

(No Model.)

2 Sheets—Sheet 1.

A. A. BROWN.

MANUFACTURE OF BOOTS OR SHOES.

No. 300,205.

Patented June 10, 1884.

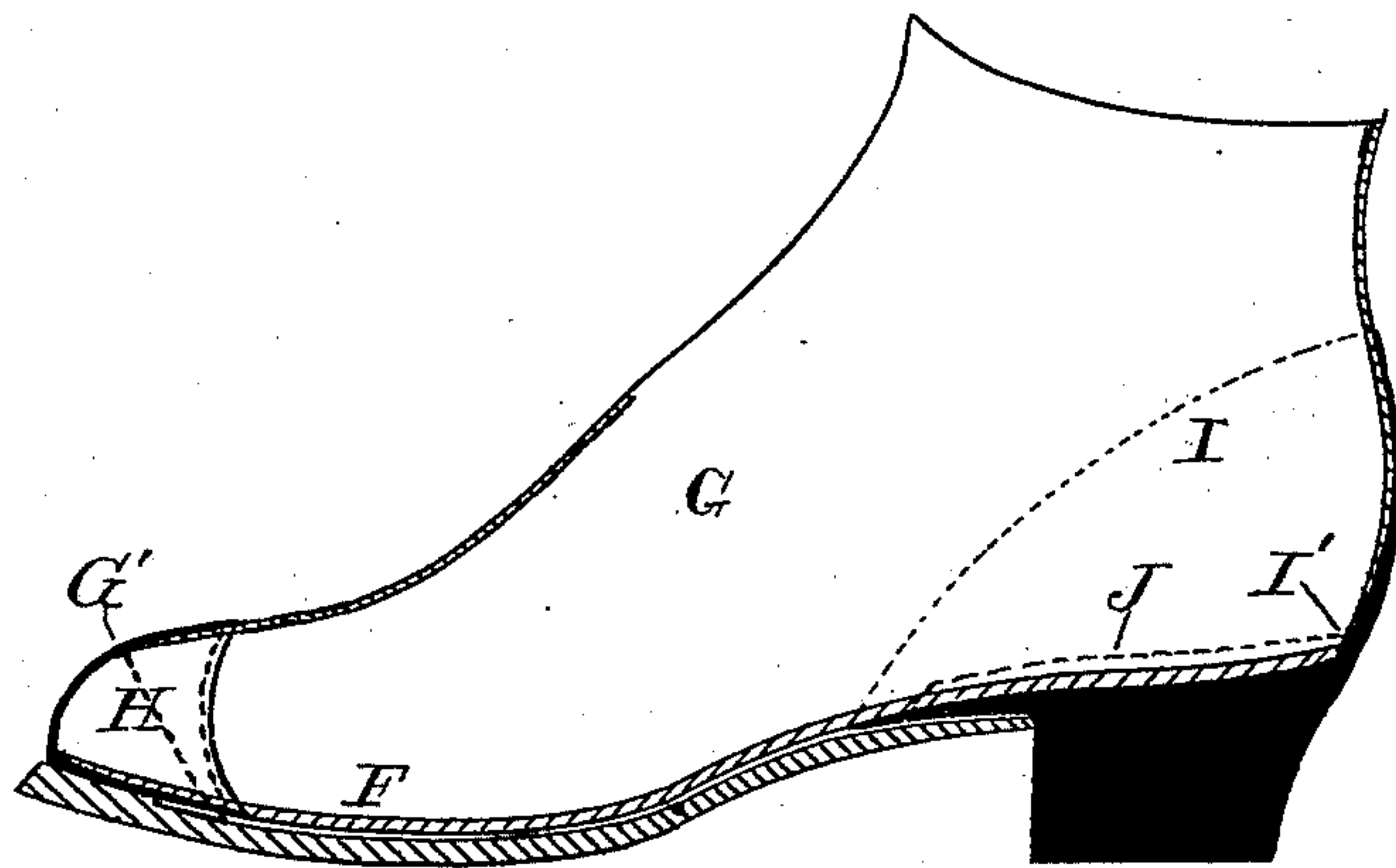


Fig. 2.

