(No Model.)

L. E. MOORE.

BOOT OR SHOE SOLE.

No. 305,834. Patented Sept. 30, 1884.

Fig. 1.

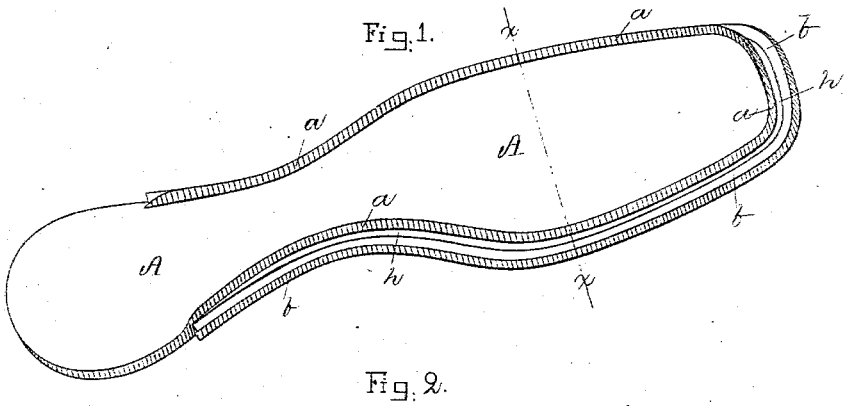


Fig. 2.

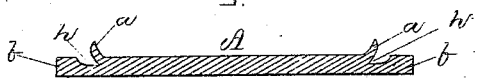
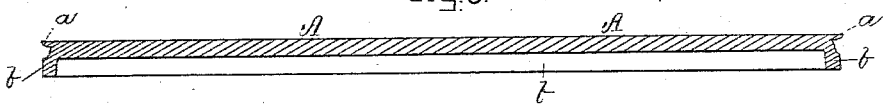


Fig. 3.



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UNITED STATES PATENT OFFICE.

LEE E. MOORE, OF BOSTON, MASSACHUSETTS.

BOOT OR SHOE SOLE.

SPECIFICATION forming part of Letters Patent No. 305,834, dated September 30, 1884.

Application filed June 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, LEE E. MOORE, of Boston, county of Suffolk, State of Massachusetts, have invented a new and useful Improvement in Soles for Boots or Shoes, of which the following is a full, clear, concise, and exact description, taken in connection with the drawings, accompanying and forming a part hereof, of which—

Figure 1 is a perspective view of a sole-blank channeled. Fig. 2 is a cross-section on line *x x*, Fig. 1. Fig. 3 is a lengthwise section of a sole fitted for the last, showing the entire edge of the blank turned down, substantially at right angles to the body thereof, to form a flange.

My invention consists of a sole fitted in the peculiar manner shown and hereinafter described and ready for use in the construction of a boot or shoe.

The manner of fitting the sole will be readily understood, reference being had to the accompanying drawings. A flat blank, A, is rounded out to the proper shape of a sole, but somewhat larger than is required to fit the last. It is then cut or channelled inwardly parallel to and within the edge, as shown at *h*, Figs. 1 and 2, thus forming the feather *a*, which becomes the edge of the completed sole. The outer edge of the channel *h* is shown rounded, Fig. 2, producing a corresponding round on the feather, which is generally desirable; but it will be obvious that in some cases a square-edged feather may be preferred, which may easily be obtained by cutting a square-edged channel. The margin *c*, or that portion of the blank outside of the edge of the feather, and also that portion of the stock beneath the cut or channel, are then bent or turned away from the feather, and by the operation of a machine adapted to do this work the flange *b* thus formed is made to assume and retain a position substantially at right angles to the sole-surfaces. It will thus be seen that the flange *b* is wider than the feather *a*, being approximately equal in width to the width of the feather plus the width of the margin *c*.

My sole is designed for use in boots or shoes the uppers and soles of which are united by sewing on a wax-thread machine provided with the attachment shown and described in Letters Patent to James H. Cutter, dated the 10th day of April, 1883, No. 275,365. In preparing the work for the machine the upper is brought over the feather *a* and against the flange *b*, and the stitches pass through the flange and upper (or flange-upper and welt, if a welt be used) at the base of the flange where it joins the sole.

In the operation of sewing, the flange, above which lies the edge of the upper, projects between the work-rest and guide of the machine and the presser-foot, the flange, constructed as hereinbefore described, being of sufficient width to enable the presser-foot to hold the work securely on the work-rest and guide, thus steadying the work and assisting the operator in manipulating the shoe, thereby rendering it possible to place the line of stitches more accurately and with greater speed than heretofore on wax-thread machines using a straight needle.

The hereinbefore-described sole may be applied to a boot or shoe in the manner shown by my Patent No. 275,248, dated April 3, 1883. It will, however, be obvious that as my present sole has a flange of greater width relative to the feather (the width of which latter it is desirable to limit) than the sole shown in said patent, the presser-foot is enabled to hold the work on the work-rest and guide more securely than was possible with my former sole. The sewing may accordingly be done better and more rapidly.

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

A boot or shoe sole made from a rounded-out blank cut inwardly from the edge on its upper surface to form a feather, *a*, leaving a margin the normal thickness of the sole, or approximately so, said edge and the cut or channelled portion forming a flange, *b*, wider than the said feather, said flange being turned away from the said feather and made to assume and retain a position substantially at right angles to the sole-surfaces, as set forth.

LEE E. MOORE.

Witnesses:
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