T. K. KEITH.

BOOT AND SHOE SEAM-RUBBING MACHINE.

No. 172,031. Patented Jan. 11, 1876.

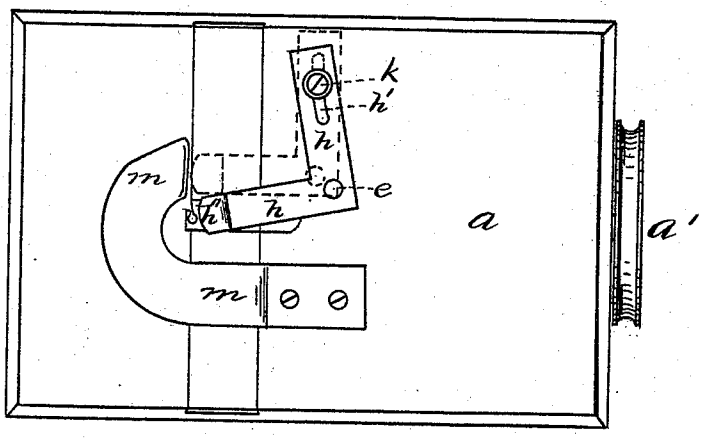

Fig. 1.

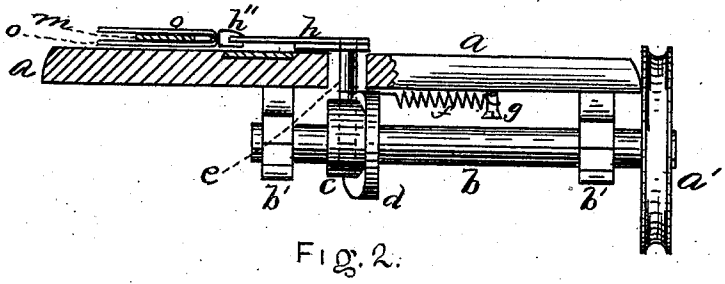

Fig. 2.

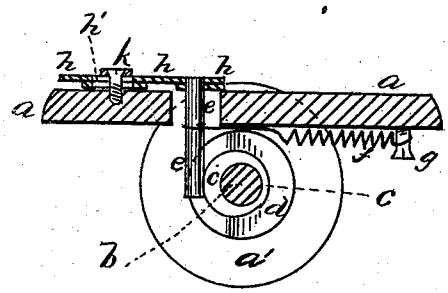

Fig. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

THOMAS K. KEITH, OF HAVERHILL, ASSIGNOR OF ONE-HALF HIS RIGHT TO AUGUSTUS SEAVER, OF MILFORD, MASSACHUSETTS.

IMPROVEMENT IN BOOT AND SHOE SEAM RUBBING MACHINES.

Specification forming part of Letters Patent No. **172,031**, dated January 11, 1876; application filed August 31, 1875.

To all whom it may concern:

Be it known that I, THOMAS K. KEITH, of Haverhill, in the county of Essex and State of Massachusetts, have invented a new and useful device for Rubbing Down the Seams of Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

This device is intended to be used in connection with a sewing-machine suitable for the purpose.

In the accompanying illustration, Figure 1 is a plan view of my device. Fig. 2 is a part longitudinal section. Fig. 3 is a transverse section.

Similar letters of reference indicate corresponding parts.

a represents a portion of the table of a sewing-machine, and *a'* is the driving-wheel. *b* is a shaft extending from the wheel *a'*, and supported by bearings *b'*. *c* and *d* are cams upon the shaft *b*; or, as they are both made of a single piece, they might be termed a "double cam." The shape of the cam *c* is well shown in Fig. 3, and the shape of the cam *d* in Fig. 2. *e* is a rod extending down through a large opening in the table *a* to the cams *c d*. The opening is made large enough to allow the rod to play therein.

The rod *e* is pressed firmly against both cams by means of a diagonally-placed spring, *f*, connecting the said rod with a pin or projection, *g*. The upper end of the rod *e* is fixed in the corner or elbow of the lever *h*. This lever *h* is provided with a slot, *h'*, through which a pin, *k*, passes, thus attaching it to the table *a*.

h'' is the head of the lever or an enlarged portion, which comes into direct contact with the seam and rubs it down. *m* is the plate upon which the leather is placed The leather (represented by *o* in Fig. 2) is placed upon both sides the plate *m*—the seam at its end—and when the machine sews the seam it rubs it down at the same time.

The lever *h*, for example, is in the position shown in Fig. 1. The cam *d*, as it rotates, so presses the rod as to bring the head *h''* of the lever up to the plate *m*; the cam *c* then presses it against the said plate, and pushes it a short distance along its edge, rubbing it down, and the lever *h*, slipping back by means of the slot *h'*, resumes the position seen in Fig. 1. The device is simple, not liable to get out of repair, and very effective.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination with the levers *h h' h''* and rod *e*, the cams *c d*, spring *f*, and shaft *b*, for the purpose of rubbing down the seam placed against the edge of the plate *m*, substantially as herein set forth.

THOMAS K. KEITH.

Witnesses:

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