C. S. BUSHELL.

RESILIENT HEEL ATTACHMENT.

APPLICATION FILED APR. 11, 1911.

1,122,681.

Patented Dec. 29, 1914.

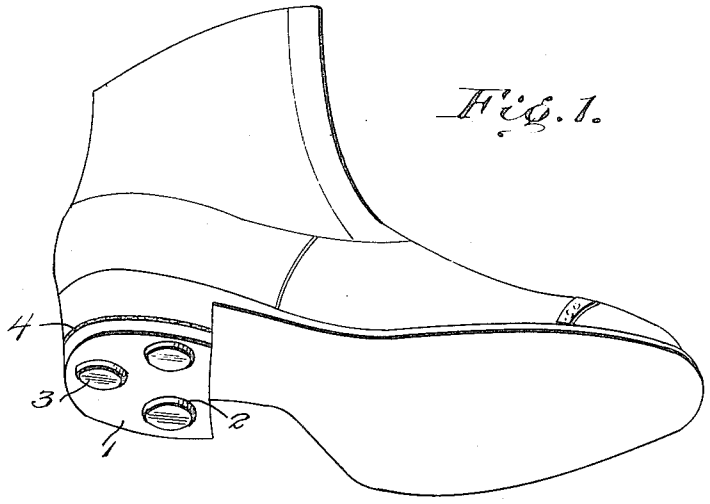


Fig. 1.

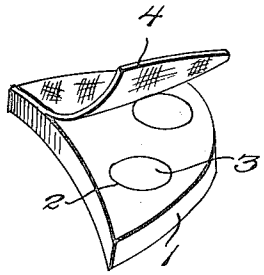


Fig. 2.

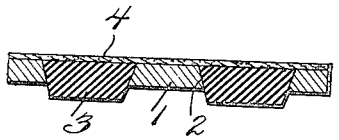


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES S. BUSHELL, OF BELOIT, WISCONSIN.

RESILIENT HEEL ATTACHMENT.

1,122,681. Specification of Letters Patent. Patented Dec. 29, 1914.

Application filed April 11, 1911. Serial No. 620,441.

To all whom it may concern:

Be it known that I, CHARLES S. BUSHELL, citizen of the United States, residing at Beloit, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Resilient Heel Attachments, of which the following is a specification.

This invention has relation to resilient heel attachments, and has for its object to provide a simple attachment adapted to be easily and quickly applied to the heel of a boot or shoe, and which when in position will render walking easy and will eliminate the jar incident to inflexible or non-resilient heels.

With this object in view the attachment includes a lift of relatively hard sole leather, said lift being provided with one or more openings which gradually decrease in transverse sectional area from the upper to the lower surface of the lift. A cushion of rubber or other resilient material is forced into each opening and the said cushions project below the lower surface of the lift. A layer of flexible material, such for instance as thin leather or canvas is applied to the upper surface of the lift and cushion and serves as means for holding the cushion or cushions in position.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of a shoe with the heel attachment applied; Fig. 2 is a perspective view of the attachment; and Fig. 3 is a sectional view of the attachment.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

The resilient heel attachment consists of a lift 1, preferably of hard sole leather, which is provided with one or more openings 2. The said openings 2 decrease in transverse sectional area from the upper to the lower surface of the lift. The shape of the openings is immaterial. They may be square, round, octagonal, or of other configuration. A cushion 3 of rubber or other soft resilient material is forced through each opening 2 so that its lower end portion projects below the lower surface of the lift. The upper surface of the cushion is flush with the upper surface of the lift. A layer of material 4 is secured by an adhesive to the upper surface of the cushion 3 and lift 1 and serves as means for holding the cushion in the lift.

When the attachment is applied to the heel of a shoe, nails, screws, or other securing devices are passed through the lift 1 in the solid portions thereof between the openings 2. The said securing devices are also driven or forced into the heel of the shoe or boot. By such an arrangement it will be seen that a simple heel attachment is provided which when applied to the heel of a boot or shoe will render the same resilient and easy, and at the same time the resilient material will tend to prevent the heel from slipping on smooth or icy pavements.

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

A cushion heel including a lift member having a plurality of frusto-conical openings which taper toward the tread face of the lift member, a plurality of separate frusto-conical cushions arranged in the openings with their minor ends projecting beyond the tread face of the lift member and their major ends flush with the upper face thereof, and a sheet of flexible material secured to the upper face of the lift member and forming a complete cover therefor, said sheet being independent of the cushion members and constituting means for holding all of the cushions against displacement from the lift member.

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES S. BUSHELL. [L. S.]

Witnesses:
J. A. HOWE,
J. DANA PEET.