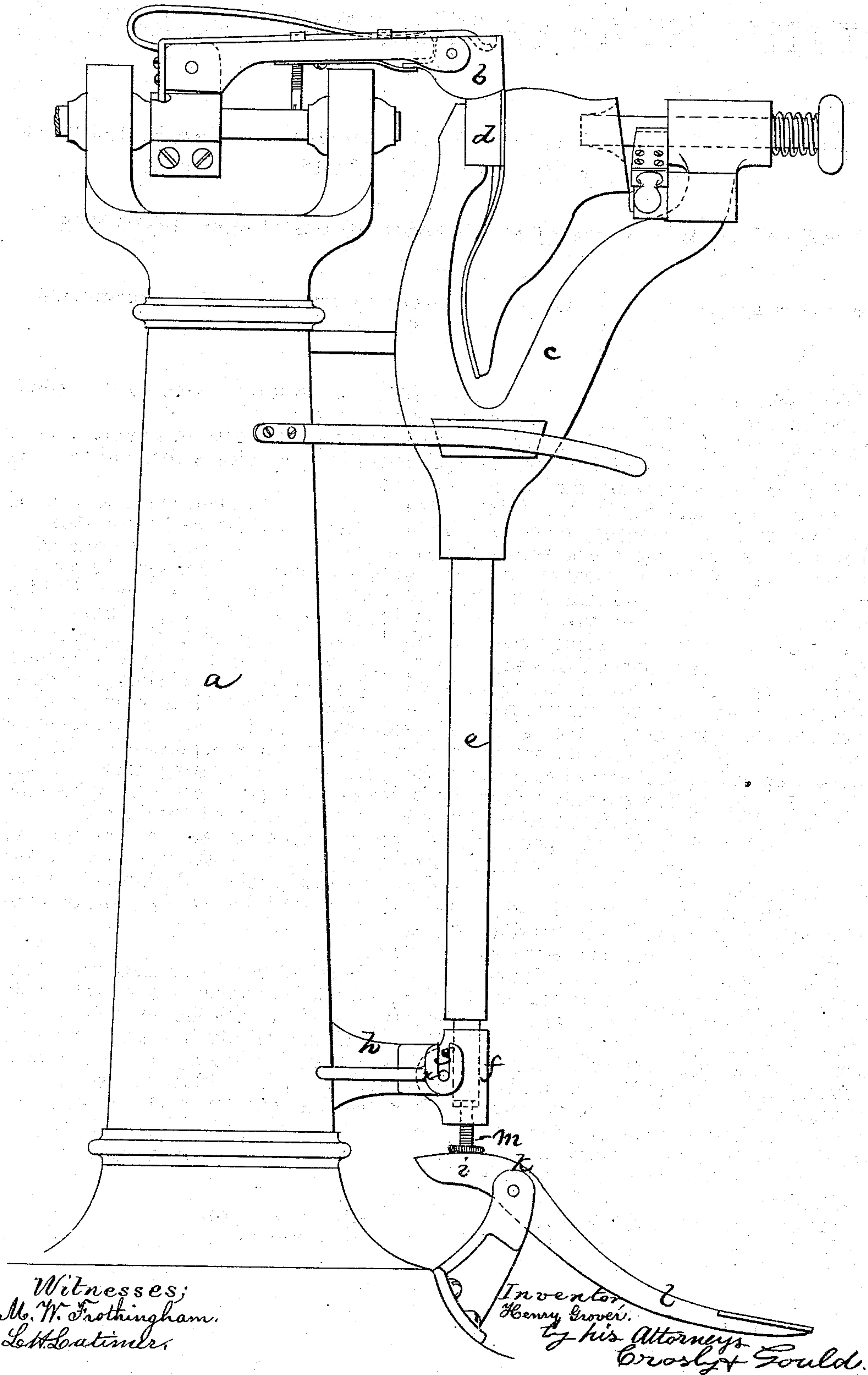


H. GROVER.

Machines for Burnishing Boot and Shoe Heels.

No. 156,848.

Patented Nov. 17, 1874.



UNITED STATES PATENT OFFICE.

HENRY GROVER, OF LYNN, ASSIGNOR TO THEODORE A. DODGE, TRUSTEE,
OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN MACHINES FOR BURNISHING BOOT AND SHOE HEELS.

Specification forming part of Letters Patent No. **156,848**, dated November 17, 1874; application filed
December 19, 1873.

To all whom it may concern:

Be it known that I, HENRY GROVER, of Lynn, in the county of Essex and State of Massachusetts, have invented certain Improvements in Machines for Burnishing the Edges of the Soles 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.

In what are well known as Tapley heel-burnishing machines, the jack-spindle is supported upon a step that is mounted and tips in a stationary bearing. As the reciprocation of the burnisher is unchangeable, and as the extent of its movement must be sufficient to carry over the entire length of curved edge of the heel, even at the longest curvature, (where the heel and sole meet,) the result is that the burnisher at the sole is thrown down upon the shank, and defaces or injures it. To correct this defect is the object of my invention.

To effect the desired result I mount the step, upon which rests the jack-spindle, in a stationary bearing, as before; but the pins that rest in the bearings I support in vertically-slotted bearings that permit the step to be raised, and under the bearing I extend the inner arm of a foot-lever, so that the operator, by pressure of his foot, can raise the jack during the burnishing operation. Then, by having the burnisher-stroke sufficiently long to take the shortest curvature of the heel, he can lengthen the stroke, as the sole is moved toward the burnisher, by raising the jack-spindle by pressure upon the foot-lever.

The invention consists in a simplified means whereby the jack may be positively raised and

lowered to any required degree during the burnishing operation.

The drawing represents, in side elevation, a heel-burnishing machine embodying my improvement.

a denotes the pillar, upon which is mounted the burnisher *b*, and the mechanism that actuates it, the burnisher being reciprocated in any suitable manner. *c* denotes the jack, in which is mounted the boot, the heel *d* of which is to be burnished. *e* is the spindle, upon which the jack is mounted, said spindle standing upon a step, *f*, and said step having journal-pins that stand in vertical slots *g* of a bearing, *h*. Under the bearing is the front arm *i* of a foot-lever, *k*, upon the arm *l*, extending out into position to be depressed by the foot of the operator. An adjusting-screw, *m*, in the lower side of the step, serves to adjust the spindle *e* vertically, as may be desired.

By pressure upon this arm the operator can regulate the position of the heel as to height and the length of stroke of the burnisher upon the various parts of the heel from the tread to the seat.

I claim—

In combination with a reciprocating burnisher, the spindle *e*, which supports the jack, the step *f*, provided with the set-screw *m*, and with journal-pins resting in the vertical slots of the stationary bearing *h*, and the foot-lever or treadle *l* in contact with the set-screw.

Executed this 16th day of December, A. D. 1873.

HENRY GROVER.

Witnesses:

M. W. FROTHINGHAM,
R. L. ROBERTS.