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2,125,657

DETACHABLE SHOE HEEL

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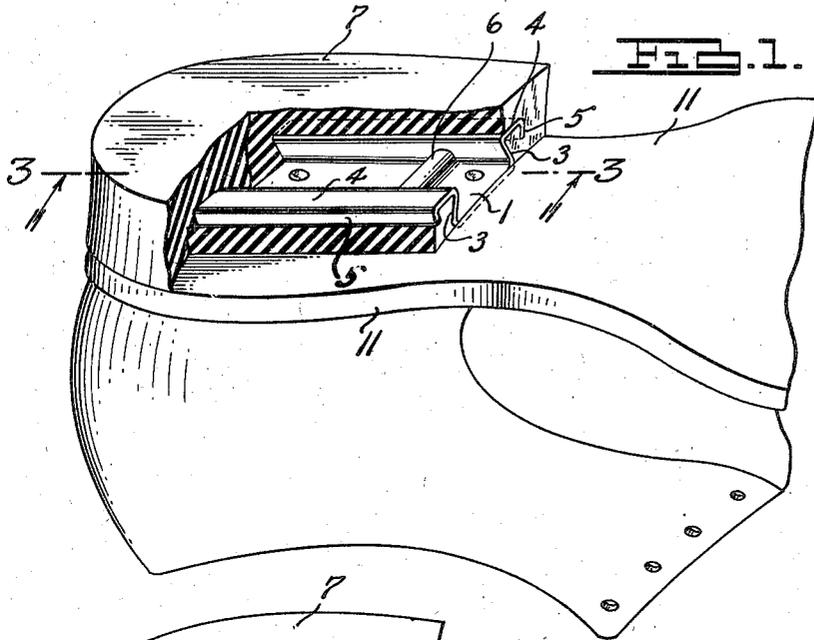


FIG. 1.

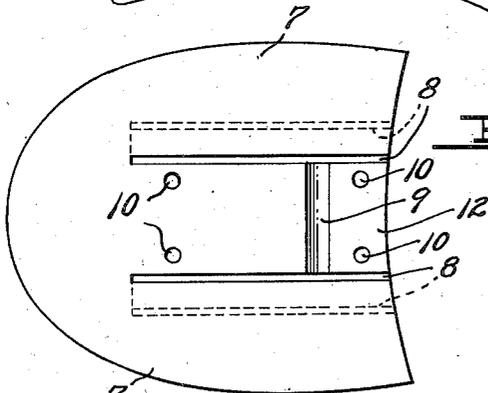


FIG. 2.

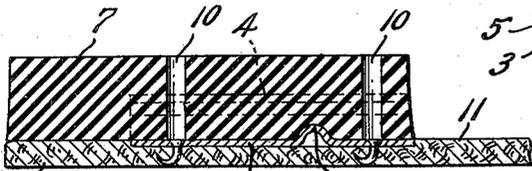


FIG. 3.

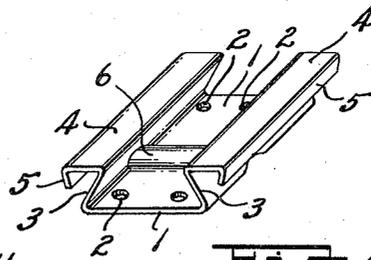


FIG. 4.

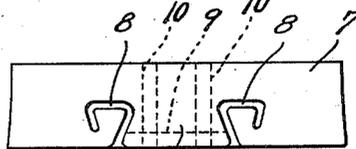


FIG. 5.

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DETACHABLE SHOE HEEL

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Detroit, Mich.

Application November 11, 1936, Serial No. 110,215

4 Claims. (Cl. 36—36)

This invention relates to detachable shoe heels and the object of the invention is to provide a shoe heel including a plate to be secured to the shoe and the heel being removable from the plate for replacement.

One of the particular objects of the invention is to provide a plate having one or more longitudinal flanges of various cross section design on which the heel is slidably mounted and having one or more transverse rib portions cooperating with one or more transverse grooves in the heel whereby when the heel is moved to proper position on the plate the groove or grooves in the heel will snap over the transverse rib portion or portions on the plate member and lock the heel from movement longitudinally of the plate member.

Another object of the invention is to provide a simple and cheap construction comprising a plate adapted for attachment to the shoe and a rubber heel arranged to be attached to the plate without the use of tools.

Another object of the invention is to provide a detachable shoe heel including a plate fitting into slots provided in the heel, the plate and heel in assembled relation being attachable to the shoe and after attachment the heel being removable from the plate for replacement.

A further object of the invention is to provide a detachable shoe heel which may be slipped onto the guide plate by hand and which will lock in position on the guide plate when moved to locking position.

These objects and the several novel features of the invention are hereinafter more fully described and claimed and the preferred form of construction by which these objects are attained is shown in the accompanying drawing in which—

Fig. 1 is a perspective view of a shoe equipped with our detachable shoe heel with parts of the heel broken away to show the attaching plate.

