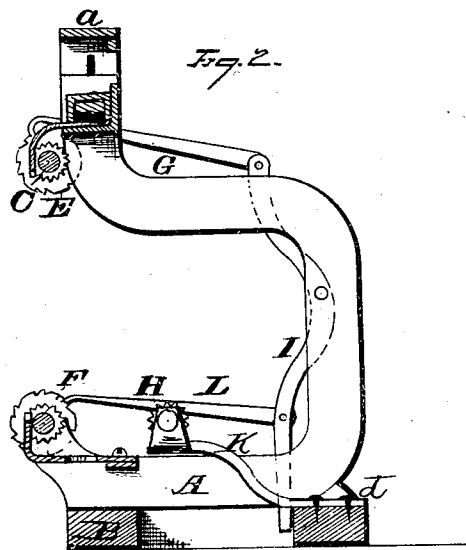
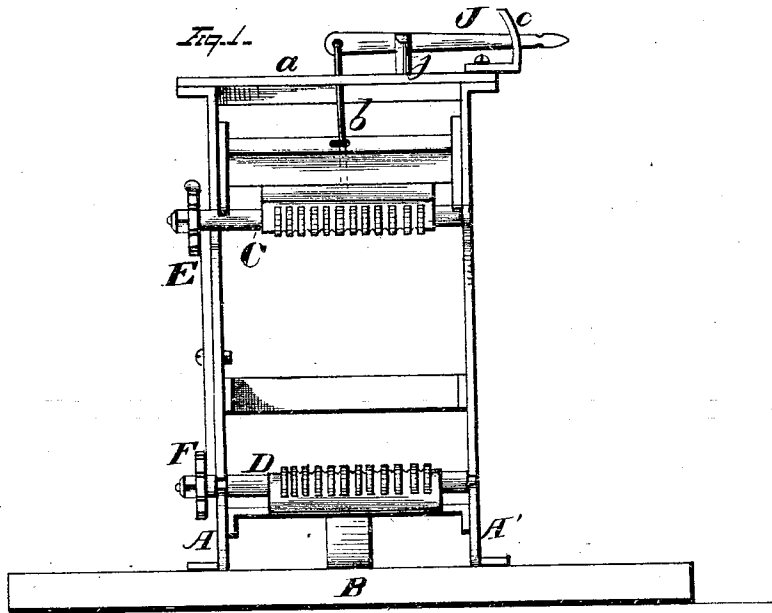


MACHINE FOR SAWING SHINGLES.

Patented Dec. 12, 1876.



WITNESSES

WITNESSES
Ed. J. Nottingham.
F. O. M. Cleary.

INVENTOR

INVENTOR
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UNITED STATES PATENT OFFICE

JOSEPH PERRY, OF GARDINER, MAINE.

IMPROVEMENT IN MACHINES FOR SAWING SHINGLES.

Specification forming part of Letters Patent No. **185,348**, dated December 12, 1876; application filed August 31, 1876.

To all whom it may concern:

Be it known that I, JOSEPH PERRY, of Gardiner, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Machines for Sawing Shingles; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a front view of the carriage of a shingle-machine to which my improvement is attached, and Fig. 2 represents a vertical section of the same.

Shingle-machine carriages have been provided with an auxiliary roll, which serves to guide the block between the set-rolls. These guide-rolls have been journaled in a vertically-adjustable frame upheld by a spring, as shown in Patent No. 38,932. My improvement on the patent referred to consists in mounting the guide-roll of a shingle machine or carriage on the free end of a vibratory spring, whereby the roll may readily yield to vertical longitudinal strain or pressure.

A A' represent the frame of the carriage, which is secured to the base B. Upper and lower set-rolls C D are journaled in the frame A A', each roller having ratchet-wheels E F attached to their ends, and are rotated in the same direction by means of pawls G H, which are pivoted to the centrally-pivoted lever I. The upper set-roll C is weighted and capable of vertical adjustment by means of the hand-lever J, which is fulcrumed in a post, *j*, attached to the cross-bar *a*, and connects with the roll-frame by the link or rod *b*. The outer end of the lever J moves in a notched guide-plate, *c*, so that the lever, being depressed to raise the upper set-roll, can spring into the notch in the plate *c*, is there firmly secured, and retains the upper roll in its raised position. K is a flat metallic spring,

secured at *d* to the frame or base of the carriage, while its free end is bent upwardly, and provided with ears or bearings for an auxiliary pressure-roll, L.

The object of the pressure-roll L is to prevent any lateral movement of the bolt after it has been adjusted between the upper and lower set-rolls. As the bolt is tipped or its rear end raised and lowered to adjust the bolt to enable the butt and tip of the shingle to be cut by the saw, the auxiliary or rear pressure-roll L will continually press against the lower surface of the bolt, and effectually prevent any side movement or displacement of the bolt. By securing the roller L to the free end of a spring, as shown, the roller has both vertical and horizontal movement, and hence it readily adjusts itself to the bolt, regardless of its position or inequalities of surface.

It will be observed that this pressure-roll L is both fluted and grooved the same as the two set-rolls, and while I prefer such a construction, I am not limited to it; but the main principle of my invention consists in adding to the two usual set-rolls an auxiliary rear pressure-roll journaled in the free end of a spring.

I do not claim, broadly, the combination of a pressure-roll with the upper and lower set-rolls of a shingle-machine carriage, as such is not my invention; but

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a carriage for sawing shingles, the combination, with the upper and lower set-rolls, of an auxiliary pressure-roll journaled in the free end of a spring, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOSEPH PERRY.

Witnesses:

CHARLES SWIFT,
LINCOLN PERRY.