T. J. CARROLL & M. H. KANE.

HEEL PLATE.

APPLICATION FILED JULY 3, 1915.

1,174,681.

Patented Mar. 7, 1916.

Fig_1_

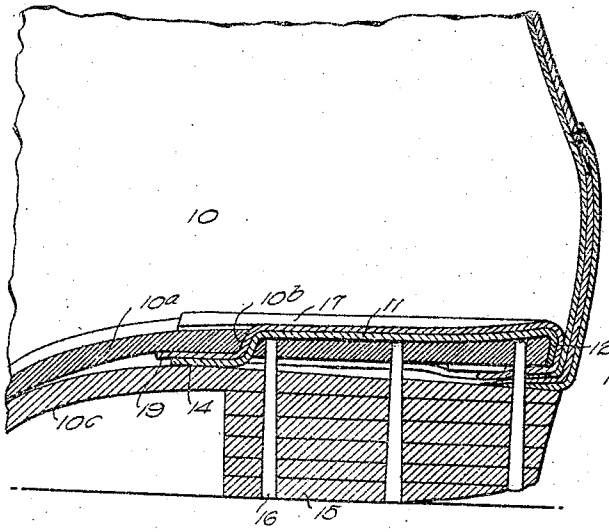


Fig_2_

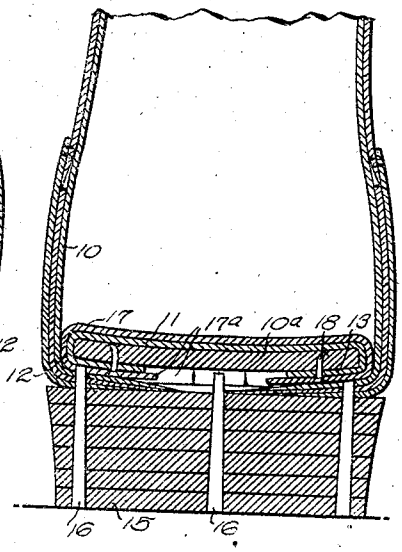
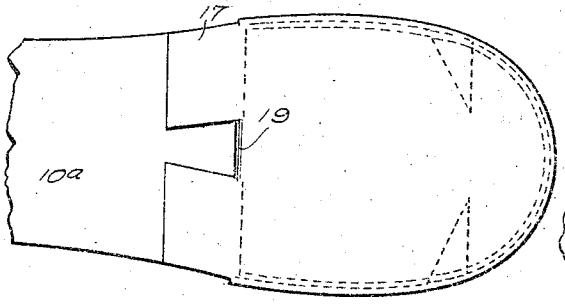


Fig_3_

Fig_4_



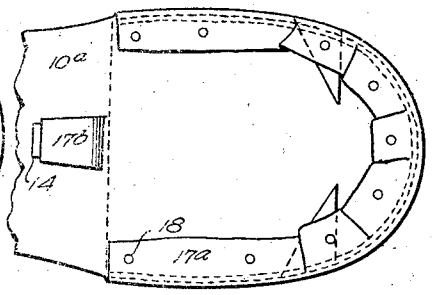


Fig_5_

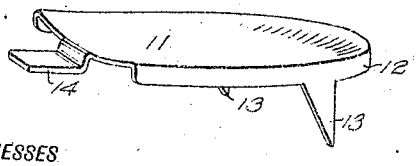
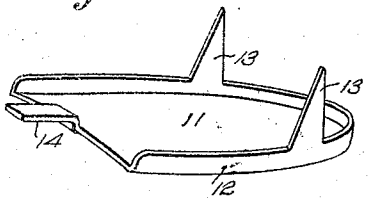


Fig_6_



WITNESSES

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HEEL-PLATE.

1,174,681. Specification of Letters Patent. Patented Mar. 7, 1916.

Application filed July 8, 1915. Serial No. 37,855.

To all whom it may concern:

Be it known that we, THOMAS J. CARROLL and MATHEW HAMILTON KANE, citizens of the United States, and residents of Clifton, in the county of Greenlee and State of Arizona, have invented a new and Improved Heel-Plate, of which the following is a full, clear, and exact description.

