

April 23, 1940.

J. B. GREIDER

2,198,338

FOOTWEAR

Filed March 7, 1938

2 Sheets-Sheet 2

FIG. 4.

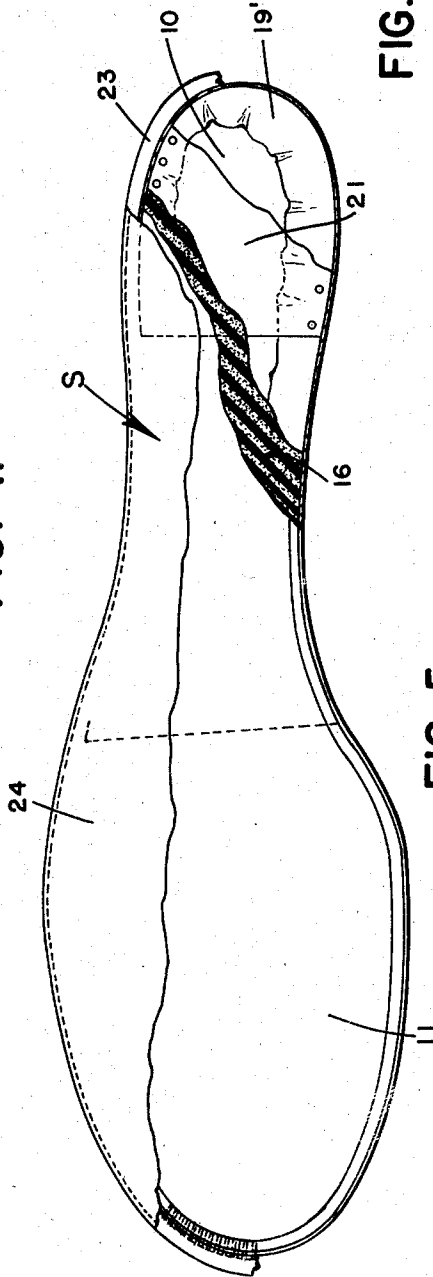


FIG. 8.

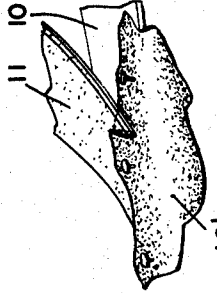


FIG. 9.

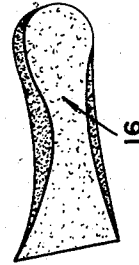


FIG. 7.

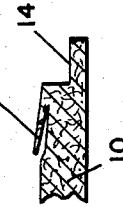


FIG. 5.

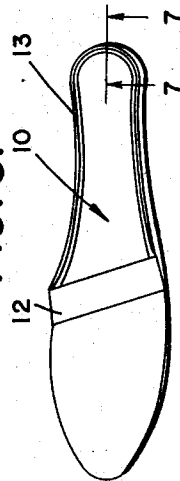
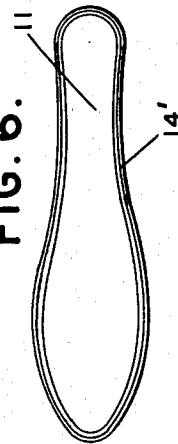


FIG. 6.



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2,198,338

FOOTWEAR

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1 Claim. (Cl. 36—2.5)

This invention appertains to footwear, and more particularly to shoes of the type having a wedge-shaped pad of cushioning material (such as sponge rubber), in the soles thereof extending from the ball to and under the heel seat, whereby to form a substantially flat outer face on the sole and thus give an adequate and resilient support for the heels and arches of the wearer.

Shoes of this type have been difficult to mend and after the wear soles have been worn through, it has been customary to send the shoes back to the factory for this repair work.

It is, therefore, one of the primary objects of my invention to provide novel means for constructing a shoe of this type, whereby the shoe can be provided with a welt extending entirely around the same, so that the wear sole can be sewed thereto and thereby permit the repair of the shoe by the ordinary shoemaker.

Another salient object of my invention is to provide a shoe having an insole and a middle sole for receiving the resilient cushion pad therebetween, the two soles forming means for permitting the upper to be stitched thereto, and the middle sole permitting the carrying of a welt to receive the wear sole by the ordinary Goodyear stitching.

