O. E. SHERARD.

SHOE HEEL.

APPLICATION FILED SEPT. 27, 1920.

1,393,175. Patented Oct. 11, 1921.

Fig. 3.

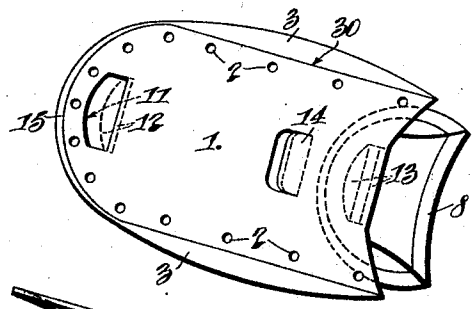
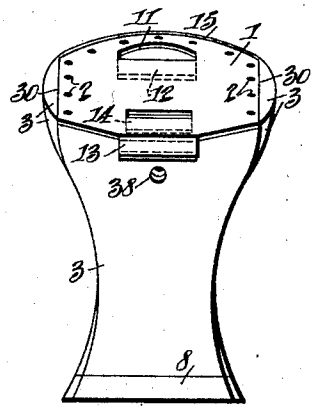


Fig. 4.



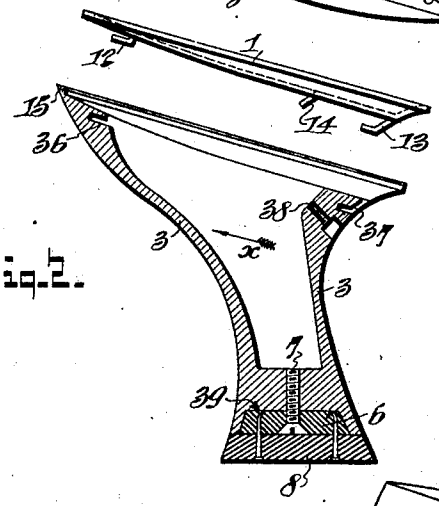


Fig. 2.

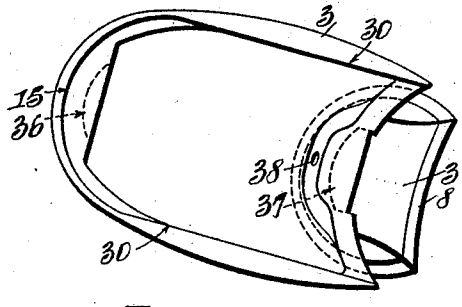


Fig. 5.

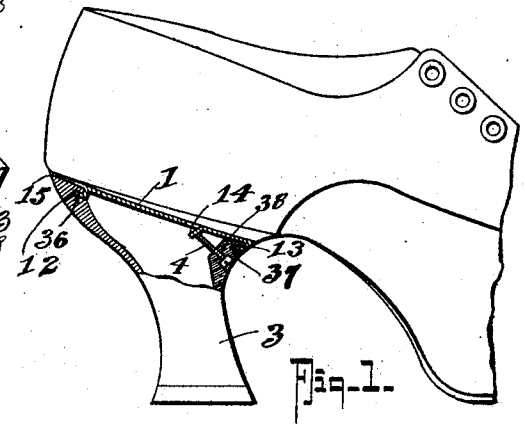


Fig. 1.

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SHOE-HEEL.

1,393,175. Specification of Letters Patent. Patented Oct. 11, 1921.

Application filed September 27, 1920. Serial No. 413,106.

To all whom it may concern:

Be it known that I, OLIVER E. SHERARD, a citizen of the United States, residing at Emmett, in the county of Gem and State of Idaho, have invented certain new and useful Improvements in Shoe-Heels, of which the following is a specification.

This invention, which relates generally to improvements in shoe heels and more especially to detachable heels for women's shoes, primarily has for its purpose to provide an improved heel of the general character stated, in which the parts are so designed whereby the heel portions proper are adapted for being reversibly and detachably secured to fixedly held portions so that, at any time the heels become worn or crooked, they may be conveniently taken off one shoe and put on the other shoe.

Another object of my invention is to provide a metal shoe heel of the general character stated, of a relatively simple and economical construction, in which the heel member proper can be securely held in the properly applied position by a single retaining screw that is easily disconnected, when it is desired to remove a partially or wholly worn heel and readily readjusted after applying a new or reversibly fitted heel member, the parts being such that the person wearing the shoes may quickly interchange the partially worn out heels so that, when the pairs of heel bodies or lifts become worn or crooked at one side, they may be easily interchanged and serve the same as a new pair of heels.

With other incidental objects in view and which will hereinafter appear, my invention consists of a detachable shoe heel that embodies the peculiar features of construction and novel arrangement of parts, fully explained in the following detailed description, as specifically mentioned in the appended claims and as illustrated in the accompanying drawings, in which:

Figure 1 illustrates a part of a lady's shoe with my heel applied, the latter being in partial vertical section, the preferred form of my invention being shown.

Fig. 2 is a similar view of my invention, the heel and the retaining elements being shown separated.

Fig. 3 is a top plan view of the heel with the retaining plate and lift.

