Sept. 27, 1927. 1,643,294

A. H. COWLIN

INTERCHANGEABLE RUBBER HEEL

Filed April 28, 1926

Fig. 1

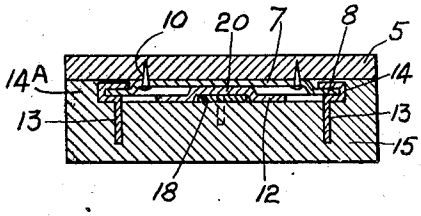


Fig. 2

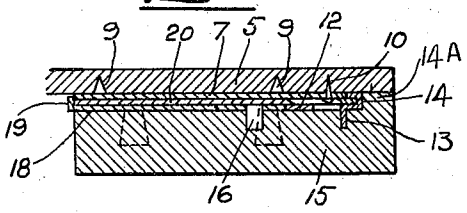


Fig. 3

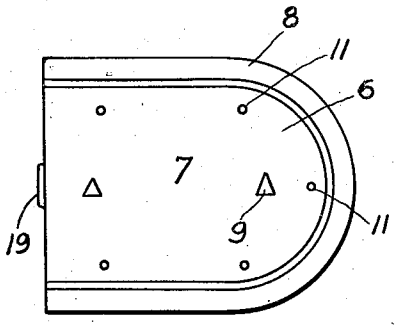


Fig. 4

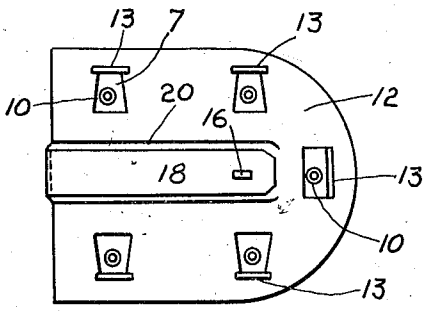


Fig. 5

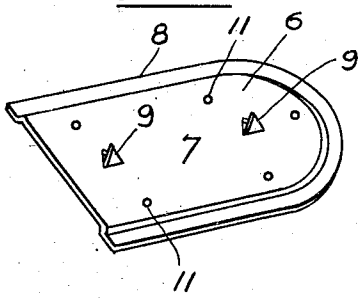
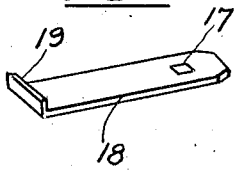


Fig. 6



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UNITED STATES PATENT OFFICE.

ARTHUR H. COWLIN, OF SIDNEY, BRITISH COLUMBIA, CANADA.

INTERCHANGEABLE RUBBER HEEL.

Application filed April 28, 1926. Serial No. 105,228.

My invention relates to interchangeable rubber heels and has for its principal objects to provide means whereby a pair of rubber heels may be attached to a pair of shoes in such a manner as to be easily and quickly capable of being transferred from one shoe to the other so that the heels may be worn evenly.

Another very important object of the invention is to provide simple and efficient means for attaching rubber heels to shoes in such a manner that said rubber heels may be conveniently and quickly detached from one shoe and attached to another shoe.

A still further important object of the invention resides in the provision of an improvement of this nature which is exceedingly reliable, strong, durable, easy to manipulate, inexpensive to manufacture, and otherwise well adapted to the purpose for which they are designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed in the following specification, in which:—

Fig. 1 is a transverse section through a shoe and heel embodying the feature of my invention.

Fig. 2 is a longitudinal section therethrough.

Fig. 3 is a top plan view of the attaching device.

Fig. 4 is a bottom plan view of the portion of the attaching device which is engaged on the rubber heel.

Fig. 5 is perspective view of the portion of the attaching means which is engaged with the heel of the shoe.

Fig. 6 is a perspective view of a latch forming part of the attaching means.

Referring to the drawing in detail, it will be seen that 5 designates the heel portion of a shoe sole, usually constructed of leather. A plate 6 is stamped from sheet metal so as to provide a body 7 and a flange 8 disposed about the margin thereof and offset therefrom so as to be disposed in a different plane from the body. A plurality of prongs 9 are struck from the body along its longitudinal axis, which are centered upon the heel portion 6 of the shoe and are driven thereinto so as to hold it in position prior to the driving of nails or other fastening elements 10 through the apertures 11 to hold the plate securely to the heel portion.

A plate 12 has prongs 13 struck therefrom and the rubber heel 14 is molded with the prongs 13 embedded therein. The rubber heel is of greater width and length than either of the plates 6 and 12, so as to provide a marginal edge 14^A of rubber around the sides and rear of the heel so as to render the plates and fastening means invisible except from the underside of the shoe. A marginal flange 14 is formed integrally on the plate 12 and is bent over upon itself to provide a recess for the reception of flange 8, and thus the plate 12 may be slid to engage its flange 14 on the flange 8. A prong 16 is struck from the plate 12 and extends through an opening 17 in a latch shank 18 having the offset end 19. This tab 16 is also embedded in the rubber heel 15 as is clearly shown in Fig. 2. The shank 18 is receivable in a recess 20 provided longitudinally in the plate 12 by a stamping process.

The end 19 is adapted to engage the forward end of the plate 6 to prevent the disengagement of the plate 12 therefrom. It will be seen that the end 19 may be pried downwardly to clear the end of the plate 6 because of the resilient nature of the rubber heel 15 so that when desired, the rubber heel may be removed from one shoe and placed on another shoe. Thus a pair of rubber heels may be worn down evenly which is obviously desirable from a health standpoint and from an economical standpoint.

This interchange of the rubber heels may be accomplished quickly and easily because of the novel attaching means used.

The present embodiment of the invention has been disclosed by way of example, since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description. It will be apparent, however, that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed, or sacrificing any of its advantages.

What I claim as my invention is:

In combination, a shoe sole, a plate having prongs struck therefrom embedded in the shoe sole, fastening elements holding the plate to the sole, said plate provided with

a marginal offset flange, a second plate having prongs struck therefrom and embedded in the rubber heel, said second plate being provided with a marginal flange bent over upon itself to form a recess for slidably receiving the first mentioned flange, said second plate being formed with a recess and a prong projecting from the recess, a latch shank situated in the recess between the second plate and the rubber heel and the prong of the recess piercing a portion of the shank and embedded in the rubber heel, said shank having an offset extension for engaging the edge of the first mentioned plate to prevent accidental displacement of the second plate from the first plate.

Dated at Victoria, B. C., Canada, Apr. 22, 1926.

ARTHUR H. COWLIN.