

May 7, 1935.

J. B. GREIDER

2,000,326

FOOTWEAR

Filed June 7, 1934

Fig. 1.

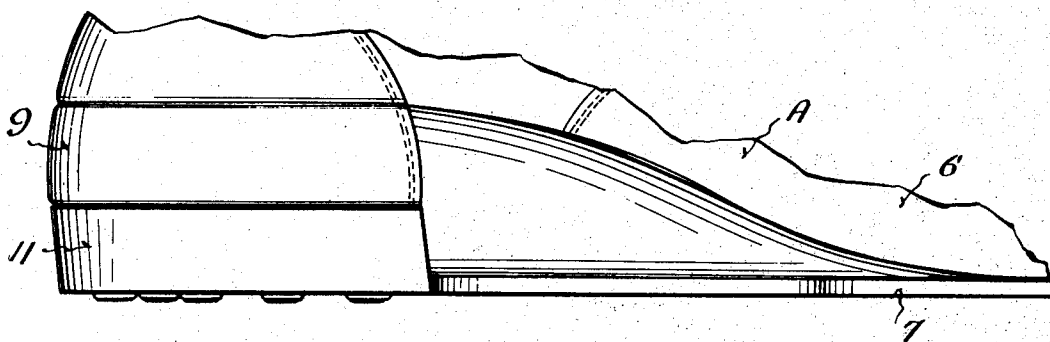


Fig. 2.

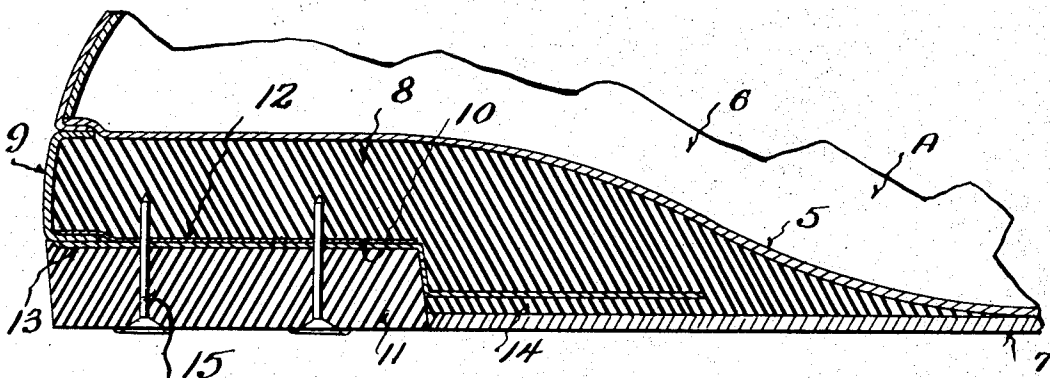


Fig. 3.

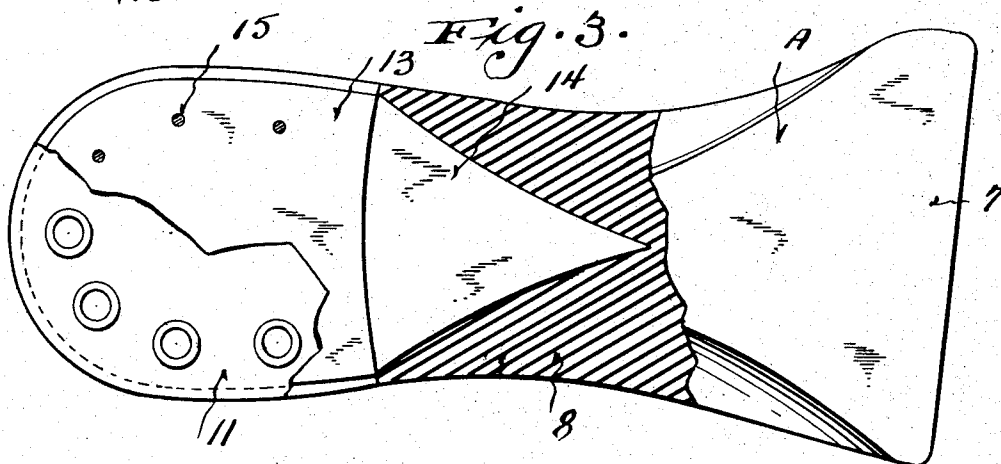
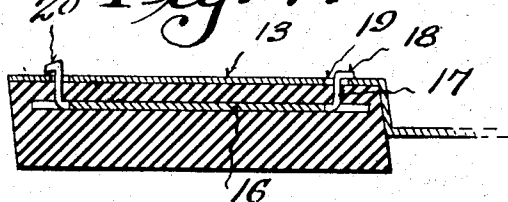


Fig. 4.



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UNITED STATES PATENT OFFICE

2,000,326

FOOTWEAR

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4 Claims. (Cl. 36-76)

This invention appertains to footwear, and more particularly to shoes, which are adapted to be worn by nurses and other persons whose calling necessitates their being on their feet on hard floors the greater part of their working hours.

It has been proposed to provide a wedge-shaped pad of cushion material (such as sponge or other rubber) in the sole of the shoe at the heel to form a substantially flat outer face on the sole, and to give a resilient support for the heels and arches of the wearer. Such shoes are admirable for the purpose intended, but the same are open to certain objections, such as undue wear on the heel face and the difficulty contingent with the repair of the shoes when such wear occurs.

It is, therefore, one of the salient objects of my invention to provide a shoe of the above character so formed as to receive a rubber wear lift or heel which can be readily replaced when worn.

