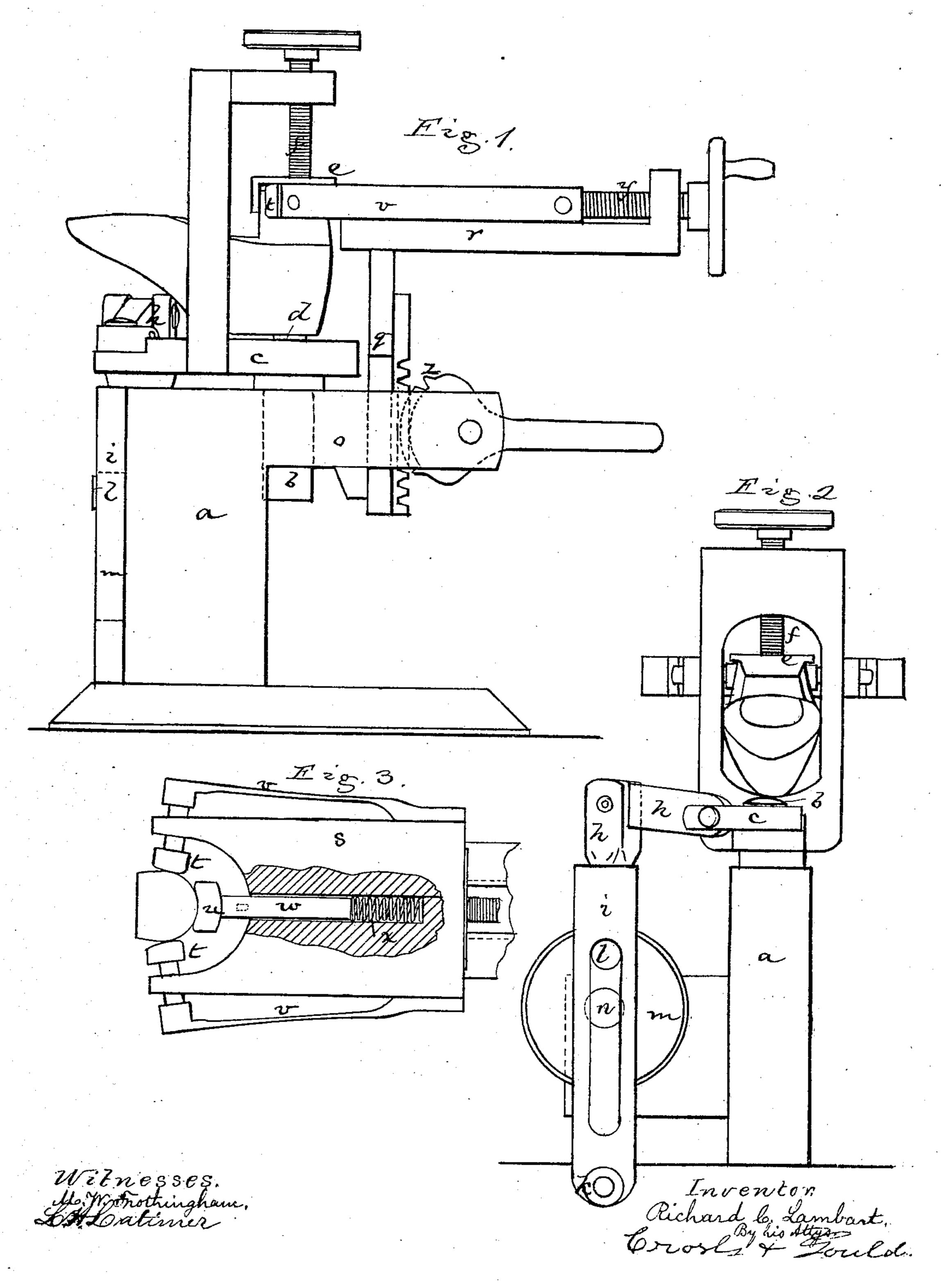
R. C. LAMBART. Machines for Burnishing the Heels of Boots and Shoes.

No. 145,430.

Patented Dec. 9, 1873.



UNITED STATES PATENT OFFICE.

