B. JACKERSON.

CUSHION HEEL.

APPLICATION FILED APR. 14, 1919.

Patented Jan. 13, 1920.

1,328,154.

Fig. 1.

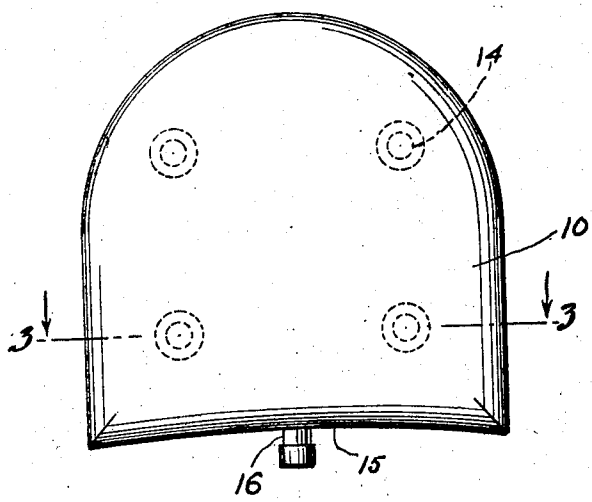


Fig. 2.

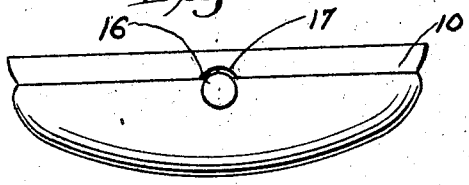
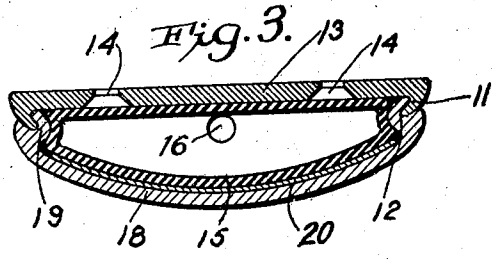


Fig. 3.



WITNESSES

Geo. A. Senior

P. H. Pattison.

INVENTOR

B. JACKERSON

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

BENJAMIN JACKERSON, OF BROOKLYN, NEW YORK.

CUSHION-HEEL.

1,328,154. Specification of Letters Patent. Patented Jan. 13, 1920.

Application filed April 14, 1919. Serial No. 289,786.

To all whom it may concern:

Be it known that I, BENJAMIN JACKERSON, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Cushion-Heel, of which the following is a full, clear, and exact description.

The present invention relates to new and useful improvements in shoes, and it pertains more particularly to a cushion heel therefor.

The primary object of the invention is to provide a cushion or resilient heel in which the elasticity is produced by means of a pneumatic element suitably mounted within the heel.

A further object of the invention is to construct the heel in such a manner that the pneumatic element is at all times protected. A still further object of the present invention is to construct the heel in such a manner that the protecting plate is retained in position by the inflation of the pneumatic element.

With the above and other objects in view, reference is to be had to the accompanying drawings in which—

Figure 1 is a bottom plan view partly in section;

Fig. 2 is an end view;

Fig. 3 is a transverse sectional view.

Referring more particularly to the drawings, the device comprises a frame member 10 composed of aluminum or other suitable light metal, which is adapted to be formed in various sizes and in the general shape of the heel member of a shoe. This metallic frame member 10 has its side walls formed with an interior curved channel 11, the outer edge of said channel being reduced as at 12. The bottom plate 13 of the frame member is provided with a plurality of perforations 14, by means of which the device is secured to the heel member of the shoe.

Mounted within the frame member 10, and resting on the bottom plate 13, is a rubber bag or the like 15, and said bag is generally shaped to conform to the shape of the frame member 10. The forward end of the bag 15 is provided with a valve 16, to permit of inflation of the bag, and the forward end of the frame member 10 is cut out, as at 17, to receive said valve, as shown in Figs. 1 and 2.

The reference character 18 designates a protecting element, which may be of leather or any other desired wear-resisting material, and said element is formed in the shape of the heel. The protecting element 18 is adapted to have its marginal edges underlie the reduced edge 12 of the flange 11, as shown at 19 in Fig. 3.

In assembling the device, the bottom plate 13 is placed in contact with the outer face of the heel and screws or other suitable devices are passed through the openings 14 to secure the heel in place.

After the device has been secured in place, the bag 15 is placed within the heel member, after which the protecting element is positioned therein with its side edges engaging under the flanges 11. The bag 15 is now inflated through the medium of the valve 16, and the protecting element is forced into engagement with the reduced portion 12 of the flange 11. The pressure of air within the bag 15 serves to maintain the protecting element 18 in place, as shown in Fig. 3.

Between the bag 15 and the protecting element 18, is interposed a thin metallic plate 20, which serves to protect said bag against puncture from any article which might pass through the said protector 18.

From the foregoing it will be seen that the present invention provides a pneumatic heel in which the pneumatic element is protected against wear and puncture, without detracting from its resilient properties, and, at the same time, a device which is easily assembled or disassembled is provided.

Having thus described the invention, what is claimed as new is:

1. A device of the character described comprising a metallic heel member having an integral marginal flange provided with an annularly disposed curved face, a pneumatic element positioned within the metallic member, and a protecting element retained in place between said pneumatic element and the inner edge of said marginal flange.

2. A device of the character described comprising a metallic heel member having a marginal flange integral therewith and having an inwardly disposed edge to provide an inner curved surface, a pneumatic element mounted within the heel member and adapted when inflated to conform in shape to the inner curved surface of the flange, and a protecting element having its marginal edge underlying the inner edge

of the marginal flange to secure the same in place upon inflation of the pneumatic element.

3. A device of the character described comprising a flanged metallic heel member, a pneumatic element conforming in shape to the flange of the heel member, means for inflating said pneumatic element, and protecting means for said pneumatic element, said protecting means being retained in place upon inflation of the pneumatic element.

BENJAMIN JACKERSON.