

(No Model.)

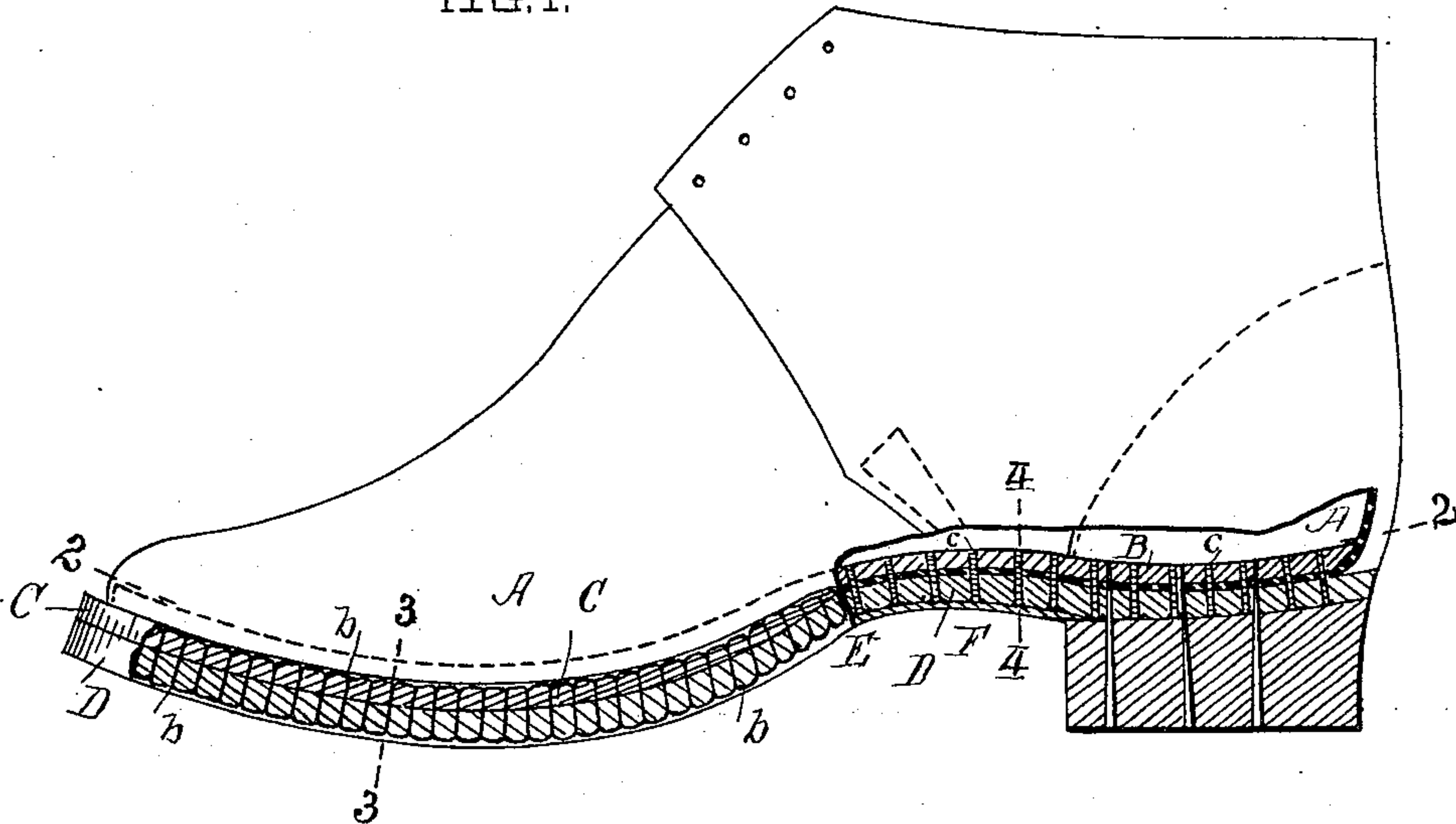
S. F. LIBBY.

MANUFACTURE OF BOOTS AND SHOES.

