

R. M. Shafer,

Hoop Racking Machine.

No. 110,295.

Patented Dec. 20, 1870.

Fig. 1.

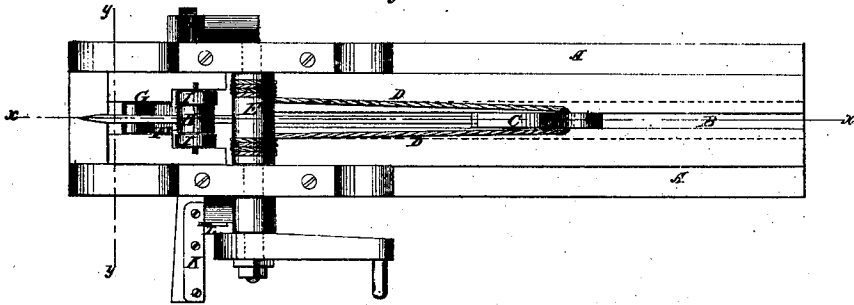


Fig. 2.

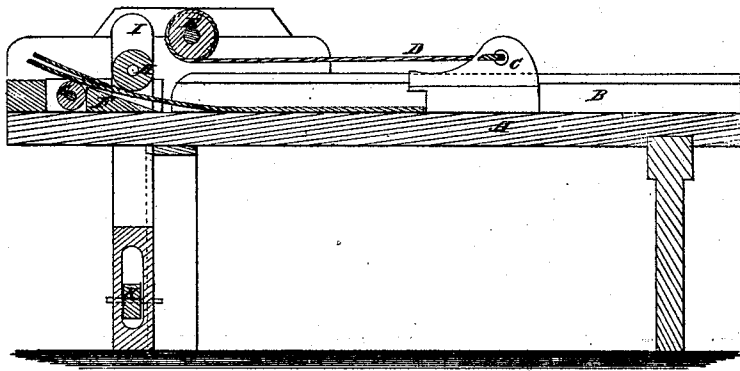
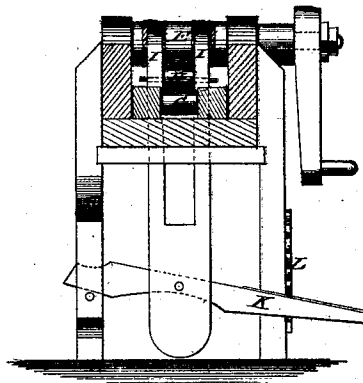


Fig. 3.



WITNESSES:
P. C. Dietrich.
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United States Patent Office.

RUSSEL M. SHANER, OF GENOA, OHIO.

Letters Patent No. 119,295, dated December 20, 1870.

IMPROVEMENT IN HOOP-RACKING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, RUSSEL M. SHANER, of Genoa, in the county of Ottawa and State of Ohio, have invented a new and improved Hoop-Racking Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in machines for "racking" hoops, and consists in an arrangement, with a channeled bench and a pushing apparatus for forcing the pieces of timber along the channel, of an inclined plane, a fixed racking-roller, and a vertically-movable roller, arranged to be forced down upon the piece of timber to be racked as it is forced between the rollers and up the incline, so that it is subjected to an abrupt bending at all points from end to end, by which the layers are racked apart.

Figure 1 is a plan view of my improved machine;

Figure 2 is a longitudinal sectional elevation taken on the line *x x*; and

Figure 3 is a cross-section taken on the line *y y* of fig. 2.

Similar letters of reference indicate corresponding parts.

A represents a long bench, having a deep narrow groove or channel, B, in the top, extending from one end nearly to the other, which may be formed in any approved way.

C is a pusher-block, fitted to be moved along in the said channel, and connected by cords or belts D with a drum, E, adapted to wind up the cord and draw the said pusher with great force.

F is an inclined plane placed in the bottom of said

groove, a short distance behind the drum E; and behind the upper end of this plane is a roller, G, arranged in fixed bearings.

Between this roller and the drum, and above the inclined plane, is a roller, H, mounted in the vertically-moving frame I, which frame extends below the top of the bench and has a foot-lever, K, attached to it.

The piece of timber to be racked is placed in the channel B, with the butt end against the front of the pusher and the other under the roller H, care being taken to lay it so that the planes of the layers or grain of the wood will be parallel with the rollers.

The roller H is then brought down upon it, and held either by the foot or a notched plate or bar, L, while the drum E is turned by a crank or otherwise, and the piece forced along between the rollers, by which it is so cramped and bent that the layers of the wood will be separated from each other as they are separated when similarly bent in the common process of racking by hand.

The operation is very greatly facilitated by the use of this apparatus.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of the channeled bench, pusher, inclined plane, rollers G and H, and the vertically-reciprocating frame and foot-lever, all substantially as specified.

RUSSEL M. SHANER.

Witnesses:

J. H. H. UTHOFF,
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