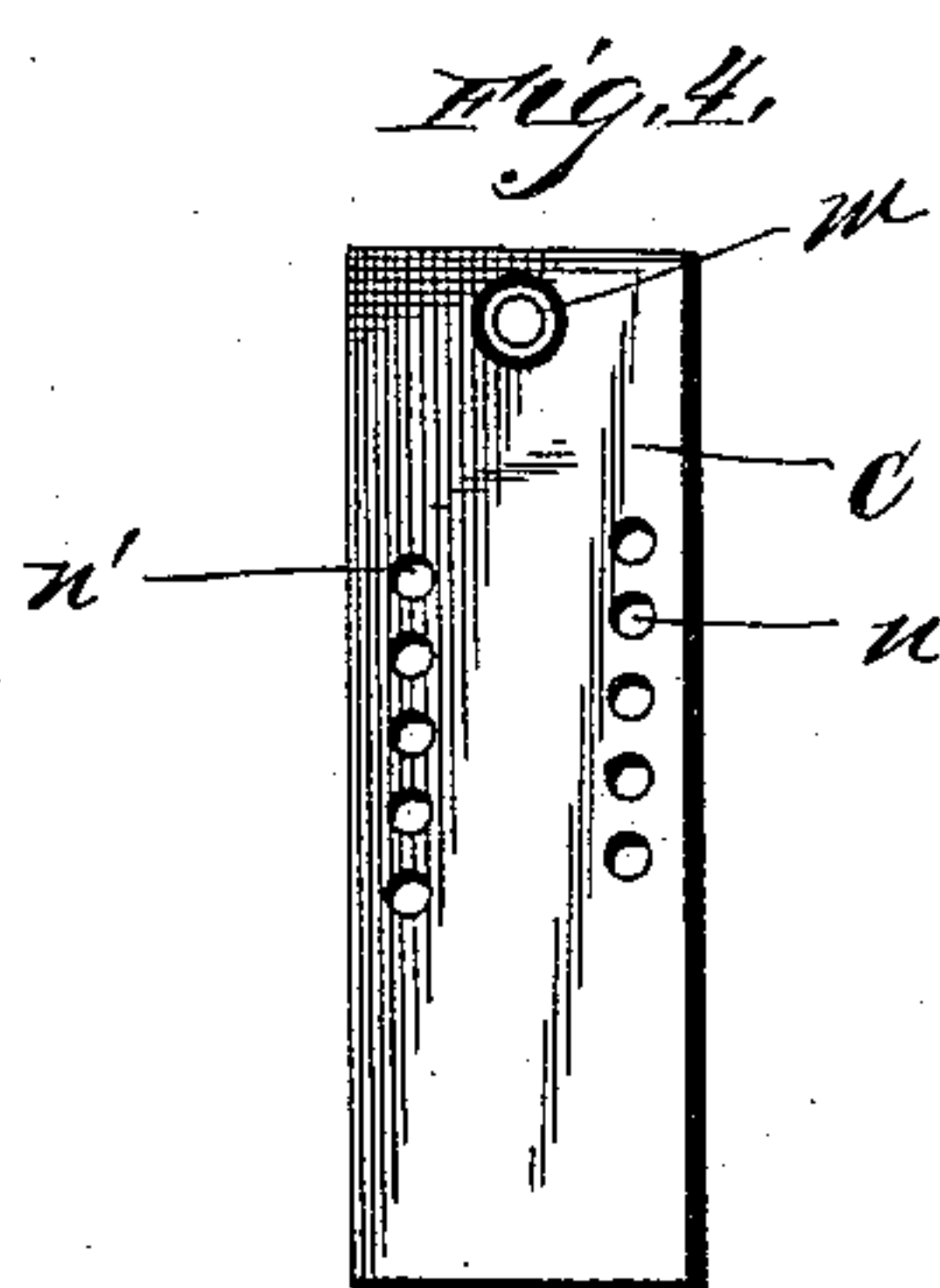