Another important object of my invention is to provide a shoe having a rubber cushioned pad at its heel provided with an offset in its lower face to receive a removable wear heel lift, the offset portion permitting the wear heel lift to extend flush with and from a continuation of the bottom of the shoe sole.

A further object of my invention is the provision of novel means for forming the heel seat in the heel cushion for receiving the replaceable wear heel lift, and novel means for reenforcing and strengthening the seat.

A still further object of my invention is to provide a shoe of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture, and one which can be placed upon the market at a reasonable cost.

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 drawing, in which:

Figure 1 is a fragmentary side elevation of a shoe constructed in accordance with my invention;

Figure 2 is a fragmentary longitudinal section through the improved shoe;

Figure 3 is a fragmentary bottom plan view of the improved shoe with parts thereof broken away and in section to illustrate structural details;

Figure 4 is a detail section illustrating a modified form of my invention.

Referring to the drawing in detail, wherein

similar reference characters designate corresponding parts throughout the several views, the letter "A" generally indicates my improved shoe, which comprises a continuous insole 5, to which is attached in any desired manner the upper 6. Connected with the insole 5 and upper 6 in any desired way is the outer wear sole 7. This wear sole 7 terminates at the heel of the shoe, for a purpose which will be later set forth.

Interposed between the insole 5 and the wear sole 7 is a cushion pad 8, which can be formed of sponge or any other desired type of rubber. As clearly shown in Figure 2 of the drawing, the cushion pad 8 extends beyond the wear sole 7 and covers the entire area of the heel. The pad also extends over the arch of a shoe to form a resilient support for the arch of the wearer. If preferred, the cushion pad can have its sides covered by flexible leather or fabric 9, which can either be secured in place by the use of an adhesive or by stitching.

In accordance with my invention, the cushion pad 8 at the heel has its lower face offset as at 10 to provide a cavity or seat for a removable heel or wear lift 11. This lift or wear heel 11 can be formed from rubber, if so desired. The lower face of the cavity or heel seat has secured thereto a sheet of fabric or leather 12 which is firmly secured to the cushion pad by glue or other desired type of adhesive.

In order to form an adequate support for the rubber wear heel 11 a thin metallic plate 13 is provided. This plate 13 covers substantially the entire surface of the heel seat and the forward edge thereof has formed thereon an offset forwardly directed sharpened, pointed penetrating prong 14. This prong 14 is inserted directly in the cushion pad 8 at the arch, and the plate itself is connected with the sheet of fabric or leather 12 by rivets or in any other preferred manner.

The wear heel 11 can take the form of an ordinary rubber heel and the same is placed in the cavity or heel seat with its forward edge in abutting relation to the front wall of the cavity or seat formed in the cushion, and with the rear edge of the wear sole 7. Suitable fastening elements, such as nails 15, are utilized for holding the rubber heel in place. These nails 15 are driven through the heel and through the plate 13 and sheet 12 into the cushion. Obviously, when wear takes place on the heel 11, the same can be easily removed, and a new heel placed in position.

The wear heel or lift 11 can be secured in place

by means other than the nails 15 and screws or other forms of fastening elements can be employed. If desired, clamps or similar appliances can be utilized, and in Figure 4 I have illustrated a desired modified form of means for securing the heel in place. In this form, a metal plate 16 is molded in the rubber heel and the same has formed thereon upwardly directed prongs 17, which project through the upper face of the heel. These prongs have formed thereon oppositely directed heads 18. The metallic plate 13, at spaced points, can be provided with openings or sockets 19 for receiving the headed prongs. In this form of the invention, the heads 18 of the prongs 17 are first inserted in the openings in the plate 13, after which the rear end of the heel is swung upwardly, and the heads of the rear prongs are snapped into the openings. To facilitate the insertion of the rear prongs, the faces thereof can be bevelled or bent on an angle, as indicated by the reference character 20. When the heel becomes worn, it is merely necessary to utilize an instrument to force the heads of the rearmost prongs out of the uppermost.

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

1. A shoe comprising an upper, an insole, and an outsole, a pad of cushioned material interposed between the insole and the outsole at the heel and arch of the shoe, the wear sole terminating in rear of the arch and in front of the heel, the cushion pad having its lower face offset at the heel, and a removable wear heel secured in said offset.

2. A shoe comprising an upper, an insole, and an outsole, a pad of cushioned material interposed between the insole and the outsole at the

heel and arch of the shoe, the wear sole terminating in rear of the arch and in front of the heel, the cushion pad having its lower face offset at the heel, and a removable wear heel secured in said offset, the lower face of the wear heel being flush with and forming a continuation of the outer face of the outer sole.

3. A shoe comprising an upper, an insole, an outsole, said outsole terminating at the rear part of the arch and in front of the heel, a pad of cushioning material covering the heel portion of the insole and interposed between the insole and the outsole at the arch of the shoe, the heel portion of the cushion pad having its lower face provided with an offset, a strengthening plate secured to the lower face of the offset of the cushion pad and having its forward edge provided with a forwardly directed offset tongue anchored in the arch of the cushion, a removable wear heel fitted in the offset of the cushion pad against the plate, and fastening elements extending through the wear heel, through the plate, and into the cushioning pad, the lower face of the wear heel being flush with the lower face of the sole.

4. A shoe comprising an upper, an insole, an outsole, a pad of cushioning material interposed between the insole and the outsole at the heel and arch of the shoe, the wear sole terminating in rear of the arch, and in front of the heel, a strengthening plate secured to the lower face of the cushioning pad having sockets therein, a removable wear heel, and a plate embedded in said wear heel, and resilient headed prongs on the plate extending beyond the upper face of the heel received in said sockets.

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