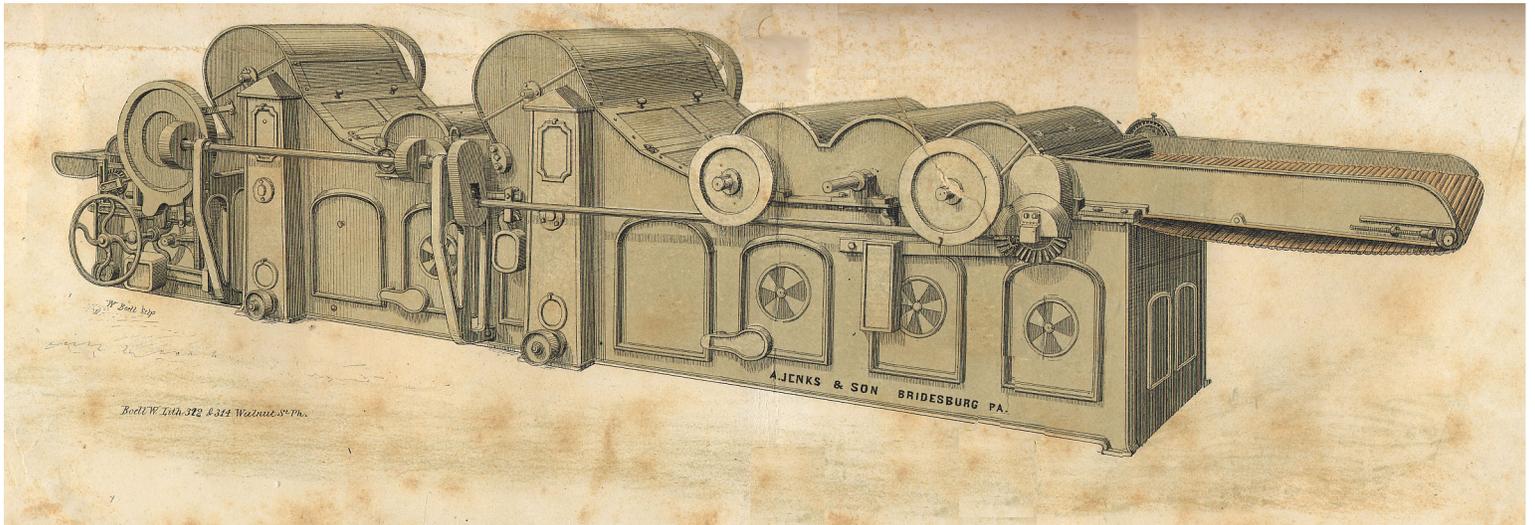


N^o 37.

SCUTCHER OR LAP MACHINE

With heavy Iron frame; and 3 small Parquetine cylinders; and Cage to follow; has also one Beater, with Cage to follow; This Machine both opens and cleans the Cotton, and also makes it into a lap; occupies a space of 23 Ft 6 inches long; by 7 Feet wide; has driving pulleys 12 x 3 $\frac{1}{4}$ in; should run Rev.

30 inch	\$
36 "	\$
40 "	\$

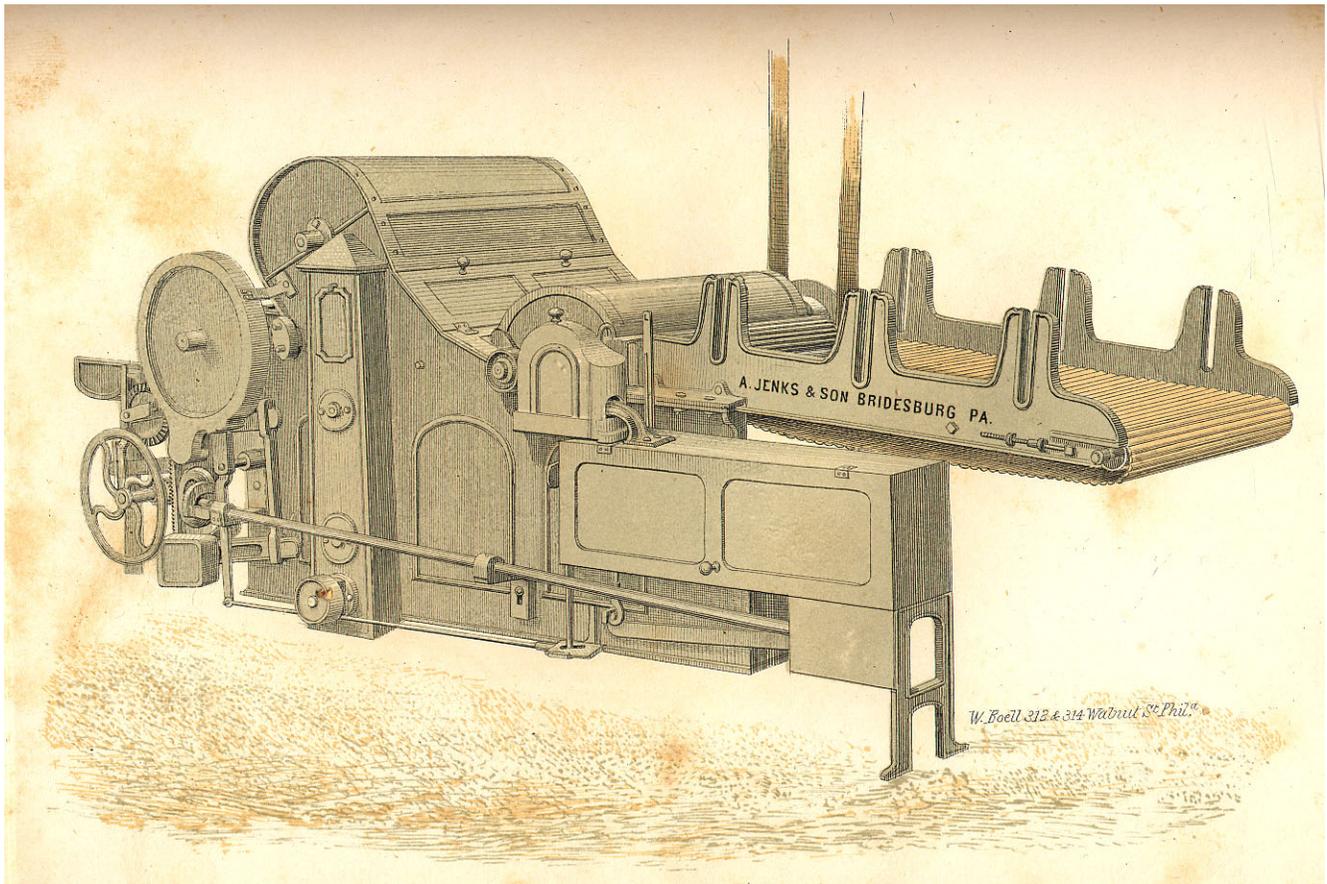


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N^o 38
IMPROVED LAP MACHINE

With one Beater 16 in diameter one set of Feed Rollers and improved Cages. Machine 15 Ft long 7 Ft wide Driving pulley 9 in diameter 3 1/2 in face and should run 1500 Revolutions per minute

30 in wide	.....	\$
36 " "	.....	\$
40 " "	.....	\$
<i>Evener motion to regulate the lap</i>	<i>.....</i>	<i>\$</i>



N^o 39.

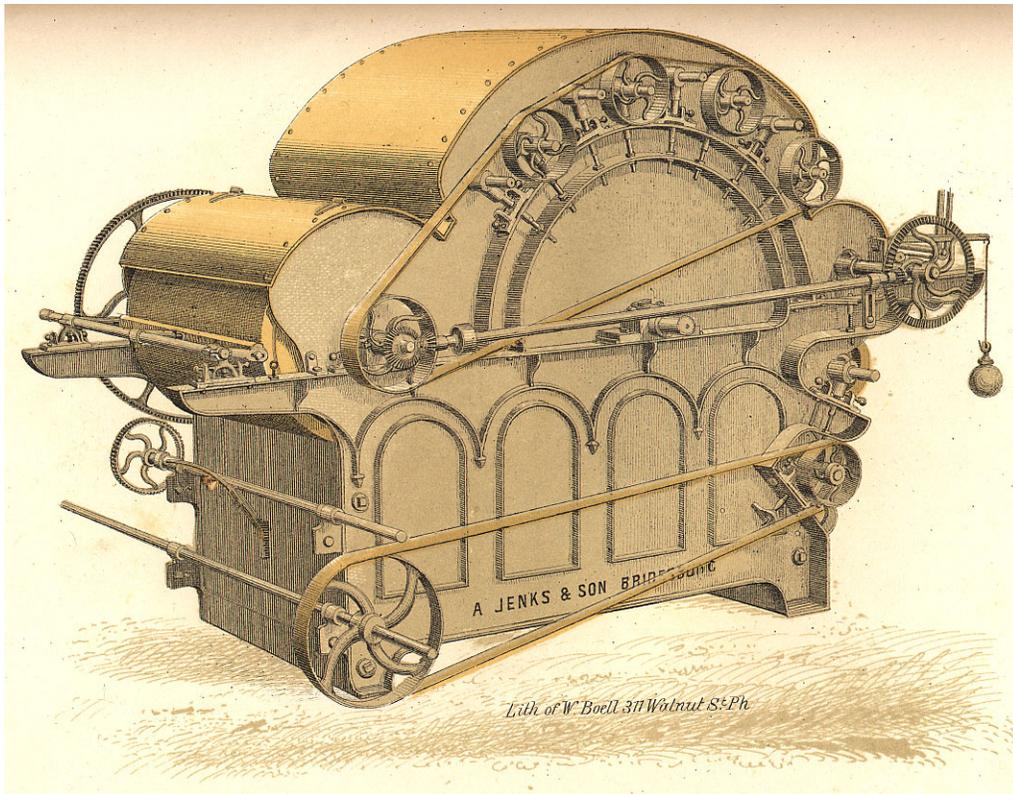
COTTON CLIPPER CARD.

