

1893.

✻ MARSTON'S ✻

PATENT

HAND AND FOOT POWER

... Machinery ...

MANUFACTURED BY

J. M. MARSTON & CO.,

226, 228 & 230 RUGGLES ST.,

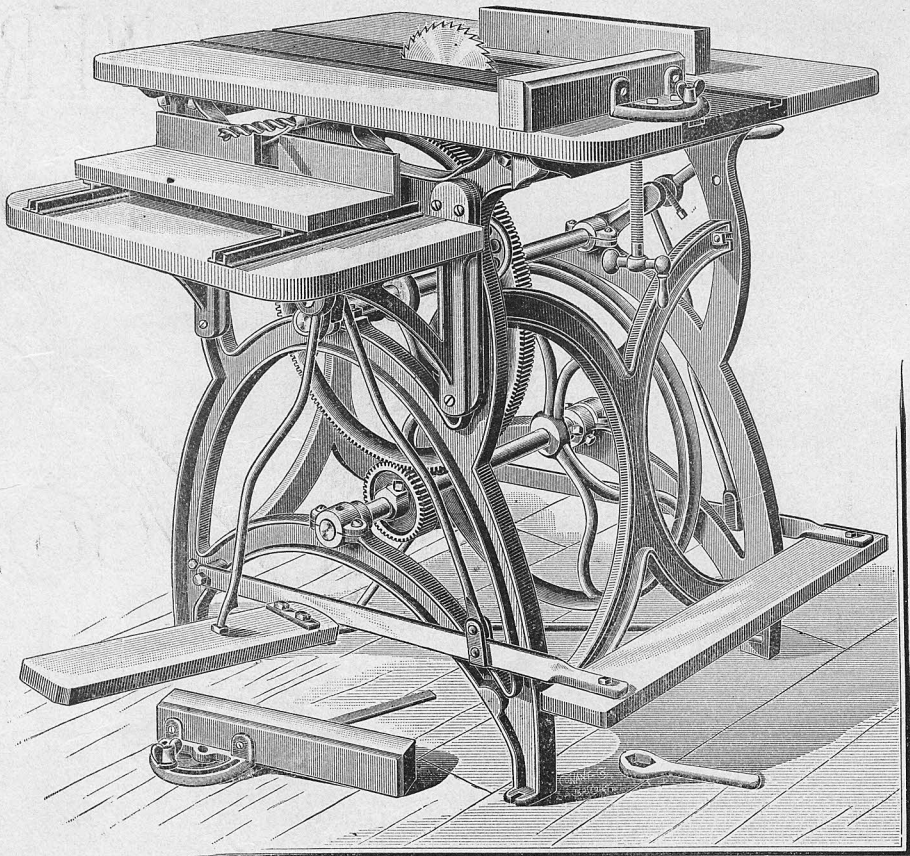
BOSTON, MASS., U. S. A.

No. 1.
Hand and Foot Power Circular Saw,
WITH ATTACHMENT FOR BORING.

These machines are now made with our improved iron top, and with boring attachment and patent groovers are the most desirable of any on the market, and are indispensable to wood-workers.

They are made in two numbers, the only difference being in the weight of the balance wheels; No. 1 has a 40 lb. balance wheel; No. 2 has a 70 lb. balance wheel. The same boring attachment goes on to either machine. The cut below represents the machine with boring attachment and side treadle in place.

The machines are put up with two 7-inch saws, one cross-cut and one rip, set and filed ready for use; two cutting-off gauges, one ripping gauge, two crank handles and wrench. They are sent out all ready to run when taken out of the crate.

