

(No Model.)

W. B. ARNOLD.
BOX TOE.

No. 421,064.

Patented Feb. 11, 1890.

Fig. 1.

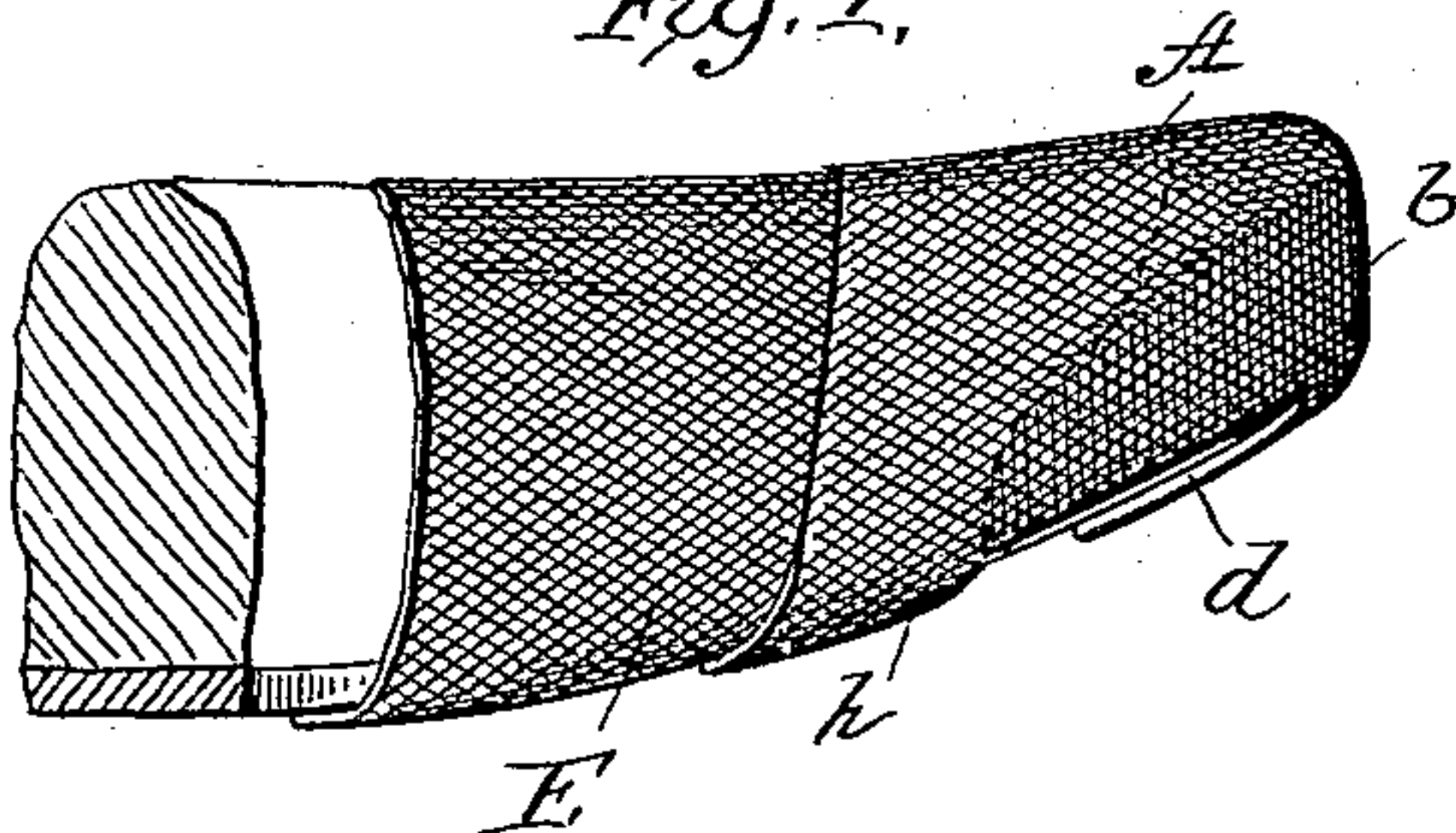


Fig. 3.