Solid Iron frame or sides Arches Cased up with Iron; Main Cylinder 40 Inches in Diameter. Doffer 20 Inches in Diameter, in Segment Block 4 Workers 6 Inches in diameter 4 Strippers 3 ³/₄ inches in diameter 2 Lickerins each 10 Inches in diameter; one Patent Stripper 10 In in diameter; Driving from Counter Shaft with Variable speeds; The Lickerins being made all adjustable one to the other; Fluted feed Rollers, driven with a Diagonal shaft and level Wheels, Zinc Grating, and Dirt box under Cylinder; Driving Pulleys 16 Inches in Diameter. Main Cylinder should run 144 Revolution per minute occupies a space of 8 Feet 6 Inches long, by 5 Feet 3 inches Wide

30 in Wide \$

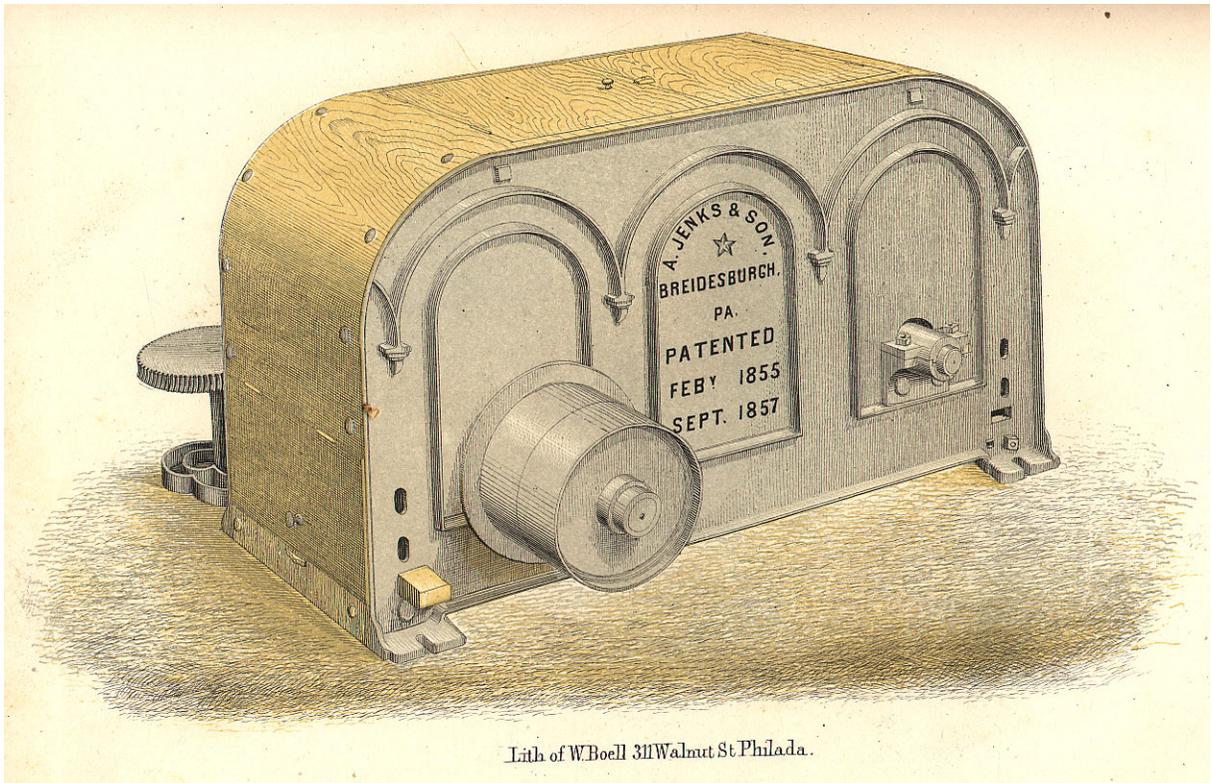
36 " " \$

40 " " \$



N^o 40
CONE HEAD

*Iron Frame, with cone speed to Drive Patent Stripper on Clipper Card variable
Speeds ; cased up . Driving pulleys 8 Inches in diameter , Should run 249 Revol.^{ts}
per minute ; occupies a space of 3 Feet 6 Inches long by 3 F^t - Inches
wide.*

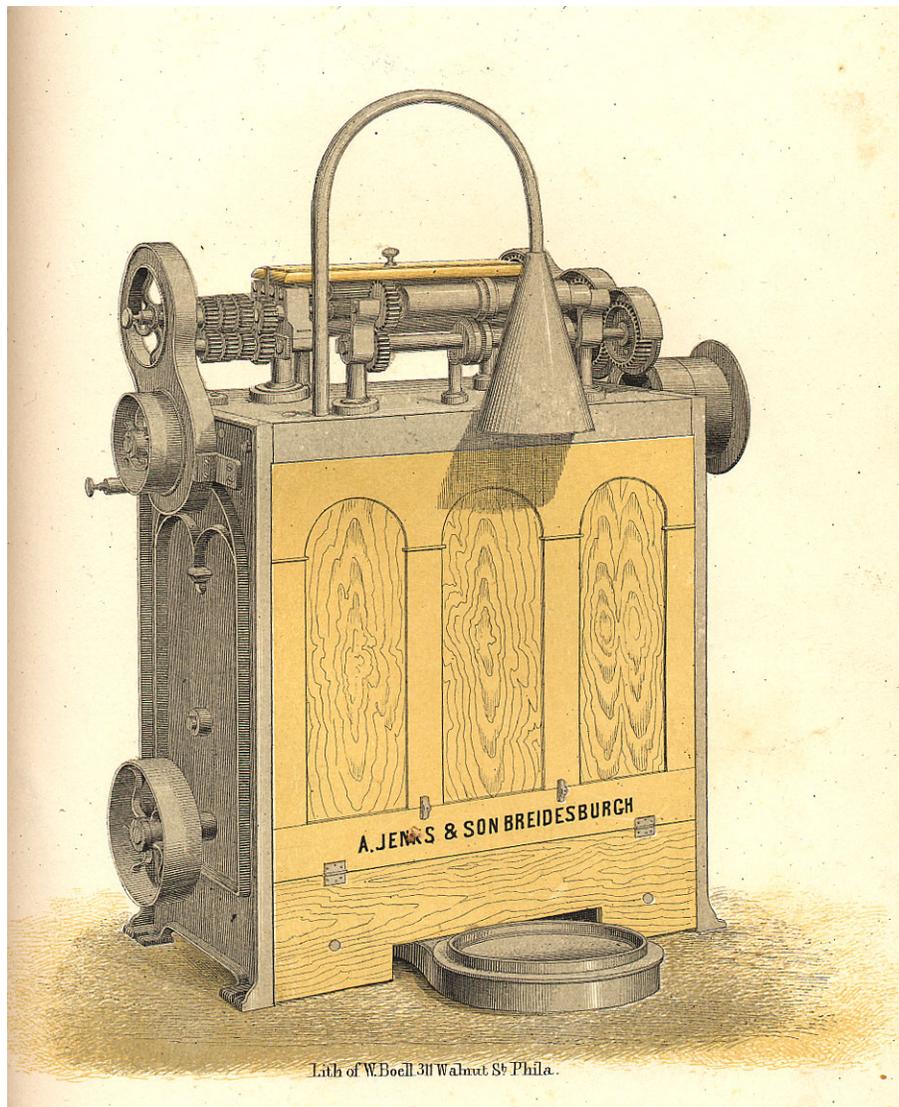


Lith of W.Boell 311Walnut St.Philada.

N^o 41.

CLIPPER RAILWAY DRAWING HEAD.