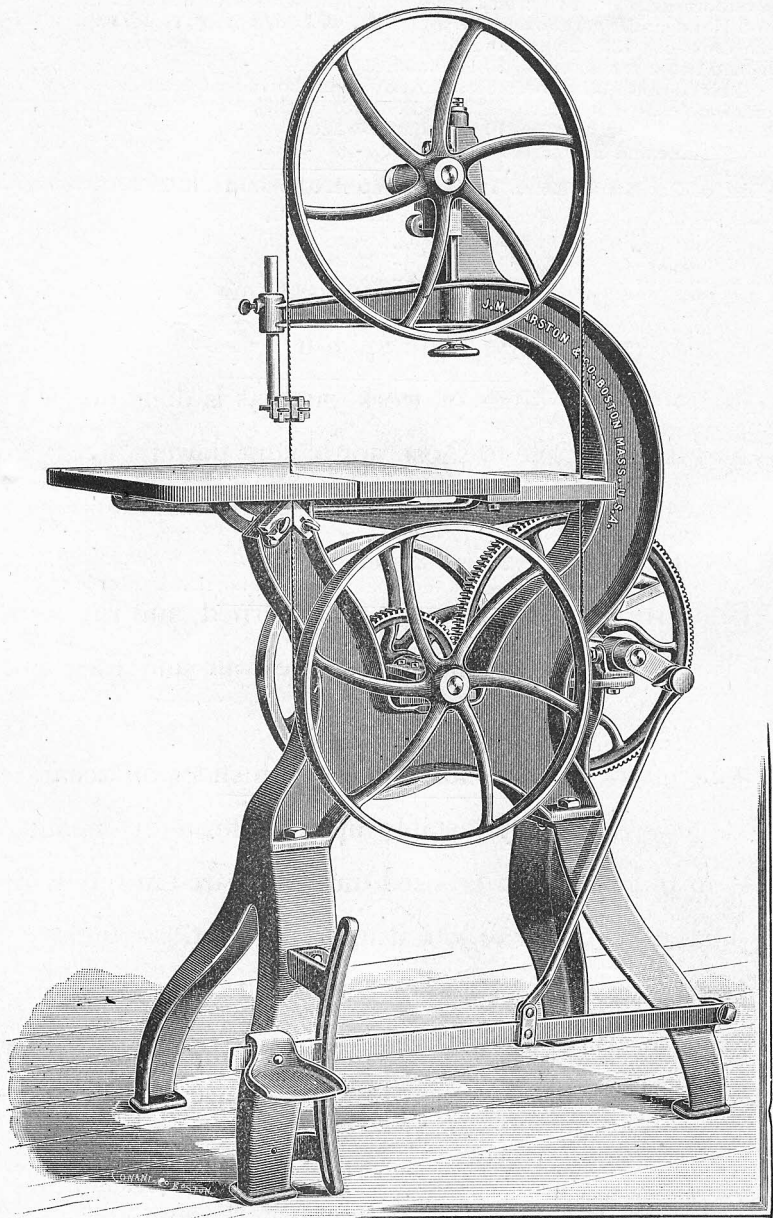


The frames of these machines are made entirely of iron, and are of sufficient weight and strength to make fastening to the floor unnecessary. In construction we use nothing but the very best iron and steel, and all parts are designed with reference to the work they are to perform. The treadles are made of wrought iron, and the cranks have extension handles that can be adjusted to different length of stroke. Our *Improved Adjustable Top* with iron centre 10 inches wide, running the whole length of the table, is a great improvement, and enables us to run the gauges with great accuracy. Send for descriptive catalogue.

Price, No. 1, \$60.00, with Borer, \$67.00 ; Weight, 330 lbs., with Borer, 367 lbs.

Price, No. 2, \$65.00, with Borer, \$72.00 ; Weight, 362 lbs., with Borer, 405 lbs.

MARSTON'S 20-inch Hand and Foot Power Band Saw.



Price, \$65.00; F. O. B. Boston.

This includes two saw blades, 3-16 and 5-16 set and filed, one crank handle, and one wrench; net weight of machine, 350 lbs.

Price of Band Saw Blades Fitted for our Machine, Set and Filed.

3-16, 1-4, 5-16, 3-8 inch, each	\$1.50	Brazing Clamps,	\$1.00
1-2 inch,	1.75	Brazing Tongs,50
3-4 "	2.00		

Machine occupies floor space of 27x44 inches. Net weight, 350 pounds. Height to top of saw pulley, five feet eight inches.

Price, \$65; F. O. B., Boston.

The cut on opposite page illustrates our latest improved 20-inch Foot Power Band Saw.

Entirely new design, sufficiently strong and rigid to withstand all demands that may be made upon it.

Adapted to all kinds of work, such as is done on a Power Band Saw, and is invaluable to those not having power.

