C. W. GLIDDEN.
Heel-Trimming Machine.

No. 217,867. Patented July 29, 1879.

Fig. I.

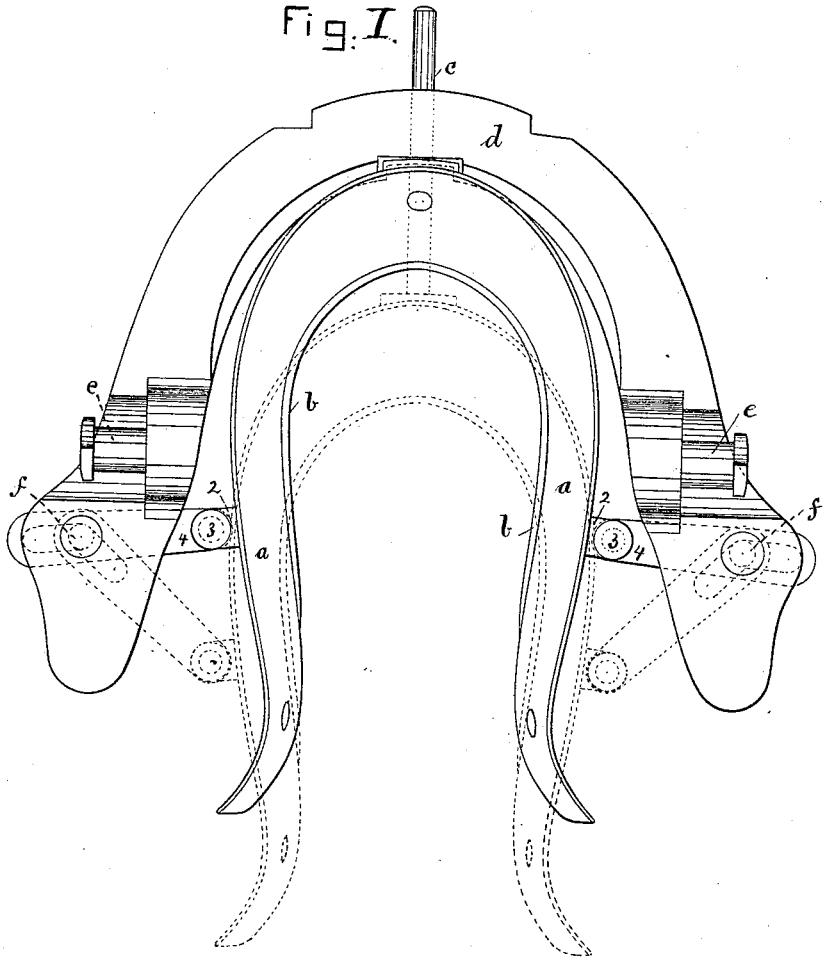
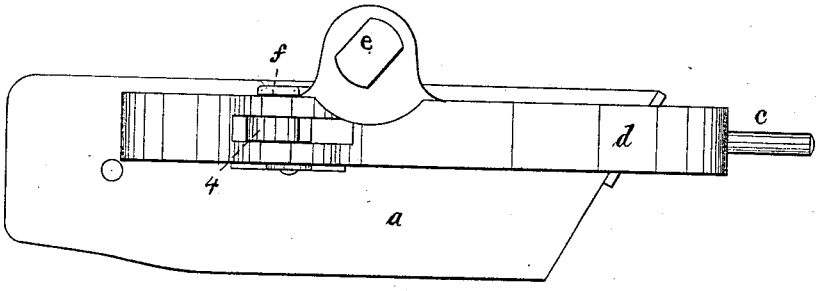


Fig. II.



Witnesses.
Lawrence F. Connor.
Jeremiah T. Cronin

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UNITED STATES PATENT OFFICE.

CHARLES W. GLIDDEN, OF LYNN, MASSACHUSETTS.

IMPROVEMENT IN HEEL-TRIMMING MACHINES.

Specification forming part of Letters Patent No. **217,867**, dated July 29, 1879; application filed June 6, 1879.

To all whom it may concern:

Be it known that I, CHARLES W. GLIDDEN, of Lynn, county of Essex, State of Massachusetts, have invented an Improvement in Heel-Trimming Machines, of which the following description, in connection with the accompanying drawings, is a specification.

This invention relates to heel-trimming machines, and has more special reference to a clamp to hold the quarter part of the shoe while the heel is being trimmed by a knife which is carried about the heel, as in an application filed by me concurrently with this, to which reference may be had.

Figure 1 is a top view of one of my heel-clamps, and Fig. 2 a side elevation thereof.

The supporting-frame for my improved heel-clamp is adapted to be held by or pivoted upon a forked arm, as in the heel-trimming machine described in United States Patent No. 166,795, August 17, 1875, to which reference may be had.

The clamp *a*, of U shape, is shown as composed of thin metal, made in one piece as a band or strap, and it is adapted to be sprung upon or about and so as to embrace the quarter part of the shoe the heel of which is to be trimmed, the turned-over edge *b* of the said clamp entering the usual rand-crease of the shoe. The clamp or band to embrace the quarter is inclined upward and outward to conform to the shoe-quarter. This clamp has at its rear end a rod or finger, *c*, which is extended backward through the frame *d*, provided with trunnions *e*, to be supported by the forked arm in the patent referred to.

The clamp, at its forward end, has ears 2, connected by bolts 3 with slotted links 4, (see Fig. 1,) extended through openings in the frame *d*, pins *f* being passed through the slots in the links 4.

When a heel is to be trimmed the clamp *a* is drawn out, as in dotted lines, Fig. 1, and as the ends of the slotted parts of the links strike the bolts *f* the clamp is somewhat spread open for the introduction of the shoe. Then the shoe is inserted between the sides of the clamp, and the shoe is then pressed backward, moving the clamp back into the full-line position, closing it firmly upon the quarter of the shoe.

The rear face of this clamp is designed to act as a guide or gage for the upper or free end of a rocking or tipping knife, such as described in the application hereinbefore referred to.

The clamp is shown as of sufficient depth to prevent the knife coming in contact with the quarter of the shoe.

I claim—

1. The combination, with the frame, of the movable spring-clamp *a*, composed of a single piece or band of thin metal, and inclined upward and backward, and adapted to embrace and hold the shoe to be trimmed, substantially as described.

2. The spring-clamp provided with the turned edge to enter the rand-crease of the shoe clasped by the clamp, substantially as as described.

3. The frame and spring-clamp, combined with the links to open and close the clamp, substantially as described.

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

CHARLES W. GLIDDEN.

Witnesses:
G. W. GREGORY,
J. T. CRONIN.