

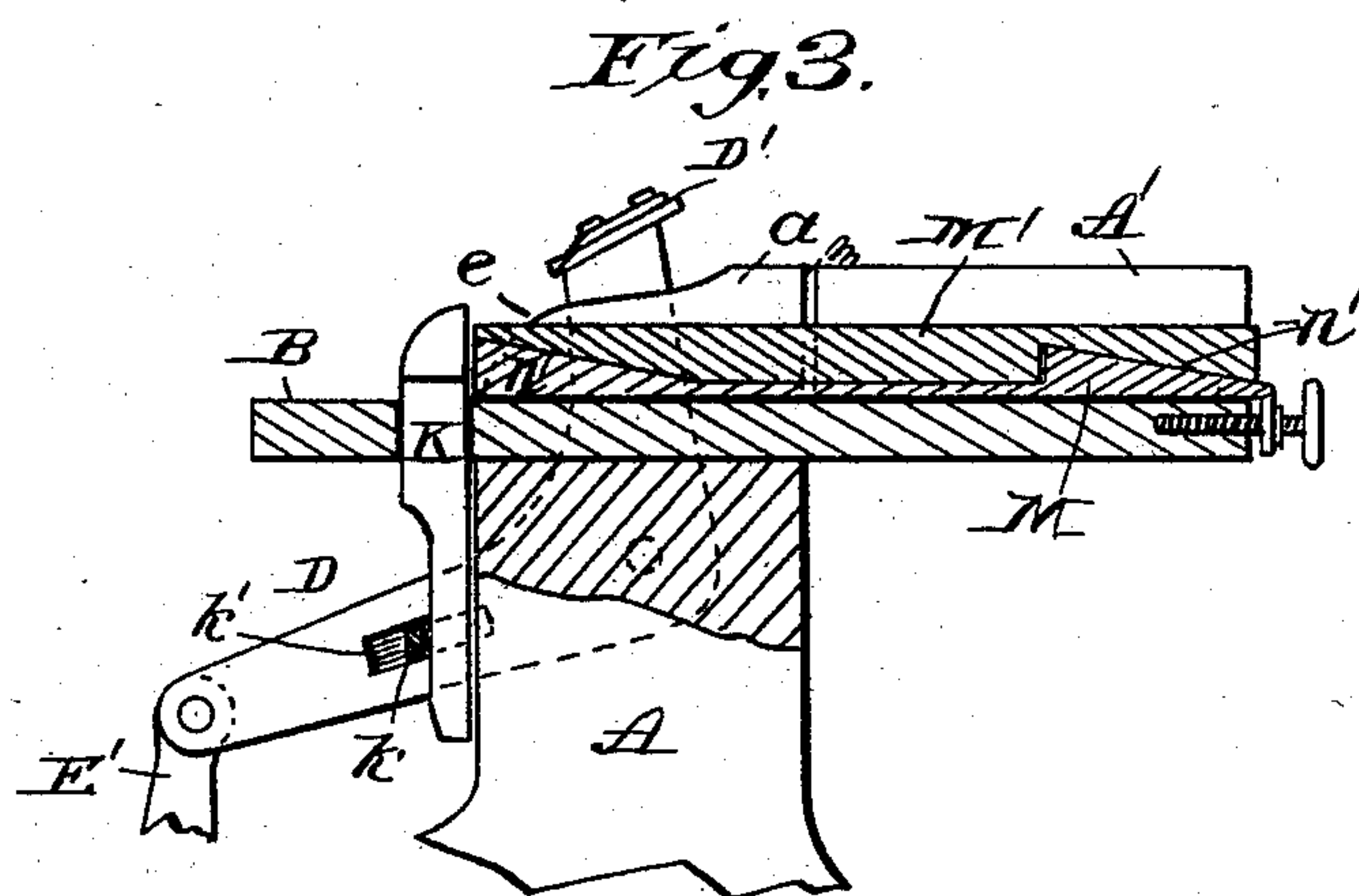
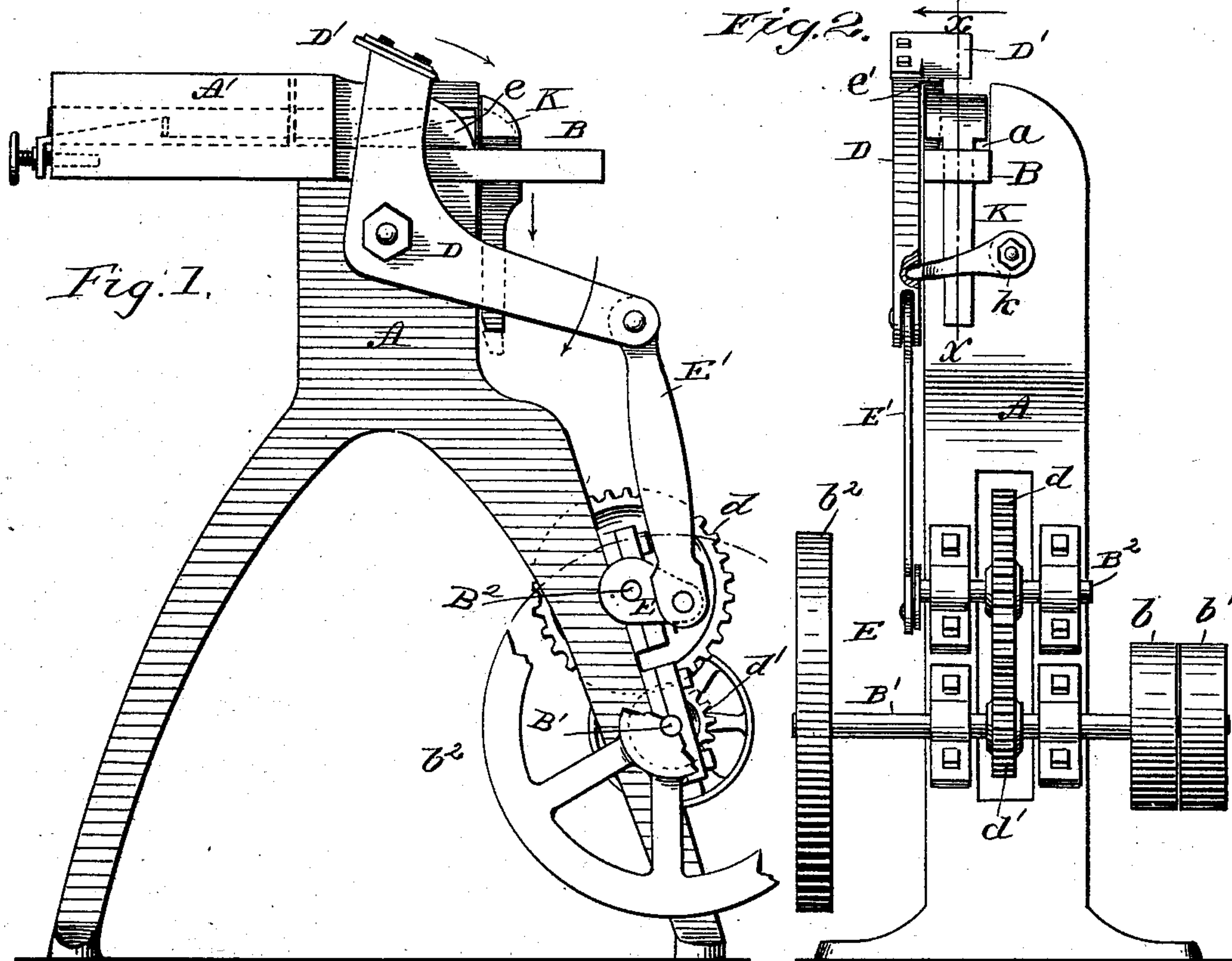
(No Model.)