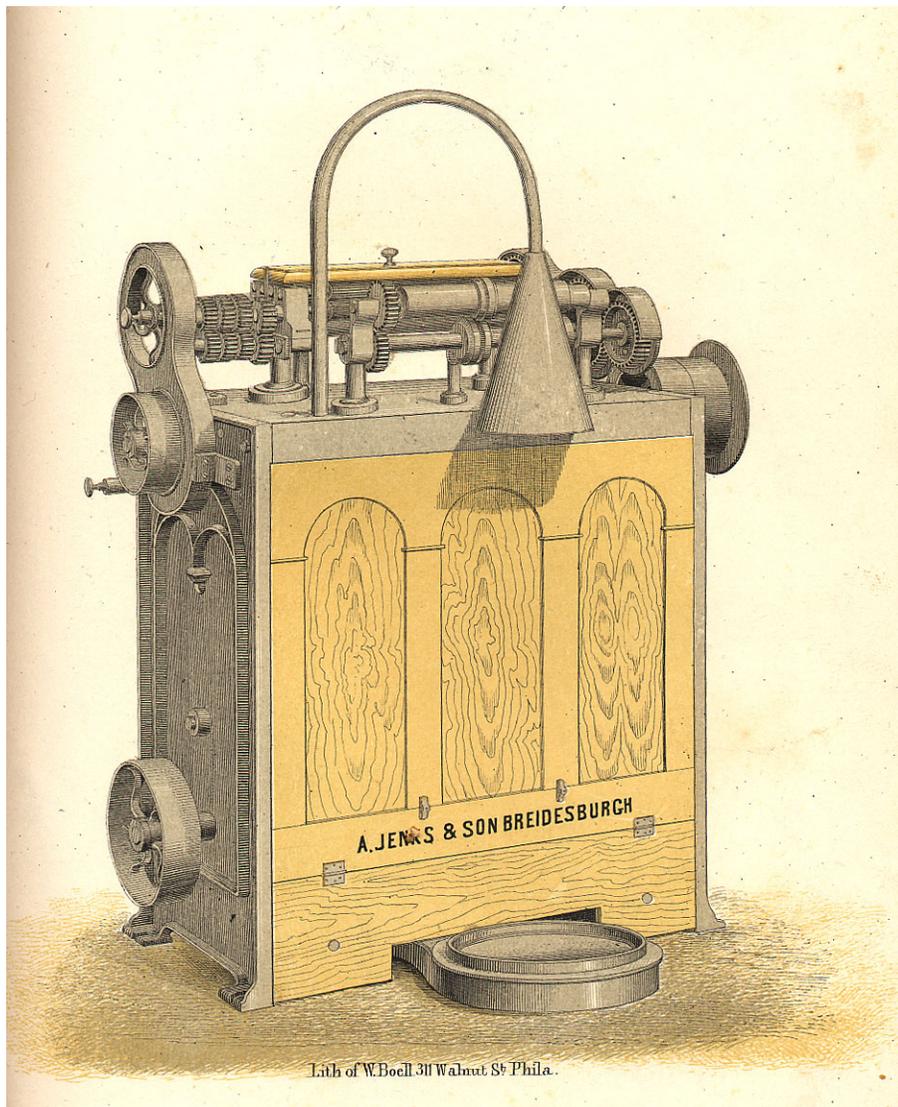
With one set of four steel rollers $1\frac{3}{16}$ inches in diameter, 12 inches long on the flutes with plunger, and revolving can, 12 inches in diameter and cased up to prevent draft or dust collecting in the wheels, occupies a space of 3 feet inches long by 3 ft 6 in wide driving Pulleys 8 inches in diameter and should run Revolution per minute



N^o 42

CLIPPER RAILWAY DRAWING HEAD.

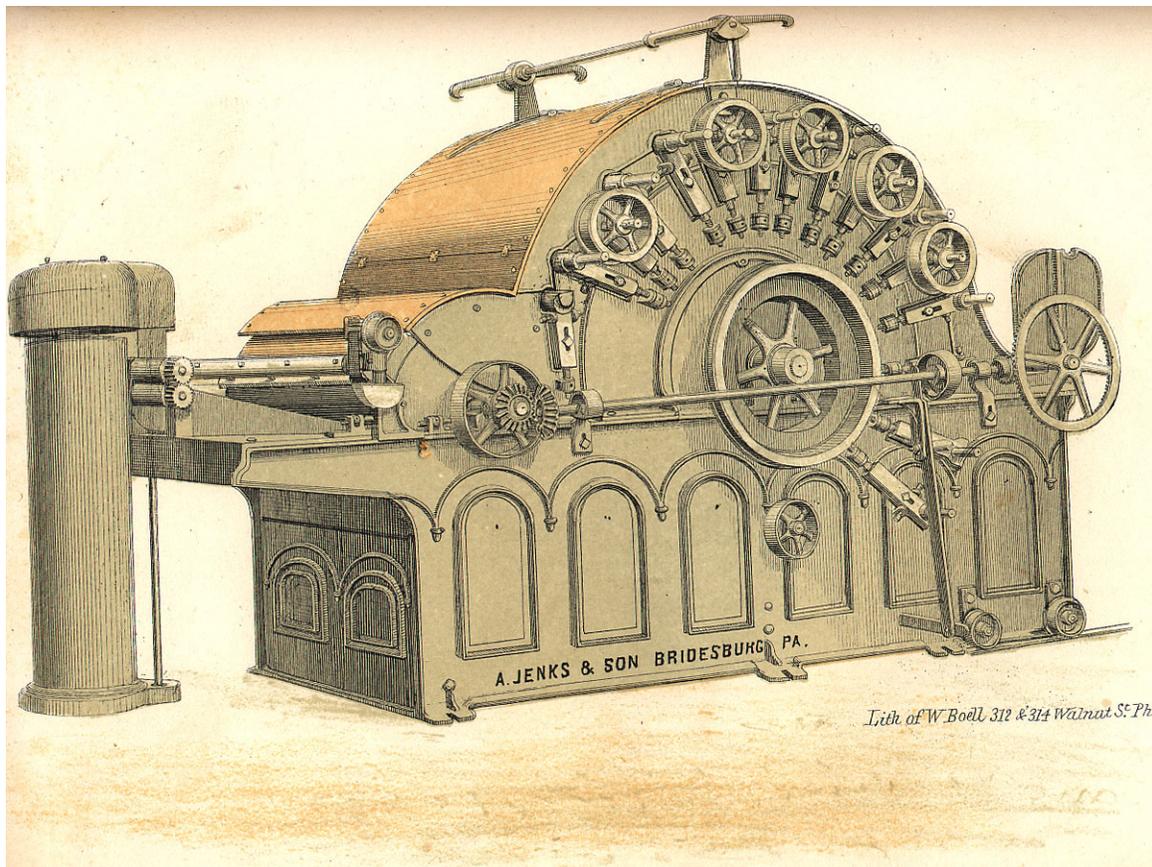
With 1 Set of 4 Steel Rollers 1⁷/₁₆ inches in diameter, 12 inches long on the flutes with one plunger and revolving can 12 inches in diameter, solid iron sides and Cased up to prevent draft or dust getting into the wheels, occupies a space of 3 Feet - Inches long by 3 Feet 6 in. Wide Driving pulley 6 Inches in Diameter, and should run 383¹/₂ Revolutions per minute with Evener motion.



N^o 43

THE KEYSTONE COTTON CARD

Has heavy Iron frame & Caseing; Main Cylinder 45 inches in diam; 7 workers 6 in, 5 Strippers 3 inches in diam; doffer 22 inches in dia; all covered with Jenks Patent Metalized wood; with First and Second Lickerin. and Patent stripper, and self stripping motion; has adjustable sliding poppet, and long sleeve bearing with protecting flange; doffer driven by a diagonal shaft, geared with heavy bevel gear from main cylinder shaft, and thrown in and out of gear by clutch motion; shell with steel fluted feed rollers 2 inches in diam; has coiler and can motion for a 10 inch can; and adjustable Iron greating under main cylinder; occupies a space of 6 Ft 2 in long by 10 Ft - inches Wide; Driving pulley 16 inches in diam. should run 160 Rev per minute.