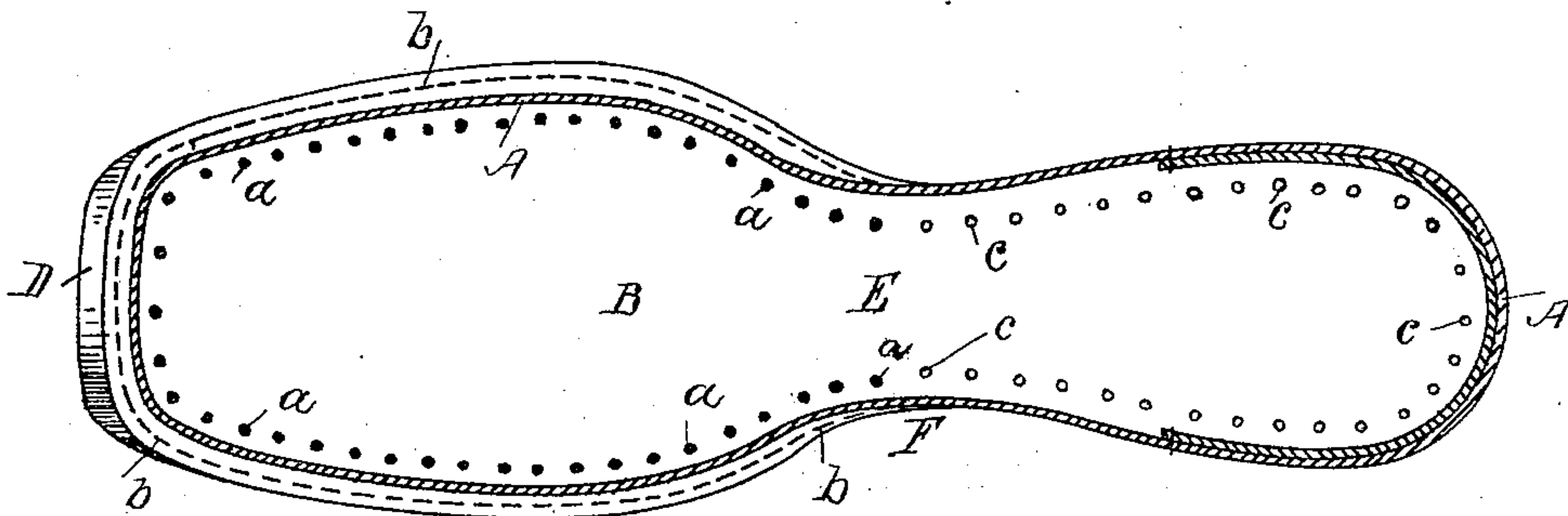
No. 282,911.

Patented Aug. 7, 1883.