N. A. ACUFF.

MACHINE FOR POINTING PICKETS, SHINGLES, OR SIMILAR ARTICLES.

No. 393,875.

Patented Dec. 4, 1888.



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UNITED STATES PATENT OFFICE.

NOAH A. ACUFF, OF HALL'S CROSS ROADS, TENNESSEE.

MACHINE FOR POINTING PICKETS, SHINGLES, OR SIMILAR ARTICLES.

SPECIFICATION forming part of Letters Patent No. 393,875, dated December 4, 1888.

Application filed March 5, 1888. Serial No. 266,147. (No model.)

To all whom it may concern:

Be it known that I, NOAH ALDREDG ACUFF, of Hall's Cross Roads, in the county of Knox and State of Tennessee, have invented a new and Improved Machine for Pointing Pickets, Shingles, or Similar Articles, of which the following is a full, clear, and exact description.

My invention relates to an improved machine for pointing pickets, shingles, or similar articles, and has for its object to provide an apparatus that will occupy but little room, and wherein each article will be shaped upon a uniform slope and pointed to the center of the material.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the apparatus. Fig. 2 is a front elevation of the same, and Fig. 3 is a partial vertical section on line *xx* of Fig. 2.

In carrying out the invention, A represents a frame of any desired construction, preferably having the appearance of an inverted Y. In the upper vertical member of the frame a slot, *a*, is cut from front to rear, and a rectangular box, A', is attached to the said member, having a longitudinal groove registering with and forming a continuation of the slot *a*. From the front of the vertical member of the frame a horizontal table, B, is projected, the upper face whereof is flush with the bottom of the slot *a* and the groove in the box A'. In the forward inclined member of the frame a drive-shaft, B', is transversely journaled, provided at one projecting end with a fast and loose pulley, *b b'*, and at the other end with a fly-wheel, *b²*. Above the drive-shaft B' a second transverse shaft, B², is journaled, and upon the latter shaft, about centrally the same, a gear-wheel, *d*, is keyed, adapted to mesh with a pinion, *d'*, upon the drive-shaft. The several wheels revolve in a longitudinal slot in the frame and are geared, preferably, four to one.