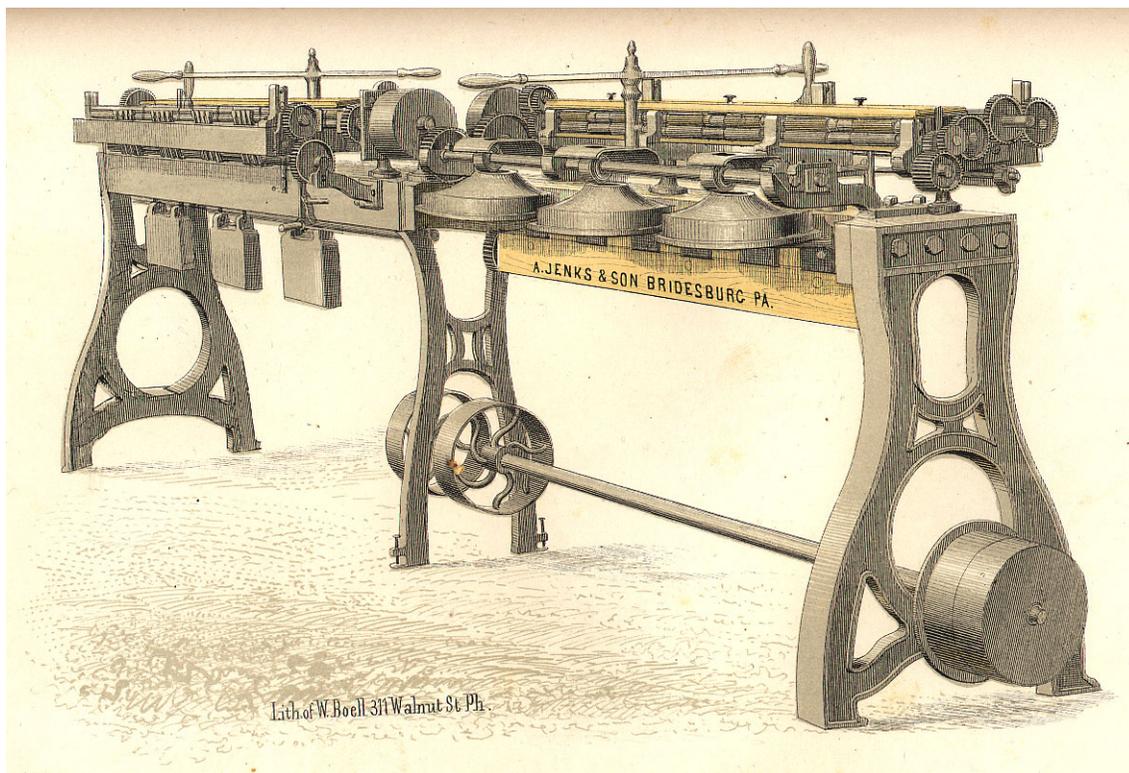


N^o 41

DRAWING FRAME.

With 2 Heads and 6 Coilers, to each Head, Iron Roller Beams 12 inches wide; 4 rows of Rollers, and 3 length of Rollers to each head all of cast steel 1 1/4 inches in diameter; Improved stop motion, & receiving Rollers; Improved coilers, for 10 inch Cans; upright and Bevel Wheels, to drive each coiler separate; stop motion, to set up from 2 to 6 Cans per Coiler, occupies a space of 14 Ft - in long & 2 Ft 10 in. wide, Driving Pulleys 12 inches in diameter, should run 270 Revolutions per minute.

Driving Frame	1 Head	2 Coilers	for 10 in	Cans	.....	\$
"	"	1 "	3 "	" 10 "	"	\$
"	"	1 "	4 "	" 10 "	"	\$

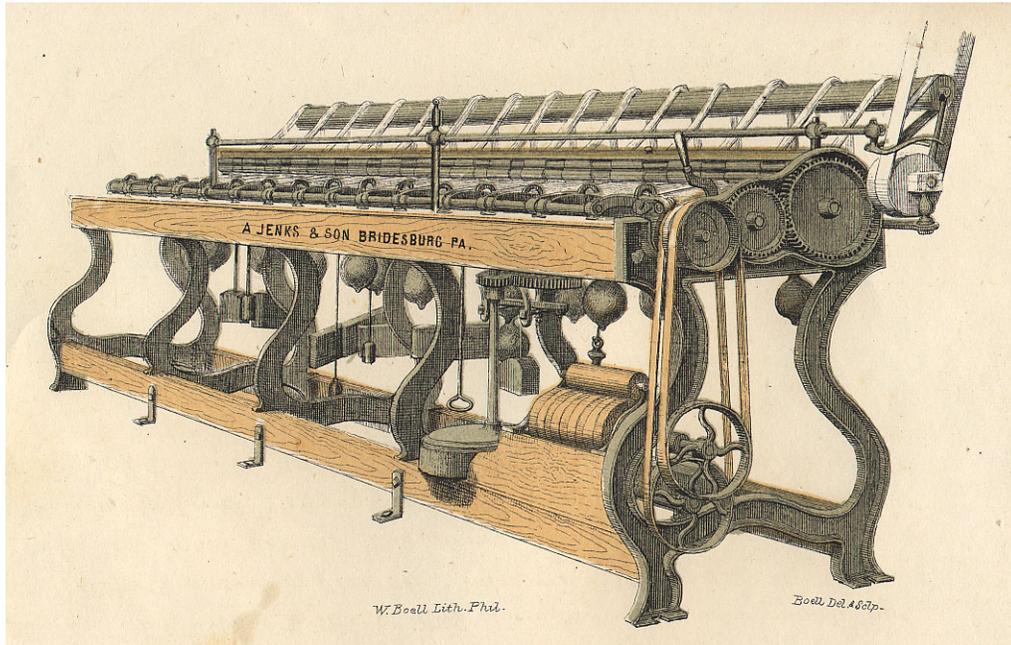


N^o 46.

COUNTER TWIST SPEEDER

With Iron ends, front Roller of Steel $1\frac{1}{4}$ inches in diameter, middle and back of Iron $1\frac{1}{2}$ inches in diameter, Improved List Twist motion to bring the Twist close to the Bobbins, Tin carrying Roller inches in diameter, & improved Bobbin holder, Driving Pullies 6 inches in diameter, occupies a space of 18 Ft^l long by 3 Ft^l 6 inches wide, and should run 525 Rev per minute

12 Bobbins 8 or 9 inches long	.....
16 do 8 " 9 " "	.....
20 do 8 " 9 " "	.....
24 do 8 " 9 " "	.....

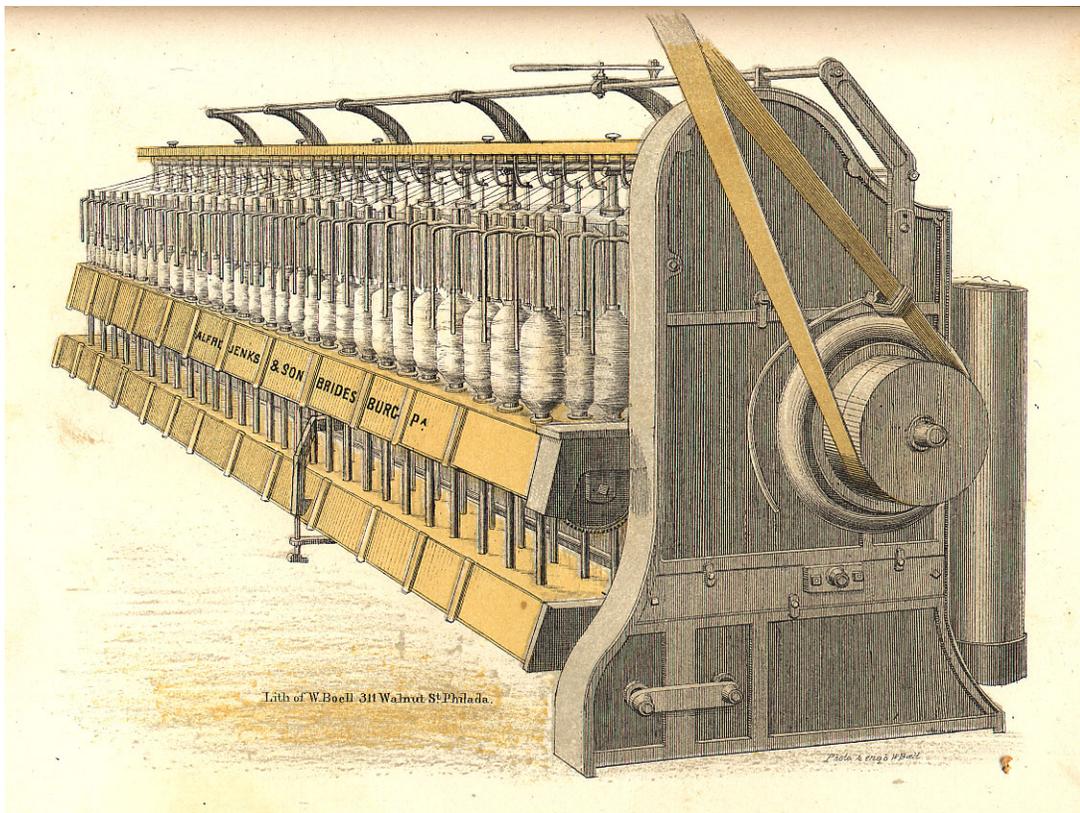


N^o 47

SLUBBING FRAME.

