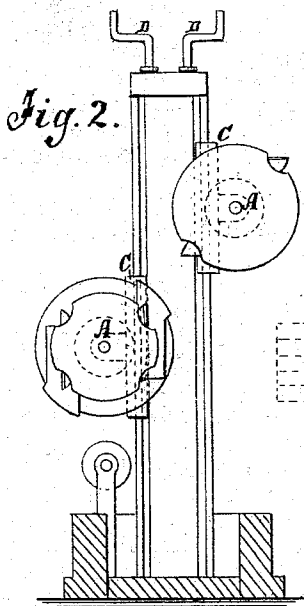
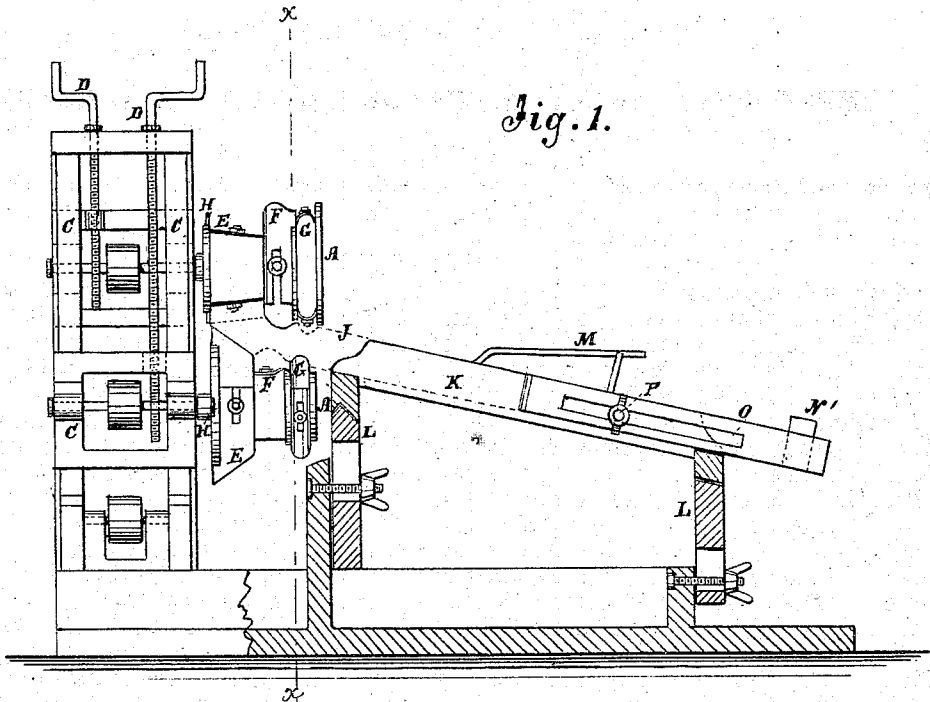


I. LEVY.

Machines for Making Fence-Pickets.

No. 158,291.

Patented Dec. 29, 1874.



WITNESSES:

A. Benneken & Co.
St. Louis

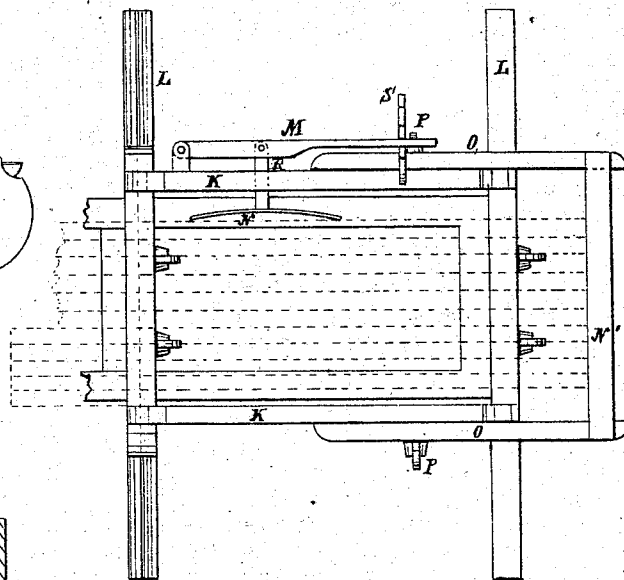


Fig. 3.

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BY

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UNITED STATES PATENT OFFICE.

ISAAC LEVY, OF ELLAVILLE, FLORIDA.

IMPROVEMENT IN MACHINES FOR MAKING FENCE-PICKETS.

Specification forming part of Letters Patent No. **158,291**, dated December 29, 1874; application filed August 1, 1874.

To all whom it may concern:

Be it known that I, ISAAC LEVY, of Ellaville, in the county of Madison and State of Florida, have invented an Improvement in Machines for Making Fence-Pickets, of which the following is a specification:

The invention is an improvement in the class of machines wherein revolving and vertically-adjustable cutter-heads are employed for dressing or shaping the heads of the pickets or palings. The improvement relates particularly to the construction of the sliding or reciprocating table and an attachment thereof, for supporting and clamping pickets of different lengths, as hereinafter described.

Figure 1 is partly a side elevation and partly a sectional elevation of my improved machine. Fig. 2 is a sectional elevation of the machine, taken on the line *x x* of Fig. 1; and Fig. 3 is a plan of the carriage.

Similar letters of reference indicate corresponding parts.

A represents a pair of revolving cutter-heads, placed one above and also a little in advance horizontally of another, and fixed on adjustable bearings C, having an independent adjusting-screw, D, to each, for adjusting them toward or from each other, to vary the space between them for wide or narrow pickets. These heads carry a pointing-cutter, E, and two molding-cutters, F G, also a saw-cutter, H, which are formed in the outline of the edges to cut the pickets J alike on both sides when presented obliquely to them, as shown in Fig. 1, and the carriage K, in which the pickets are placed, is arranged for presenting the pickets obliquely, by which the cutters are enabled to shear or draw-cut the wood, and thus work smoother and easier than they can when they cut directly across the grain. The saw-cutters H trim off the feather-edge left by the pointing-cutters. The carriage is mounted on ways L, that are vertically adjustable to alter the inclination, and to level the carriage, if necessary. The pickets are placed

in the carriage side by side, and secured by a lever and spring-clamp, M N, so as to be held firmly while moved along past the cutters by sliding the carriage along the ways. The lever M, which is connected with the spring N by the link or bar R, is pivoted to the side of the carriage, and secured in any adjustment by means of a ratchet-bar, S, as shown. The pickets rest at the end against the end piece N' of the carriage, by which they are so gaged to the saw that they are all cut in uniform lengths. This bar N' is adjustable up and down the carriage, toward and from the cutters, by the slotted side pieces O and clamping-bolts P, to adjust it for pickets of different lengths. The cutters are all detachably connected to the head, so that they can be readily taken off for grinding, and for the application of others of different forms for making different styles of work.

I do not claim the employment, on a wood-working machine, of a reciprocating and vertically-adjustable table or carriage, nor a lever clamping device for the lumber to be operated upon; but,

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

1. In a picket-shaping machine, the combination, with the table or carriage K, of the slotted side bars O O, the end connecting or cross-bar N', and the clamping-screws P P, said parts forming the end extension, all constructed, arranged, and operating as shown and described.

2. In a picket-shaping machine, the clamping device consisting of the spring N, pivoted lever M, link R, and ratchet-bar S, said parts being combined and arranged with the table K, to hold the picket thereof by pressure applied laterally, as shown and described.

ISAAC LEVY.

Witnesses:

JOHN F. HINMAN,
WM. F. SYLVESTER.