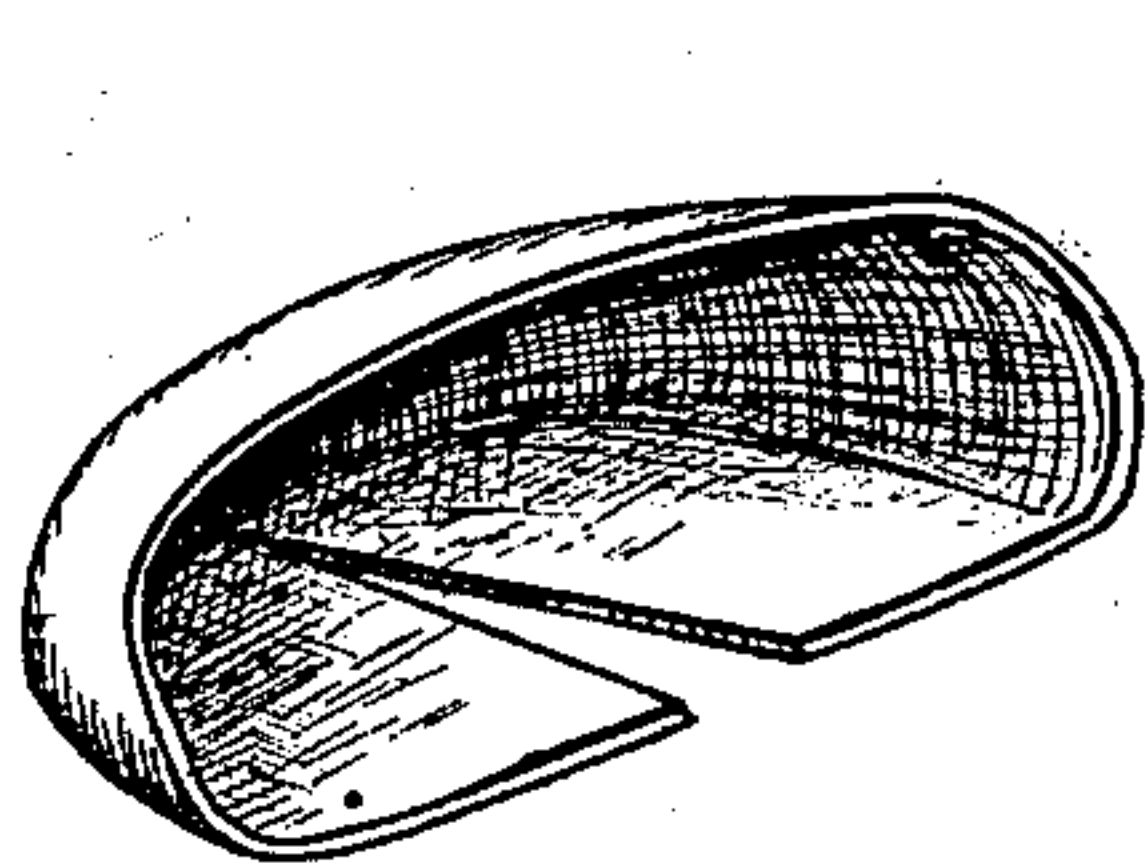


Fig. 5.