Frame is cast in one piece, and carries all the working parts. Legs are securely bolted to same.

Bearings are all of steel, lathe-turned, and run in iron boxes, lined with best Babbitt metal, and are four and four and one-half inches long.

The upper bearing for band, which slides on accurately planed gibbed ways, and is adjustable up and down by means of a hand wheel, so that saws can be used until they are entirely worn out, and it also has adjustment to line it up with lower saw pulley.

Gears are all automatic, machine-cut, from solid iron.

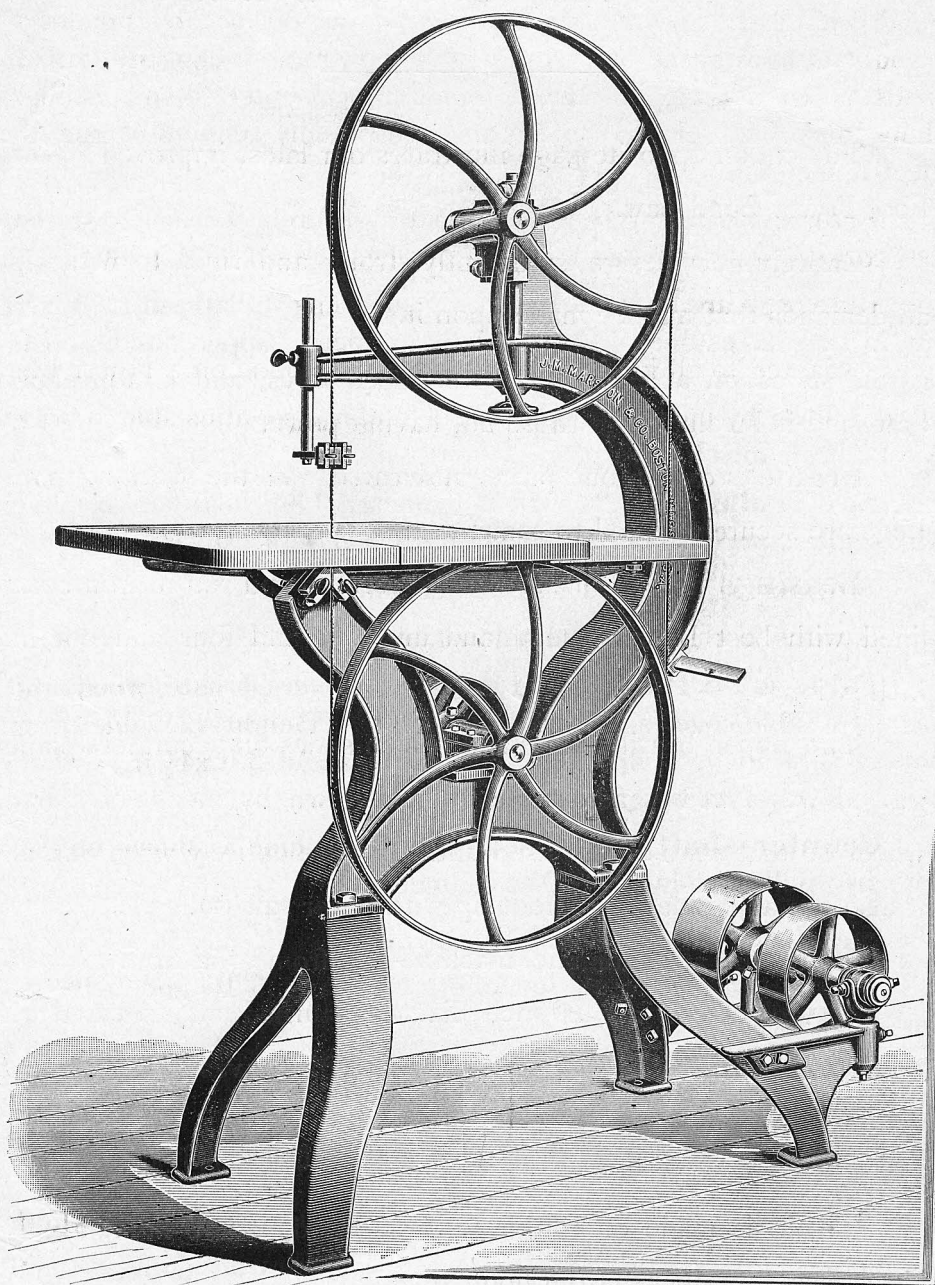
Saw Pulleys are 20-inch diameter, turned, and covered with endless pure rubber bands, strengthened with canvas, and will cut to centre of a 40-inch circle.