Fig. 2 is a plan view of the shoe heel showing the side of the heel toward the shoe.

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

Fig. 4 is a perspective view of the plate for attaching the heel to the shoe.

Fig. 5 is a view of the forward edge of the heel showing the plate slots therein.

The attaching plate is shown more particularly in Fig. 4 and comprises a flat base member 1 provided with nail apertures 2. At the opposite sides, this plate is provided with inwardly sloping flanges 3 terminating in outwardly extending flanges 4 having turned up outer edges 5.

Pressed into the bottom of the plate 1 is a transverse rib 6 which extends across the plate 1 between the flanges 3 as shown more particularly in Figs. 1, 3 and 4. The heel 7 is preferably made of rubber or other semi-yieldable material and is provided with slots 8 shown in Figs. 2 and 5 adapted to be slipped over the flanges 3, 4 and 5 of the attaching plate 1. Between the slots 8 the heel is provided with a transverse groove 9 arranged to fit over the transverse rib 6 of the plate 1 as the shoe heel is slipped into locking position. As the heel is formed of rubber and is semi-yieldable, it may be pushed over this transverse rib 6 until the groove 9 engages over said transverse rib and locks the heel to the plate.

The heel is provided with apertures 10 which are so positioned as to be in alignment with the nailing apertures 2 of the attaching plate when the groove 9 engages over the transverse rib 6. With the plate and heel thus assembled the heel and plate may be positioned on the shoe as shown in Fig. 1 with the apertures 10 in the heel in alignment with the apertures 2 in the plate as will be understood from Fig. 3. At this time the nails may be dropped down through the apertures 10 and driven into the shoe with a punch but before this nailing operation the heel may be adjusted in position on the shoe to proper alignment with the rounded rear edge of the sole 11, at which time, the nails may be driven into the sole 11 to secure the plate and heel to the shoe and assure proper positioning of the attaching plate. When the heel becomes worn, pressure may be applied to the front edge of the heel to force the heel off to the rear causing the groove 9 to move off from the rib 6 and, if necessary, the central portion 12 of the heel may be pried up slightly to assist the forward portion of the heel in moving over the rib 6. At this time a new heel may be inserted on the flanges of the plate 1 and pushed up to position to cause the groove 9 in the new heel to engage over the transverse rib 6. It is to be noted that the nail holes 10 in the heel itself are only used in the original application of the attaching plate to the shoe in order to allow proper adjustment of the heel on the shoe before the nails are driven through the attaching plate and, after the nails have once been driven through the plate, additional heels may be assembled on the plate and will come to the same alignment with the rounded edge of the sole.

It is to be noted that a series of transverse ribs 6 may be provided, if desired, although a single projection is usually sufficient to lock the heel

in place. Also, that projections of other design in the flat base member or flanges of the plate may be substituted for the transverse ribs; and that cooperating, corresponding indentations or grooves in the heel may, in such event, also be

5 provided.
 From the foregoing description it becomes evident that the device is very simple and efficient in operation, is cheap to make and easy to install and provides a device which accomplishes the objects described.

10 Having thus fully described our invention, its utility and mode of operation, what we claim and desire to secure by Letters Patent of the United States is—

15 1. A shoe having a plate, a flange at each side of the plate, the flanges extending in parallel relation, a shoe heel of yieldable material fitting over said flanges and movable longitudinally thereof, a transverse rib formed in the plate between said parallel flanges, the shoe heel being provided with a transverse groove engaging over said transverse rib as the heel is moved to locking position on the plate, the plate being provided with a series of nailing apertures in the bottom and the heel being provided with a series of apertures aligning with the nailing apertures of the plate as the heel is moved to locking position on the plate.

20 2. A shoe having a sheet metal plate having nailing apertures, the edges of the plate being provided with parallel inturred flanges terminating in out-turned portions having turned up edges, the plate being provided with a trans-

verse rib formed therein between the inturred flanges, a shoe heel slotted to fit the flanges and slidable longitudinally thereof, the shoe heel being provided with a portion fitting between the inturred flanges and having a transverse groove in said portion engaging over said transverse rib to lock the heel on the plate.

3. A shoe having a sheet metal plate, a pair of flanges on the plate, a shoe heel of semi-yieldable material provided with grooves fitting said flanges and movable longitudinally of the plate on the flanges, a transverse rib formed in the plate and extending between the flanges and the heel having a transverse groove engaging said transverse rib to prevent longitudinal movement of the heel on the plate.

4. A shoe having a plate, the plate having spaced parallel side flanges, a transverse rib formed in the bottom of the plate between the side flanges and extending into the space between the side flanges, the transverse rib being curved in cross section, a shoe heel of semi-yieldable material fitting over the side flanges and movable longitudinally thereof, the heel having a portion extending between the side flanges and into contact with the bottom plate, said portion provided with a transverse groove curved in cross section and engaging over the transverse rib as the heel is in place, the engagement of the groove over the rib resisting longitudinal movement of the heel in either direction longitudinally of the plate.

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