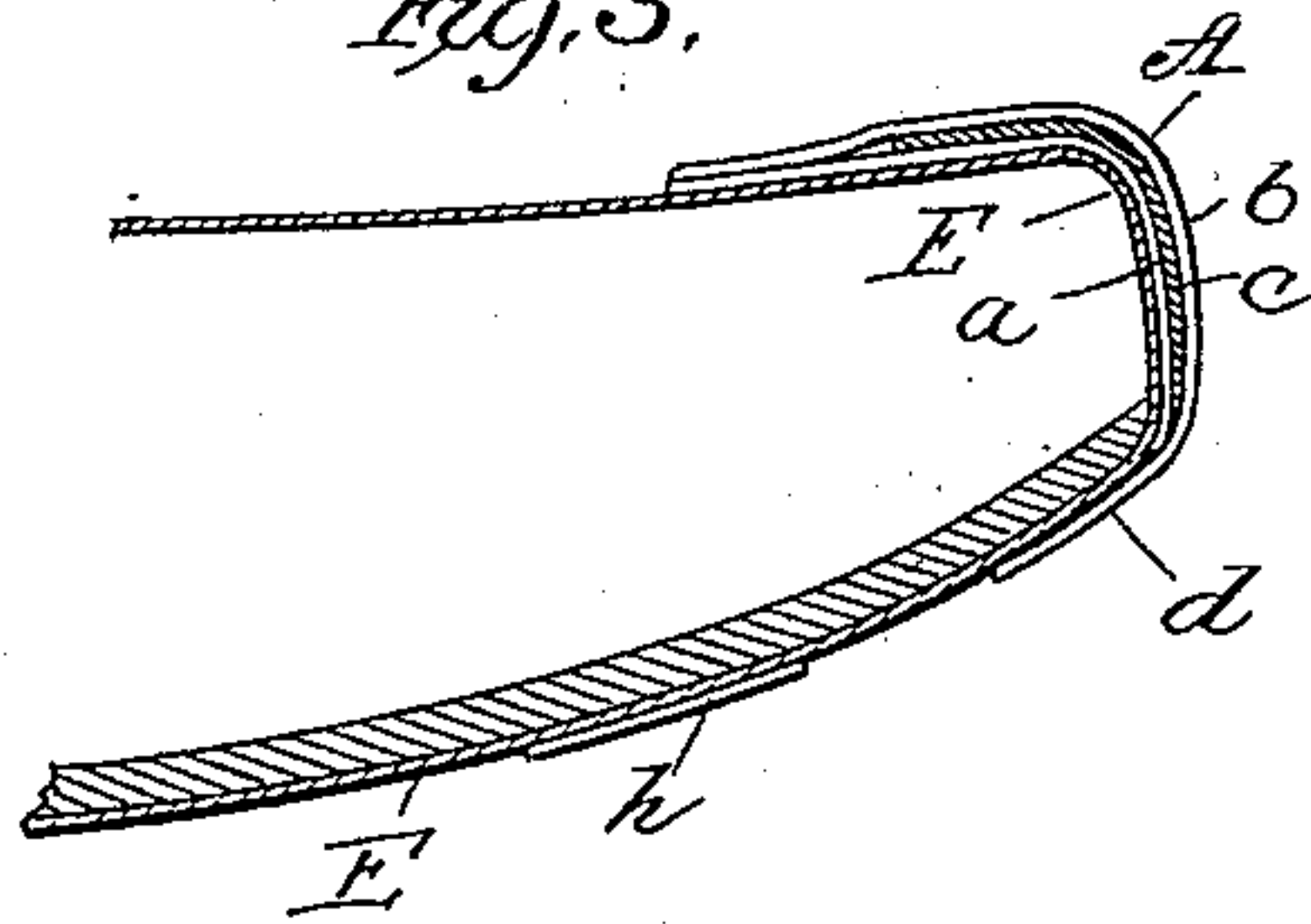


Fig. 4.

