " " 5 " "
3 Bundling Presses.

FIG. 216.

SPINNING AND WEAVING MILL

Containing 3016 Ring Spinning Spindles, Spinning 16's to 26's Twist and 20's to 36's Weft, and 250 Looms.

FIG. 217.
See Appendix for further illustrations.
COTTON MACHINERY SKETCHES

FIG. 21.

THRELFALL SELF-ACTING MULE.
SETTING-ON AND DRAWING-UP MOTIONS.

FIG. 22.
COTTON MACHINERY SKETCHES

GASSING FRAME.

JOSEPH STUBBS.

FRESH AIR DUCT

FIG. 178
JOSEPH STUBBS
MANCHESTER.

PATENT DOUBLER WINDER.
FROM 4' to 5' TRAVERSE—NEW ECCENTRIC MOTION.

FIG. 170.
JOSEPH STUBBS LIMITED.
MANCHESTER.

PATENT QUICK TRAVERSE WINDING FRAME.
IMPROVED TRAVERSE MOTION.
WITH SCROLL CAM FOR EACH SIDE & METAL TRAVERSE RODS.
COTTON MACHINERY SKETCHES

Illustration: Diagram showing the patent camless cone winder by Joseph Stubbs. The diagram includes an elevation, plan, and section views. The machine is labeled as a 'Patent Camless Cone Winder.'
JOSEPH STUBBS, LTD.
MANCHESTER.

PATENT QUICK TRAVERSE DOUBLE WINDER.

Fig. 181.
JOSEPH STUBBS & Co. MANCHESTER.

PIRN WINDER VARIABLE SPEED TRAVERSE MOTION.

Fig. 182.
HANK POLISHING MACHINE
FOR HANKS FROM 40 TO 90 CIRCUMFERENCE

STUBBS
COTTON MACHINERY SKETCHES

PLATT BROTHERS

Fig. 101.

ROVING FRAME
SECTION
THROUGH DRIVING SHAFT
PLATT BROS & CO.

Fig. 192.
RING SPINNING FRAME.
FOR WARP & WEFT YARNS.
SECTION THROUGH INSIDE OF FRAME LOOKING TOWARDS THE HEADSTOCK.

PLATT BROTHERS

Fig. 103.
COTTON MACHINERY SKETCHES

Fig. 234.

Fig. 235.
DOBSON & BARLOW'S COMBER.
IMPROVED NASMITH TYPE.
Fig. 253.

Fig. 254.
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