68 Spindles, Iron Roller Beam and Stands, with 3 rows of Steel fluted rollers; no creel but a tin roller, to conduct the roving from a can, with 9 Inch lift and centrifugal presser, which makes a Bobbin 9 x 4 inches in Diameter; will produce 800 lbs. of $\frac{3}{4}$ hank Slubbing per 10 hours. Driving pulleys 12x3 Inches, & should run 200 Rev. per minute, occupies a Space of Feet Inches in length, and Feet Inches in Width.

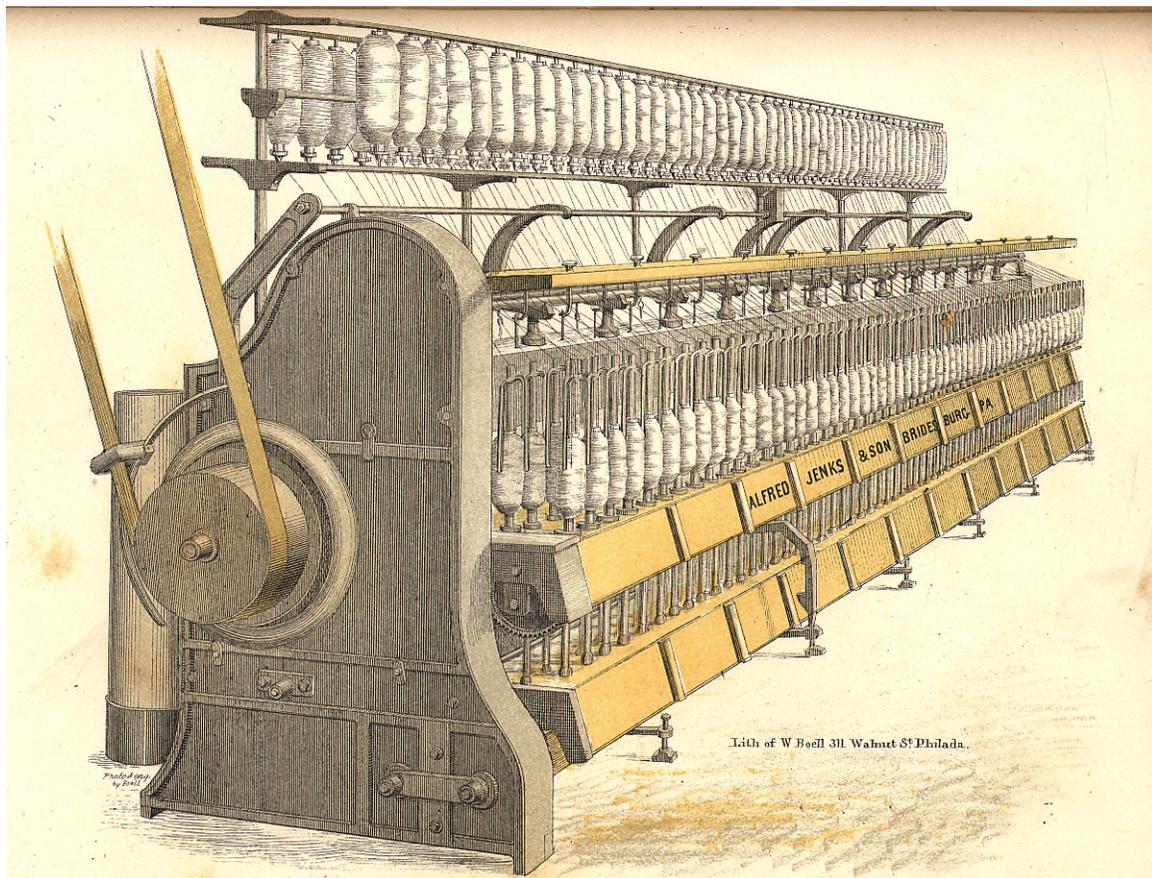
\$



N^o 48.

ROVING OR JACK FRAME.

Has 120 Spindle ; Iron Roller Beam and stand, with 3 rows of fluted Rollers ; 7 inches lift, and improved Centrifugal presser, making a Bobbin 7 × 3 in. in Diameter, with a Creel, to take in 9 inches slubbing Bobbins, will produce 350 lbs of 2½ hank roving per 10 hours, driving pulleys 12 × 3 inch should run 225 revolution per minute occupies a space of 17½ inches in length by 17½ inches in wide

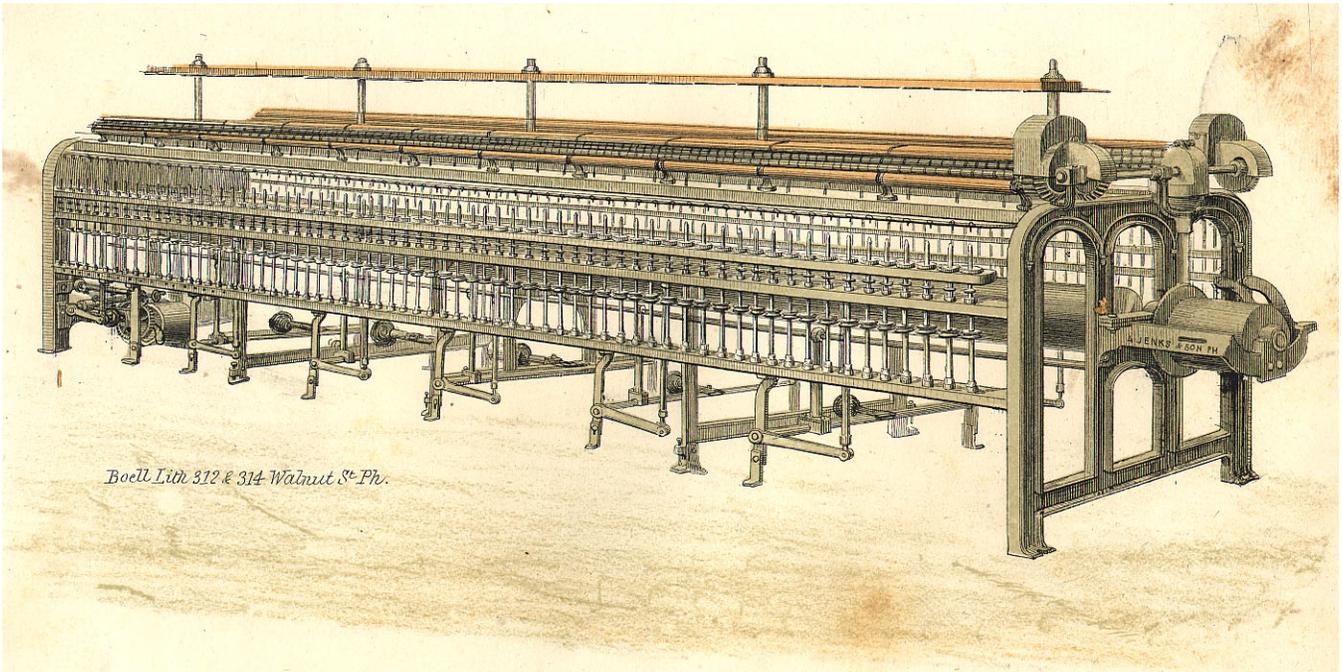


N° 49

RING SPINNING FRAME

With Iron Ends, Rail & Roller beam, Front Bottom roller 1 in diameter; middle and back roller $\frac{7}{8}$ inch diam, all coupled with square couplings; Waste or cleaning roller under front roller; Wood saddles with adjustable weights; long flat top cleaner; Jenk's Patent self-oiling bolster & step, snarl catcher, conical hart for coneing bobbins at each end; Gearing all at Driving pulley end of frame; occupies a space of 17^{ft} inches long by 5^{ft} inches wide; Driving pulley inches diam; should run Rev. per minute.

132	Spindles	2 $\frac{3}{4}$ in.	ap ^t	Rings	1 $\frac{3}{8}$
132	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
132	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
168	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
168	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
168	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
204	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
204	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$
204	"	2 $\frac{3}{4}$	" "	"	1 $\frac{3}{8}$



Boell Lith 312 & 314 Walnut St Ph.

N^o 50.