Guides, both above and below table.

Table is made of kiln-dried hard wood, 22x22 inches, and is three feet four inches from floor.

Table is secured to iron cleat or segment underneath, and is arranged to tilt for cutting on a bevel.

24-in. Power Band Saw.



Price, \$65.00; F. O. B., Boston.

The cut on opposite page illustrates our 24-inch Power Band Saw with counter-shaft attached. It is of same general design as our 20-inch Foot Power Band saw, only being larger and heavier.

It has been made with special reference to the demand for a good, well-made, accurate machine that would not occupy too large amount of floor space but would have power and capacity for all kinds of band-sawing, such as found in carpenter shops, cabinet shops, and small job shops, etc., and is especially adapted to run by electric motor.

Frame is cast in one piece, legs are securely bolted to same, and counter-shaft is made a part of the legs at back of machine.

Bearings are of steel, large and good length, lathe-turned and run in iron boxes lined with best Babbitt metal, upper band wheel, bearing slides on accurately-planed gibbed ways, and is adjustable up and down by means of hand wheel, and is also adjustable to bring band wheels into line.

Saw Pulleys are 24-inch in diameter, 13-8 inch face, covered with endless pure rubber bands strengthened with canvas.

Shipper is furnished on each machine.

Guides both above and below table.

Table is 24x24 inches and made of kiln-dried hard wood, and has extra table covering, lower saw pulley. Height of table from floor, 3 ft. 4 inches; floor space occupied, about 2 ft.x4½ ft.; whole height, 6 ft. Net weight, 340 lbs.

Counter-shaft is furnished on each machine as shown on cut, with two pulleys 9-in. and 10-in. diameter.

Speed of counter-shaft 300.

Price, F. O. B. Boston, including two saws, 3-16 and 5-16, set and filed, \$65.00.

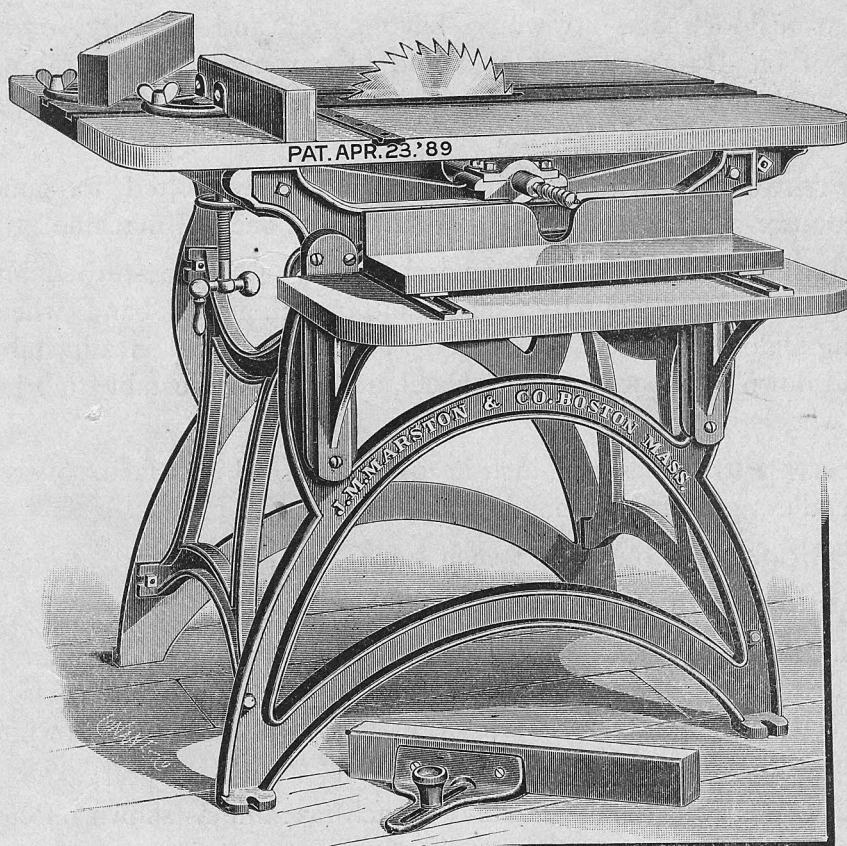
PRICE OF BAND SAW BLADES FITTED FOR OUR MACHINE, SET AND FILED.

