J. A. CASE.

WOODEN BOTTOMED SHOE.

APPLICATION FILED APR. 11, 1919.

1,308,395.

Patented July 1, 1919.

Fig. 1.

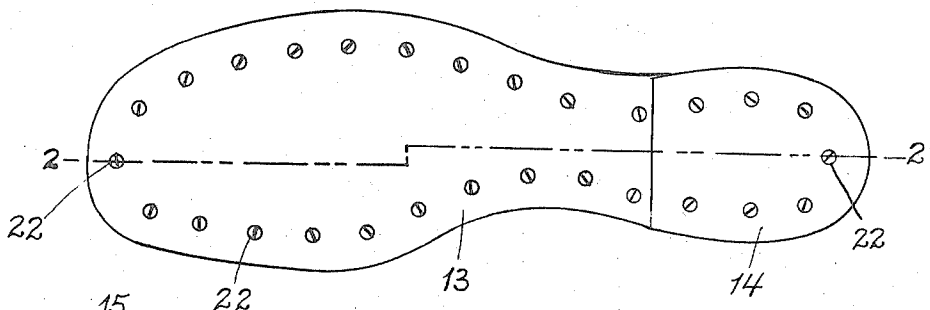


Fig. 2.

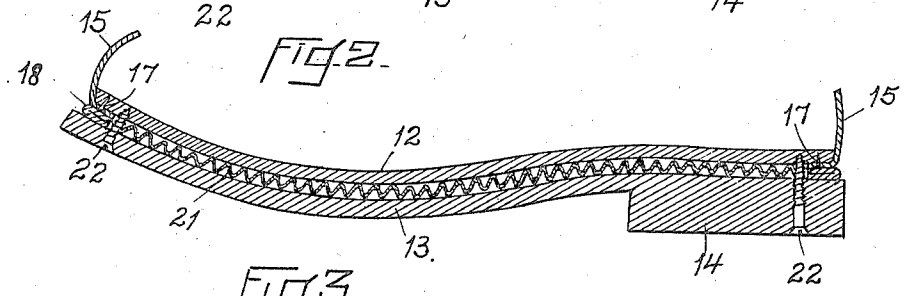


Fig. 3.

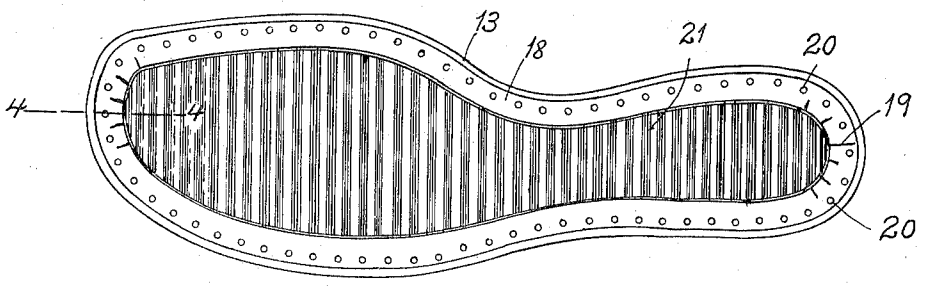


Fig. 4.

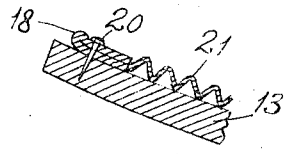
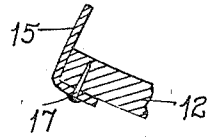


Fig. 5.



INVENTOR:

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ATTY'S.

UNITED STATES PATENT OFFICE.

JESSE A. CASE, OF BROCKTON, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD TO ELLIS F. COPELAND, OF BROCKTON, MASSACHUSETTS.

WOODEN-BOTTOMED SHOE.

1,308,395. Specification of Letters Patent. Patented July 1, 1919.

Application filed April 11, 1919. Serial No. 289,266.

To all whom it may concern:

Be it known that I, JESSE A. CASE, a citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Wooden-Bottomed Shoes, of which the following is a specification.

This invention relates to a shoe the bottom of which includes an inner sole and an outer sole, each made of wood, said soles constituting a bottom to which the vamp portion of the upper is suitably secured.

