

(No Model.)

E. H. BUCKLEY.

MANUFACTURE OF BOOTS AND SHOES.

No. 260,935.

Patented July 11, 1882.

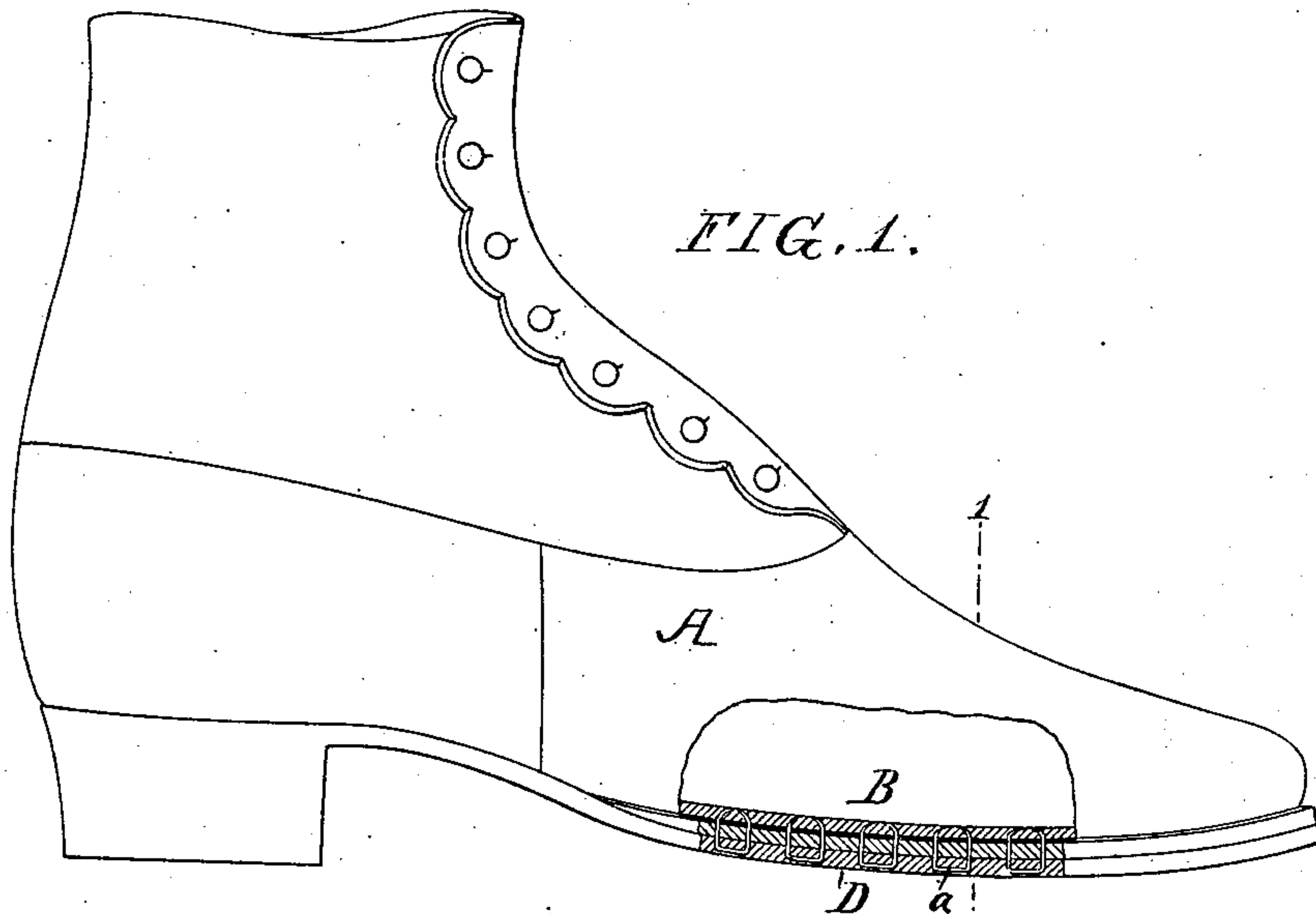


FIG. 6.