Fig. 4 is a front view (from the instep) of the body of the heel member and the retaining element applied thereto.

Fig. 5 is a top view of the complete heel, the retaining element being omitted.

In the practical development of my invention, the same embodies generally a retaining element or member that is fixedly attached, by nails or otherwise, to the heel seat of the shoe and a heel body that is adapted for being detachably secured to the retaining element and which, when applied, is securely held in proper condition by a single retaining screw, as will presently more fully appear.

In the preferred form of my invention, as is illustrated in Figs. 1 to 5, the retaining member is in the nature of a metal plate 1 that is slightly dished in transverse direction and of a substantially elongated shape, it having marginal perforations 2 along its opposite and outer end edges for securely nailing it to the heel seat of the shoe.

The heel body proper 3 is also of metal and of the conventional woman's high heel shape and is hollowed to lighten its weight.

The top of the body 3 is also of the usual elongated shape and, in my construction, is dished transversely and is channeled in the direction of its length, as at 30, to provide for snugly and endwise slidably fitting the heel onto the retaining member 1, as is best shown in Fig. 4.

The retaining plate or member 1 which is of stiff sheet metal, is cut, by stamping or otherwise, at the rear or outer end, as at 11, to provide a free portion that is bent down to produce a right angled hook member 12, the purpose of which will presently appear.

At the front or instep end, the retaining plate 1 is formed with an extension that is bent downwardly and inwardly to form a pendent front hook member 13, the reason for which will also presently appear, and adjacent the front or instep end, the plate 1 is further cut and bent down to produce a stop or bearing member 14, as is clearly shown in Figs. 3, 4 and 5, and which constitute a locking member for coöperating with the single locking or securing screw 4, presently again referred to.

At the extreme outer or rear end, the top face of the heel is shouldered, as at 15, which shoulder constitutes a stop for engaging the

rear end of the retaining plate 1, see Figs. 1 and 2, by reference to which it will also be observed that the heel 3 has a transverse undercut groove 36 at the inner side of its outermost or rear end and a similar undercut groove 37 at the front or instep end, the said grooves 36 and 37 being so arranged that, when applying the heel member 3 proper to the retaining plate 1 that is secured to the shoe body, and which is done by sliding the lift in the direction of its length (see the arrow x) in contact with and along the retaining plate 1 until the grooves 36 and 37 in the heel body engage their respective hook members 12 and 13.

After the heel 3 is connected to the retaining plate 1 in the manner stated, it is securely held in place by the screw 4 which engages an upwardly inclined threaded aperture 38 in the instep or front face of the heel and which, when screwed home, engages the lock stop 14 and thereby forces the heel 3 and the hook members 12 and 13 of the plate into a securely interlocked connection with the shouldered portion 15 in abutment with the outer end of the top or retaining plate 1, as shown, it being obvious that, when the heel becomes worn over at one side, the said heels may be easily disconnected from their respective retaining plate by simply withdrawing the screw 4 sufficiently to permit of sliding the lift back far enough to cause its grooves 36 and 37 to become disconnected from the retaining hooks 12 and 13, the heels can then be removed and, if desired, interchangeably connected with the opposing retaining plates 1.

The bottom of the heel 3 is provided with a socket 39 in which is received a leather plug 6 that is secured to the lift by a retainer screw 7 and to which a cushion or tread member 8 is nailed, as shown.

From the foregoing description taken in connection with the drawings, the complete construction, the manner in which my improved heel is applied and interchangeably connected with the shoe body and its advantages will be readily apparent to those familiar with the use of heels of the kind mentioned, it being understood that to remove, interchange or reapply the heels, it is only necessary to effect the desired adjustment of the single screw 4 after the heel has been set or detached from the retaining member 1.

What I claim is:

1. In a heel of the character described; a retaining element adapted for being fixedly secured under the heel seat of a shoe, the said element consisting of a metal plate having a portion at the outer end and a portion at the inner end, said portions constituting transversely disposed hook members and a heel composed of a hollow metal body having a transversely extended groove on the inner face of the rear end and a like groove on the outer face of the front end for coengaging with the back and front hook members on the retaining element, the said heel having a limited free slidable contact with the retaining element, the top of the heel body being channeled to receive the retaining plate and having an offset that constitutes a stop shoulder for engaging the rear end of the retaining element, the latter having a bent down member, and a set screw adjustably mounted on the heel body adapted for engaging the bent down member on the retaining element whereby to draw the hollow body and retaining element plate in fixed interlocked connection.

2. In a heel of the character described, a retaining element adapted for being fixedly attached to the underside of the heel seat of a shoe, the said element having front and rear pendent hook members disposed in longitudinal alinement and whose hook ends are projected in rearward direction, a heel whose upper face is channeled to permit of sliding it in forward direction onto the retaining element, the upper part of the said heel having seats in longitudinal alinement for engaging the front and rear pendent hook members of the retaining element and means adjustable through the heel for engaging the retaining element whereby to hold the heel and the retaining element in fixed engagement.

OLIVER E. SHERARD.