

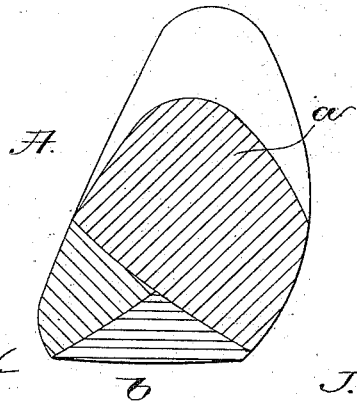
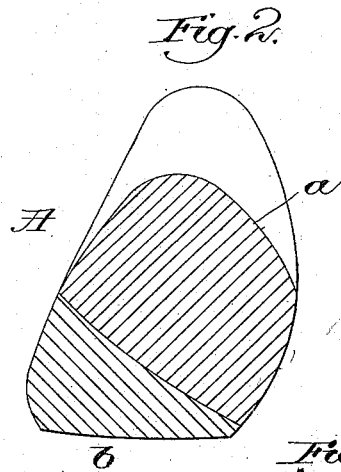
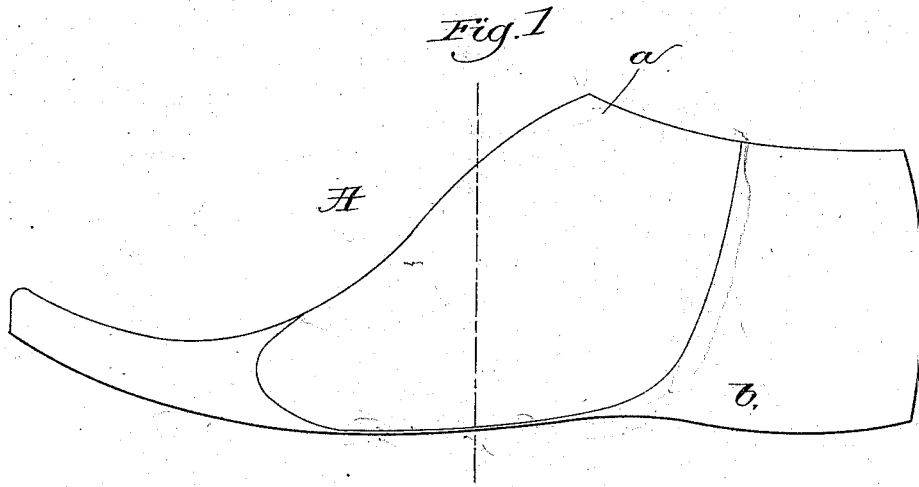
(No Model.)

J. S. TURNER.

LAST.

No. 382,338.

Patented May 8, 1888.



Witnesses.
Fred. S. Greenleaf
John F. C. Prindle

Inventor.
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UNITED STATES PATENT OFFICE.

J. STANLEY TURNER, OF ROCKLAND, MASSACHUSETTS.

LAST.

SPECIFICATION forming part of Letters Patent No. 382,338, dated May 8, 1888.

Application filed April 12, 1887. Serial No. 234,490. (No model.)

To all whom it may concern:

Be it known that I, J. STANLEY TURNER, of Rockland, county of Plymouth, and State of Massachusetts, have invented an Improvement in Lasts, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

In the manufacture of welted boots and shoes it has been common to last the shoe in the usual manner, attach a welt, and then secure the outer sole to the welt by a line of stitches. In securing the outer sole to the welt by a sewing-machine—such, for instance, as the Campbell—the last must be withdrawn in order to permit the needle to penetrate the outer sole substantially vertically along the inner side of the shank of the boot or shoe, and after the outer sole has been stitched the last must again be inserted into the shoe in order that the shoe may be passed through subsequent processes usual to its completion. The removal and insertion of the last, as stated, besides adding to the expense of manufacturing in the value of time consumed by the employé, oftentimes injures or destroys the lining of the boot or shoe.

This invention has for its object to construct a last which may be retained within the boot or shoe when the outer sole and welt are being connected together.

Every last has what is called a "block," constituting a part of the top of the last, it being movable. In accordance with this invention, the last-block, instead of being cut wholly from the top of the last, as heretofore, is cut from the main body of the last, mainly upon the long or inner side of the shank. The lower edge of the last-block extends substantially to the edge of the bottom of the last, so that when the last-block is removed the main body of the last remains within the boot or shoe, and the upper can be pushed back along the inner or long-shank side of the last in such manner as to expose the edge of the welt and outer sole sufficiently for a vertical or straight needle to penetrate the welt and then the outer sole.

Figure 1 in side elevation shows a last embodying this invention; Fig. 2, a cross-section

of the last shown in Fig. 1, taken on the dotted line *xx*; and Fig. 3, a modification to be referred to.

The last *A* is and may be made of any usual shape, size, or material. The last-block is formed by removing or cutting from the main body *b* of the last a portion, as represented by *a*, the line of the cut being at an angle with relation to the plane of the bottom of the last, as best shown in Fig. 2, the line of cut extending from the bottom of the last, or nearly so, upon the inner or long-shank side of the last upward to a point near the instep portion of the last, but upon the opposite side thereof.

The block *a*, formed, as described, to form the inner or long-shank side of the last, when removed or displaced, permits the upper of the boot or shoe to be pushed back from immediately over the main body *b* of the last, entering the space left by the removal or displacement of the last-block, to thereby expose the welt and outer sole upon the long-shank side of the shoe to the action of the needle of a shoe-sewing machine.

In the manufacture of a boot or shoe, when it is desired to secure an outer sole or to stitch the outer sole or welt together, the last-block *a* will be removed or displaced to permit the needle of the sewing-machine to penetrate the edge of the outer sole entirely about the fore part and the shank portion of the boot or shoe.

I may, if desired, cut the last-block *a* from the main body somewhat differently from that shown in Fig. 2—such, for instance, as shown in Fig. 3—in which instance both sides of the last are cut away to be removed as a component part of the last-block.

By cutting off the block in the manner described the strength of the main body of the last is materially increased.

I claim—

1. In a last, the main body portion, combined with a last-block cut from the main body portion upon the inner or long-shank side thereof, substantially as and for the purposes specified.

2. In a last, the main body portion, combined with a last-block cut from the side of the main body portion on a line at an angle with relation to the plane of the bottom of the last,

the said dividing-line upon the long-shank side of the last substantially coinciding with the bottom of the last, as set forth.

3. A last having a displaceable portion at its long-shank side, to operate as and for the purposes set forth.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

J. STANLEY TURNER.

Witnesses:

BERNICE J. NOYES,
F. L. EMERY.