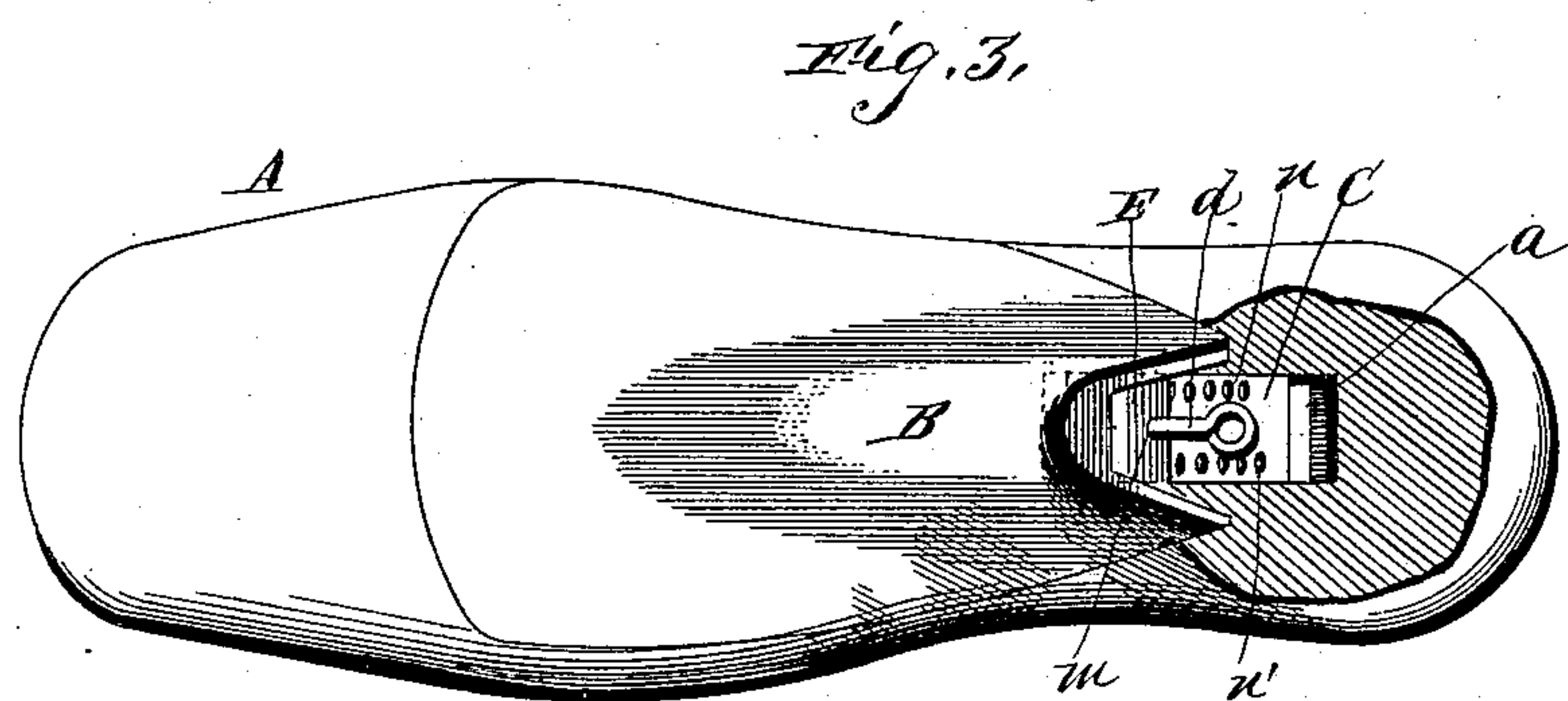
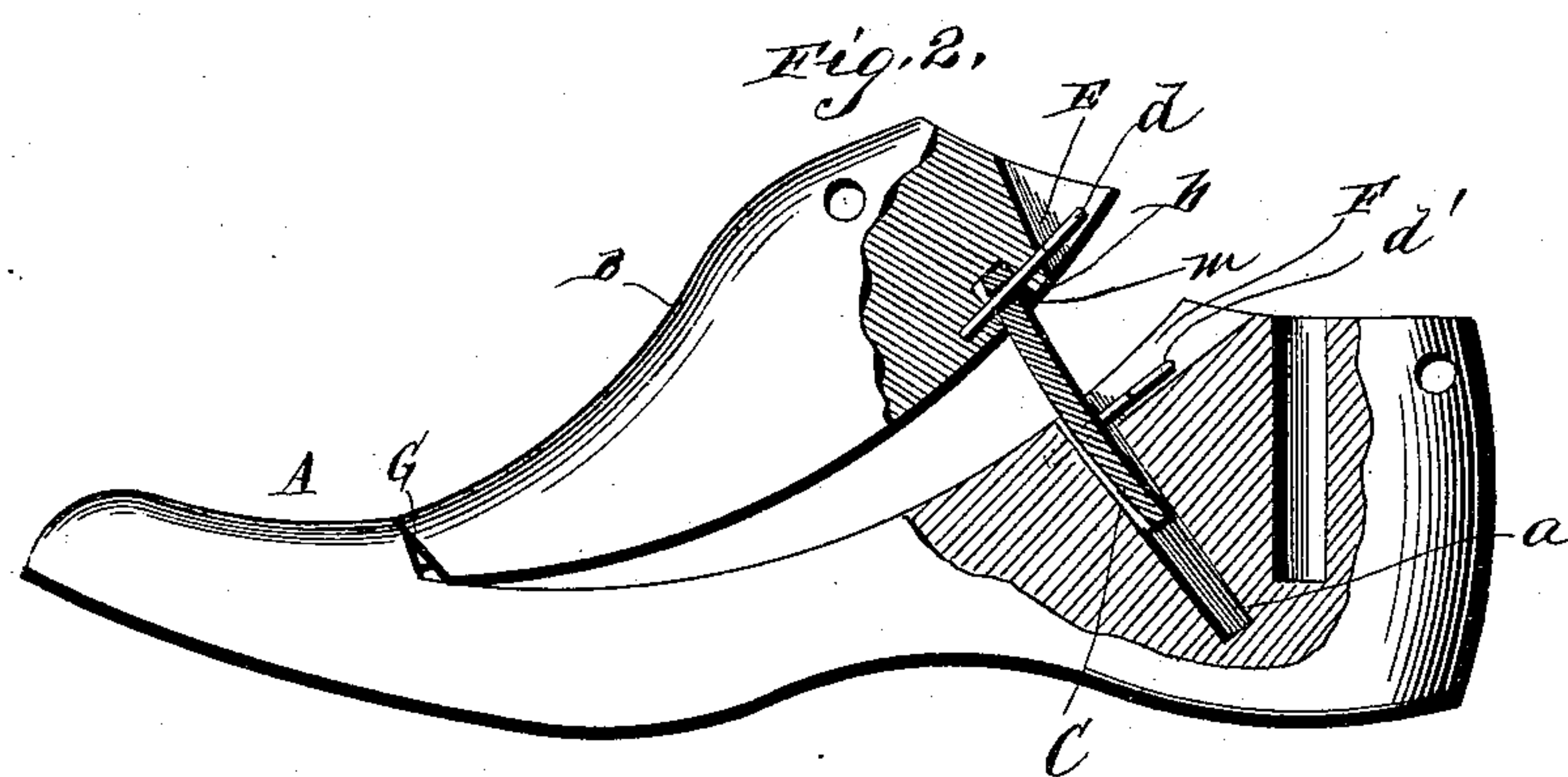
