(No Model.)

M. FIFIELD.

HEEL TRIMMING MECHANISM.

No. 261,696. Patented July 25, 1882.

Fig. 2.

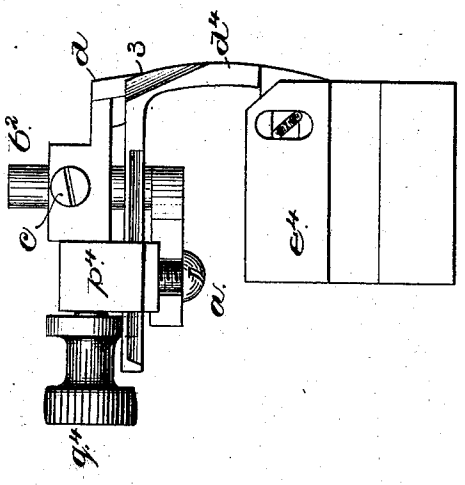


Fig. 4.

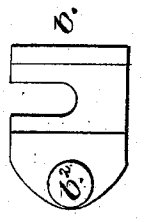


Fig. 1.

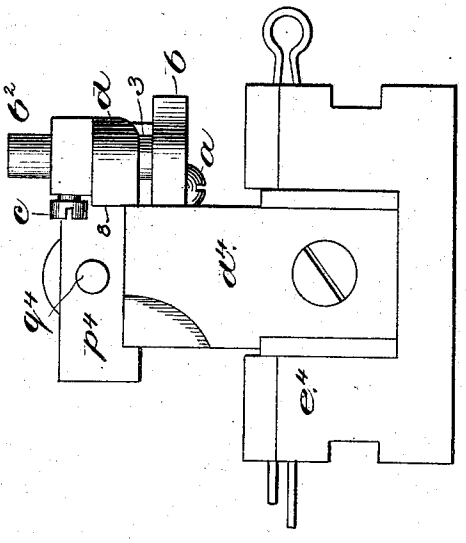
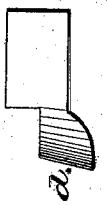


Fig. 3.



Witnesses.

Wm. F. C. Pomeroy

Fred A. Powell.

Inventor:

Moses Fifield

by Crosby & Gregory

Attys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

MOSES FIFIELD, OF NATICK, ASSIGNOR TO JAMES W. BROOKS, TRUSTEE, OF CAMBRIDGE, MASSACHUSETTS.

HEEL-TRIMMING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 261,696, dated July 25, 1882.

Application filed June 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, MOSES FIFIELD, of Natick, county of Middlesex, State of Massachusetts, have invented an Improvement in Heel-Trimming Mechanism, of which the following description, in connection with the accompanying drawings, is a specification.

This invention is an improvement on the mechanism shown in United States Patent No. 166,795, dated August 17, 1875, to which reference may be had.

The object of the invention is to enable the heel to be trimmed closer to the quarter than with the rand-crease gage and guard used in that patent, the said gage having a lip to overlap the edge of the knife, thus preventing the knife coming closer to the quarter or upper than the thickness of the said lip. In the said patent for heels of different height it was necessary to employ knives of different lengths; but in this present invention the gage has been made vertically adjustable, so that several different heights of heels may be trimmed by the same knife. In this present invention the gage made or shaped to bear against the quarter of the shoe just above the top edge of the sole is made adjustable both vertically and horizontally, so that the heel-trimming knife may be made to cut the heel and sole close to the quarter or at any desired distance therefrom, the side of the gage being so shaped that its face which bears against the upper may be placed flush with the edge of the knife.

Figure 1 represents in front elevation a sufficient portion of a heel-trimming machine, in connection with the said patent, to illustrate my present invention; Fig. 2, a left-hand end view of Fig. 1, and Figs. 3 and 4 details of the gage and its holding-plate.

The block p^4, screw q^4, connected therewith and with the knife to move the said block on the knife, and the slide-plate e^4 and the trimming-knife d^4 are the same as designated by like letters in the said patent, and the knife will be adjusted, as shown and described in said patent, to maintain its edge in line with the center, on which the so-called "turn-table" turns, so that the heel may be cut smoothly, as therein described. The block p^4 has connected with it, by set-screw *a*, the holding-plate *d*, the screw being extended through a slot in the said plate to afford adjustment of the plate horizontally toward and from the cutting-edge of the knife as the latter wears. This plate has an upright pin, b^2, upon which is adjustably secured by set-screw *c* the gage *d*, the face of which bears against the quarter or upper just above the top edge of the sole, just in front of the edge of the knife, the side 8 of the said gage (see Fig. 1) being straight to rest close to the edge of the knife, the said gage with its straight side being free to be adjusted backward until its face is in exact line with the face of the knife, so as to trim the sole and heel close to or flush with the quarter or the material composing the rear part of the upper of the shoe or boot.

It is obvious that by adjusting the face of the said gage to occupy a position more or less in advance of the face of the knife, the sole and heel at its upper end may be made to extend more or less beyond the quarter.

By the vertical adjustment of the gage more or less of the length of the cutting-edge of the knife may be shielded, to adapt the same knife to heels of different height.

I claim—

In a heel-trimming machine having a knife, d^4, the adjustable plate *b*, having the pin b^2, combined with the vertically-adjustable gage *d*, having a straight side, 8, whereby the face of the gage may be adjusted in the line of the face of the knife, and the same knife be adapted to form heels of different heights, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MOSES FIFIELD.

Witnesses:

G. W. GREGORY,

W. H. SIGSTON.