3-16, 1-4, 5-16, 3-8 inch, each . . .	\$1.50	Brazing Clamps	\$1.00
1-2 inch	1.75	Brazing Tongs	.50
3-4 "	2.00		

Price of Indian Tanned Belt, to connect counter-shaft with saw pulley, 2.00

Price of Indian Tanned Belt, 2¼ inch, per running foot26

MARSTON POWER CIRCULAR SAW AND COUNTER SHAFT.



MADE STRONG AND SUBSTANTIAL.

Arbor 1 in. diameter, made of open-hearth steel, with pulley $2\frac{3}{4}$ in. diameter.

Boxes lined with best Babbett metal and securely bolted.

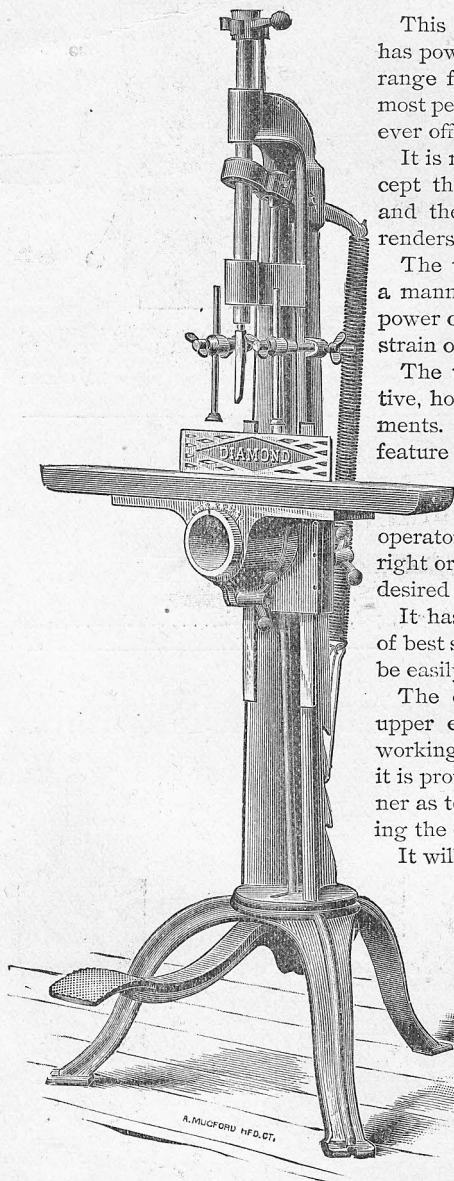
Top 2 ft. 8 in. high, and measures 28 x 38, with iron centre part for gauges to slide in.

Net Weight about 250 lbs., without counter shaft.

Price of Machine without Boring Table, Saws, or Counter Shaft,	\$40.00
“ Boring Table,	5.00
“ Counter Shaft,	15.00
“ 12 in. Saws, set and filed, each	3.75
“ 3 in. Indian-Tanned Belting, per foot,	.36

"DIAMOND" MORTISING MACHINE

PATENTED—FOR FOOT POWER.



This Machine is strong and substantial, has powerful motion, accurate action, large range for work, and in all respects is the most perfect Foot Power Mortising Machine ever offered.

It is made entirely of iron and steel, except the hardwood strip on top of table, and the novel construction of the frame renders it extremely strong and solid.

The treadle motion is arranged in such a manner as to obtain great leverage and power on the chisel spindle, without special strain on the working parts.

The table has easy, accurate and positive, horizontal, vertical and angle adjustments. The angle adjustment is a valuable feature that will be appreciated by all mechanics. It is provided with a graduated scale by which the operator may tilt the table either to the right or left to mortise or cut work on any desired angle.