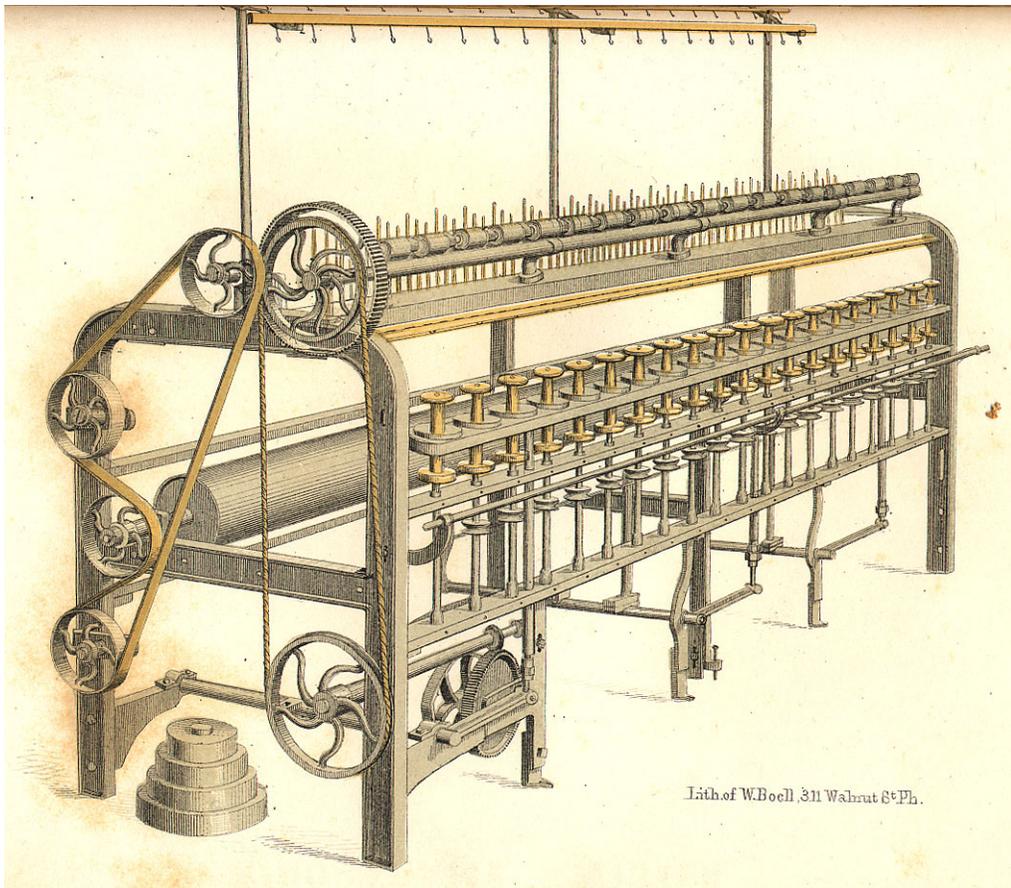
RING FRAME TWISTER.

With Iron Roller Beam and Stands, for 1 Row of Bottom Rollers of Iron $1\frac{1}{2}$ Inches in diameter put together with square couplings; one top Roller of Iron $1\frac{1}{2}$ Inches in diameter to each Spindle; Crock for Spinners Bobbins or Caps for Doubling from 2 to 6 Threads to each Spindle; Tin Cylinder 6 Inches in Diam. coupled with a coupling $1\frac{1}{2}$ Inches in diameter screwed together in the Middle Occupies a space of 12 Feet 2 Inches long by 2 Feet 6 In. wide, Driving pulley 8 Inches in diameter, and should run 425 Rev. per minute

24 Spindles 5 in. ap.^t Rings $3\frac{1}{2}$ in diam. inside, for Bob. 3 in head 5 in Traverse.

48	"	5	"	"	$3\frac{1}{2}$	"	"	"	3	"	5	"	"	"	\$
96	"	5	"	"	$3\frac{1}{2}$	"	"	"	3	"	5	"	"	"	\$
128	"	"	"	"	$2\frac{1}{2}$	"	"	"	$2\frac{1}{4}$	"	5	"	"	"	\$

\$



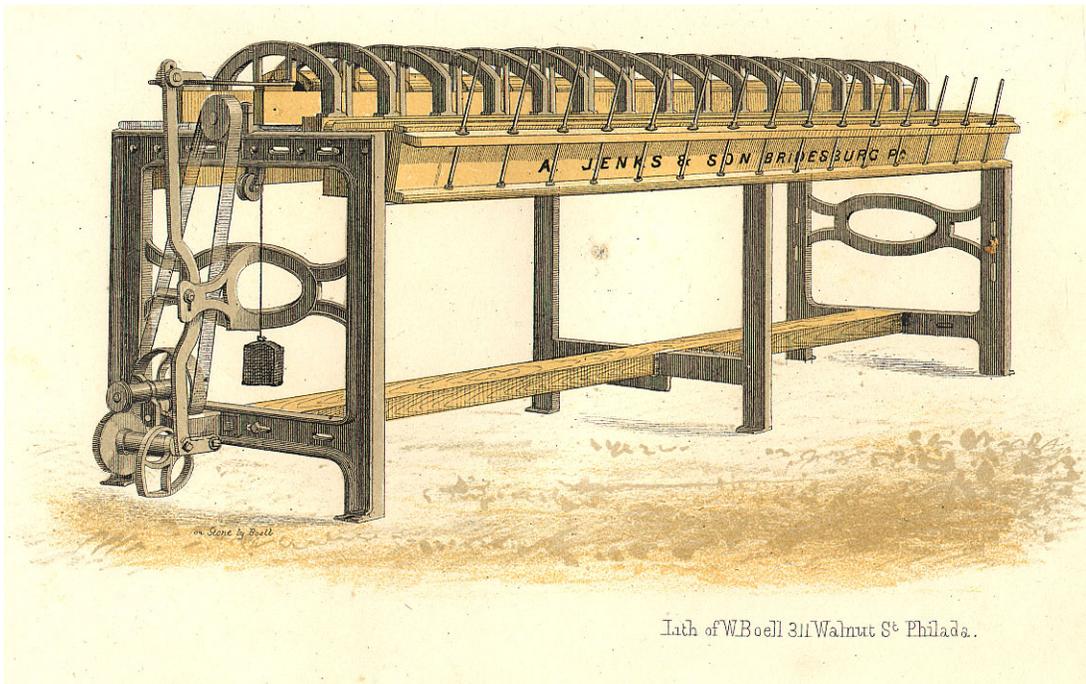
Lith. of W. Boell, 311 Walnut St. Ph.

N^o 51

SPOOLING MACHINE.

With *Iron Pulleys or Blocks 9 inches in diameter; Improved Thread Guide and arches;*
for spools 8 inches long, 4 inches Head; wood Swifts or Spindles for Throstle bobbins,
with *bobbin Box attached and Improved Heart motion having a 6 inch Traverse, occupies a*
space of 12 feet 6 inches long by 4 Feet - 10. Wide Driving pulleys 12 in diameter and
should run 500 per minute

12 Blocks 24 spools	\$
15 do 30 do	\$
24 do 48 do	\$
30 do 60 do	\$
Swifts. Each	\$
Runners	\$



N^o 52

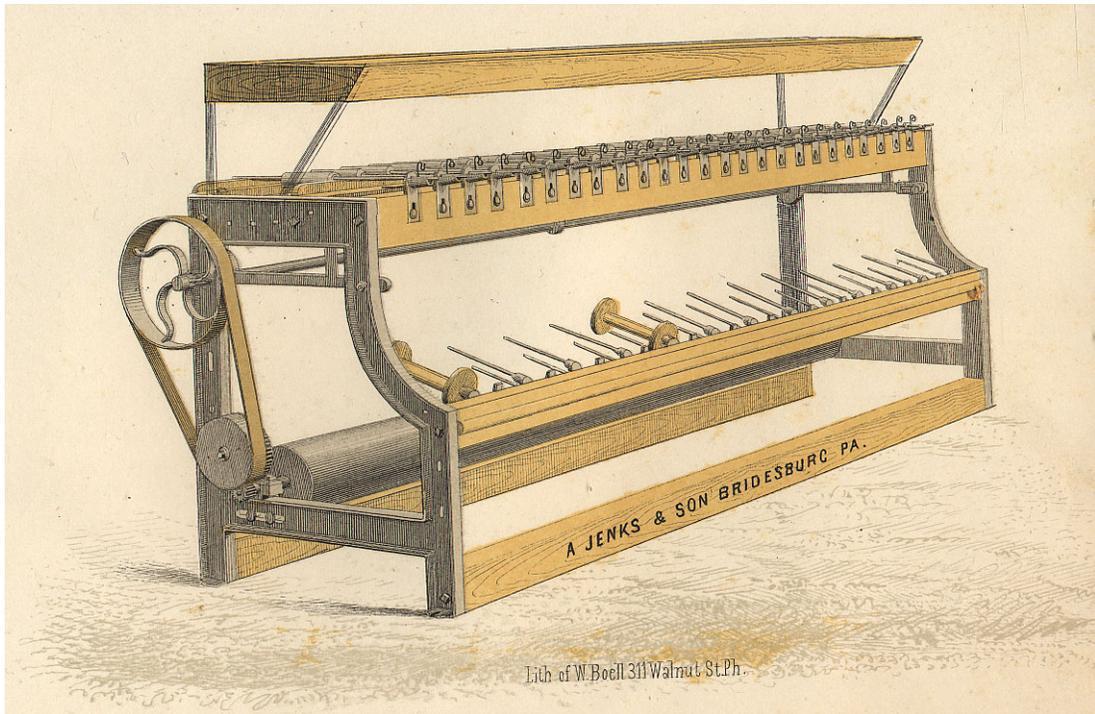
BOBBIN WINDER

With horizontal spindles driven with a tin Cylinder for Spooler bobbins Driving Pulleys 9 In. diameter and should run 200 Revolution per minute. Occupies a Space of 4 Feet 6 in long by 2 Feet 6 in wide

