

Aug. 26, 1924.

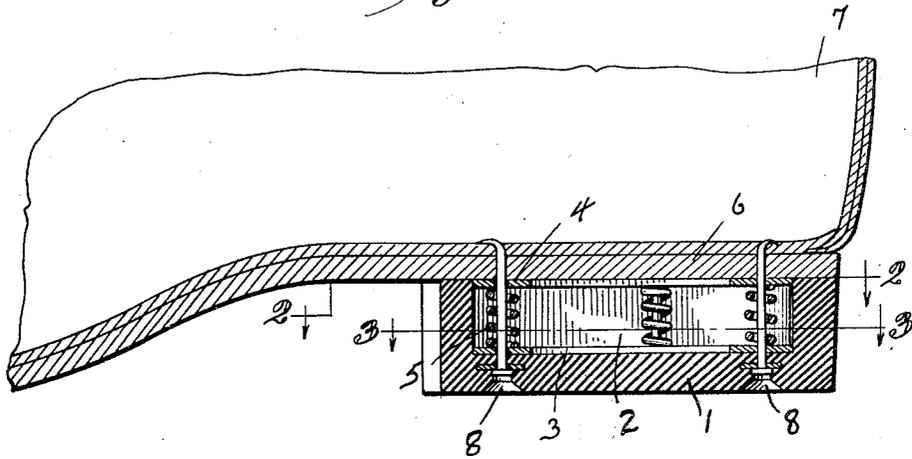
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A. B. LYWITZKI

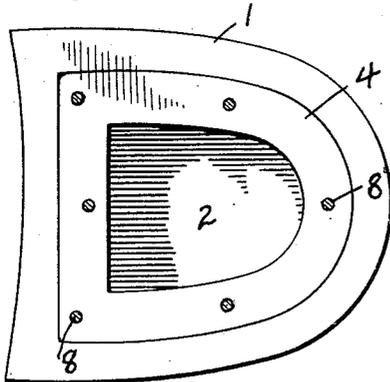
RUBBER HEEL

Filed March 14, 1923

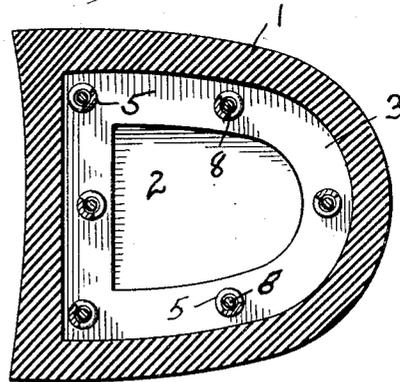
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Inventor

*Albert B. Lywitzki*

# UNITED STATES PATENT OFFICE.

ALBERT B. LYWITZKI, OF CHICAGO, ILLINOIS.

RUBBER HEEL.

Application filed March 14, 1923. Serial No. 625,008.

*To all whom it may concern:*

Be it known that I, ALBERT B. LYWITZKI, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Rubber Heels, of which the following is a specification.

This invention relates to improvements in cushioned heels and has for its prime object to provide a detachable heel that will reduce to a minimum the shocks received when walking upon a hard footing with leather heels or rubber heels of the usual construction.

A further object of the invention is to provide a cushioned heel wherein a rubber heel is provided with a recess in which are provided a series of independent springs so that when the rubber portion of the heel becomes useless, the springs can be inserted in a new heel and are ready to be fastened to the heel of a shoe.

A still further object of the invention is to provide means whereby the independent springs and the rubber heel may be quickly attached and fastened to the heel of a shoe.

And a further object of my invention is to provide a cushioned heel of the above indicated character, which is simple in construction, durable, efficient for the purpose intended, and one that can be manufactured and placed on the market for sale at a relatively low cost.

These and like objects of the invention will be better understood as the description follows and as is specifically pointed out in the appended claims.

Referring to the accompanying drawing which forms a part of this specification and which clearly illustrates the construction and operation of my invention,

Figure 1 is an enlarged vertical sectional view of a shoe heel constructed and attached to a portion of a shoe in accordance with my invention.

Figure 2 is a section taken on line 2—2 of Figure 1, and

Figure 3 is a section taken on line 3—3 of Figure 1.

Referring to the accompanying drawing in detail, like characters will be used to designate like parts in the different views.

In the drawing, the numeral 1 indicates a rubber heel of the usual construction, except that in carrying out my invention the upper face of the rubber heel or the part

which engages the heel of a shoe is provided with a recess 2, in which is positioned a plate 3 that conforms to the shape of the recess 2. A second plate 4 similar in construction to plate 3 is also positioned within the recess 2, and a series of coil springs 5 are positioned within the recess 2 and between the plates 3 and 4 at spaced intervals, all of which is clearly indicated in Figures 1 and 3.

In order to securely fasten my improved cushioned heel to the heel 6 of a shoe 7, I use nails 8 which are similar to the present type of nails used for this purpose. The nails 8 pass through the tread of the heel 1 and then through an aperture formed in the plate 3, upwardly through the coils of the springs 5, through the aperture formed in the upper plate 4 and then engage the heel and sole of the shoe 7, after which the point of the nails is bent downwardly so as not to annoy the wearer of same.

As soon as the rubber heel 1 becomes worn and is unfit for further use, the heel as a whole is removed from the shoe, at which time, the plates 3 and 4 and springs 5 are removed from the old heel and inserted in a new heel, thus allowing same to be used many times.

In view of the foregoing description of my invention taken in connection with the accompanying drawing, it is thought that any further explanation as to the construction, operation, and objects of same, is unnecessary.

While I have shown and described the preferred form of my invention, I realize that various minor changes may be resorted to without departing from the spirit and scope of the invention as claimed, and therefore, I do not wish to limit myself to the exact details of construction shown, nor to the combination and arrangement of parts.

What I claim as new and desire to secure by Letters Patent is:

1. A cushioned heel comprising a body portion formed of rubber and having a recess formed in its upper face, a plate conforming to the shape of the recess supported therein, a series of cushioning springs supported on said plate, a second plate adapted to conform to the shape of the recess and similar in structure to the first mentioned plate adapted to be supported by the cushioning springs, each of said plates being provided with an enlarged central opening

and small openings therethrough adapted to register with each other and with a passage-way through each of the cushioning springs, and means for fastening said rubber portion  
5 and cushioning springs to the heel of a shoe.

2. A cushioned heel comprising a body portion formed of rubber having a recess formed in the upper face thereof, a series of fastening pins arranged adjacent the  
10 outer sides of said heel, said pins projecting through the recess formed in said heel for fastening said heel to a shoe, a plate having

an enlarged central opening therein received in the recess formed in said heel, said plate also having small openings for permitting  
15 said pins to pass therethrough, and springs arranged about said pins and between said plate and shoe.

In testimony whereof, I have affixed my signature in the presence of two witnesses.

ALBERT B. LYWITZKI.

Witnesses:

ARTHUR LARTZ,  
WALTER DALESKE.