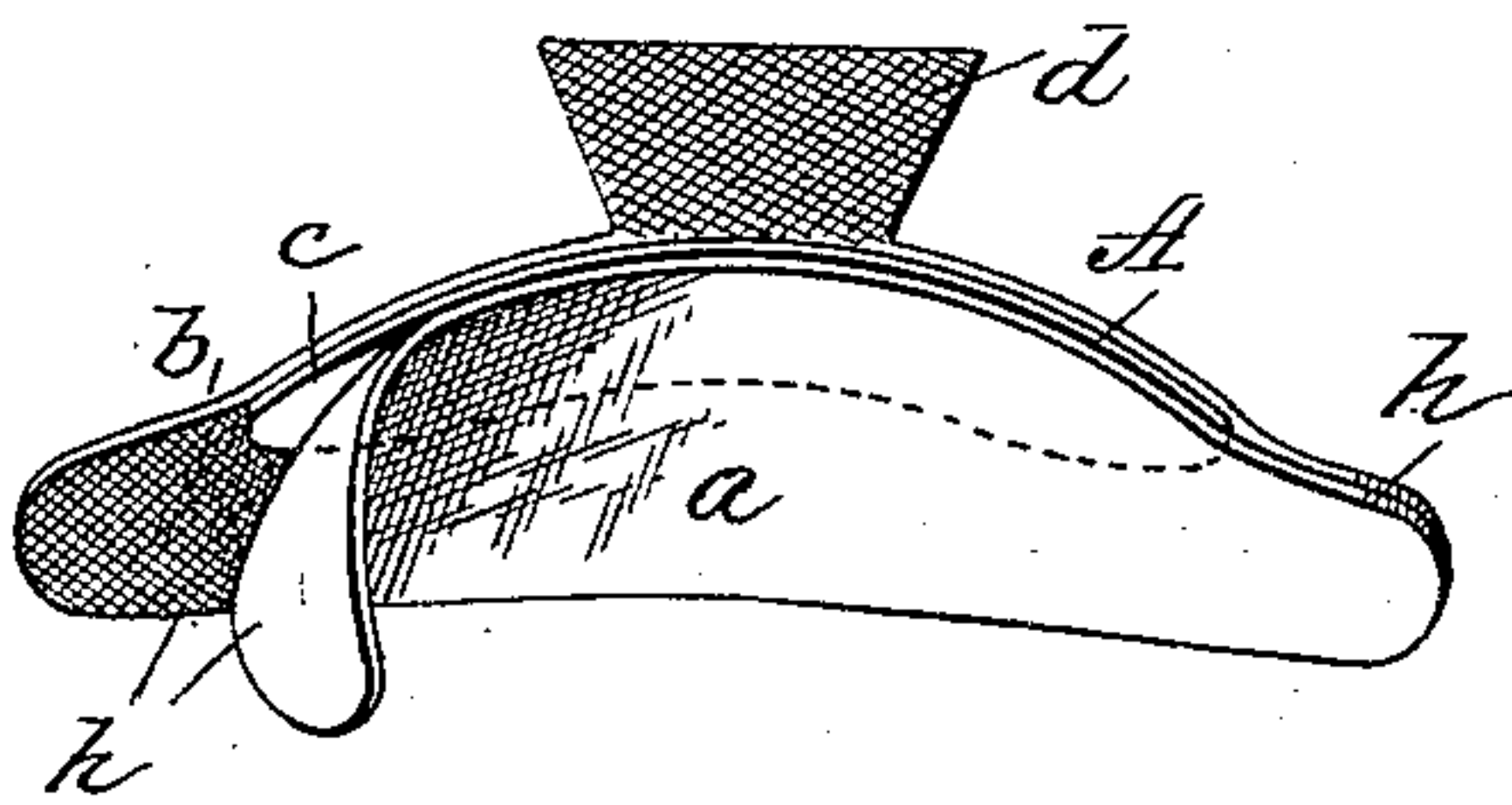
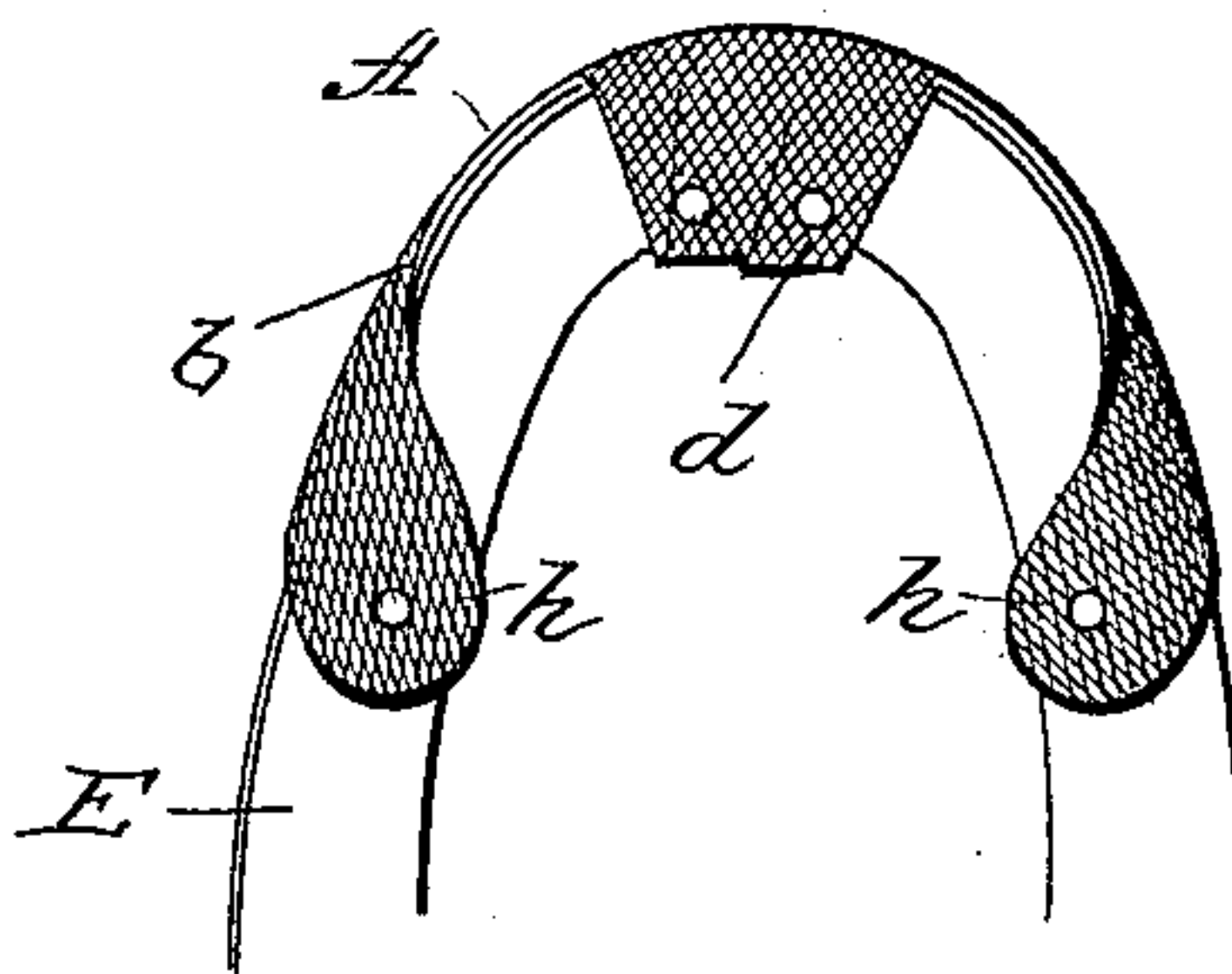


