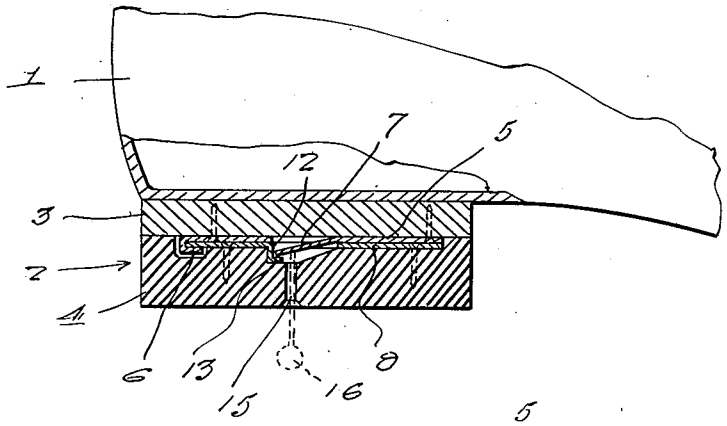
Oct. 11, 1927. 1,645,187

A. F. DUCHENEAU

SHOE HEEL

Filed June 28, 1926

Fig. 1.



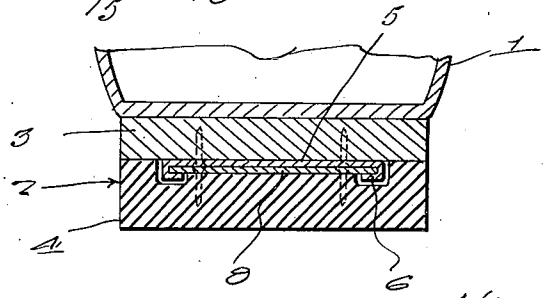


Fig. 2.

Fig. 4.

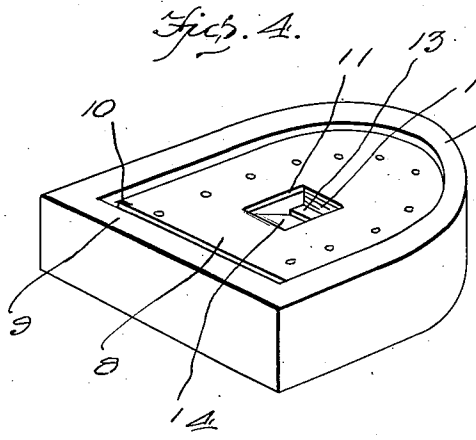
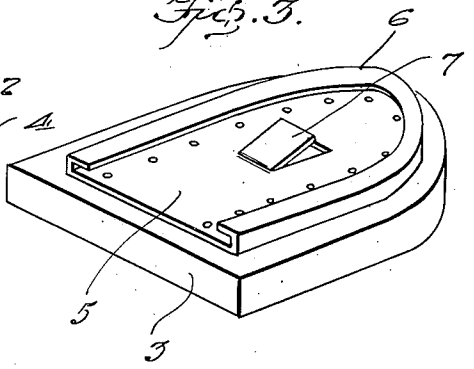


Fig. 3.



Inventor

A. F. Ducheneau

By Clarence A. O'Brien

Attorney

Patented Oct. 11, 1927. 1,645,187

UNITED STATES PATENT OFFICE.

ALFRED F. DUCHENEAU, OF WINSLOW, MAINE.

SHOE HEEL.

Application filed June 28, 1926. Serial No. 119,105.

This invention relates to an improved shoe heel of the type composed of a leather lift and a rubber lift, wherein the rubber lift is detachably connected with the leather lift so that when it becomes unduly worn, it may be removed and replaced by the wearer in order to obviate the necessity of employing a skilled repair man for attending to this.

My principal aim is to generally improve upon structures of this class by providing one wherein the means for connecting the two lifts together is structurally different and novel from similar devices with which I am familiar.

