

June 12, 1928.

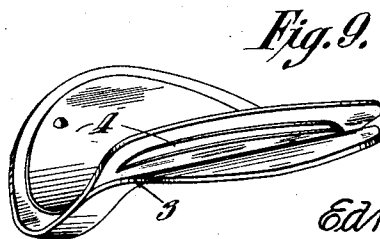
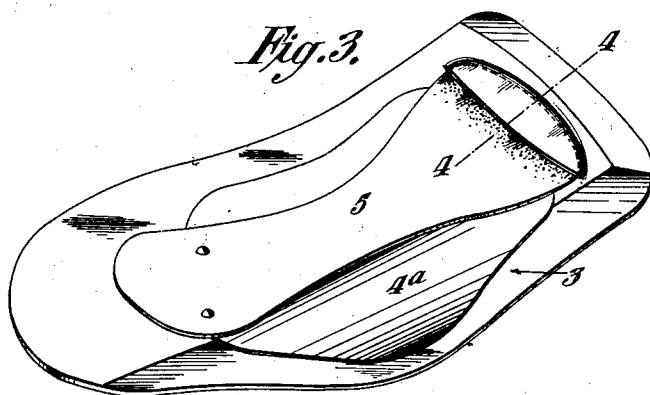
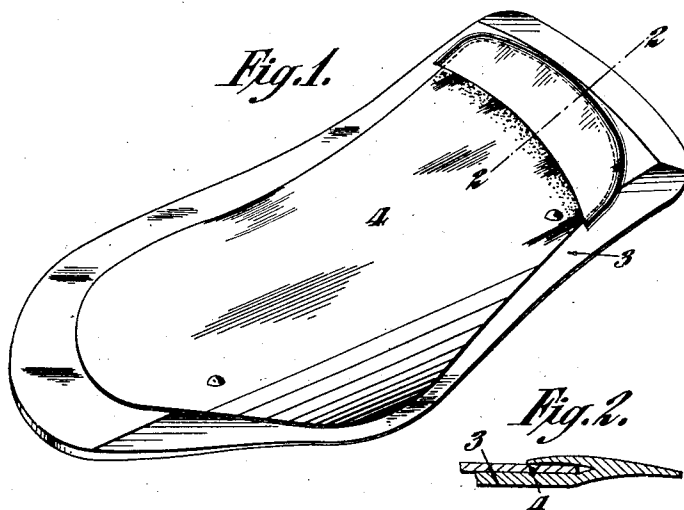
1,673,537

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FOOT ARCH SUPPORT AND THE LIKE

Filed Aug. 6, 1926

2 Sheets-Sheet 1



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Fig. 5.

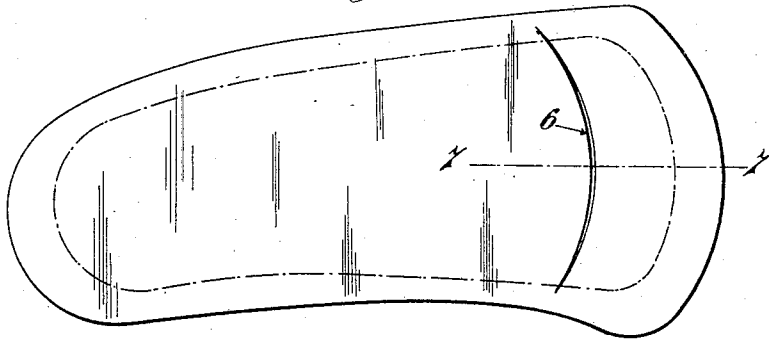


Fig. 6.

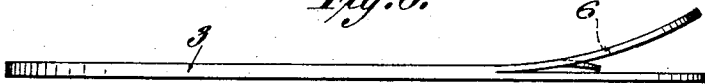
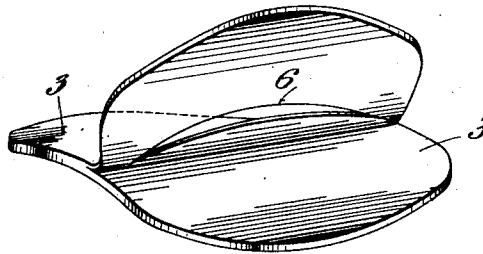


Fig. 7.



Fig. 8.



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UNITED STATES PATENT OFFICE.

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FOOT ARCH SUPPORT AND THE LIKE.

Application filed August 6, 1926, Serial No. 127,654, and in Great Britain December 5, 1925.

This invention relates to that class of appliances intended for use in connection with foot wear, and more particularly to foot arch supports.

5 The object of the invention is to provide an improved appliance of this general character, which will relieve foot discomfort in walking and possesses sundry advantages over related devices heretofore known and
10 used.