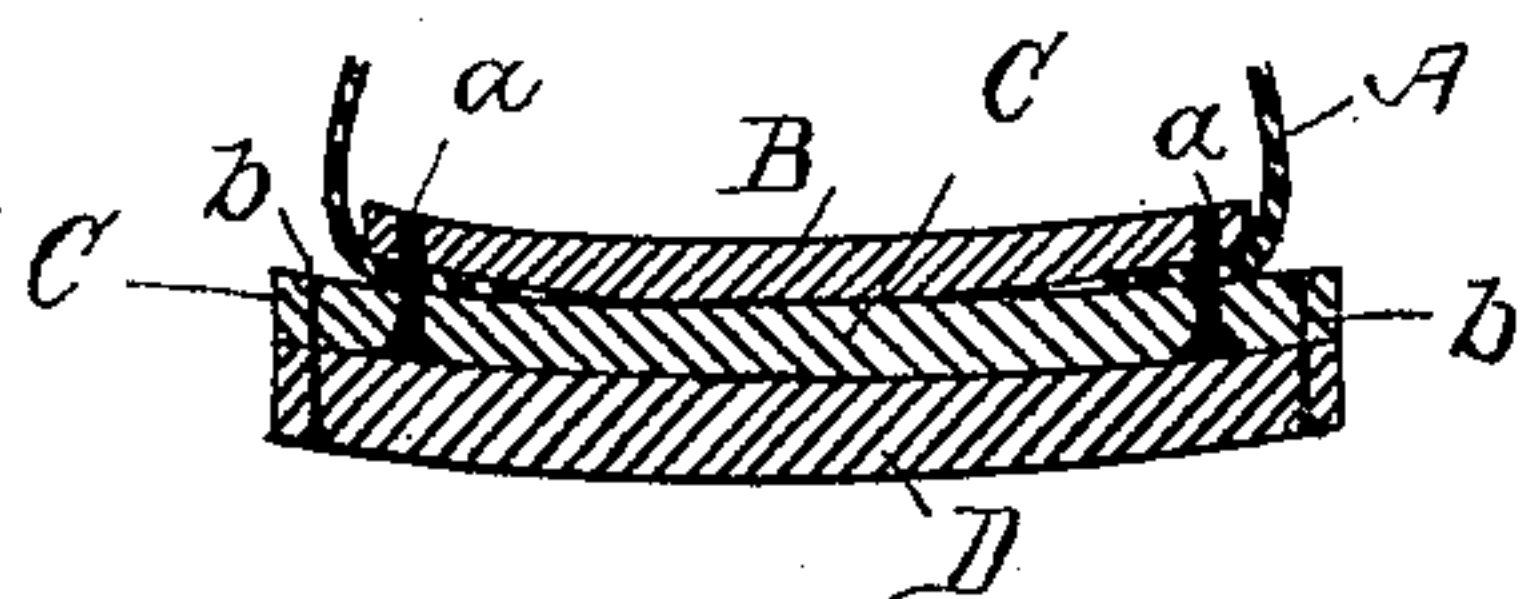
—FIG. 1.—



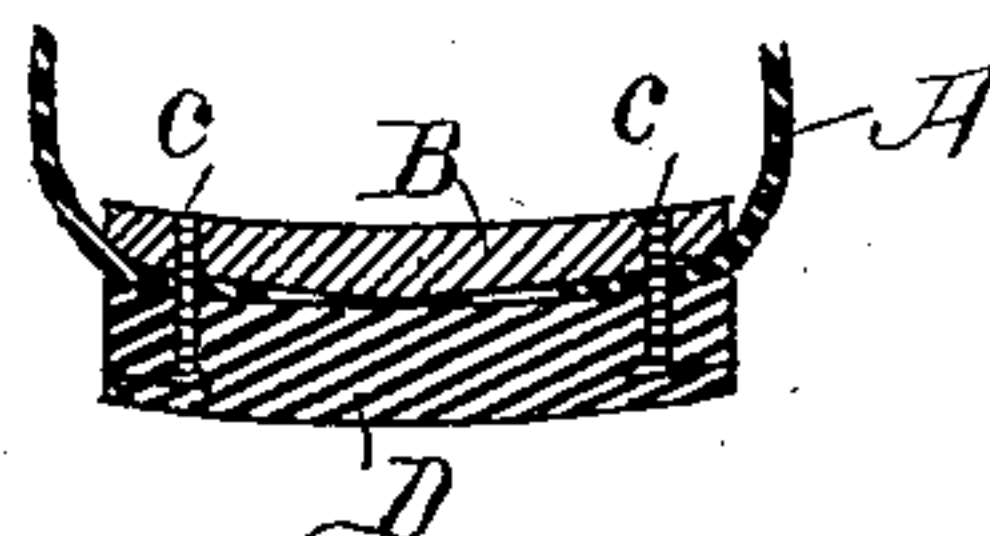
—FIG. 2.—



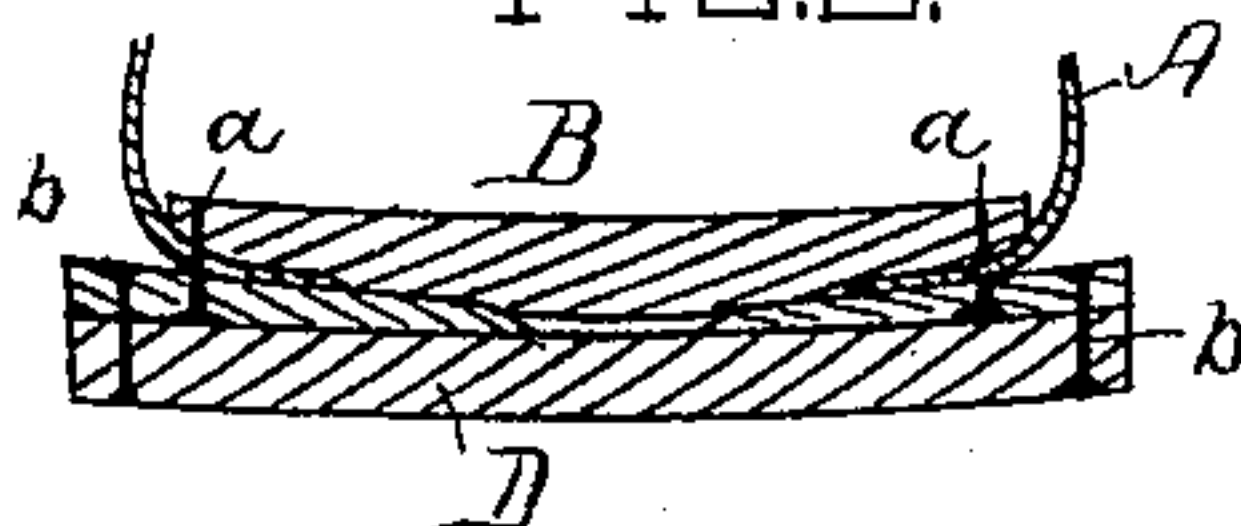
—FIG. 3.—



—FIG. 4.—



—FIG. 5.—



—WITNESSES.—

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SILAS F. LIBBY, OF MILFORD, MASSACHUSETTS.

MANUFACTURE OF BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 282,911, dated August 7, 1883.

Application filed December 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, SILAS F. LIBBY, of Milford, in the county of Worcester and State of Massachusetts, have invented certain new and
5 useful Improvements in the Manufacture of Boots and Shoes, of which the following is a full, clear, and exact description.

This improved boot or shoe has a half-sole covering the upper and inner sole from the
10 toe to the shank, and secured to the upper and inner sole with tacks, stitches, or other suitable fastening devices, and an outer sole covering said so-secured half-sole, the shank and heel, which outer sole is secured by lock-
15 stitches to the half-sole outside of the upper, and to the upper and inner sole, at the shank and heel, by tacks, screws, or other suitable fastening devices, all substantially as herein-
after described.

20 In the accompanying plate of drawings, Figure 1 is a side view of a boot in vertical section through the line of stitches and other fastenings; Fig. 2, a horizontal section on line 2 2, Fig. 1, showing inner sole in plan view; Figs.
25 3 and 4, detail cross-sections on lines 3 3 and 4 4, Fig. 1; and Fig. 5, a detail cross-section, showing a modification.

In the drawings, A represents the upper, B the inner sole, C the half-sole, and D the
30 outer sole, of a boot or shoe severally applied together and secured to each other, to be now described.

The inner sole, B, and upper A are lasted in the usual manner, and the inner sole covers
