Aug. 23, 1932. H. C. LANGER 1,872,987

SHOE INSOLE

Filed Nov. 8, 1928

Fig. 1

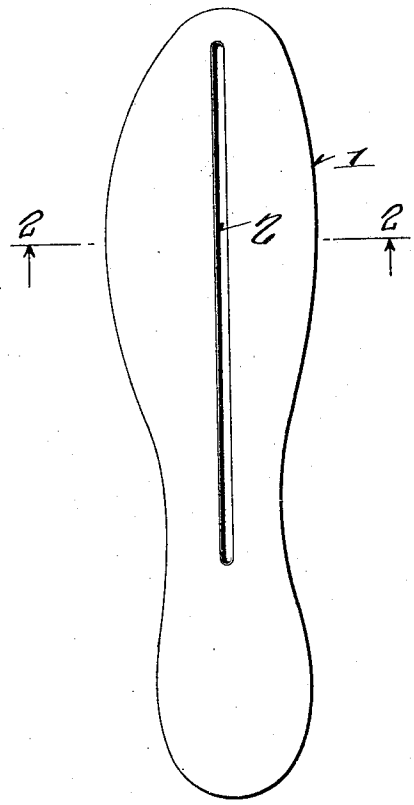


Fig. 2

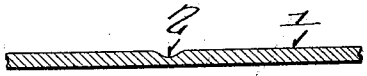


Fig. 3



Fig. 4



Fig. 5

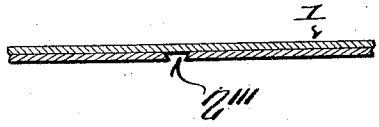


Fig. 7

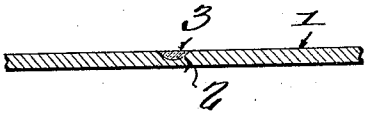


Fig. 6

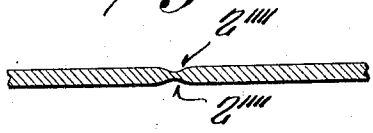
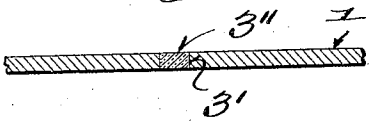


Fig. 8



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Patented Aug. 23, 1932 1,872,987

UNITED STATES PATENT OFFICE

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SHOE INSOLE

Application filed November 8, 1928. Serial No. 317,965.

This invention pertains to shoe insoles.

At the present time considerable foot discomfort is encountered, as a result of the seam present at the bottom of a full-fashioned stocking, due to the fact that the seam presses into the bottom of the foot at points where the maximum weight comes upon the same, which affects the nerves in the foot. In this connection it is also significant that the seam under the foot is exaggerated, due to the fact that that portion of the hose is reinforced to produce the maximum thickness of fabric, which, when joined together, forms a bulky seam or welt.

The present invention aims to overcome the foregoing objections by the provision of an insole designed to compensate for the seam of a full-fashioned hose, and prevent the seam from being embedded into the foot of the wearer.

Incidental to the foregoing, a further object is to form an insole with a central, longitudinal tract, either depressed, or capable of depression, for receiving the seam of a full-fashioned hose.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawing is illustrated one complete example of the physical embodiment of the present invention constructed according to the best mode so far devised for the practical application of the principles thereof.

Figure 1 is a plan view of an insole constructed in accordance with one form of the present invention.

Figure 2 is a transverse section taken on the line 2—2 of Figure 1.

Figures 3, 4, 5, 6, 7, and 8 are similar views illustrating various modifications of the present invention.

Referring now more particularly to the accompanying drawing, the preferred form, as illustrated in Figures 1 and 2, comprises an insole 1 formed of leather, or other materials commonly used for insoles at the present time. Formed on the top surface of the insole, which comes in contact with the foot of the wearer, is a central, longitudinal depression 2, extending from a point adjacent the toe of the insole, and terminating in front of the heel portion, due to the fact that in full-fashioned hose the seam employed to join the fabric together, does not extend under the heel of the hose, inasmuch as the heel tabs are looped together, requiring no sewing. The depression 2 may be formed by means of a die, or, if desired, the same may be skived out of the material.

The modification disclosed in Figure 3 is merely the reverse of the structure as illustrated in Figures 1 and 2, wherein the depression 2′ is formed in the bottom of the insole, rather than on the top of the same. Obviously, by weakening the insole in this manner the seam of the hose will force the material downwardly at that point, forming a recess to receive the seam and prevent embedding of the same into the foot of the wearer.

Figure 4 discloses a modification wherein the longitudinal tract is cut out entirely, forming the slot 2″ for the reception of the seam.

In some instances insoles are made up of a plurality of layers of different material, in which event either one of the layers may be cut away, similar to the construction shown in Figure 5, wherein the bottom layer is cut out at 2‴ to permit the thin top layer to be pressed downwardly when the pressure of the seam of a stocking comes in contact with the same above the cutaway portion 2‴. The form illustrated in Figure 6 is a combination of the forms disclosed in Figures 2 and 3, in that the material is depressed along a central, longitudinal line, on both faces of the insole, thus forming two depressions 2⁗ alined with one another to permit the seam of the hose to be embedded into the insole.

Figure 7 discloses an insole provided with a central, longitudinal groove or depression, similar to the form shown in Figure 2, which

is filled with a soft yieldable substance 3 to permit the embedding of the seam of the hose, thus relieving pressure of the same against the bottom of the foot.

The form illustrated in Figure 8 is somewhat similar to that shown in Figure 7, except in that the longitudinal tract is cut away entirely at 3′ and the slot then filled with a soft, yieldable material 3″, which functions in the same manner as the filler 3 provided in Figure 7.

From the foregoing description taken in connection with the drawing, it will be seen that a very simple and inexpensive method has been provided for compensating for the heavy seam present in full-fashioned hose, and which relieves any discomfort resulting from embedding the seam into the foot of the wearer.

In addition to the foregoing, the present invention has the added advantage of holding the seam in proper position upon the foot, thus preventing twisting of the hose.

I claim:—

1. As a new article of manufacture, an insole for shoes constructed to receive the seam of a stocking, whereby the seam will not bear against the foot, said insole comprising a body having a continuous longitudinally extending narrow stocking seam receiving channel arranged equi-distant the sides of the body and terminating in close proximity to the front of the body and short of the heel portion of the body.

2. As a new article of manufacture, an insole for shoes constructed to receive the seam of a stocking whereby the seam will not bear against the foot, said insole comprising a body including companion abutting plies of material, one of said plies having a narrow continuous longitudinally extending stocking seam channel arranged equi-distant the sides of the body and terminating in close proximity to the front of the body and slightly short of the heel portion of the body.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

HARRY C. LANGER.