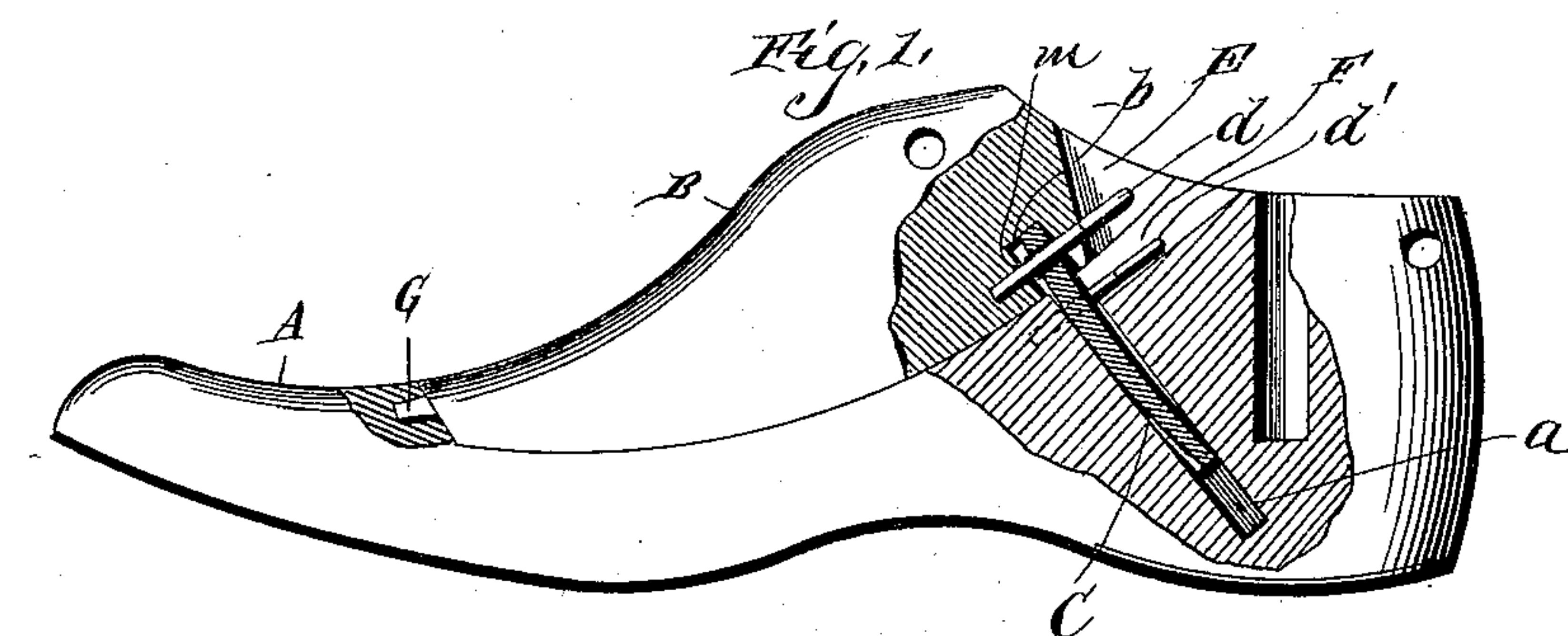


