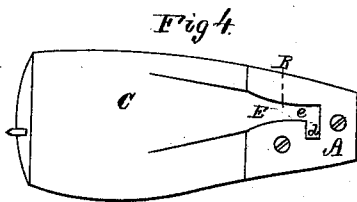
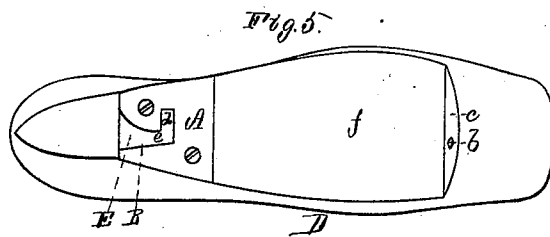
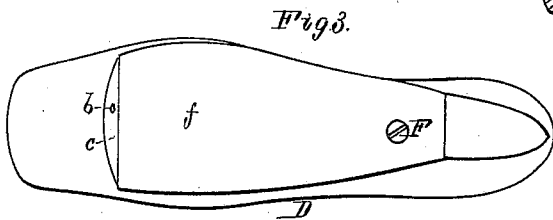
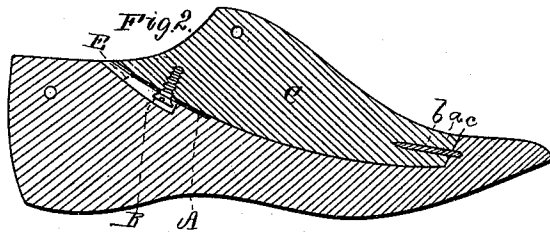
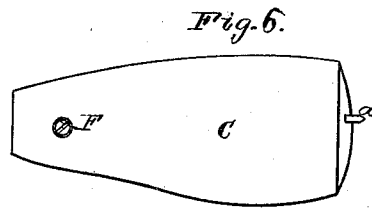
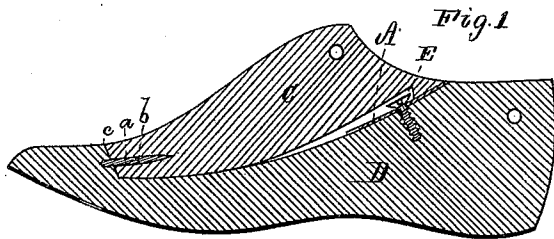


J. M. BARNETT.

LASTS.

No. 177,192.

Patented May 9, 1876.



Witnesses

S. V. Piper.

L. H. Miller.

John M. Barnett.

by his attorney

R. H. Eay.

UNITED STATES PATENT OFFICE.

JOHN M. BARNETT, OF LYNN, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND JOSEPH N. SMITH, OF SAME PLACE.

IMPROVEMENT IN LASTS.

Specification forming part of Letters Patent No. **177,192**, dated May 9, 1876; application filed April 5, 1876.

To all whom it may concern:

Be it known that I, JOHN M. BARNETT, of Lynn, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Boot and Shoe Lasts; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figures 1 and 2 are longitudinal sections of two lasts provided with my invention applied to each, the locking-plate and mouth-groove in one case being fixed to the instep-piece, and in the other to the body portion, of the last. Fig. 3 is a top view of the body portion, and Fig. 4 a bottom view of the instep-piece, of the last, in which the locking-plate is attached to the movable instep-piece. Fig. 5 is a top view of the body portion, and Fig. 6 a bottom view of the instep-piece, of a last in which the locking-plate is attached to the body portion.

The object of my invention is to preserve the instep-piece in its normal position, or prevent it from accidentally slipping back in the body part, while the last may be in a shoe.

I am aware that an instep-piece has been made with a dovetailed stud or a tongue dovetailed in section to enter a correspondingly-shaped straight groove made in the body part of the last, and therefore I do not claim such.

I am also aware that, instead of the straight dovetailed groove, a metallic plate having a straight slot in it has been used, there being to the instep-piece a headed stud or screw to enter such groove, all being as shown in the United States Patent No. 152,210

These modes of connecting the last-body and instep-piece differ from mine, in the groove or slot being straight and not right-angular. My invention not only holds the instep-piece down in place, but prevents it from accidentally working back on the last-body, during the process of making a shoe on the last.

In carrying out my invention I make use

of a metallic plate, A, having a right-angular groove or slot, B, made in it, from and to open out of one end of it, in the manner as shown, and such plate I fasten, by screws or other means, either to the movable instep-frame C or to the body part D of a last, in which case I arrange the plate with its opening in reference to such parts, in manner as represented, and so that its slot shall come over or partially cover, in manner as shown, a tapering frame, E, made in the part C or D, to which the plate may be fastened. With such right-angular slotted plate I employ a screw or stud, F, provided with a head larger in diameter than the shank, and this screw or stud I arrange in the body part D, in case of the plate A being fixed to the instep-piece; or, when the said plate A is fixed to the body part D, I arrange the screw or stud in the instep piece, the arrangement either way being as represented in the drawings.

I prefer to provide the instep-piece, at its toe, with a stud, *a*, to extend from it, and into a corresponding cavity, *b*, in that part of the body portion against which the said toe is to abut when the instep-piece and body part are engaged.

From the above it will be seen that, in order to lock the instep-piece to the body part of the last, such instep piece should be placed on such body part, and move down its inclined surface *f* to the abutment *c*, and next moved laterally, so as to carry the shank of the screw or headed stud F into the lateral portion *d* of the right-angular groove of the locking-plate. This latter part of the groove, co-operating with the screw or stud, will prevent the instep-piece from starting or slipping backward. In order to remove the instep-piece from the body of the last, such instep-piece has first to be moved a little sidewise, until the stud may enter the main portion *e* of the slot B. This having taken place, the instep-piece may be drawn backward and off the body part.

I claim—

1. In combination with a last-body, D, and

its movable instep-piece C, the headed stud or screw F and the locking-plate A, having the open and angular slot B, all being essentially as shown and described.

2. In combination with a last-body, D, and its movable instep-piece, C, a headed stud or screw, F, an open channel or groove, E,

and a locking-plate, A, provided with an open and angular groove, B, all being substantially as set forth.

JOHN M. BARNETT.

Witnesses:

R. H. EDDY,

J. R. SNOW.