Upon one side of the frame, near the top,

an angle-lever, D, is pivoted, the extremity of the vertical member of which being beveled to the front and made to extend above the top of the frame. Upon this beveled extremity of the angle-lever a cutter, D', is secured in any approved manner, which cutter, projecting over the slot *a*, is adapted to have a segmental reciprocating motion.

The outer wall of the slot *a* at the forward end is preferably curved downward, as shown at *e*, and the said vertical member of the angle-lever is provided with an integral inclined lug, *e'*, extending over the said wall and adapted to rest upon the same when the lever is at the limit of its rearward throw. The prime purpose of the lug is to afford a secure bearing for the cutter.

Upon one outer end of one transverse shaft B² a crank, E, is secured, and upon a wrist-pin thereon one end of a connecting bar or pitman, E', is pivoted, the other end of said pitman being pivoted in the horizontal member of the angle-lever, as shown in Fig. 1.

By reason of the preferred style of gearing above set forth forty revolutions a minute are imparted to the cutter-head, the balance-wheel being revolved at the rate of one hundred and sixty revolutions.

In the table B, immediately in front of the slot *a*, a sliding stop-block, K, is held. Pivoted to the front of the frame is the lever-arm *k*, which is provided with a projection on its hub engaging a notch in the shank of the sliding block and having its free end engaging a slot, *k'*, in the inner face of the horizontal member of the lever D, so that as the lever D is rocked on its pivot a reciprocating motion will be imparted to the stop-block K.

The movements of the cutter and stop-block are so timed as that when the former is at the limit of its rearward throw the latter will be elevated flush with the upper end of the frame, forming a forward wall for the slot *a*, and as the cutter advances the stop-block passes downward, so that when the cutter is at the limit of the forward throw the stop-block is beneath it.

A sliding plate, M, is made to rest upon the bottom of the slot *a* and the groove in the box, which plate is reciprocated by means of a screw passing through a bracket integral

with the outer end, the said screw adapted to enter the edge of the box, being provided with a hand-wheel. I do not, however, confine myself to this particular mode of adjustment.

5 Upon the plate M a bed-block, M', is rested, as shown in Fig. 3, vertically adjustable in the frame and box, guided by means of a side lug sliding in a groove, m, in the box.

10 The contiguous faces of the sliding plate and bed-block are beveled in opposite directions at or near the ends to form the inclined planes n n', whereby, when the plate M is drawn out, the bed-block is elevated equally throughout its length.

15 In operation the shingle or picket to be cut is placed upon the bed-block and the latter so adjusted as that the center of the article to be cut in direction of its depth will align the upper edge of the head-block when the latter is at its lowest point. The cutter-head, then descending, will bevel the end of the article exactly to the center, whereupon the article is turned and the opposite side cut. A point is thereby imparted to the end.

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

1. In a machine for pointing pickets and the like, the combination, with a supporting-bed, of a vertically-reciprocating stop-block in front of the bed and a cutter held to reciprocate in an arc above the bed and stop-block, substantially as described.

2. In a machine for pointing pickets and the like, the combination, with a supporting-bed, of a vertically-reciprocating stop-block, a cutter held to reciprocate in an arc above the bed and stop-block, and intermediate mechanism between the stop-block and cutter for operating the former from the cutter, substantially as described.

3. In a machine for pointing pickets and the like, the combination, with a supporting-frame, of a vertically-adjustable bed-block on

the frame, a vertically-reciprocating stop-block, a cutter held to reciprocate in an arc above the bed and stop-block, and a connection between the stop-block and cutter for operating them simultaneously, substantially as herein shown and described.

4. In a machine for pointing pickets and the like, the combination, with a supporting-frame, of the angle-lever D, provided with the cutter D', the sliding stop-block K, and the pivoted lever-arm k, engaging the shank of the stop-block and the horizontal member of the angle-lever, substantially as herein shown and described.

5. The combination, with a vertically-adjustable bed-block, a plate sliding beneath said bed-block, the contiguous surfaces recessed to present inclined planes, an angle-lever having a forwardly-inclined upper extremity, a cutter secured to said extremity and reciprocating in an arc above said bed-block, a vertically-reciprocating stop-block actuated from said lever, and means, substantially as shown and described, for working the lever, as and for the purpose specified.

6. The combination, with a vertically-adjustable bed-block, a plate sliding beneath the bed-block, the contiguous surfaces whereof are recessed to present inclined planes, an angle-lever having a forwardly-inclined upper extremity, and a cutter secured to said inclined extremity reciprocating in a semi-circle above the bed-block, a vertically-reciprocating stop-block located in front of the said bed-block and plate, a lever-arm engaging the said stop-block and having one extremity inserted in a recess in the angle-lever, and means, substantially as described, for actuating the angle-lever, as and for the purpose set forth.

NOAH A. ACUFF.

Witnesses:

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