It has a heavy coiled wire spring made of best spring steel, oil tempered, which can be easily adjusted for any desired tension.

The chisel reverser is attached to the upper end of the chisel spindle. The working points are milled to a gauge, and it is provided with a stop, in such a manner as to secure perfect accuracy in reversing the chisel.

It will mortise $\frac{1}{4}$ to 1 inch wide, 3 inches deep, and with the addition of the Diamond Tenoning Tool, cut tenons $\frac{1}{8}$ to 1 inch thick, 3 inches deep.

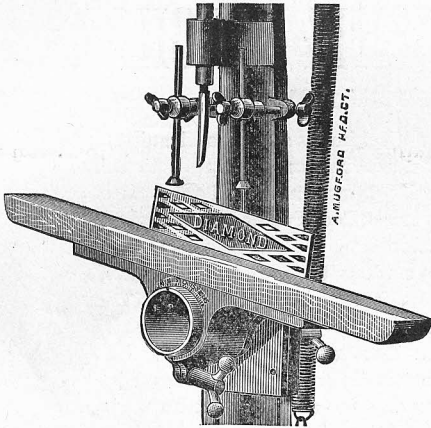
Each machine is provided with three Mortising Chisels, one each $\frac{3}{8}$, $\frac{1}{2}$, and $\frac{5}{8}$ inch. Other sizes may be substituted if desired.

Weight 145 lbs. Boxed 200 lbs.

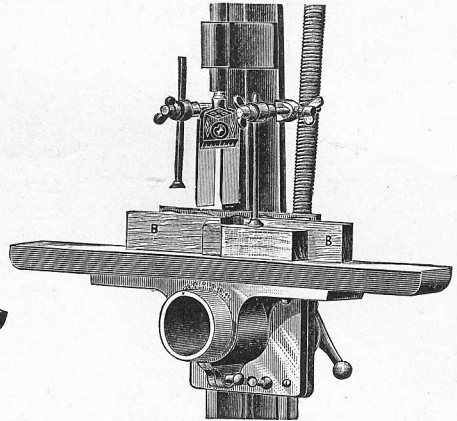
PRICE.

Diamond Mortising Machine, with three Chisels, boxed for shipment... \$25.00

(OVER.)

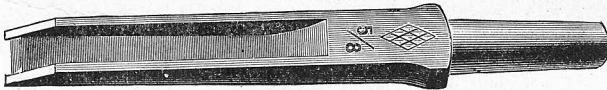


This cut shows the Table Tilted for cutting work on an angle. It can be tilted either way, to right or left, and to any angle desired.



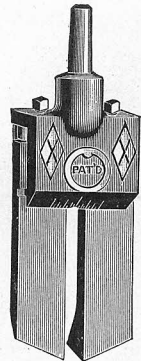
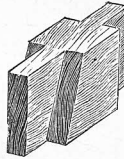
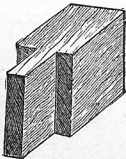
This cut shows the Tenoning Tool in position and Table arranged for work. The pieces B. B. are $\frac{3}{8}$ strips, secured to back of table, leaving a small opening in the center for the passage of the Tool.

DIAMOND MORTISING CHISELS.



Price, 1-4, 5-16, 3-8, 7-16, 1-2, 9-16, 5-8, 3-4, 7-8, 1 inch, each,\$1.00

No. 2 Diamond Tenoning Tool, Patented.



THIS Tool will be found a valuable attachment to the Diamond Mortising Machine in making Sash, Doors, Screen Frames and for all light Tenoning. It is provided with adjustable knives, which can be easily and quickly adjusted to cut Tenons from $\frac{1}{8}$ to 1 inch thick; 3 inches wide from one side, or 6 inches wide, by reversing the work.

The Knives are constructed with *side lips*, and also have a *draw* or *shear cut* on both *front* and *side* edges, which leaves the *shoulders* and *sides* of the Tenon *true* and *smooth*.

Price—No. 2 Diamond Tenoning Tool.....\$5.00.

J. M. MARSTON & CO.,

226 Ruggles St.,

BOSTON, MASS.