Aug. 18, 1936. C. H. BROWN ET AL 2,051,072

INSOLE FILLER FOR SHOES

Filed Nov. 2, 1934

Fig. 1.

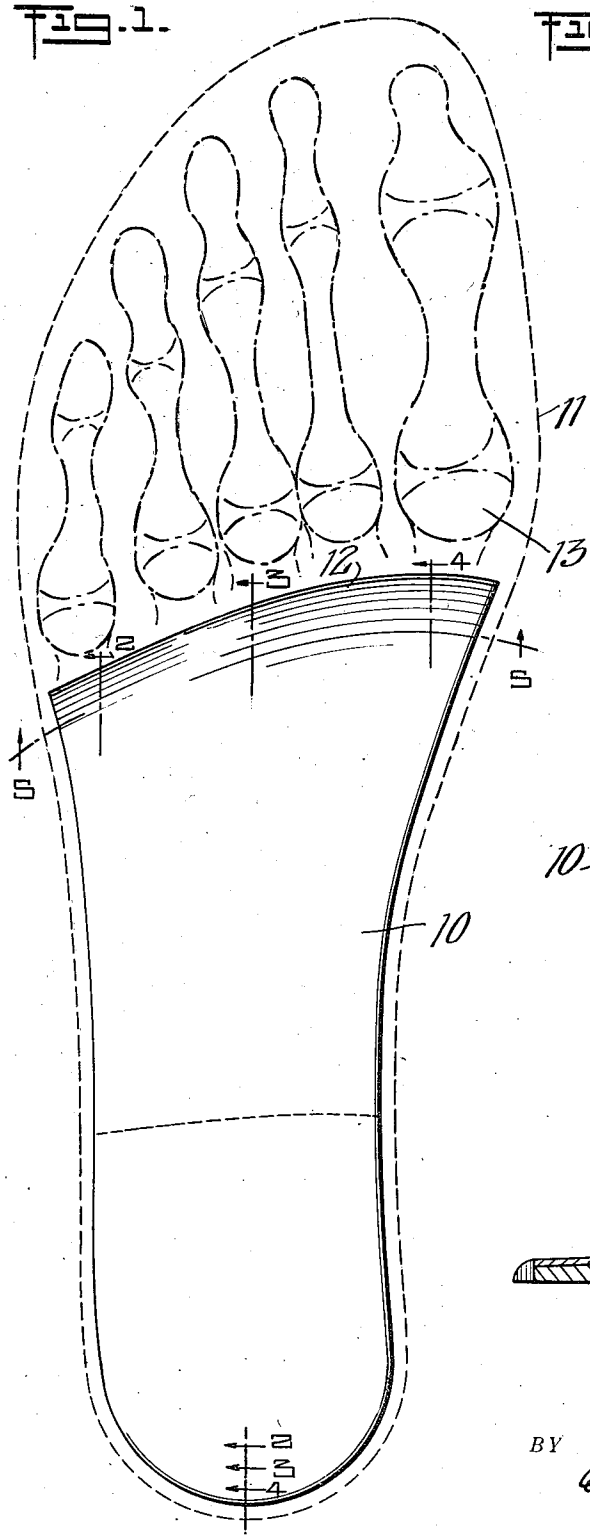


Fig. 2. Fig. 3. Fig. 4.

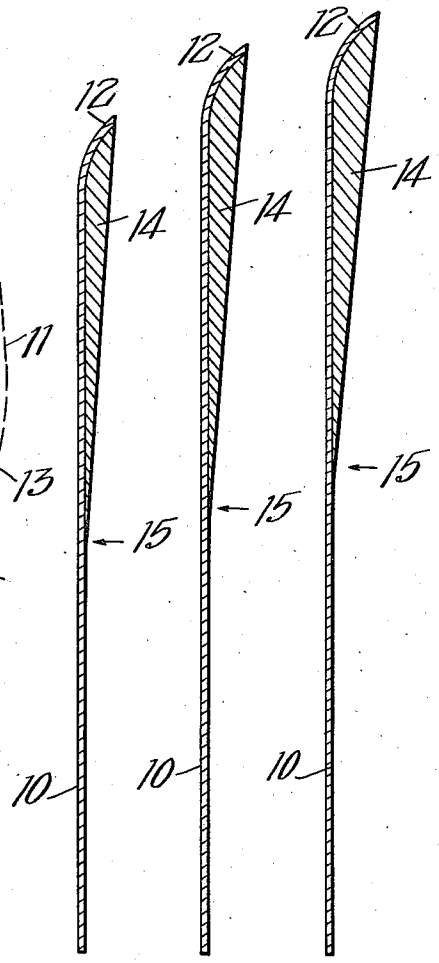
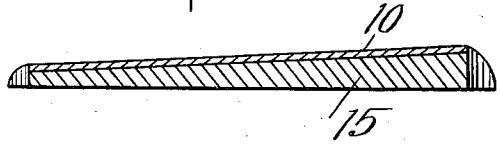