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM B. ARNOLD, OF NORTH ABINGTON, MASSACHUSETTS.

BOX-TOE.

SPECIFICATION forming part of Letters Patent No. 421,064, dated February 11, 1890.

Application filed November 29, 1889. Serial No. 331,996. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. ARNOLD, of North Abington, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Box-Toes for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improvement in "box-toes" for boots and shoes.

It relates more particularly to the means for holding the box in a firmer position and preventing the puckering of the box material with the upper-leather.

It consists, essentially, of an improved box, and, further, of tongues or flaps formed upon the box and adapted to be lapped over the lining against the inner sole and to be fastened in place thereon.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the box. Fig. 2 is a view of the under side of the toe of the shoe with the box in place and the flaps tucked down. Fig. 3 is a central longitudinal section of the same. Fig. 4 is a plan of the under side of the box.

In the drawings, A represents the box. It is of the ordinary shape fitted to the last. It is composed of a lining *a* and a covering *b* of cloth, with an interposed stiffening *c* of leather, and these are glued together. I have shown on the center the covering formed with a tongue *d* projecting sufficiently far to extend under the toe upon the outer surface of the inner sole. On the sides are flaps *h h*, adapted in like manner to extend down under the inner sole. These flaps may be formed on the outer piece alone or both on the inner and outer. In the form shown the lining E

is first brought over the margin and fastened down upon the surface of the inner sole in the ordinary manner. The box A is then placed over it and the flaps are brought over this lining, which has been fixed in place by tacks or any suitable means, and the flaps are nailed down over this. These flaps hold the box against curling or puckering, and at the same time re-enforce the toe and hold the lining securely in place. It will be observed that the flaps are composed of two layers of textile fabric inclosing a stiffener, which are first tacked to the inner sole.

I am aware that end flaps of leather have been used; but in such cases there is liability of bunching when the upper is lasted. Besides when the leather flap is used it is necessary to cut away the substance of the inner sole in order to accommodate the former. The superior flexibility of the textile fabric enables a sufficient amount of stiffener to be given to the box, while at the same time it saves the puckering above mentioned and considerable expense in the cost of the shoe.

I claim as my invention—

1. An improved box-toe consisting of a central stiffening-piece of leather and an outer and inner covering of textile fabric secured thereto, substantially as described.

2. An improved box-toe consisting of a central stiffening-piece and an outer and inner covering of textile fabric secured thereto, the central tongue *d*, and the side flaps *h h*.

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

WILLIAM B. ARNOLD.

Witnesses:

ARTHUR L. EVERSON,
N. JUDKINS.