(No Model.)

F. F. MARTIN.
LAST.

No. 407,737.

Patented July 23, 1889.



WITNESSES
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UNITED STATES PATENT OFFICE.

FRANK FRUCTUOSO MARTIN, OF GLOUCESTER, MASSACHUSETTS, ASSIGNOR
OF ONE-FOURTH TO ROBERT T. MOUNTAIN, OF SAME PLACE.

LAST.

SPECIFICATION forming part of Letters Patent No. 407,737, dated July 23, 1889.

Application filed November 24, 1888. Serial No. 291,758. (No model.)

To all whom it may concern:

Be it known that I, FRANK FRUCTUOSO MARTIN, a citizen of the United States, residing at Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Lasts; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to lasts, and has for its object to provide simple and convenient means for adjusting the instep-piece.

The improvement consists in the novel features, which will be hereinafter more fully described and claimed, and shown in the annexed drawings, in which—

Figure 1 is a side view, parts being broken away, of a last of my invention; Fig. 2, a view similar to Fig. 1, showing the instep-piece adjusted; Fig. 3, a top view, parts being broken away, of the last; and Fig. 4, a front view of the plate that supports the adjustable end of the instep-piece.

The last, composed of the base A and the instep-block B, has coincident openings or pockets formed in the opposing sides of the parts A and B, the opening or pocket *b* being in the instep-block B, and the opening or pocket *a* being in the base A. The plate C, fitted in the said openings or pockets, is held in the pocket *b* by the pin *d*, which passes through the sides of the said pocket and through an opening *m* in the plate C, and is provided with two sets of openings *n* and *n'*, one along each edge, the openings of one set coming opposite the spaces between the openings of the other set. The pin *d'* is adapted to pass through any of the openings and hold the plate in an adjusted position. The recess E, in the upper end of the block B, admits the insertion of the fingers or a suitable instrument for withdrawing the pin *d*, and also receives the projecting end of the said pin, so it will not extend beyond the last.

The upper end of the base A has a recess or channel F, which admits of ready access to the pin *d'*. The two parts A and B are held together at their lower ends by the usual dowel-pin G.

In practice, to adjust the instep-piece, separate the upper ends of the parts A and B the required distance and insert the pin *d'* in one of the openings *n* or *n'* in the plate C, so that the said pin *d'* will rest on the rear wall of the channel F and support the block B. The plate C tapers in thickness, being thinner at its lower end, to prevent its binding in the pocket or opening *a* in the base A.

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

1. In a last, the combination, with the parts A and B, having corresponding openings, as *a* and *b*, of the perforated plate C, fitted in one of the said openings, and the pin adjustably supporting the said plate in the other opening, substantially as described.

2. The combination, with the parts A and B of the last, having the openings *a* and *b*, of the plate C, having two sets of openings, as *n* and *n'*, the openings of one set coming opposite the spaces between the openings of the other set, and securing-pins, substantially as described.

3. The combination, with the parts A and B, having openings *a* and *b*, of the plate C, having two sets of openings and tapering in thickness, and the pins *d* and *d'*, substantially as described.

4. The hereinbefore shown and described last, composed of the parts A and B, having openings *a* and *b*, the part A having channel F and the part B the recess E, the plate C, tapering in thickness and having the two sets of openings *n* and *n'*, and the pins *d* and *d'*, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK FRUCTUOSO MARTIN.

Witnesses:

ROBERT T. MOUNTAIN,
SUMNER D. YORK.