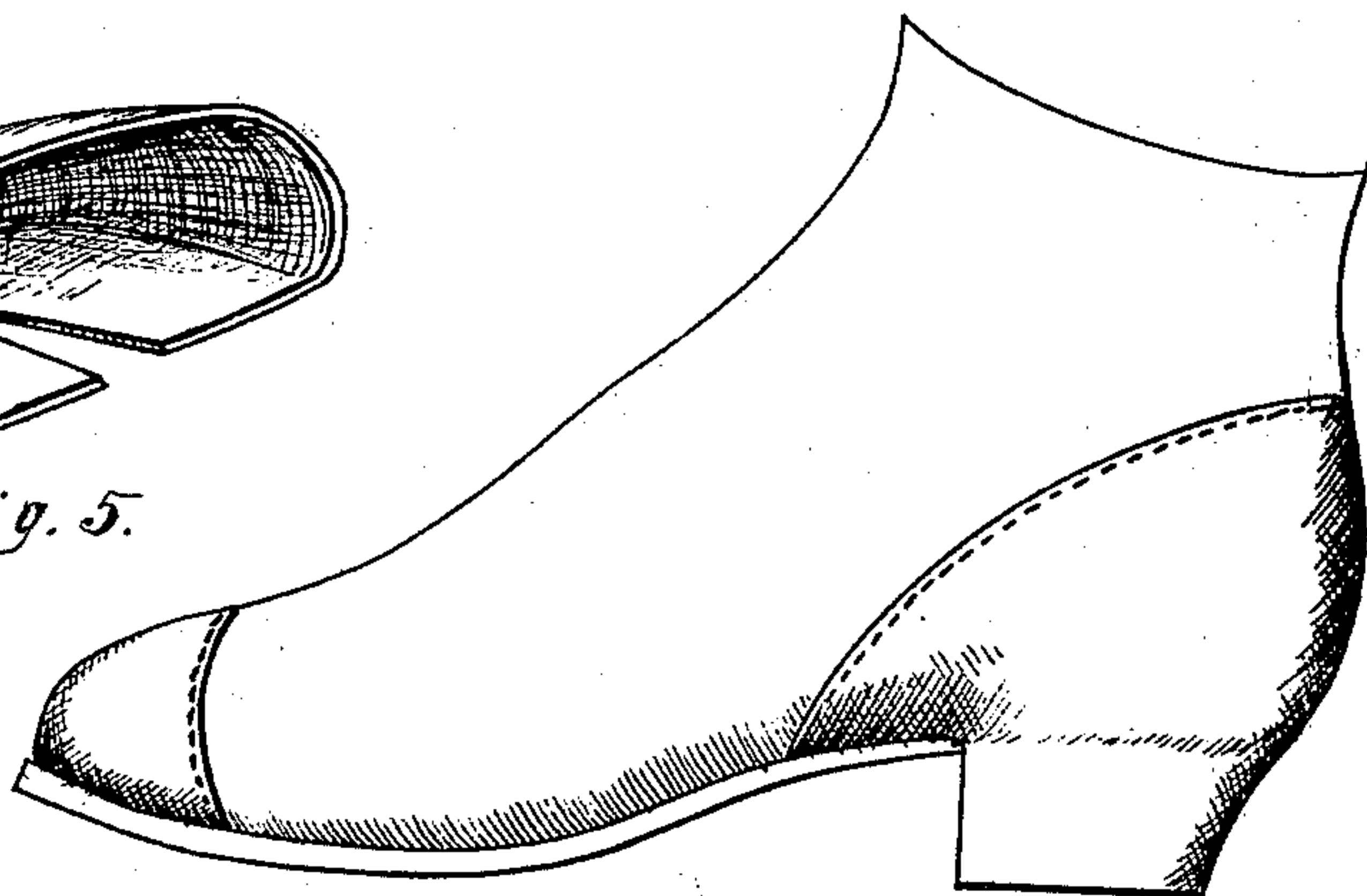


Fig. 4.

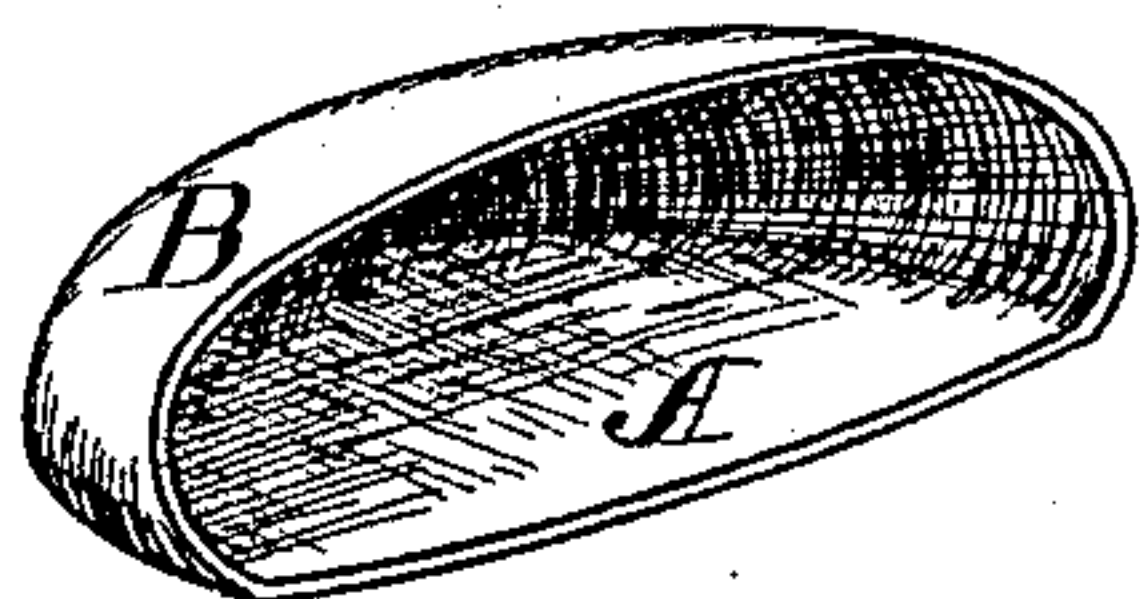


Fig. 6.