25 Spindles

30 Spindles

25 Spindles with Eccentric gearing for winding from swifts 18 in diameter



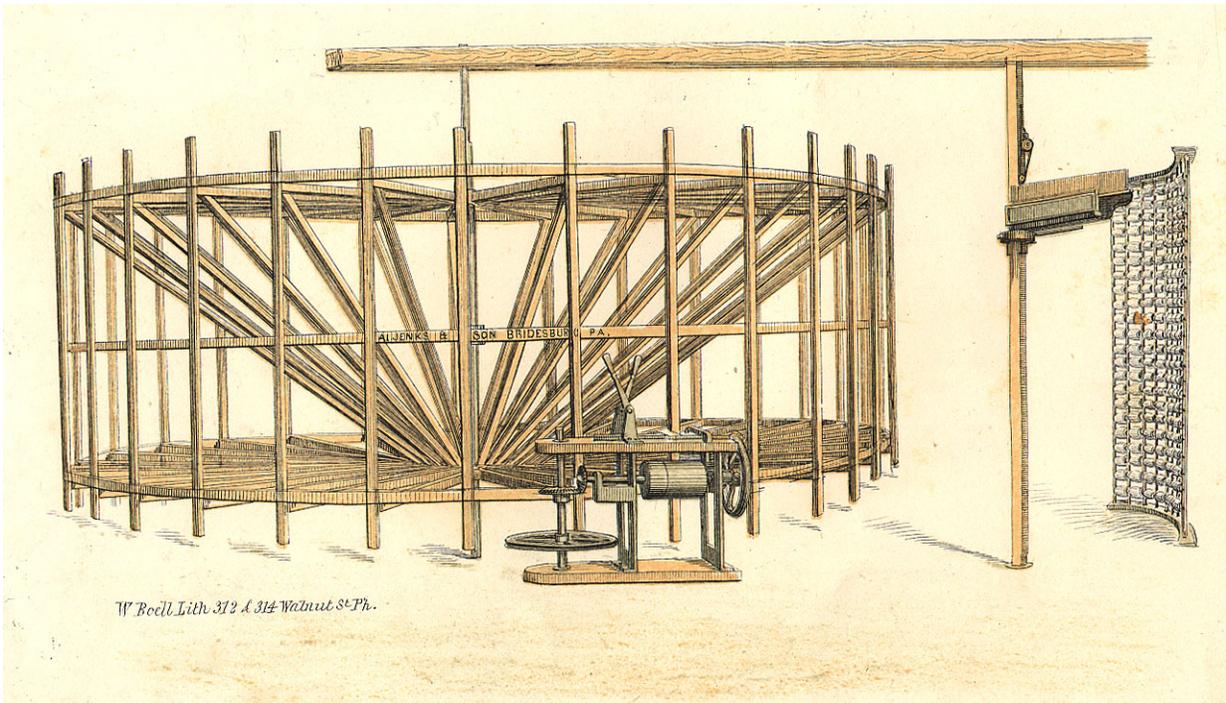
N^o 53

WARPING MILL

Twenty yards in circumference, formed by 30 upright staves well braced and cross stayed inside; Heck with with 160 Eyes and creel with 10 rows of spools, and 16 spools high; Iron shaft and Wood Jack post; and is worked by stem Power or by hand; occupies a space of 8^t inches long; by 8^t inches wide; has driving pulleys 7 in. & 3 in Face; and should run 100 Rev. per minute

This machines is to make warps

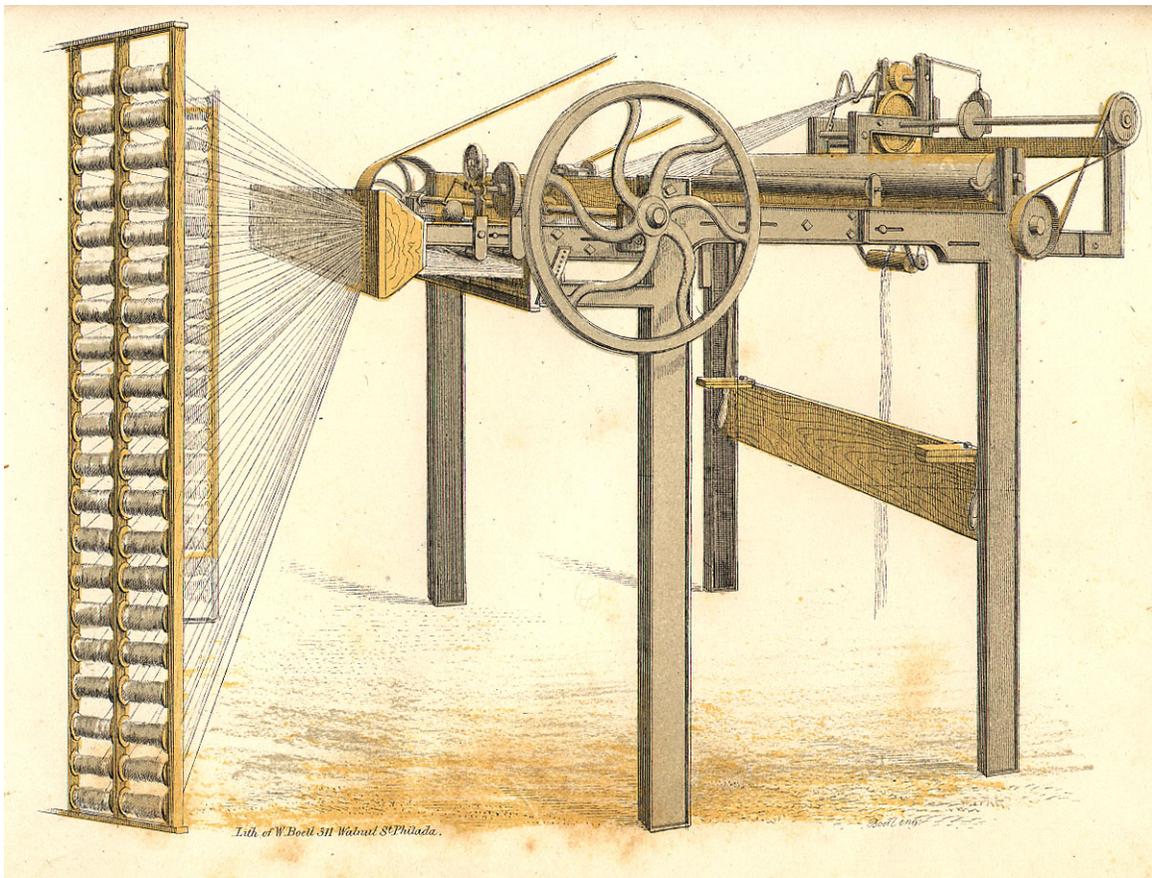
15 Yards circumference	.....	\$
20 " " "	.....	\$



N^o 54

WARPING MACHINE.

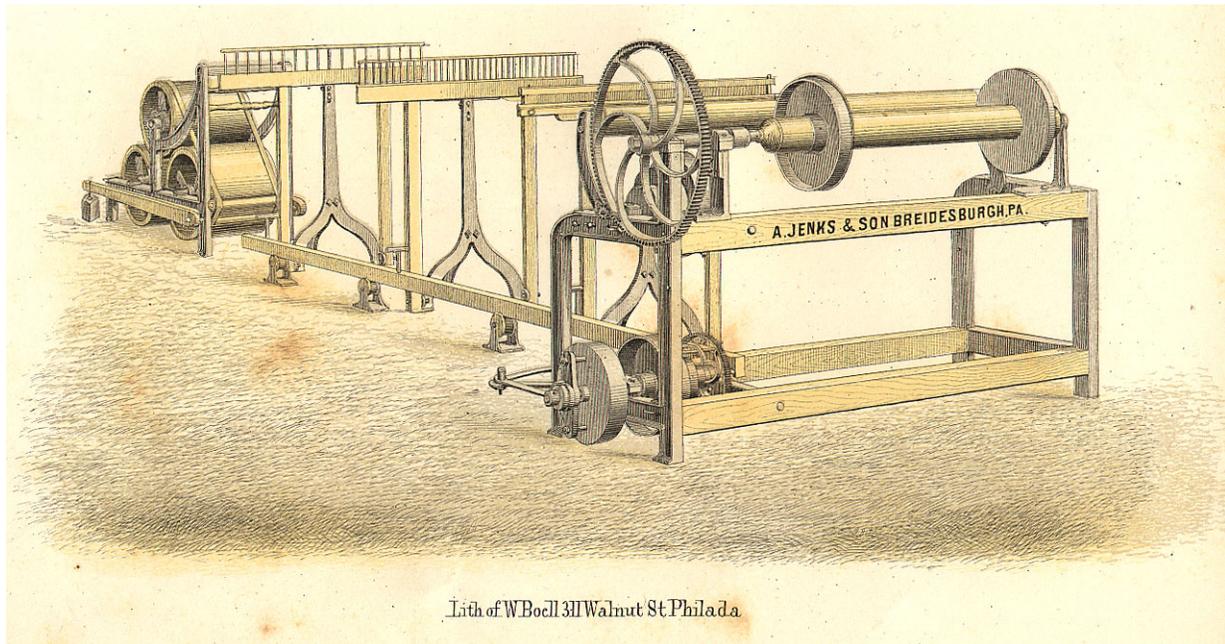
This Machine is so constructed that it makes the Warp at once of any required length, and any giving number of ends, from one to two thousand, thus giving it a claim of superiority over any other now in use. This Machine is made with a self adjustable Linker, and marker, with stop motion, which stops the Machine when an end breaks, and will run 6000 Yards of 1800 ends, N^o 20 Hank Yarn per 10 hours, Driving pulley 12½ in and should run 1 Revolution per minute occupies a space of 17 inches in length & 17 inches in Width.