In the ordinary boot or shoe, including oxfords, the nails that hold the heel in place very frequently protrude through the interior surface of the heel after the shoe has been worn for a short period, thereby causing discomfort to the wearer. When the nails thus protrude, the shoe is placed upon a last, the nails are driven farther into the heel and clenched on the inner surface, but within a short time the nails again are liable to protrude. One result of the second driving of the nails is that all the wear is thrown on the leather of the heel, and the wearing qualities of the nails are not utilized. To overcome the mentioned objectionable features of boots and shoes as above referred to, is the prime object of our invention, and the object is attained through the medium of a non-puncturable heel plate disposed and secured at the interior of the shoe. Also, it is practically the universal custom with manufacturers of boots and shoes, to secure the covering or padding in the heel at the interior by means of adhesive material. After a short period of wear, particularly if the feet of the wearer perspire freely, the covering or padding becomes loose, and usually it is then discarded. Our invention provides for the effective fastening of the covering or padding by means of our improved heel plate, whereby the said covering or padding is effectively prevented from becoming loose. Furthermore, in securing heels to boots and shoes, the liability of nails protruding at the interior is recognized, and the minimum number of nails is employed. By the use of our improved heel plate a materially increased number of nails may be employed, if desired, whereby to better secure the heel and to provide the increased wearing qualities due to the large number of nails.

The invention will be particularly explained in the specific description following.

Reference is had to the accompanying drawings forming part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which:

Figure 1 is a longitudinal vertical section showing our improved heel plate and covering applied; Fig. 2 is a transverse vertical section; Fig. 3 is a plan view of the heel plate and cover applied to an inner sole; Fig. 4 is an inverted plan view thereof; Fig. 5 is a perspective view of the heel plate; and Fig. 6 is a perspective view of a heel plate showing the underside.

Our invention is applicable to any form of boot or shoe 10. Our improved heel plate 11 is stamped up from sheet metal and formed at the edge with a depending flange 12. On the flange 12 are formed two or more spurs 13.

To apply the heel plate 11 to a shoe, it is secured to the inner sole 10^a of the shoe before the latter is placed in position. The depending flange 12 extends around the sides and back of the plate 11 to receive the rear end of the inner sole 10^a. There is formed in the inner sole a slit 10^b extending therethrough, and on the forward end of the plate 11 is an offset tongue 14 projecting forwardly. The tongue 14 is adapted to pass through the slit 10^b to lie at the underside of the inner sole 10^a between the same and the sole 10^c at the shank of the shoe. Thus the body of the late will cover the inner sole 10^a at the heel of the shoe. The tongue 14 having been positioned, the spurs 13 are clenched at the underside.

The inner sole 10^a with the applied heel plate 11 having been positioned in the shoe, the heel 15 of the shoe is secured by the usual nails, which are driven against the plate 11, so that the latter prevents the nails from protruding at the interior of the heel of the shoe. An increased number of nails may be employed, since danger of their protruding is eliminated, and thereby increased wearing qualities will be imparted to the heel.

Our improved heel plate is provided with a padding 17, of the general shape of the plate, but of larger dimensions, so as to extend beyond the same at the front, and to be turned under at the sides and back of the said plate, so that the turned-in edge portion of the covering will be clamped beneath the inner sole 10^a between the same and the sole 10^c. The turned-in edges may be secured by tacks 18, as indicated in Figs. 2 and 4. At the front the cover 17 is slitted

as shown in Fig. 3 to provide a tongue 19 corresponding with the tongue 14 of the heel plate. The said tongue 19 is passed, with the tongue 14, through the slit 10^b of the inner sole 10^a. Thus it will be seen that the cover is permanently held in position.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:

1. A heel plate having a depending flange extending at the sides and back of the plate to receive the rear end of an inner sole of a shoe, the forward end of the said heel plate having an offset forwardly projecting tongue adapted to be passed through an inner sole to lie at the underside thereof.

2. A heel plate having a depending flange extending around the sides and back of the plate, said flange having projecting spurs adapted to be turned upon the underside of the inner sole, there being at the front of the heel plate an offset forwardly projecting tongue adapted to be passed through the inner sole to lie at the underside thereof.

3. A heel plate for shoes having means to secure the same to an inner sole, and a covering material over the said plate, the said heel plate having an offset forwardly projecting tongue at the front end and the said covering having a tongue corresponding with the tongue of the heel plate, the said tongues being adapted to be passed through an inner sole of a shoe to lie at the under side thereof.

In testimony whereof we have subscribed our names to this specification in the presence of two subscribing witnesses.

THOMAS J. CARROLL.
MATHEW HAMILTON KANE.

Witnesses:
DAVE W. LING,
IRA P. DILLINER.