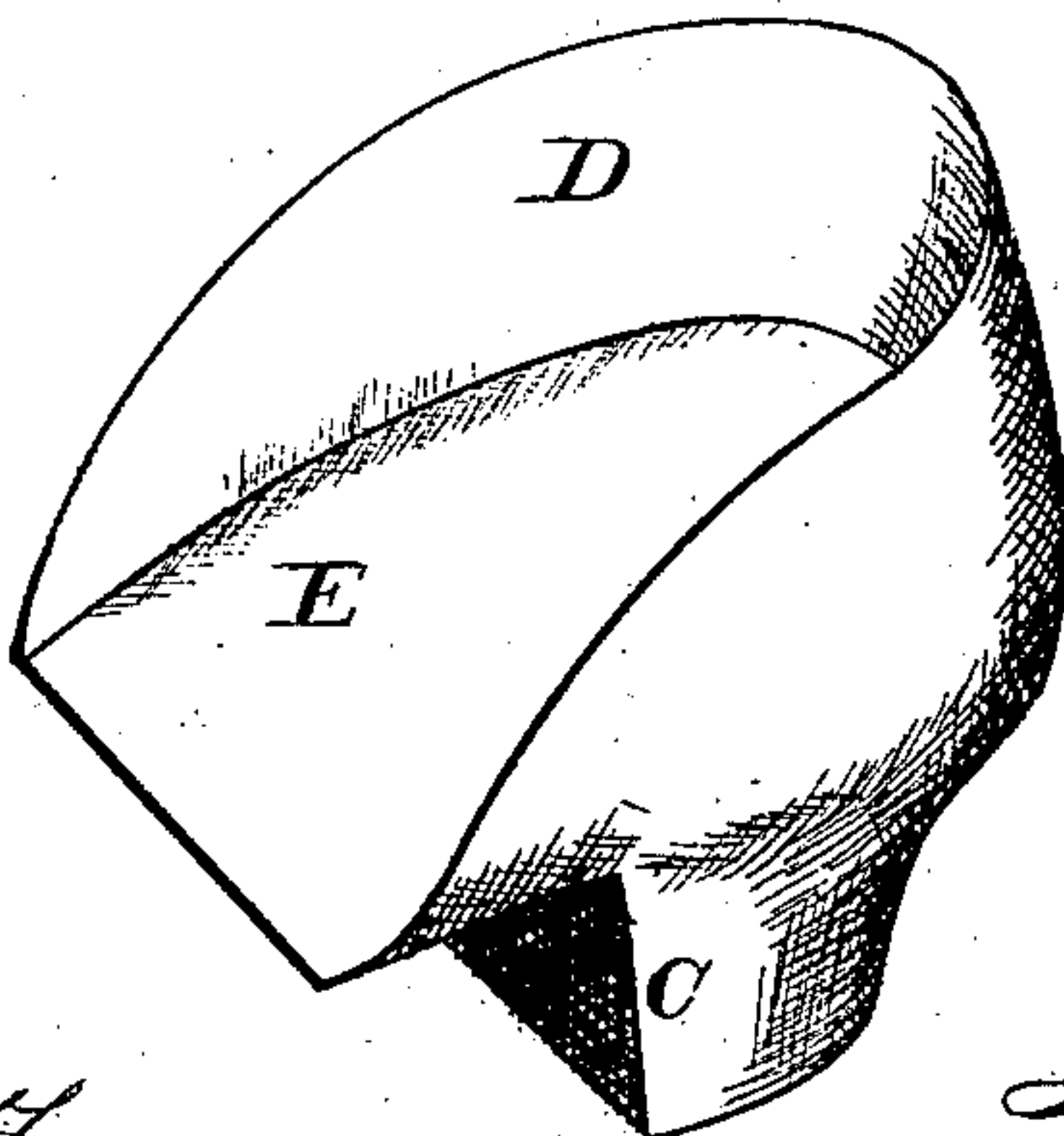


Fig. 3.