Shoe bottoms of this character as heretofore made are objectionably noisy, the impact of the outer sole against a pavement or floor causing a clattering noise, due to the resonance of the wood.

The chief object of my invention is to obviate this objection. Another object is to prevent the admission of moisture between the inner and outer soles.

To these and other related ends, the invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings forming a part of this specification,—

Figure 1 is a bottom plan view of a shoe embodying the invention.

Fig. 2 is a section on line 2—2 of Fig. 1, omitting all parts of the upper excepting a portion of the vamp.

Fig. 3 is a top plan view of the outer sole as prepared for attachment to the inner sole.

Fig. 4 is an enlarged section on line 4—4 of Fig. 3.

Fig. 5 is a fragmentary sectional view, showing a portion of the inner sole and a portion of the vamp lasted thereon and permanently secured thereto.

The same reference characters indicate the same parts in all of the figures.

The inner sole 12 is made of a single piece of any suitable wood to which the desired curvature is imparted, preferably by pressure while the wood is in a pliable condition caused by steaming. The outer sole 13 is also made of a single piece of wood, and preferably includes a heel 14 integral with the sole, the outer sole being preferably curved in the same way as the inner sole. The vamp portion 15 of the upper is lasted on the inner sole while the latter is supported by a last, the inturned edge or margin of the vamp lying on the under surface of the inner sole and being permanently secured by suitable fasteners, such as lasting tacks 17, driven more deeply than lasting tacks which are to be subsequently removed. It is obvious, however, that any other suitable fastenings such as staples, or screws, which may be composed of the well known cable screw wire, may be employed.

Before connecting the inner and outer soles, I attach to the upper side of the outer sole a practically continuous compressible welt 18, which is preferably a strip of soft vulcanized rubber folded as indicated by Fig. 4, the fold constituting the outer or exposed edge of the welt, and the length of the strip being such that its ends meet to form a joint 19, preferably located at the heel end.

The welt 18 is attached to the outer sole by suitable fastenings such as tacks 20, although other fastenings such as staples, or screws, may be employed.

The welt is arranged to bear on the inturned edge of the vamp, so that when the parts are assembled, as shown by Fig. 2, the inner and outer soles are spaced apart by said inturned edge and welt.

Before securing the outer sole to the inner sole, I apply, preferably to the upper side of the outer sole, and in the space surrounded by the welt 18, a compressible sound-deadening member 21, which is preferably a sole-shaped piece of corrugated wood veneer, although said member may be made of felt, or any other suitable material. It is obvious that the member 21 may be applied to the inner sole and in the inner space surrounded by the inturned edge of the vamp.

The outer sole is next located in position and secured to the inner sole by suitable fastenings, preferably screws 22, passing through the outer sole and the space between the two soles, and suitably entering the inner sole to firmly connect the soles and clamp their opposed surfaces against the sound-deadening member 21, thereby compressing the latter. Said fastenings also maintain the welt 18 and the inturned edge of the vamp under compression between said faces, so that moisture is excluded from the space between the inner and outer soles, the welt being of water-proof material. The sound-deadening member compressed between the inner and outer soles causes the bottom to make much less noise than would

be the case if the inner and outer soles were in direct contact with each other.

The sound-deadening effect of the member 21 when the same is made of corrugated wood veneer, is due in part to the air spaces formed by the corrugations.

I claim:

1. A wooden-bottomed shoe comprising a wood inner sole, a vamp lasted thereon, the inturned edge of the vamp being permanently secured on the under side of the inner sole, a wood outer sole, a continuous welt of compressible material attached to the upper side of the outer sole and bearing on the inturned edge of the vamp, said welt and inturned edge spacing the outer and inner soles from each other, a compressible sound-deadening member in the space surrounded by the welt and the inturned edge, and fastenings securing the outer sole to the inner sole and clamping the opposed faces of said soles against said member to compress the latter, said fastenings also maintaining the welt and the inturned edge of the vamp under compression between said faces.

2. A wooden-bottomed shoe substantially as specified by claim 1, the said welt being composed of soft vulcanized rubber.

3. A wooden-bottomed shoe substantially as specified by claim 1, the said sound-deadening member being composed of corrugated wood veneer.

In testimony whereof I have affixed my signature.

JESSE A. CASE.