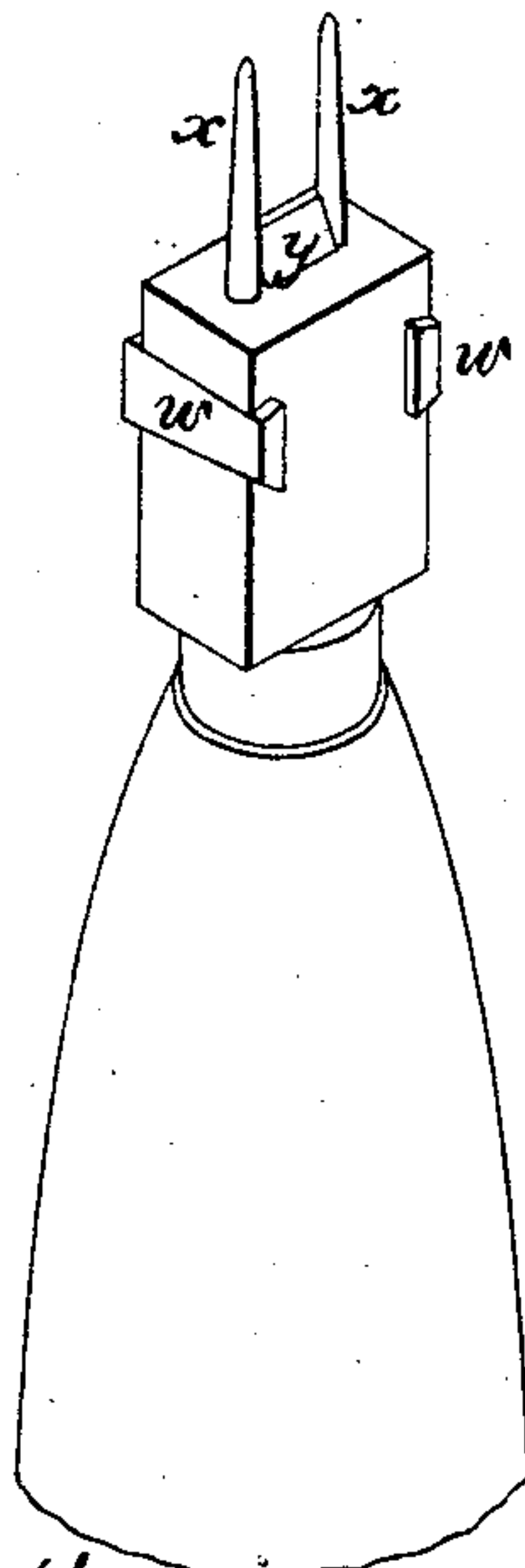


FIG. 2.