WITNESSES:

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Alice Brennan

INVENTOR

A. A. Brown

By

J. S. Zerk
Attorney.

(No Model.)

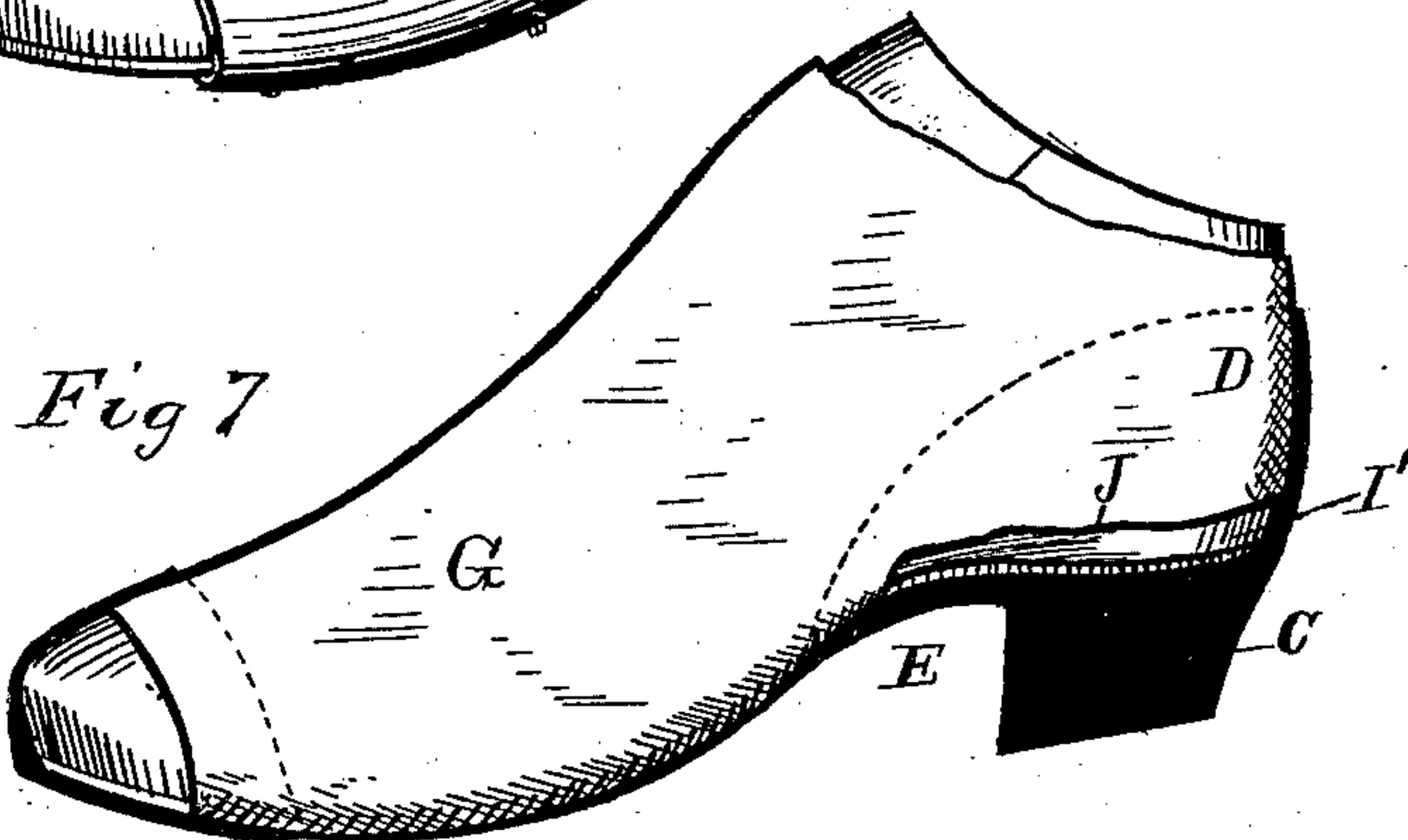
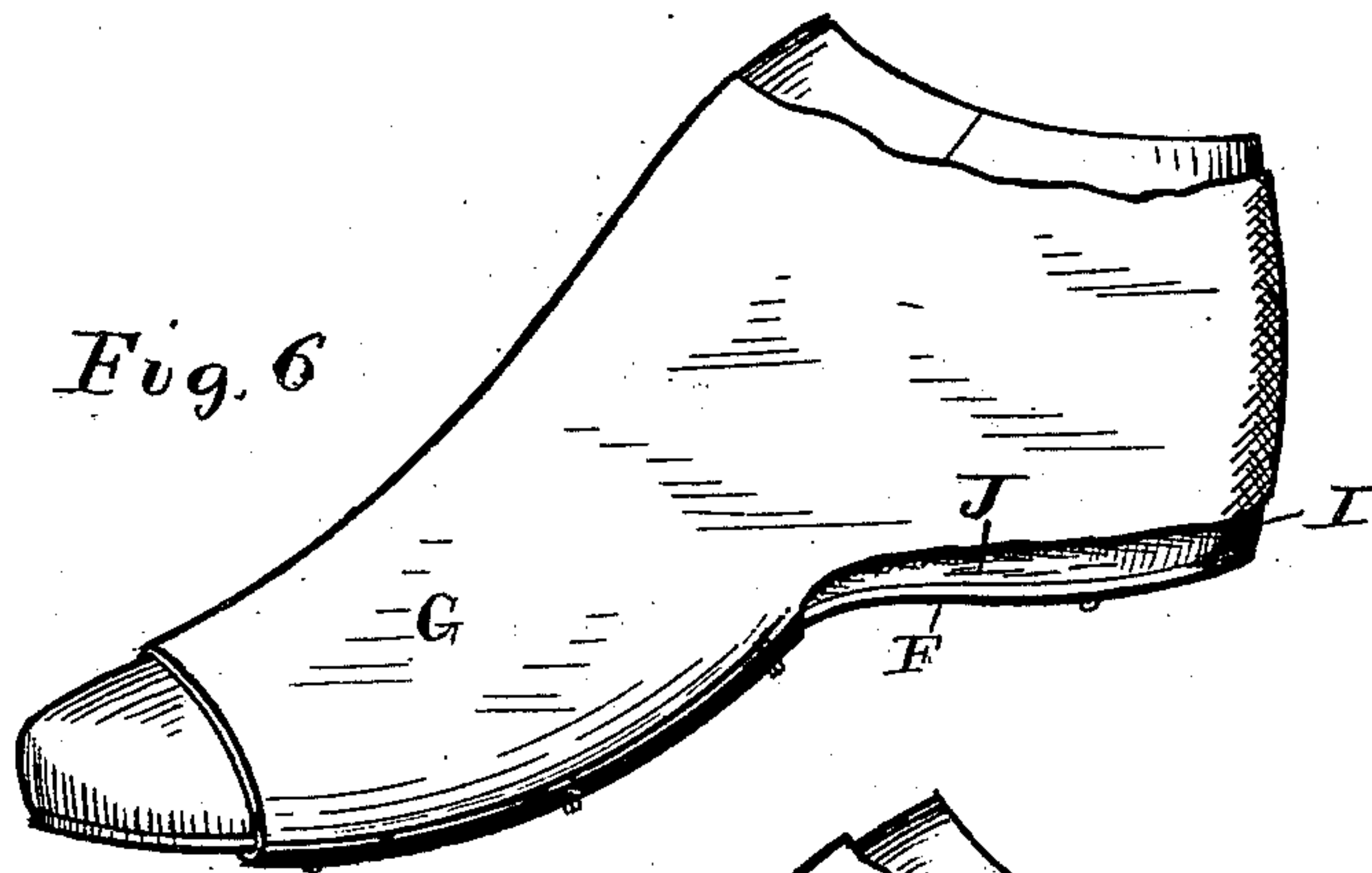
2 Sheets—Sheet 2.