My principal object is to provide a comparatively simple structure of this kind wherein two metal plates are provided and attached to the meeting faces of the two lifts, these plates being provided with novel coacting means for facilitating interconnection of the two lifts, but preventing accidental separation thereof.

Other features and advantages of the invention will become apparent from the following description and drawing.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a longitudinal section through a heel constructed in accordance with the invention, showing the manner in which the parts cooperate.

Figure 2 is a transverse section through the same.

Figure 3 is a perspective view of the leather lift inverted.

Figure 4 is a perspective view of the rubber lift.

In the drawing, the reference character 1 designates a part of a shoe upper and 2 designates generally the heel which is made up of the leather lift 3 attached to the upper and the rubber lift 4 which is in turn attached to the leather lift.

Referring now to Figures 3 and 4 it will be seen that the leather lift 3 is provided on its under side with a metal plate 5 of a shape corresponding to that of the lift but of a smaller size. This plate has its marginal edge formed to provide a substantially U-shaped guide and retaining channel 6. In addition, it is provided at its center with a locking tongue 7 which is struck out in the manner shown.

The rubber lift is provided in its top with a recess to accommodate another complemental plate 8 of shape and size corresponding to that of the first named plate 5. The depth of the recess is equal to that of the thickness of the plate so that the surface of the plate is substantially flush with the top surface of the rubber lift. In addition this lift is provided with a groove 9 extending around the marginal edge of the plate and in this connection it will be noted that the marginal edge overlies the groove as indicated at 10, thus providing a retaining flange adapted to be slidably received in the channel 6. At its center, this plate is formed with a rectangular opening 11 and one end wall of the metal is provided with a depending tongue 12 and the laterally extending lip 13 forming a keeper for cooperation with the aforesaid retaining tongue 7. It will be noted that the rubber lift is provided here with a pocket 14 to accommodate the tongue 7. Moreover, a hole 15 is bored through the rubber lift and communicates with this pocket and is adapted to receive a removable instrument 16 of an appropriate nature for disconnecting the locking tongue from the keeper.

In practice it is obvious that the leather lift is fastened to the shoe upper in the customary manner, and then the rubber lift is slid in place by aligning the curved end of the plate 8 with the entrances to the channel 6. As the lift 4 is slid into place it is obvious that the resilient locking tongue 7 automatically snaps into the opening 11 and engages the keeper formed by the parts 12 and 13. It is then impossible to separate the lifts until the tongue is disengaged from the keeper and in order to do this it is necessary to insert an instrument 16 through the hole 15 and to engage it with the tongue and to press the tongue upwardly so that it will clear the upper surface of the plate 8 as the rubber lift is slid in a direction from left to right in the drawing.

From the foregoing description it is obvious that I have evolved and produced a novel connection between separable rubber and leather lifts forming a shoe heel, the gist of the invention residing more particularly in the positive locking connection between the two plates, whereby the lifts may not be separated until the tongue is disengaged from the keeper.

No doubt by considering the description and drawing, a clear comprehension of the invention will be had.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

In a heel structure of the class described, a leather lift, a plate carried by said leather lift and provided with a marginal channel of substantially U-shaped design, a rubber lift formed in its top with a recess having a marginal counter groove, a second metal plate carried by the rubber lift and located in said recess, the edge portion of said second plate overhanging said groove, the groove being adapted for reception of the channel, and said channel being adapted for reception of the marginal overhanging portion of said second named plate, a down bent resilient locking tongue carried by the first named plate, said second named plate having an opening for passage of said tongue and one edge of the opening carrying a keeper of substantially right angular formation, the portion of the rubber adjacent said keeper being formed to provide a pocket for reception of said tongue, and said rubber lift also being provided with a vertical hole communicating with said pocket and adapted to permit passage of suitable means for forcing said tongue upwardly to permit said plates to be disconnected.

In testimony whereof I affix my signature.

ALFRED F. DUCHENEAU.