

(No Model.)

W. P. ALDEN.
SHOE.

No. 421,470.

Patented Feb. 18, 1890.

Fig. 2.

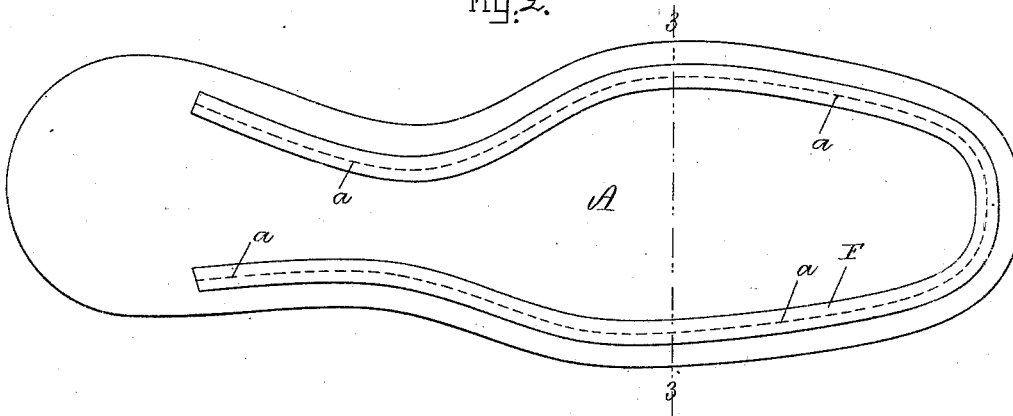


Fig. 1.

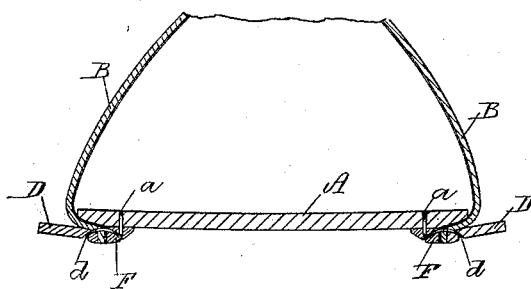
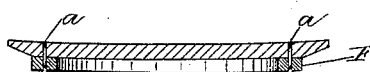


Fig. 3.



Witnesses.

Edmond Reech
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UNITED STATES PATENT OFFICE.

WESTON P. ALDEN, OF RANDOLPH, MASSACHUSETTS.

SHOE.

SPECIFICATION forming part of Letters Patent No. 421,470, dated February 18, 1890.

Application filed February 14, 1889. Serial No. 299,866. (No model.)

To all whom it may concern:

Be it known that I, WESTON PENDexter ALDEN, of Randolph, in the county of Norfolk and State of Massachusetts, have invented an Improved Shoe, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional diagram illustrating my invention as applied to a sewed shoe. Fig. 2 is a plan; and Fig. 3, a section on line 3 3, illustrating the inner sole, which is one feature of my invention.

The ordinary sewed shoe consists of an upper, an inner sole, and a welt, the upper and welt being secured to the inner sole by stitches, as shown in Fig. 1, where A indicates the inner sole, B the upper, D the welt, and *d* the stitches which secure the upper and welt to the inner sole. In this class of shoes the inner sole has heretofore been channeled, so as to leave a ridge to receive the stitches *d*, this ridge being integral with the inner sole. My invention is a shoe of this class in which a strip F is secured to the inner sole A, and in which the upper and welt are secured to this strip F, my improved shoe being in all respects like the ordinary sewed shoe of this class, except that the welt and upper are secured to the strip F, and through that strip to the inner sole, instead of being secured to a ridge integral with the inner sole, as heretofore; and a second feature of my invention is the inner sole A with the strip F secured to it substantially parallel with the edge of the inner sole.

In practicing my invention I prefer to feather-edge the inner sole—that is, bevel off the edge—as shown in Fig. 3, and then sew on a strip F, of leather, as shown in the drawings, where the stitches which secure the leather strip F to the inner sole A are marked *a*, thereby forming an inner sole, which is preferably much thinner and lighter than any adapted for use in this class of shoes as heretofore made and in which the strip F forms a ridge which is as well adapted for the sewing on of the welt and upper as any ridge which could be formed by channeling even the thickest inner sole. After the inner sole is thus prepared it is for all practical purposes much the same as the ordinary inner sole after it is channeled; but, as will be seen from the drawings, it differs

materially from all other inner soles adapted for use in the manufacture of sewed shoes of this class, for its thickness at any point between the inner edges of strip F is much less than is possible where the part corresponding to the strip F is a ridge formed by cutting a groove or channel on each side of that ridge, as it will be clear that the height of the ridge in the ordinary channeled inner sole depends wholly upon the thickness of the stock, whereas in my improved inner sole the height of the ridge formed by the strip F is wholly independent of the thickness of the stock from which the inner sole is cut. After the inner sole is thus prepared by attaching the strip F the upper B and welt D are sewed on in the usual way, as indicated in Fig. 1, and the shoe is finished as usual.

The chief advantage of my improved shoe apart from the saving in expense, which is considerable, is that it may be made far more flexible than is possible when an inner sole is used which is thick enough to allow a ridge to be formed by channeling, for that ridge must be stout enough to hold the upper B and welt D and stitches *d* substantially as they are held by my strip or auxiliary welt F; but my strip F can be made of abundant thickness no matter how thin and flexible the inner sole itself may be, and does not detract materially from the flexibility of the inner sole.

Another advantage of my invention is that the upper B and welt D may be secured to the strip or auxiliary welt F before the latter is secured to the inner sole A, this being a wholly new method; so far as I know, and of considerable utility in certain classes of shoes.

I am aware of Cushman's patent, No. 279,859, dated June 19, 1883, and Bradford's patent, No. 363,946, dated May 31, 1887, and disclaim all that is set forth in them.

What I claim as my invention is—

In a boot or shoe, the strip F, upper B, welt D, and inner sole A, the upper and welt secured to strip F and the strip F secured to the inner sole A, substantially as and for the purpose specified.

WESTON P. ALDEN.

Witnesses:

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