BEAMING MACHINE

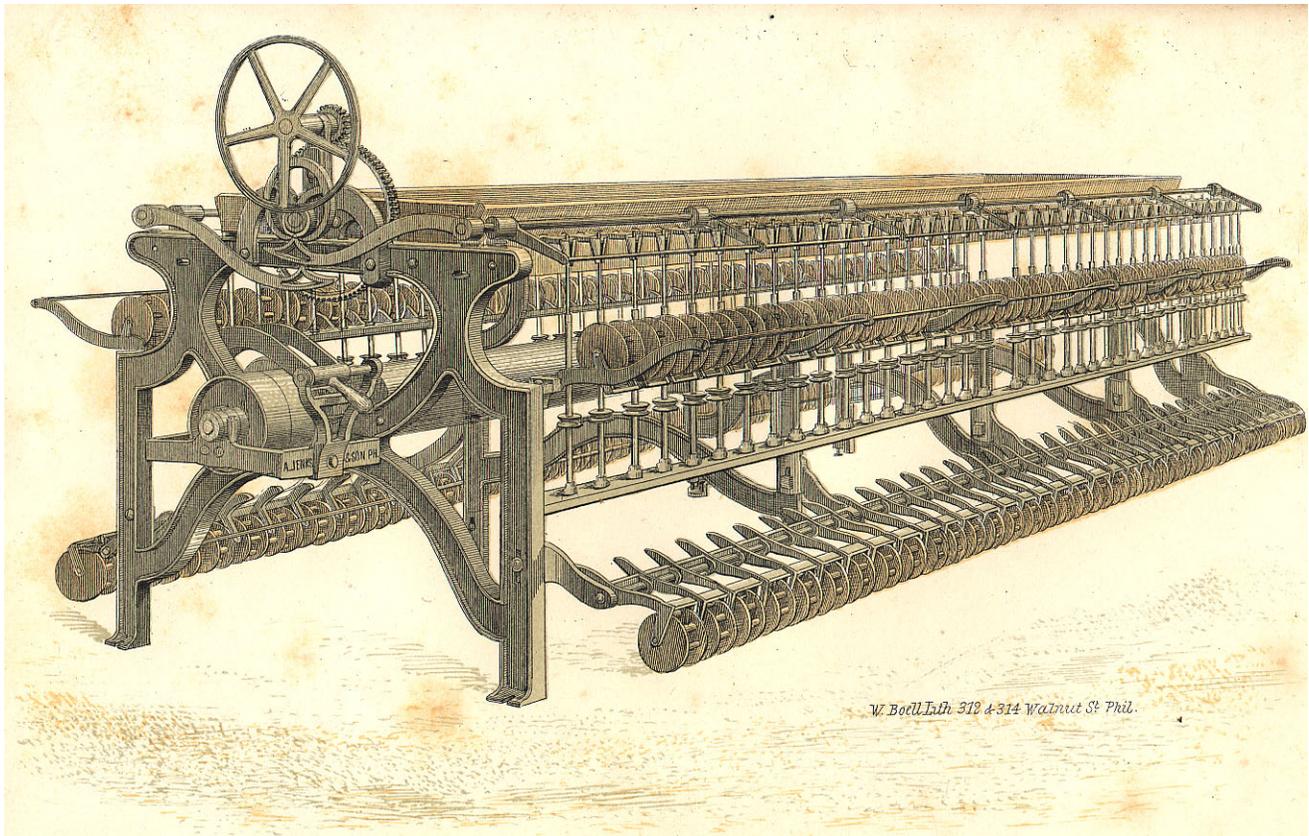
with 3 Friction drums 20 Inches diameter with weight Levers. Two weighted Lease Racks one of 16 pins and the other of 32 pins, Wraith with 168 dents on 40 inches Driving pulleys 12 in diameter. & should run 200 Rev per minute, occupies a space of 20 Feet - In. long by 7 feet 3 In. wide.

40
 48
 60



N^o 56.
COP WINDER .

*For Winding from the skem to the shuttle bobbin,
Spindles and Bobbin vertical; Runners for the skem, Driving
pulleys 8 inches in diameter and should run 260 revolu-
tion per minute.*

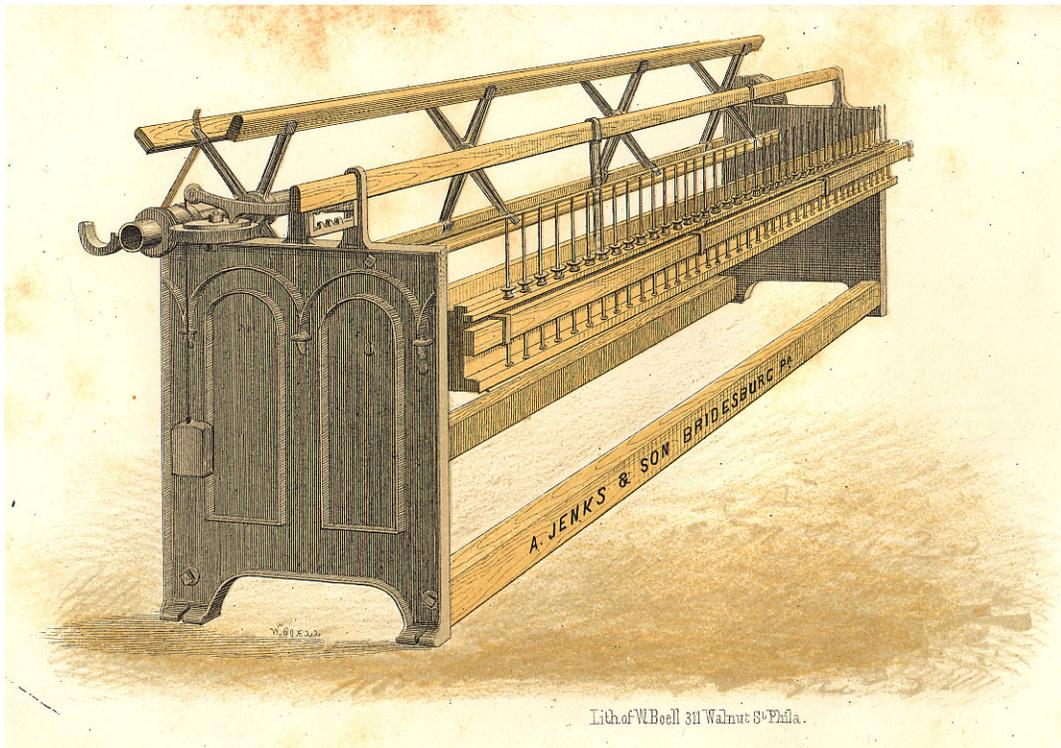


N^o 57

REEL FOR TWISTER OR THROSTLE SPOOLS.

Jenks Patent for removing the skems from the Reel without lifting the shaft.

Has open or Solid Iron ends Reel 54 inches in circumference with Gas pipe shaft 2 1/4 Inches in diameter, and Iron arms; with Bobbin box, and 40 live spindles 4 inches apart, for spools with heads, 3 inches in diameter has Regulator and Bell, occupies a space of 16 Ft - Inches long, and 3 Ft - Inches wide; Driving pulley Inches in diameter. 12 should run 120 Revolution per minute



N^o 58
HOSIERY WINDER

This Machine is used for winding a Cone shaped Bobbin for Hosiery Knitters has 100 Spindles, 50 on each side 4 inches apart; Bobbin 8 inches by 3½ inches in diameter, Driving pulleys 7½ inches in Diameter; occupies a space of 19 Ft. - long by 6 Feet 2 inches wide, and should run 2000 Revolution per minute.

