

April 7, 1925.

1,532,942

G. L. PIERCE

SHOE

Filed Nov. 22, 1924

Fig. 1.

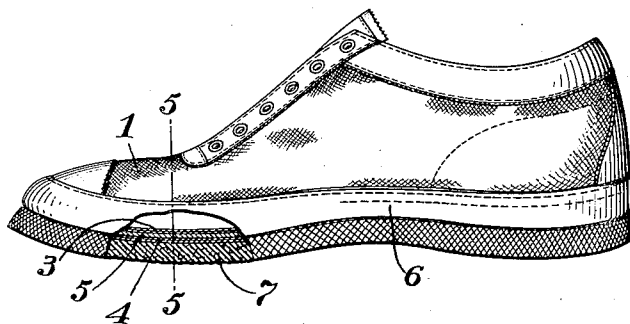


Fig. 2.

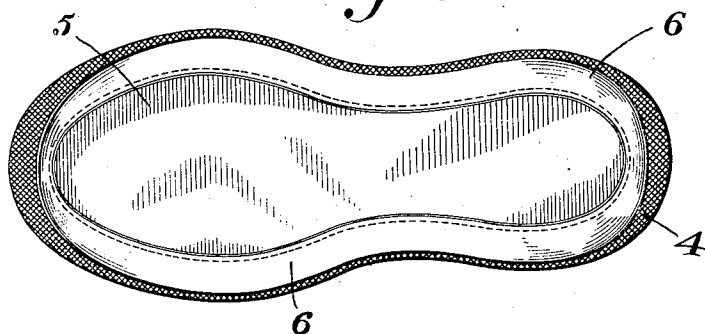


Fig. 3.

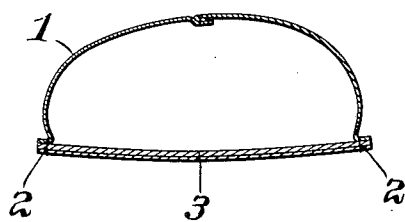


Fig. 5.

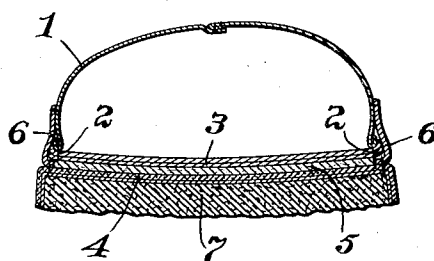


Fig. 4.

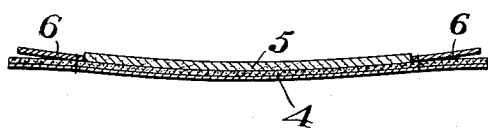
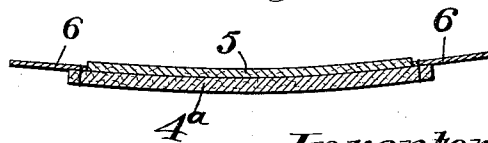


Fig. 6.



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UNITED STATES PATENT OFFICE:

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SHOE.

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To all whom it may concern:

Be it known that I, GEORGE L. PIERCE, a citizen of the United States, and resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Shoes, of which the following is a specification.

My present invention relates to the manufacture of shoes.

The principal object of the invention is the production of a shoe having a rubber sole and a canvas upper by a method which makes the assembly expeditious and commercially economical. The same method is equally applicable to a shoe such as a bathing slipper, or the like, in which the sole is not made of rubber, but which is made of leather, fabric, or other suitable material, as the case may be.

A specific object resides in the provision of a foxing strip secured to an intermediate sole in a manner which will allow the said foxing to be accurately placed in the desired position.

Other advantages and objects will appear as the description proceeds, and with reference to the accompanying drawings.

In these drawings:—

Figure 1 is a side elevation of a complete shoe partly broken away.

Fig. 2 is a plan view of the laminated sole member or assembly shown in Fig. 4 in section, with the foxing partially turned up to show the edge of the underlying sole member.

Fig. 3 is a cross section through the upper and attached insole before application of the outsole.

Fig. 4 is a cross section through the laminated sole member ready for attachment to the insole of Fig. 3.

Fig. 5 is a cross section on line 5—5 of Fig. 1, and

Fig. 6 is a view similar to Fig. 4, but showing a modification.

Referring now to the drawings, I have illustrated conventionally at 1, Fig. 3, a shoe upper composed of canvas, or other suitable material stitched as at 2, to an insole 3. This is performed in the ordinary manner, and to it no particular claim is made.

I have illustrated at 4 an intermediate sole which, as it serves a multiplicity of purposes, will be referred to simply as a sole, and all other sole layers or parts with some

designating prefix. The sole 4 may be of any desired material, but in the modification now being particularly described, may take the form of a piece of rubberized fabric, as is well known in this art.