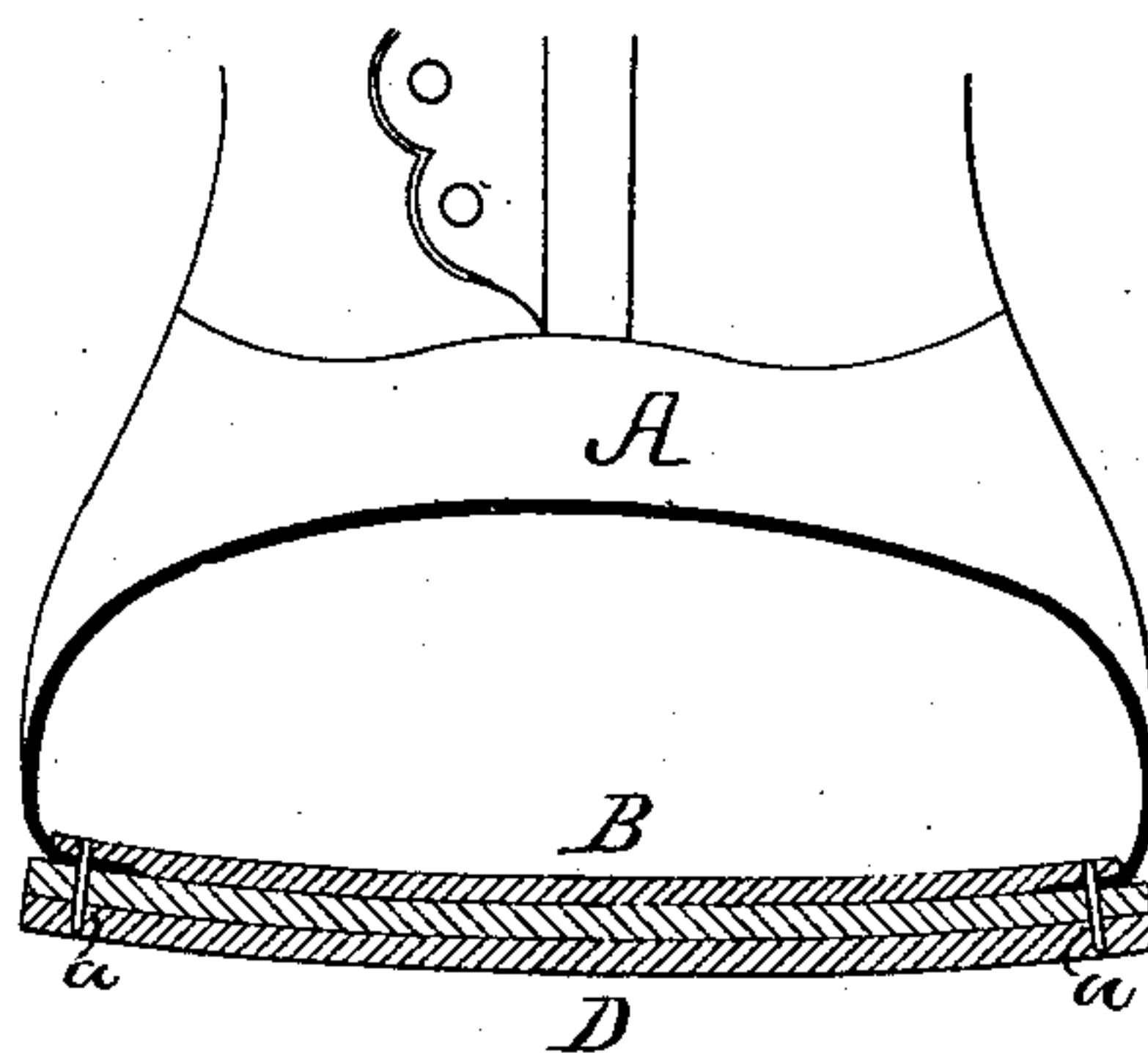


FIG. 5.



FIG. 3.

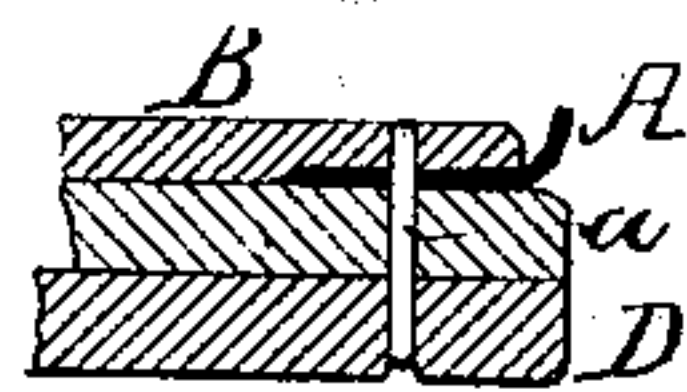
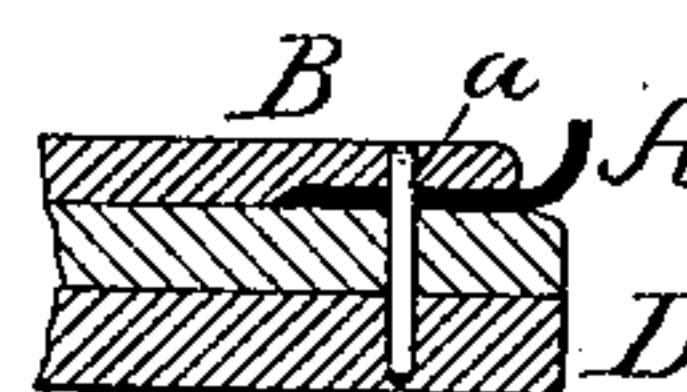


FIG. 4.



