UNITED STATES PATENT OFFICE.

CLARENCE C. GOODMAN, OF ELYRIA, OHIO.

RUBBER HEEL.

1,387,976. Specification of Letters Patent. Patented Aug. 16, 1921.

Application filed August 23, 1920. Serial No. 405,435.

To all whom it may concern:

Be it known that I, CLARENCE C. GOODMAN, a citizen of the United States, residing at Elyria, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Rubber Heels, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in rubber heels.

An important object of the invention is to provide a heel of this character having an upper portion or lift adapted to be permanently secured to the shoe and a lower lift adapted to coact with the upper lift and to be joined thereto simply by the application of pressure.

A further object of the invention is to provide a heel of this character wherein the lower lifts are made interchangeable from left to right and vice versa thereby enabling the wearer of the shoe in event of uneven wear upon the lower lifts to interchange the same to counteract the effect of such wear. This feature of my invention is important in that where the heel is worn unevenly the twist imparted to the foot and to the shoe is injurious to both, deforming the counter of the shoe and placing a weakening strain upon the ankle of the wearer.

A further object of the invention is to provide such a heel wherein the upper and lower lifts are provided with oppositely extending concavities adapted to coact when the lifts are in assembled position to form a vacuum or cushioning chamber the connection between the lifts being such as to form a seal arranged about the chamber which effectually prevents the entrance of water thereto.

A still further object of the invention is to provide a heel embodying interchangeable lifts wherein the interchangeability is such that it may be performed by the wearer of the shoe without the assistance of a cobbler.

Other objects and advantages of the invention will become apparent throughout the course of the following description.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein like reference characters designate like parts throughout:

Figure 1 is a transverse sectional view taken through a heel constructed in accordance with my invention.

Fig. 2 is a longitudinal sectional view taken through the heel the lifts being shown in separate relation, and

Fig. 3 is a perspective view of the upper lift of my improved heel.

Referring now more particularly to the drawings, the numeral 10 indicates the upper lift of a heel constructed in accordance with my invention. This upper lift is secured to the heel in any desired manner, preferably by placing nail washers 11 in countersunk apertures formed in the heel and securing the nail washers in position by means of nails extending through the washer lift and into the heel. These securing means will be of course uniformly spaced about the heel. Spaced uniformly from the edges of the lower surface of the lift is a continuous groove 13 circular in cross section connected with the lower surface of the heel by a restricted outlet 14 of less width than the cross sectional diameter of the groove 13. The under surface of the lift is likewise provided inwardly of the groove 13 with a concaved portion 15 having its edges conforming to the contour of the heel and equally spaced from the edges thereof.

The numeral 16 designates the lower lift which is provided upon its upper surface with an upwardly extending flange 17 provided at its upper end with a bead 18, circular in cross section, of greater diameter than the flange 17 and of the same diameter of the groove 13 of the lift 10. The lift 16 is provided with a downwardly concaved central depression 19 arranged inwardly of the flange 17 and conforming to the shape of the upwardly concaved portion 15 of the heel 10.

The sections or lifts of my heel subsequently to the upper lift 10 thereof being secured to the shoe are assembled by placing the lower lift with the upwardly flange thereof alined with the groove of the upper lift and placing pressure thereon. This pressure causes the enlarged portions 18 to pass through the restricted outlet of the groove and seat in the groove 13 thereby causing the two sections of the heel to be secured together sufficiently firmly to prevent their separation under normal conditions and in fact under any conditions which might arise in walking. The bead 18 being

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Fig. 1.

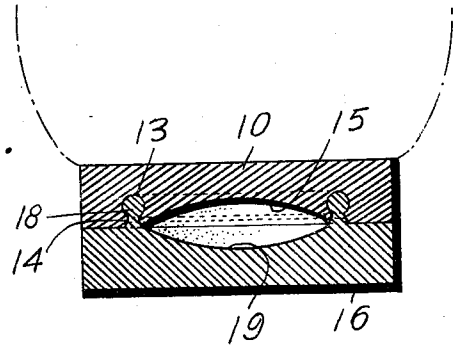


Fig. 2.

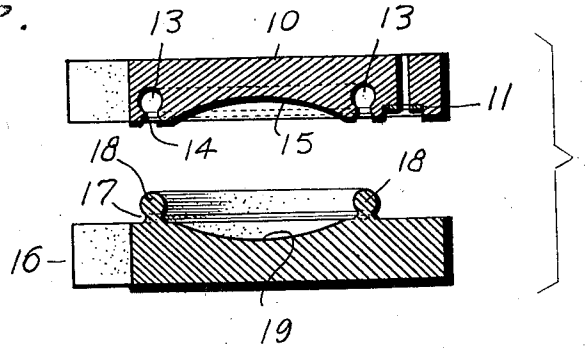
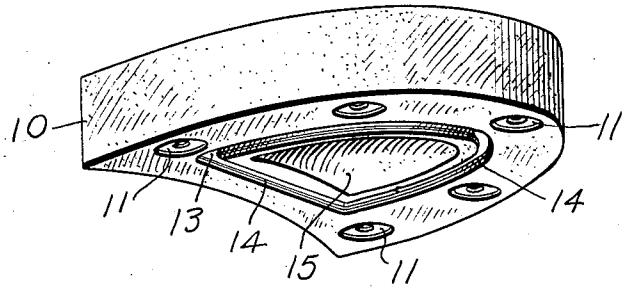


Fig. 3.



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