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C. B. LEMKE

2,387,334

HEEL LIFT

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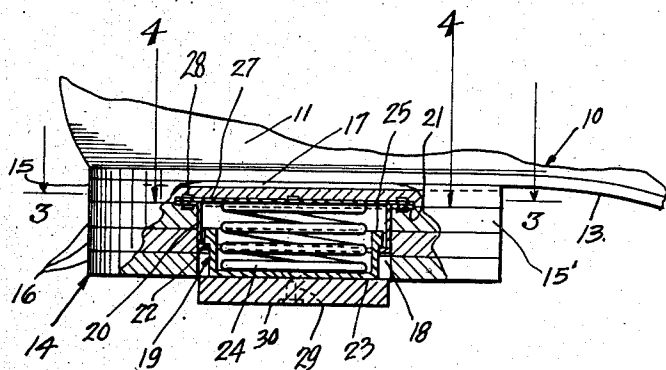


Fig. 1

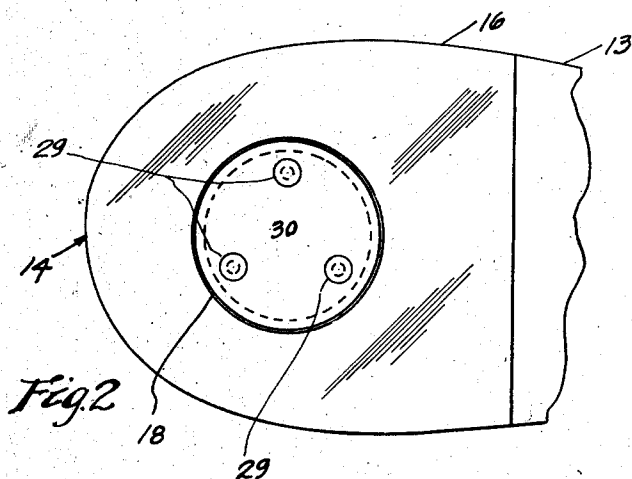


Fig. 2

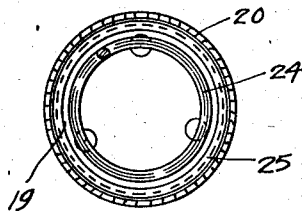


Fig. 4

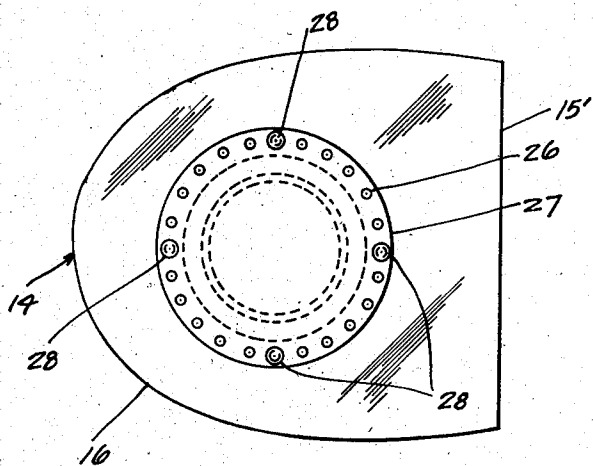


Fig. 3

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UNITED STATES PATENT OFFICE

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HEEL LIFT

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1 Claim. (Cl. 36—38)

This invention relates to certain new and useful improvements in heel lifts and has for its principal object the provision of an improved construction of this character which will be highly efficient in use and economical in manufacture.

More specifically this invention relates to a shoe heel construction having for its purpose to lessen the jar when the heel is placed upon the ground during walking and to give the heel an upward impulse as the weight of the body is being transmitted to the ball of the foot.

In the practical application of my invention, I have found it desirable to produce the device with the minimum number of parts arranged in an assembly for unitary mounting in the heel without the employment of complicated tools.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawing showing the preferred form of construction, and in which:

Fig. 1 is a part sectional side view of the heel lift, embodying my invention;

Fig. 2 is a bottom plan view of the same;

Fig. 3 is a detail view taken substantially on line 3—3 of Fig. 1; and

Fig. 4 is a detail view taken on line 4—4 of Fig. 1.

The drawing illustrates the preferred form of construction of my invention. In this drawing, a shoe of ordinary construction is indicated at 10 and comprises an upper 11 and an insole 13 to which the heel 14 is secured in a manner well known in the art.

This heel comprises leather layers 15 and 16, the layer 15 having a recessed face 17. These layers 15 and 16 are secured together in a manner well known in the shoemaking art.

Formed in the layers 16 is an opening 17 for the reception of my improved heel lift which will now be described in its preferred form of construction.

As shown, this heel lift comprises a spring housing 19. This housing 19 comprises an upper ring 20 having an outwardly extending annular flange 21 at its top edge and an inwardly extending flange 22 at its lower edge. This housing further includes a cup 23 providing a set for the spring 24 arranged in the housing 19.

This cup has at its top edge an outwardly extending flange 25 telescopically arranged in the ring 20 and limited in its downward movement by engagement with the ring flange 22.

The ring flange 21 rests upon the upper (15)

of the layers 16 and is provided with a plurality of openings 26. Positioned upon this ring flange 21 is a cover plate 27, the plate 27 being secured to the ring flange 21 by rivets 28. This cover plate serves as an abutment for the top of the spring 24.

Such of the holes 26 as do not have rivets, like those indicated at 28, projected therethrough, serve to allow the passage of any nail used in securing the layers 16 together and which might be located in line with such opening, otherwise the nail or nails might be caused to bend.

As is apparent, the ring 20 and cup 23 are telescopically arranged with respect to each other so that when pressure is applied to the cup it may move within the ring against the action of the spring 24.

To complete the invention, by means of suitable rivets 29 I secure to the cup 23 a lift 30 which may be formed of any suitable material such as leather or rubber.

By employing a heel lift of the construction described, one's walking is made more comfortable and the leather heel section more lasting as, in addition to the accomplishments hereinbefore set forth, wear upon the heel is reduced to a minimum.

It is apparent that when all the parts of the lift are assembled there results a unitary structure greatly facilitating the mounting of the lift in the heel proper, which heel proper may be of any well known standard construction.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent is:

A shoe heel lift comprising a ring section, a flange on the said section, a cover plate, means for securing said plate to said flange, a cup telescopically arranged within the ring section, a spring arranged between the cover plate and the cup, a lift carried by the cup, and means for securing the lift to the cup, in combination with a heel structure having an opening for the reception of the ring section and the cup, and a layer adapted to overlie the cover plate.

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