Sept. 8, 1959 F. RANDO 2,902,781

SHOE INSOLES

Filed April 4, 1958

FIG. 1

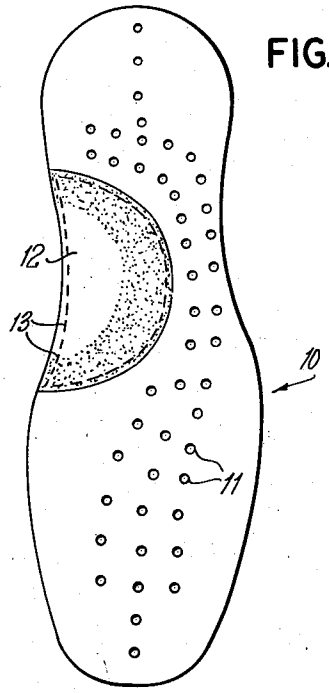


FIG. 2

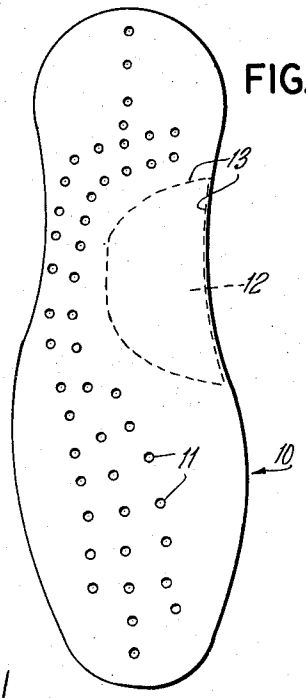


FIG. 3

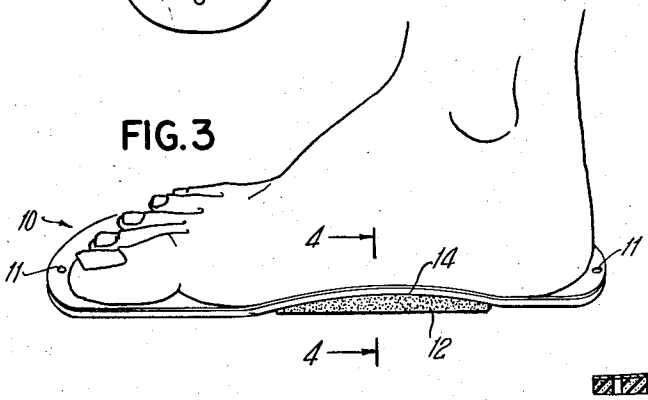
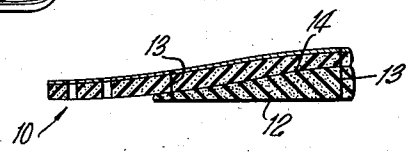


FIG. 4



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SHOE INSOLES

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3 Claims. (Cl. 36—71)

This invention relates to shoe soles to be inserted inside shoes, or in other words, to inner soles, and the main object of the invention is the provision of a new and improved inner sole which is especially beneficial to people who stand, walk or march for long periods of time. The improved inner soles are restful to the feet of such persons, among whom may be mentioned soldiers, policemen, barbers, salesmen, and others.

Another object of the invention is the provision of a shoe inner sole having a plurality of holes or perforations therethrough for respiration of the feet, and which is further provided with a shaped cushion of soft rubber, preferably sewn on the insole, for support of the arch of the foot.

The above as well as additional objects will be clarified in the following description wherein reference numerals refer to like-numbered parts in the accompanying drawing.

Referring briefly to the drawing, Fig. 1 is a bottom plan view of the improved insole.

Fig. 2 is a top plan view of the same.

Fig. 3 is a perspective view of the insole showing a foot positioned thereon.

Fig. 4 is a section on the line 4—4 of Fig. 3.

Referring in detail to the drawing, the numeral 10 indicates an insole preferably formed of soft or pliable leather and having a large number of spaced holes or perforations therethrough, shown at 11.

A cushion 12 of soft rubber, having a substantially crescent-shaped conformation suitable to fitting the same against the underside of the shank of the sole, is positioned substantially as shown in Fig. 1 and secured to the insole preferably by means of stitching 13. The upper surface 14 of the cushion is shaped complementarily to the arch of the foot, while the lower flat surface lies in a common plane with the portion of the undersurface of the insole which surrounds the cushion and is adapted, when worn, and especially when worn by a more or less flat-footed person, to lie in frictional contact with the sole of the shoe.

With the completed insole, including the arch, used in the manner illustrated in Fig. 3, it is apparent that the insole body 10, owing to its pliability, follows the contours of the cushion 12 and thus provides a smooth

rounded and cushioned surface under the arch of the foot. As a consequence, considerable added comfort is given the foot so as to diminish the feeling of strain and tiredness otherwise accompanying prolonged support of the body on the feet. The same beneficial effect is produced by the improved insole while the wearer is walking or marching as is the case when he is standing.

Thus a simple, inexpensive and improved insole for the comfort of the feet of the wearer has been provided, which should prove of greatly increased efficiency in standing or walking.

The invention having thus been described, what is claimed is as follows:

1. A shoe insole comprising a sole body formed of a thin layer of soft pliable material having a substantially crescent-shaped unitary soft rubber arch-supporting cushion mounted against the underside of the shank of said body on one side of the insole in position under the arch of the foot of the wearer, said cushion having a flat side and a convexly rounded side opposite thereto and having said rounded side positioned against said underside of the shank, said flat surface of the cushion lying in a common plane with that portion of the bottom surface of said body which surrounds said cushion and being adapted to frictionally engage the arch portion of the sole of the shoe, and means for securing said cushion to said shank.

2. A shoe insole according to claim 1, said means comprising stitching passing through said cushion near the circumferential edge thereof and through said shank.

3. A shoe insole comprising a sole body formed of a thin layer of pliable material having a substantially crescent-shaped unitary unperforate soft rubber arch-supporting cushion having a width equal to the lateral width of the arch of the foot of the wearer and wholly positioned against the underside of the shank of said body under the arch of the foot of the wearer, said cushion having a flat bottom side and a convexly rounded top side opposite thereto and having said rounded side positioned against the underside of the shank, said flat side of the cushion lying in a common plane with that portion of the bottom surface of said body which surrounds the cushion, and means for securing the cushion to said shank comprising stitching passing through the cushion near the circumferential edge thereof and through said shank.

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