

J. F. SMITH.
Peg-Cutting Machine.

No. 165,886.

Patented July 20, 1875.

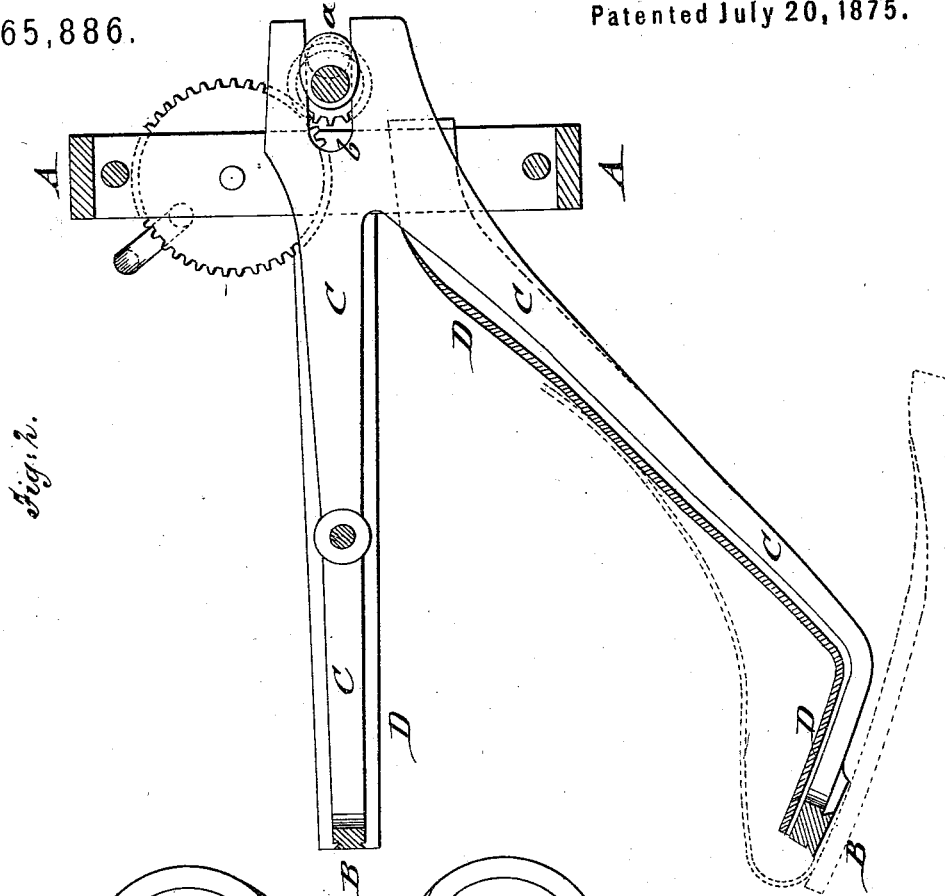


Fig. 2.

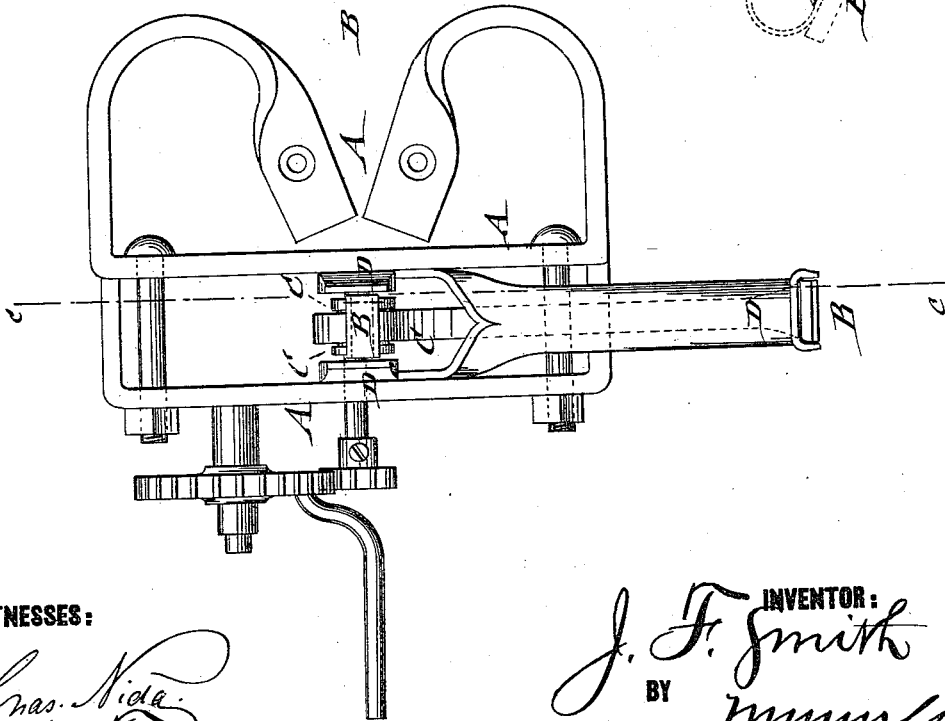


Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JEREMIAH F. SMITH, OF KEOKUK, IOWA.

IMPROVEMENT IN PEG-CUTTING MACHINES.

Specification forming part of Letters Patent No. **165,886**, dated July 20, 1875; application filed June 5, 1875.

To all whom it may concern:

Be it known that I, JEREMIAH F. SMITH, of Keokuk, in the county of Lee and State of Iowa, have invented a new and Improved Peg-Cutting Machines, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view, and Fig. 2 a vertical longitudinal section on the line *c c*, Fig. 1, of my improved peg-cutting machine.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described in connection with drawing, and then pointed out in the claim.

In the drawing, A represents the supporting-frame, to which the reciprocating cutter-arms and the operating mechanism is mounted. Frame A is attached to the wall, work-bench, or other place, and the operating mechanism driven either by gearing or hand-power is used, as shown in the drawing, or by belt and pulley, in case steam-power is available, so that a considerable speed may be imparted to the cutting-knives. The cutters B are applied at the outer ends of two forward extending arms, C, which spread in the shape of a V from their common rear part, one being straight, the other being curved in upward direction near the front part, as shown in Fig. 2. The straight arm is used for cutting out the heel of the shoe or boot, the curved part to run along the inner sole for cutting off the projecting pegs.

The knives have two cutting-edges to work in both directions, and are reciprocated in the surrounding guide-casings D, corresponding in shape to the arms C, by an eccentric cam, *a*, of the driving-shaft acting on a rear slot, *b*, of the arms C. The straight arm C is fulcrumed about centrally to its casing to reciprocate up and down, while the lower curved arm reciprocates forward and backward, and is passed easily along the sole-edge for cutting the pegs, being guided along the upper by the protecting casing without in the least injuring the upper. The pegs are rapidly and neatly cut off by the reciprocating knives, the shoe or boot being placed on the straight arm to have the heel-pegs cut, and then on the curved arm to have the sole-pegs cut off, forming thus a very reliable and labor-saving machine for shoemakers, either for common hand or power use.

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

The bar C, slotted at *b*, having one pivoted straight and one unpivoted curved arm, combined with cam *a* and guide-case D, as shown and described, to enable both a peg and heel cutter to be simultaneously operated, as set forth.

JEREMIAH FRANK SMITH.

Witnesses:

WALTER SCOTT,
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