35 the whole bottom of the inside of the shoe. The half-sole C is of a shape and size to cover the inner sole and upper from the toe to the forward end, E, of the shank F, and to project beyond the outer edge of the upper at such
40 portions of the shoe, and it is secured by tacks a to the upper and inner sole, which tacks pass through the entire thickness of the inner sole, upper, and half-sole, and the outer sole, D, covering the whole bottom of the shoe, is

secured to the half-sole C by stitches b, pass- 45
ing through the half-sole and outer sole outside of the upper, and by nails c, passing through the thickness of the outer sole, upper, and inner soles at the shank and heel portions thereof, thus completing the shoe. 50

Stitches or other suitable fastening devices may be substituted for the nails shown in the drawings, and the stitches connecting the outer sole, half-sole, and inner sole should be of the
55 "lock-stitch" so called. Again, the surfaces of the inner and outer soles, as well as the exposed upper surface of the half-sole, may be channeled, and the channel covered by a lip of the sole left in the making of the channels, so as
60 to cover up and conceal the stitches or nails or tacks from view, and in lieu of the half-sole a middle sole or welt can be used. The lock-stitches can extend also around the shank to the heel as well.

The invention herein described in connection with a shoe is applicable to a boot as well. 65

In Fig. 5 is shown in cross-section the application of a welt in lieu of the half-sole.

Having thus described my invention, what I 70
claim, and desire to secure by Letters Patent, is—

An improved boot or shoe composed of an inner sole, upper, half-sole, and outer sole, the upper lasted to the inner sole, the half-sole 75
next applied thereto and extending back to the shank only, the outer sole covering the entire sole-surface, and all secured in place in the order named, and in the manner substantially as described. 80

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SILAS F. LIBBY.

Witnesses:

W. H. PYNE,

E. C. CLAFLIN.