

A. B. HEIMBACH.
 RUBBER HEEL.
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961,126.

Patented June 14, 1910.

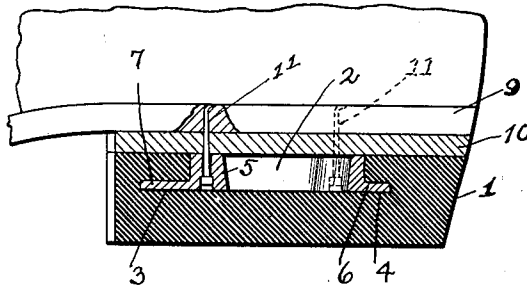


Fig. 1.

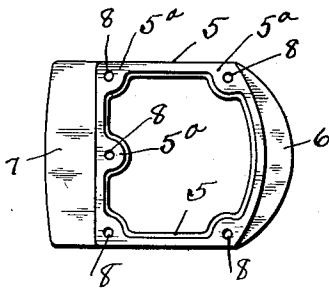


Fig. 2.

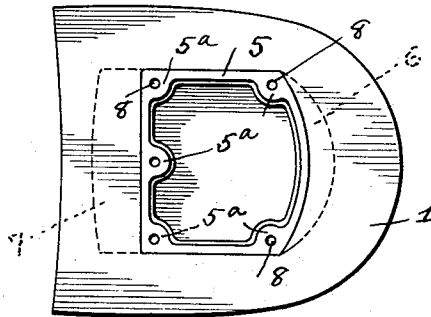


Fig. 3.

Witnesses

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RUBBER HEEL.

961,126.

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To all whom it may concern:

Be it known that I, ALTON B. HEIMBACH, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Rubber Heels, of which the following is a specification.

My invention relates to the improvement of rubber heels of that class which are adapted to be connected with a leather shoe and has particular relation to the improvement of the construction set forth in my former Letters Patent No. 850,156 issued under date of April 16, 1907.

The objects of my present invention are to provide improved means for detachably connecting a rubber heel with a shoe; to so construct and arrange the attaching means and rubber heel as to admit of the heel body being readily engaged with or disengaged from the attaching device and to so construct my improved attaching device as to obviate the necessity of employing a spring plate or other spring member in connection therewith and at the same time preserve the resilience or yielding action of the heel.

A further object consists in so constructing and connecting the attaching device with the heel as not to impair the wearing quality or resilience of the rear portion of the heel, which is ordinarily subjected to the greatest pressure.

These objects I accomplish in the manner illustrated in the accompanying drawing, in which—

Figure 1 is a central longitudinal section of my improved heel showing the same attached to a shoe. Fig. 2 is a plan view of the attaching plate or frame, and, Fig. 3 is a plan view of a rubber heel showing the attaching plate connected therewith and disconnected from the shoe.

Similar numerals refer to similar parts throughout the several views.

1 represents a rubber heel body of suitable size and contour, the upper side of said heel body having formed therein a socket 2 which with the exception of having its rear end slightly curved, is substantially square in outline. As indicated at 3, the heel body is formed at the base of the forward portion of the socket 2 with a forwardly extending horizontal recess 3 and at the base of the rear portion of the socket

with a rearwardly extending horizontal recess 4 of less length than the recess 3.

5 represents the attaching member which is in the nature of a metal frame preferably aluminum, which frame has projecting rearwardly from its base a curved lip 6 and from the base of its forward portion a somewhat longer lip 7. The body of the frame plate 5 is of such size as to fit snugly within the socket 2 of the heel body 1 and is formed at its corners and at the center of the length of the front bar of the frame with enlargements 5^a through which enlargements are formed nail holes 8.

The metallic frame plate formed as described, is as indicated more clearly in Fig. 1 of the drawing, to be rigidly connected with the heel carrying base 9 of the shoe or with the first leather heel lift 10 of the shoe, by forcing nails 11 upward through the holes 8 of the frame plate, thence into the heel carrying base of the shoe through the lift 10. It is obvious, however, that the lift 10 may be omitted and the heel attached directly to the shoe base or rear portion of the sole.

When the frame plate is thus connected with the shoe body, it will be understood that a rubber heel constructed as herein described, may be readily connected with said frame plate by so bending and manipulating the heel as to cause the lip 7 to enter and fill the heel recess 3 and the lip 6 to enter and fill in a like manner the recess 4. When the rubber heel is thus engaged with the attaching device, it will be understood that the natural tendency of the heel body to lie in the proper horizontal position, will serve to retain it in connection with the frame plate.

Owing to the fact that the body of the attaching device is in the nature of an open frame, it is obvious that the yielding action of the rubber at the central portion of the heel, will not be retarded or the resiliency of the heel affected. It will also be noted that the attaching lips 6 and 7 are comparatively short, thus leaving in rear of the lip 6 and in front of the lip 7, a considerable thickness of solid rubber. It will also be observed that I have formed the rear lip 6 of less length than the forward lip 7, thus insuring a greater thickness of solid rubber at the rear portion of the heel which is ordinarily subjected to the greatest wear and

pressure. It will thus be seen that my improved attaching device, is so formed and connected with the heel as to present the least opposition to the resiliency or yielding
5 action of the rubber.

It is obvious that by the construction herein described, a worn rubber heel may be readily detached from a shoe and a new heel attached in place thereof.

10 From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the
15 purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes

as may be made within the scope of the appended claim. 20

What I claim, is—

In a rubber heel, the combination with a shoe and a horizontally disposed plate having a body in the nature of an open frame attached to said shoe, said frame plate hav- 25
ing forwardly and rearwardly extending base lips, of a rubber heel body having an upper side socket adapted to receive the frame plate and having lateral recesses at the base of said socket. 30

In testimony whereof I affix my signature in presence of two witnesses.

ALTON B. HEIMBACH.

Witnesses:

SAMUEL T. HARRISON,
HUGH J. McCLEARN.