

L. HUSSEY.
Machines for Burnishing the Edges of Boot and Shoe
Soles.
No. 155,447. Patented Sept. 29, 1874.

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UNITED STATES PATENT OFFICE.

LEVI HUSSEY, OF NEW YORK, N. Y.

IMPROVEMENT IN MACHINES FOR BURNISHING THE EDGES OF BOOT AND SHOE SOLES.

Specification forming part of Letters Patent No. **155,447**, dated September 29, 1874; application filed July 25, 1874.

CASE A.

To all whom it may concern:

Be it known that I, LEVI HUSSEY, of the city, county, and State of New York, have invented a new and useful Improvement in Machines for Burnishing the Edges of the Soles of Boots and Shoes, of which the following is a specification:

This invention relates to apparatus used in manufacturing boots and shoes by machinery; and consists in a machine for burnishing or polishing the edges of the soles, constructed to operate substantially as hereinafter described.

In the accompanying drawing, Figure 1 is a top or plan view of the machine. Fig. 2 is a vertical longitudinal section of Fig. 1, taken on the line *x x*. Fig. 3 is a cross-section of Fig. 2, taken on the line *y y*.

Similar letters of reference indicate corresponding parts.

A is the bed-plate of the machine. B is the revolving driving-shaft. C C are a fast and loose pulley, to which the power is applied by means of a belt. D is the operating or polishing shaft. This shaft is connected with the driving-shaft B by means of the eccentric rod E and arm F, the latter being on the polishing-shaft D. By means of the eccentric G this shaft D receives a rocking instead of a revolving motion. This rocking motion is found in practice to be better adapted to the purpose than a continuous ro-

tating motion. The grain of the leather is more evenly and effectually "laid" and polished by the back and forward motion, and the polished surface is not liable to rough up as it does when the fibers are laid by a continuous motion in one direction. H is the polishing-head. I is a small collar, which bears against the "upper." I' is an adjustable gage. This gage is adjusted according to the thickness of the sole, and is adjusted and held in position by the screw-rod J, which works through the stand K. L is a hand-wheel on the screw. M is a spiral spring, to take up any slack of the screw. This gage is tubular and slides over the head H, as seen in Fig. 2.

When the machine is in operation the boot or shoe is held by hand, and the edge of the sole is held in contact with the head, and guided and turned as may be required for producing the desired effect.

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

The combination, with gage I', of screw J, arranged at top, and spring M, arranged at bottom, to always hold the gage evenly up to the polisher.

LEVI HUSSEY.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.