To the sole 4 I attach, by means of cement, a filler sole 5 which has been cut to the desired shape and of less area than sole 4, so that the latter has a projecting margin. This filler sole is of a substantial thickness as is well known in this art, and to it the stitched together insole and upper are to be secured.

A foxing strip is illustrated at 6 which I have found convenient to make of leather, but which, obviously, may be of any desired material. The purpose of the foxing is to overlie the joint between the upper 1 and the insole 3 so as to hide said joint and at the same time to be cemented or otherwise secured to the lower edge of the upper in a manner to strengthen the entire structure and secure the sole parts thereto and together.

One of the difficulties of this art has been the sewing of the foxing to the structure prior to securing the same to the upper, in such a manner that it will be straight and will have no wrinkles. This I have been able to accomplish by placing one edge of the foxing strip against the edge of the filler sole 5 and stitching the foxing while the two edges are together. It will be noted that by carrying out such a procedure, the edge of the filler sole will act as a definite guide to the location of the foxing strip all the way around the shoe so that there is no occasion for the foxing strip 6 being misplaced, or placed in any position other than that desired, and this in a most uniform manner. It will be noted from the drawing that the foxing strip is stitched directly to the projecting margin of the sole 4. It will now be apparent that the foxing may be brought upwardly over its own stitching and cemented or otherwise secured in any desired manner, to the upper after the prepared sole has been applied to the insole and cemented or otherwise secured thereto, which thus produces a finished shoe at this point, as shown in Figs. 1 and 5.

The sole 4 may take various forms, as above mentioned, and in case a rubber soled shoe is desired, it will be apparent that a rubber sole 7, constituting the outsole, may

be glued or cemented, as the case may be, to the sole 4, which in this instance is of rubberized fabric and capable of being cemented, by placing said rubber outsole directly in contact with the bottom of the sole 4. In order to further secure the outsole securely in place, the outer edges of the sole 4 may then be brought downwardly along the lateral edges of the rubber outsole 7 and cemented thereto. In such a case, the excess edge of the sole 4 may be trimmed flush with the bottom face of the outsole, with the result that a finished appearance is given to the entire shoe. Obviously, the outsole 7 may be any desired character of rubber, as is well known in this art.

In another form shown in Fig. 6, which also utilizes the same method of securing the foxing strip to the sole 4^a at the edge of the filler sole 5, the sole itself may be of a heavy piece of leather such as buckskin, or any other variety of leather, as circumstances will dictate is best. In this instance, it will be obvious that the sole may be cut off just beyond the point where it is stitched to the foxing 6 so that the sole 4^a in itself forms the outsole for contact with the ground. Such a structure is particularly desirable, as for instance in a bathing shoe, or a light slipper.

Having thus described my invention, what I claim is:—

1. The hereindescribed steps in the manufacture of a shoe, which consist in securing a filler sole to a main sole and stitching a foxing strip to said main sole at the margin of said filler sole.

2. A method of manufacturing shoes, which consists in the steps of securing a filler sole to a sole having a greater width than the filler sole, stitching a foxing strip to the margin of said sole at the edge of said filler sole, securing an insole and an upper together and to said filler sole, and bringing the foxing strip upwardly and securing the same to the edge of the upper.

3. A method of manufacturing shoes, which consists in securing a filler sole to a sole having a projecting margin, stitching a foxing to said margin at the margin of said filler sole, securing an insole and an upper together and to the filler sole, turning the foxing strip upwardly and securing the same to the edge of the upper, and turning the outer margin of the sole downward and cementing it to the edge of a juxtaposed outsole.

4. A shoe comprising a filler sole, a sole secured thereto having a projecting margin, an insole and an upper secured together and to the filler sole, a foxing strip stitched to the sole margin at the edge of the filler sole, said foxing being turned up around the lower edge of the upper, and secured thereto.

5. A shoe comprising a filler sole, a sole of greater area secured thereto having a projecting margin, an upper and an insole secured together and to the filler sole, a foxing stitched to said margin at the edge of the filler sole, and an outsole secured to the bottom of the sole of greater width, the foxing being secured to the upper and the said sole margin being secured to the edge of the outsole.

6. A shoe comprising a filler sole, a sole of greater area secured thereto leaving a projecting margin, a foxing stitched to said margin, one edge of said foxing abutting directly the edge of the filler sole, an upper and insole to which said filler sole is applied, said foxing being turned up and secured to the upper.

7. A prepared sole comprising a filler sole, a sole layer of greater area secured thereto to provide a projecting margin, and a foxing overlying said margin and abutting the edge of the filler sole, and stitched to said sole layer adjacent the edge of the filler sole.

In testimony whereof, I affix my signature.

GEORGE L. PIERCE.