Witnesses:
James F. Tobin
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UNITED STATES PATENT OFFICE.

EDWARD H. BUCKLEY, OF PHILADELPHIA, ASSIGNOR OF TWO-THIRDS TO JOSEPH S. SMITH, OF COLMAR, AND J. HENRY RADEY, OF PHILADELPHIA, PENNSYLVANIA.

MANUFACTURE OF BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 260,935, dated July 11, 1882.

Application filed March 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. BUCKLEY, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Boots and Shoes and in the Manufacture Thereof, of which the following is a specification.

My invention relates to certain improvements in that class of boots and shoes in which the sole and upper are secured together by staples driven through the sole and upper and clinched upon the inside, the object of my improvements being to produce a neat boot or shoe of this character.

In the accompanying drawings, Figure 1 is a side view, partly in section, of a shoe made in accordance with my invention; Fig. 2, a transverse section on the line 1 2; Figs. 3 and 4, enlarged sections of parts of the shoe, showing one of the features of my invention; Fig. 5, a view of one of the staples used for securing the sole and upper together; and Fig. 6, a view of an awl adapted for use in carrying out my invention.

In Figs. 1, 2, 3, and 4, A represents the upper, B the inner sole, and D the outer sole, of the shoe, the edge of the upper being inserted between the outer and inner soles, as usual. The upper is secured to the soles by means of staples *a*, driven through from the outside of the sole D and clinched on the inside of the inner sole, B. Shoes have heretofore been made in this way; but in such shoes the heads of the staples rested directly upon the surface of the outer sole, D, and were arranged to overlap each other, an objectionable appearance being thus presented.

In carrying out my invention I channel the portion of the sole which is to receive the heads of the staples, so that when the staples are driven the heads of the same will be sunk in the channel, as shown in Fig. 3, the leather on the opposite sides of the channel being then pressed inward by a suitable instrument, so as to cover the heads of the staples, as shown in Fig. 4.

A continuous channel may be formed around the sole D, near the outer edge of the same, before driving the staples; but in order that the sole shall not be weakened any more than is absolutely necessary, I prefer to channel only those parts of the sole which actually receive

the heads of the staples, and I propose to thus channel the sole at the same time that the openings for the legs of the staples are formed therein, the awl which I use for this purpose having two points, *xx*, between which is a cutting-blade, *y*, as shown in Fig. 6, so that when the awl is driven to the proper depth said cutting-blade will form in the outer surface of the sole D an incision extending from one hole to the other, and of a proper depth for the reception of the head of the staple.

It will be understood that a metallic last is inserted in the shoe prior to the driving of the staples, so as to insure the clinching of the latter on the inside of the insole B.

The points *x* of the awl are preferably held in the stock by wedge-blocks *w*, so that they can be removed and new ones substituted therefor when the old ones become worn or broken.

It should be understood, however, that the instrument shown in Fig. 6 forms no part of my present invention, but is reserved as a subject for a separate application for a patent.

I claim as my invention—

1. As an improvement in uniting the upper and soles of a boot or shoe, the method herein described, which consists in channeling the outer sole, perforating the parts to be united, driving staples through said parts, embedding the heads of the staples in the prepared channel, clinching the ends of the said staples within the shoe, and finally covering the embedded heads of the same, all substantially as set forth.

2. That improvement in the art of uniting the upper and soles of boots and shoes which consists in channeling separate portions of the outer sole-surface of suitable length to receive the staple-head, perforating the parts to be united, driving the staples through the parts from the outside, embedding the heads in such prepared channels, and clinching the staple ends upon the insole, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD H. BUCKLEY.

Witnesses:

HARRY DRURY,
HARRY SMITH.