A further important object of my invention is to form a novel wear sole substantially flat from toe to heel, with the fore part thereof formed from leather and the rear part thereof formed from hard rubber.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawings, in which drawings:

Figure 1 is a side elevational view of a shoe constructed in accordance with my invention, parts of the shoe being shown broken away and in section.

Figure 2 is an enlarged, fragmentary, transverse sectional view through the toe part of the shoe.

Figure 3 is a similar view taken through the heel part of the shoe.

Figure 4 is a bottom plan view of the shoe, with parts thereof broken away and in section.

Figure 5 is a detail perspective view of the insole.

Figure 6 is a detail perspective view of the middle sole, Figures 5 and 6 being taken on a smaller scale than Figures 1 to 4.

Figure 7 is an enlarged, fragmentary sectional

view through the heel part of the insole, taken substantially on the line 7—7 of Figure 5.

Figure 8 is a fragmentary perspective view illustrating one step in the course of making the shoe.

Figure 9 is a detail perspective view of the cushioning pad, the view being substantially on the same scale as Figures 5 and 6.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter S generally indicates my improved shoe, and the same includes an insole 10 and a middle sole 11.

The under-surface of the insole 10, from the ball forwardly to the toe, is cut away, as at 12, so that the sole at this portion will be formed relatively thin. From the ball to the heel, the insole is provided with an inseaming channel 13 and an outstanding lip 14. The middle sole 11 is of the same thickness throughout, and its lower surface is provided entirely around the same with an inseaming channel 14' and an outstanding lip 15. The two soles at the toe portion are firmly united by suitable adhesive, and a wedge-shaped pad of cushioning material, such as sponge rubber, 16 is placed between the two soles from the ball back to and under the heel seat.

The fore part of the upper is lasted by inseaming stitching 17 to the middle sole 11, and these stitches are received within the channel 14'. The rear part of the upper from the ball back is secured to the insole 10 by inseaming stitches 18, which are received within the channel 13. A flexible leather covering 19 is provided for the cushioning pad 16, and this covering has its upper face turned in at the heel seat and the shank of the shoe, and is secured to the insole 10 by suitable nails 20. If desired, a flexible heel piece 21 can be placed under the intumed part of the leather, and this piece can be held in place by the nails 20.

By referring to Figure 8, it can be seen that during the course of manufacture of the shoe, the fore part of the upper is placed over the middle sole, while the rear part of the upper is placed under the middle sole and on top of the insole.

In accordance with my invention, a wear sole 22 is provided, and this wear sole is of the same thickness throughout and extends from the toe to the heel. A welt 23 is placed entirely around the middle sole and is secured to the middle sole by means of inseaming stitches, which are

received within the channel 14'. At the fore part of the shoe the welt 23 is secured in place by the stitching 17, which holds the upper, and this stitching can be continued back around the middle sole for the welt and for securing the lower edge of the flexible leather covering 19 in place.

I prefer to utilize a compound wear sole, that is, with the fore part thereof formed from a leather piece 24 and the heel part thereof formed from a rubber piece 25. These pieces have their meeting edges beveled and overlapped, and the overlapping edges can be firmly secured together by staples 26.

While I have termed the sole 11 a middle sole, so as to differentiate the same from the sole 10, it is to be noted that, in effect, the same functions as an insole. In some instances, a single insole can be provided, and the same can be split from the heel to the ball to form two heel sections, between which can be placed the rubber cushion pad 16.

From the foregoing description it can be seen that I have provided a cushion shoe of the arch-supporting type in which the wear sole can be readily secured in place by Goodyear welt stitching.

Changes in details may be made without departing from the spirit or the scope of this invention, but what I claim as new is:

A shoe comprising an upper, an insole, a middle sole, the middle sole and insole being attached at the toe part, a pad of cushioning material interposed between the insole and the middle sole at the heel and shank, the middle sole being provided entirely around the same with an inseaming channel and a lip, the rear part of the insole at the shank and heel being provided with an inseaming channel and a lip, inseaming stitching securing the rear part of the upper to the insole and over the lip, a covering of flexible material for the pad of cushioning material turned over the upper face of the pad, a heel piece placed under the inturned upper margin of the covering, means securing the heel piece and inturned margin to the insole, a welt extending entirely around the middle sole and inseamed thereto, the lower edge of the covering and the forepart of the upper being placed over the lip of the middle sole and secured to the middle sole by the last mentioned in seam, and a wear sole stitched to said welt.

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