Broadly, the invention embodies the combination of a metal plate, or plates, with an insole comprising a single integral layer of material so fashioned or formed by cutting,
15 that the said metal plate, or plates will have both sides presented thereto, the arrangement being such that there is provided a complete upper covering to the appliance and an additional partial under covering,
20 which latter acts to separate the metal from the sole of the boot or shoe in which the appliance is inserted. In other words, an insole is employed, part of the material of which is, by cutting, caused to be located beneath the metal plate without interfering
25 with the material above it, and is not to be confused with one-piece insoles or covers turned down and under or up and upon the edge of a metal or other relatively hard support. It has been proposed to split an inner
30 sole in the thickness of the material so as to form pockets to be packed with cotton wool or the like, to which of course no claim is herein made.

35 An appliance according to the present invention is simple, easy to manufacture, durable, comfortable and not liable to produce undue wear of a boot or shoe.

40 The insole fashioned as aforesaid may be used without further addition, but it is also permissible to combine other protective material therewith if so desired.

In order that the invention may be more readily understood and easily carried into
45 effect, it will now be further described with the aid of the accompanying drawings which illustrate several examples. From these examples, which are typical, many other modifications will be readily ascertainable without specific description.
50

55 In the said drawings, Fig. 1 is an underside perspective view of a foot arch support according to the invention; Fig. 2 is a section on the line 2—2 thereof; Figs. 3 and 4 are corresponding views of a modified form

of support; Fig. 5 is an underside view of an insole such as forms the cover of the metal component of a foot arch support or the equivalent, showing a different mode of constituting the same for the purpose of the invention; Fig. 6 is a side elevation of the same with parts in an unnatural position; Fig. 7 is a section on the line 7—7 of Fig. 5; Fig. 8 is a perspective view of Fig. 6; Fig. 9 is another perspective view corresponding
60 to Fig. 7.

Referring first to Figs. 1 and 2, a metal plate 4 constituting the foot arch support, is shown with its forward end slipped into a pocket produced in a leather insole 3 by incising the latter in the manner illustrated.
70 The said incision is preferably made upon a curved line so that the plate 4 is left as clear as possible to facilitate adjustment, which is done by a deforming device in the usual way. In this case, flexure of the plate 4 and insole 3 will be practically equal, so that there may be said to be little or no relative movement between such members,
75 and the material of the insole is consequently free to ride upon the sole of the boot or shoe.

A compound foot arch support may be produced in a similar way, as shown in Figs. 3 and 4, where, in addition to a plate 4^a attached to move with the insole 3, there is provided a spring plate 5 which is secured at only the rear end so that the fore end thereof may slide upon the inner surface of the insole pocket while the latter is still
80 free to slide upon the sole of the boot or shoe. It will thus be understood that the toe end of the spring plate 5 is not initially inserted sufficiently far to press against the fore edge of the pocket, thus permitting the aforesaid sliding movement of the plate 5.

In some cases that part of either of the plates 4 or 5 which is inserted in the pocket of the insole, may be covered with a protective medium such as a coating of a plastic
85 celluloid or other compound as indicated by the stippling seen in Figs 1 and 3.

Since this application of a protective medium to the insole is regarded as especially important, particularly where hard
90 wear is likely to be experienced, a simple and inexpensive mode of applying the same and forming the pocket in the insole, consists, as illustrated in Figs. 5 to 9, in splitting the insole from the toe rearwardly for a
100 110

suitable distance to enable the under-surface, (seen in Fig. 5), to be incised as at 6. A compound such as referred to is applied to one or the other or both of the surfaces of the pocket which is formed, so that it is limited to such pocket, and is then allowed to set, the marginal union being subsequently effected as by the application of further composition of the same kind or other appropriate adhesive. This mode of application will generally be more convenient where the spring plate 5 is to be accommodated. In other cases the surfaces need not be united at all, but may be left free whether a protective medium is applied thereto or not.

What I claim is:—

1. An appliance of the character described, comprising the combination of a metal plate and a single layer of insole material, wherein the insole is cut with an angular incise at one end extending substantially thereacross to form a pocket-like recess into which one end of said plate is inserted to present both of its sides to the insole, while its other end is fastened to the

latter, the arrangement being such as to provide a complete and uninterrupted upper covering to the appliance along with an additional partial undercovering separating the metal from the sole of a shoe in which the appliance is inserted.

2. An appliance of the character described, comprising the combination of a metal arch-supporting plate and a single layer of insole material, said layer having a pocket in the underside thereof formed by splitting the same partially from the forward end thereof and incising one of the split portions of the layer transversely for substantially the full width of the material to provide a pocket-like recess into which one end of the arch-supporting plate is inserted and attached to the insole with both of its sides presented to the latter, said pocket being closed by marginally uniting the split portions of the layer, substantially as described.

Signed at London, England, this 23rd day of June, 1926.

EDMUND TEMY.