RICHARD C. LAMBART, OF QUINCY, ASSIGNOR TO TAPLEY HEEL-BURNISHING-MACHINE ASSOCIATION, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR BURNISHING THE HEELS OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. 145,430, dated December 9, 1873; application filed November 1, 1873.

To all whom it may concern:

Be it known that I, RICHARD C. LAMBART, of Quincy, in the county of Norfolk and State of Massachusetts, have invented an Improved Machine for Burnishing the Heels of Boots and Shoes; 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.

The invention relates to the specific organization and details of organization of a machine for burnishing the curved edges of the heels of boots and shoes. In such organization, I jack the shoe upon a pivoted arm or lever, to which a reciprocating rotative movement is imparted, the shoe being stationary with relation to said arm, and in the plane of the heel-edge I place a slide or frame, with which are connected a series of yielding burnishers, that clasp or bear against the heel-edge on three sides, or so that, by the reciprocating rotative movements of the shoe, the whole curved length of the heel-edge is brought to the action of the burnishing-faces. This slide has provision for movement toward and away from the heel, and for movement vertically, or in a plane to bring the burnishers against the whole width of heel-edge. The invention consists in the organization thus generally described, and in details of construction and arrangement pertaining to such organization.

The drawing represents a machine embodying the invention.

Figure 1 shows the machine in side elevation. Fig. 2 is a front view thereof.

a denotes an upright, into the top of which enters a pivot-pin, b, projecting from an arm, c. Extending up from this arm in the line of the pivot b is a last-pin, d, upon which is placed the last that carries the boot or shoe to be heel-burnished, the shoe being otherwise held in position by a suitable clamp-plate, e, and clamp-screw f. The outer end of the arm c has jointed to it links h, that connect the arm with a slotted lever, i, pivoted at k, and having extending through it a crank-pin, l, projecting from a crank-wheel, m, on a shaft, n, rotation

of this shaft imparting a reciprocating rotative movement to the arm c, and the boot or shoe jacked thereto. From the standard a extends an arm, o, through which passes a bar, q, that bears a horizontal plate, r, and upon this plate is mounted and slides a plate, s, that carries the burnishers, the plate s being in the plane of the heel-edge, and the yielding burnishers being arranged as seen in Fig. 3, which shows the burnisher-carrier in plan.

Three burnishers, t, t, and u, are shown, t t denoting side burnishers, acting against the opposite curved edges of the heel, and u being a center burnisher, operating against the curved rear edge of the heel, and each being yielding, the side burnishers being at the ends of plate or bar springs v, and the center burnisher at the end of a rod, w, thrown forward by a spring, x.

The carrier-plate s may be moved up to and back from the heel by a screw, y, and the bar q is made a gear-rack, to be moved up and down by a gear-lever, z, the vertical movement of the rack imparting such movement to the burnishers as will move their operating-faces across the whole width of heel-edge face, while by the reciprocating movements of the jack the whole length of curved heel-edge is subjected to the burnishing action of the burnisher-faces.

The burnishing-faces of the yielding burnishers t t u may be made of such length that they will cover the entire length of the curved surface of the heel, in which case a reciprocating vertical movement of the burnishers will suffice to burnish the whole curved surface of the heel without imparting reciprocating movement to the jack; or, instead of a series of burnishers, one burnisher-face may thus extend around the whole length of curved edge of heel, so that, by imparting a vertical reciprocating movement to the burnisher or to the jack, the whole heel-edge will be burnished.

I claim—

1. The combination of a series of burnishers connected with a normally stationary plate or holder, and pressed inward by suitable springs, with a rotatively-reciprocating jack, which brings the whole length of curved heel-edge under the action of the burnishing mechanism.

2. In combination with the series of yielding burnishers and reciprocating jack, the support-plate r, made vertically adjustable, substantially as described.

3. In combination with the series of yielding burnishers and reciprocating jack, a carrier-plate, v, made adjustable horizontally, sub-

stantially as described.

4. In combination with a boot or shoe jacking mechanism, the burnisher or burnishers

upon a stock or carrier arranged to reciprocate in a right line in a direction across the edges of the lifts, substantially as described. Executed this 27th day of September, A. D.

1873.

R. C. LAMBART.

Witnesses:

FRANCIS GOULD, M. W. FROTHINGHAM.