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WITNESSES:

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UNITED STATES PATENT OFFICE.

AARON A. BROWN, OF CINCINNATI, OHIO.

MANUFACTURE OF BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 300,205, dated June 10, 1884.

Application filed June 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, AARON A. BROWN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Heels and Toes, which improvement is fully set forth in the following specification and accompanying drawings.

The object of this invention is to provide a toe and heel formed of vulcanized rubber, pressed material, or other durable material, each in such a form as to be readily applied to boots or shoes, thereby doing away with labor of stretching the leather over the toe and heel, and fastened to the insole.

Figure 1 is a side view of my shoe. Fig. 2 is a vertical central section of the same. Fig. 3 is a perspective view of the heel detached. Fig. 4 is a perspective view of the toe detached. Fig. 5 is a perspective view of the toe detached, the floor of which is provided with a longitudinal central opening or slot; Figs. 6 and 7, side elevations showing how the vamp is cut away at the heel and toe and applied to the last.

The present invention relates to improvements in heels and tips for shoes; and it consists in providing molded tips and heel-pieces, which are secured thereto in the process of manufacture before the outer sole is placed on the shoe, and in cutting away the upper or vamp around the toe and heel, thereby obviating the necessity of stretching the vamp over the heel and toe of the last. The vamp or upper is formed in the usual manner, except that the forward part is cut away transversely across the toe. The rear part of the upper is cut away around the heel, so that when the vamp is lasted the part cut away will just come down to the edge of the insole without being lasted thereto.

Fig. 4 represents a tip molded or cast in one piece, A being the floor of the toe, and B the upper portion. This is constructed exteriorly of the shape and appearance of the toe of a shoe. Within, the shape is made to conform with the toe of the last, or large enough so that when the vamp G is lasted to the inner sole, as shown in Fig. 2, the tip can be placed over the forward end of the last, so that it embraces the sole and vamp. The floor A of the tip thus extends under the inner sole and the lasted part of the vamp, and also covers the vamp around the upper side.

In Fig. 3, C represents the heel-piece, having counter D and shank E, and is made in like manner as the toe-piece.

In constructing the shoe, the insole F is formed in the usual manner, and the upper G lasted to the insole along the sides. The toe-piece is then placed on the last and secured in position to the insole and forward part of the vamp by stitching, or in any other suitable manner. The vamp extends forward far enough under the roof of the toe-piece to allow of its being secured thereto. The vamp of the rear part of the shoe is not lasted around to the inner sole, but terminates at the inner sole, as designated by line I', and the lower edge, as shown by the dotted line J, is above the inner sole, along and up to the forward edge of the floor E, where it is placed around the inner sole, and lasted thereto in the usual manner. The heel-piece C is then placed over the vamp and inner sole, and secured in the same manner as the toe-piece.

It will readily be seen that with the heel and toe pieces formed in the herein-described manner, simplicity and ease of manufacture, with the durability and efficiency of wear, are greatly increased.

I am aware it is not new to provide a molded tip for the forward part of a shoe, and I disclaim this, broadly.

I am also aware that it is not new to manufacture shoes with molded heel-pieces, such having heretofore been made of metal for the purpose of strengthening the shank, and my invention has therefore reference, in this respect, to the heel-piece molded in one piece of gutta-percha, or other pliable or flexible material, of the same general color as the body of the shoe, the whole to be so arranged as to enable the manufacturer to place the heel-piece on the shoe in the process of manufacture, and sew through the base or floor of the heel-piece, or drive pegs through the same, which could not be done if the piece were made of metal.

Heretofore, in the manufacture of shoes with tips and heel-pieces, the vamp, both at the toe and at the heel, was brought down over the last and lasted to the sole.

It will be observed that the vamp G is not lasted to the sole around the toe portion, as it terminates at the point indicated by G' in a feather-edge.

What I claim as new is—

1. In a boot or shoe, the combination of the upper cut away at the toe and heel, and the insole, with tip and molded heel pieces placed
5 over the upper and sewed to the same along their edges and secured to the sole, substantially as described.

2. The herein-described process of manufacturing shoes, which consists in preparing
10 the upper with toe and heel portions thereof cut away, and in lasting said vamp or upper to the inner sole in the usual manner, except at the toe and heel, and in then placing on the toe and heel suitable molded pliable pieces,

which cover both the upper and the sole, and 15 in afterward placing on and sewing or pegging the outer sole to the insole, and to the upper and heel and toe pieces, and in sewing the toe and heel pieces along their upper edges to the vamp or upper, substantially as de- 20 scribed.

In testimony that I claim the foregoing I have hereunto set my hand, this 25th day of May, 1883, in the presence of witnesses.

AARON A. BROWN.

Witnesses:

J. S. ZERBE,
C. H. JONES.