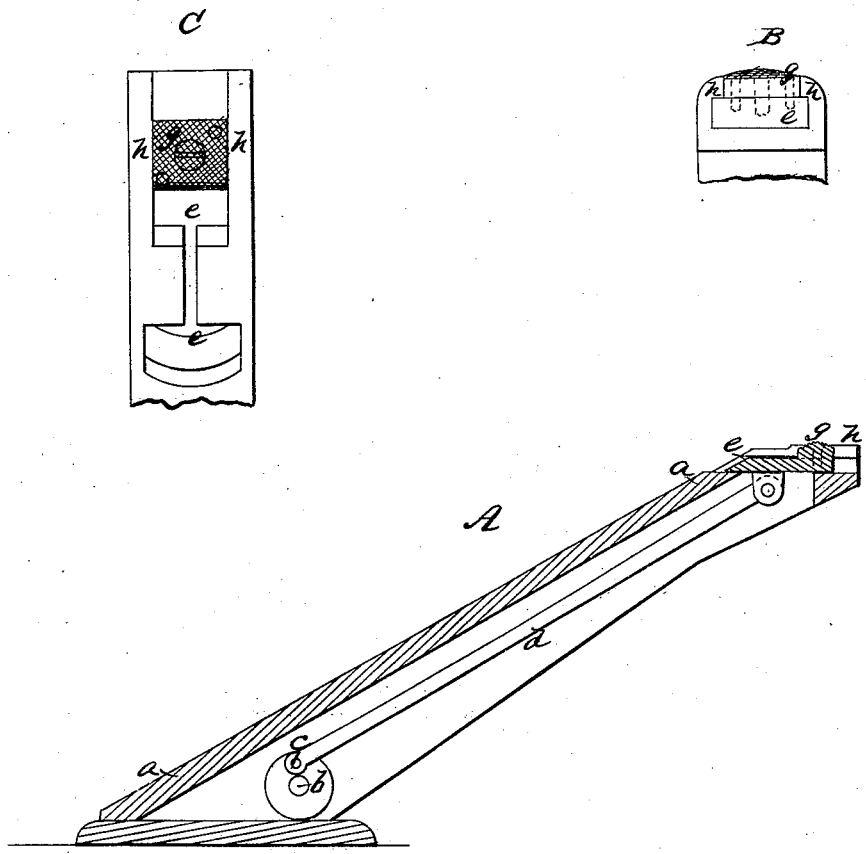
E. Townsend,

Shoemakers' Tool.

No. 53,200. Patented Mar. 13, 1866.



Witnesses
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UNITED STATES PATENT OFFICE.

ELMER TOWNSEND, OF BOSTON, MASSACHUSETTS.

IMPROVED PEG-RASPER.

Specification forming part of Letters Patent No. **53,200**, dated March 13, 1866.

To all whom it may concern:

Be it known that I, ELMER TOWNSEND, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Cutter or Rasper for Removal of Peg Ends; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

To facilitate the removal of the ends of pegs which project into the interior of boots and shoes through the soles thereof more effectually and in less time and with less labor than the same can be accomplished by use of the hand-tools now employed for said purpose is the object of my invention. This consists in the combination of a rapidly-moving cutter with the salient end of an arm of such a long and taper form and having such an inclined direction as will permit the contact of all parts of the inner surface of the sole with the said cutter; also, in the combination, with a cutter located as described, of guards by which the cutter is prevented from coming into contact with and cutting or tearing the leather of the vamp or its lining.

Of the drawings illustrating my invention, A represents, in longitudinal vertical section, my improved peg cutting or rasping machine or apparatus. B represents an end view of the salient end of the arm and cutter, and C shows the same in plan.

The arm *a* is shown as made with a groove or channel in the under side, into which, near the base flange by which the arm is secured to a table or bench, the rotating shaft *b* projects, said shaft having connected therewith a crank-pin, *c*, which drives the connecting-rod *d*. In suitable ways made in the salient end of the arm *a* a slide, *e*, is fitted, and the connecting-rod *d* is attached thereto by the wrist-pin *f*. On this slide *e* a cutter or rasp, *g*, is fixed by means of a screw and steady-pins, so that one cutter can be exchanged for another, as from wear or other reasons may be required. The guards of the cutter *g*, on the sides, are formed by those parts of the slideways marked *h h*; and as the cutter is not allowed to move forward beyond the salient end of the arm, the said end forms the guard, which prevents damage of the vamp by the cutter at the extreme toe and heel of a boot or shoe.

The operation of the machine is as follows: The shaft *b* is given such a rotation as will move the cutter *g* very rapidly, and then the boot or shoe is placed by the workman over the arm *a*, and is so moved or guided as to bring all parts of the row or rows of pegs into contact with the cutter, by which the projecting ends of the pegs are reduced to the level of the sole, care being taken not to let the rasp cut depressions in the inner sole either by application of too much pressure or by allowing the cutter to act too long in one locality. In cutting the peg ends from a boot or shoe the article must have its position reversed once relatively to the arm—that is to say, during part of the operation—and to remove the pegs from the front part of the shoe its toe must be presented toward the salient end of the arm, while in cutting the pegs from the heel this must be presented to the said end of the arm.

I claim—

1. The combination of a cutter with the end of a long inclined arm, and arranged to operate for the purpose described.

2. The combination, with a cutter so arranged, of guards, for the purpose specified.

In witness whereof I have hereunto set my hand this 26th day of January, A. D. 1866.

ELMER TOWNSEND.

Witnesses:

J. B. CROSBY,

FRANCIS GROSBY.