Fig. 5.



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INSOLE FILLER FOR SHOES

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Application November 2, 1934, Serial No. 751,152

1 Claim. (Cl. 36—71)

The present invention consists primarily in providing an accessory insole member insertable within a completed shoe and adapted to form a support for the foot at the rear of the metatarsal bones of the foot; and to form in service in combination with the permanent insole of a shoe, a two-plane structure so constructed and arranged that the forward part of the foot sinks to a level lower than the portion of the foot extending backward to the heel seat of the shoe.

Among the principal objects which the present invention has in view are: to furnish a tread surface within the shoe to provide two planes of support for the foot and weight thereon; to provide fillers of the character disclosed which may be secured within shoes of usual construction to obtain the advantages found in what is styled the "two-plane" shoe; and to simplify and cheapen the construction.

In the drawing:

Figure 1 is a top plan view of a metatarsus wedge showing in conjunction therewith and in dotted lines an insole for a shoe of usual construction. Also in broken lines are indicated the arrangement of the tarsal bones 13 and the phalangeal bones of the human foot in service relation to the filler.

Figures 2, 3 and 4 are longitudinal sectional views on enlarged scale, the sections being taken as on the lines 2—2, 3—3 and 4—4 in Figure 1.

Figure 5 is a cross section of the filler, the section being taken as on the line 5—5 in Figure 1.

Description

The present invention has relation to and is supplementary to the structure disclosed in Patent No. 1,879,729 for improvement in shoes, issued September 27, 1932, to which reference is here made.

The present invention provides the filler 10. This is a separate member from the insole indicated in the drawing by the dotted line 11. In service, the filler 10 is secured to the shoe structure by a nail, adhesive, or other suitable fastening device. When so secured, the forward edge 12 is disposed directly at the rear of the heads 13 of the so-called metatarsal bones of the foot.

The edge 12 above referred to as indicated in Figures 2 to 4 inclusive, has a declined surface over which the pads of the so-called ball of the foot rest in service.

It will be noted that the edge 12 of the filler is increased in thickness from the outer side of the shoe to the inner side of the shoe, or in other words, from the rear of the little toe of the foot to the rear of the great toe of the foot. This forms a comfortable rest for the foot as it settles down over the edge 12 for a grip from said forward edge 12 of the filler 10.

As shown by the lengthwise sections disclosed in Figures 2 to 4 inclusive, the forward end of the pad is built up by a filling 14. The filling 14 may be constructed from any suitable material such as leather or felt, etc. The filling thus formed is faded away to a feather edge at the points indicated by the marking 15. The filling also is varied in thickness as indicated by the drawing to accommodate the variety of heights formed in the filler at the opposite sides thereof. This feature is also disclosed in Figure 5, wherein the filling 15 is shown as lower on one edge of the filler as compared with the opposite edge thereof. When the filler thus constructed is placed in a shoe and securely mounted therein, it will be found that the foot has a comfortable rest with the bones forming the so-called ball of the foot, resting over to form a gripping action with the forward edge of the filler to assist in the operation of walking.

We claim:

An accessory filler having a body portion for disposition within a shoe, said body portion terminating at the forward end thereof in a sharply defined declined edge, said edge being curved horizontally to conform to the disposition of the heads of the tarsal bones of the foot, said edge being further reduced in thickness from the forwardly advanced extremity to the rearwardly disposed end of said declined edge.

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