

Feb. 25, 1941.

W. EASTON

2,233,250

SHOE HEEL

Filed July 29, 1939

FIG. I.

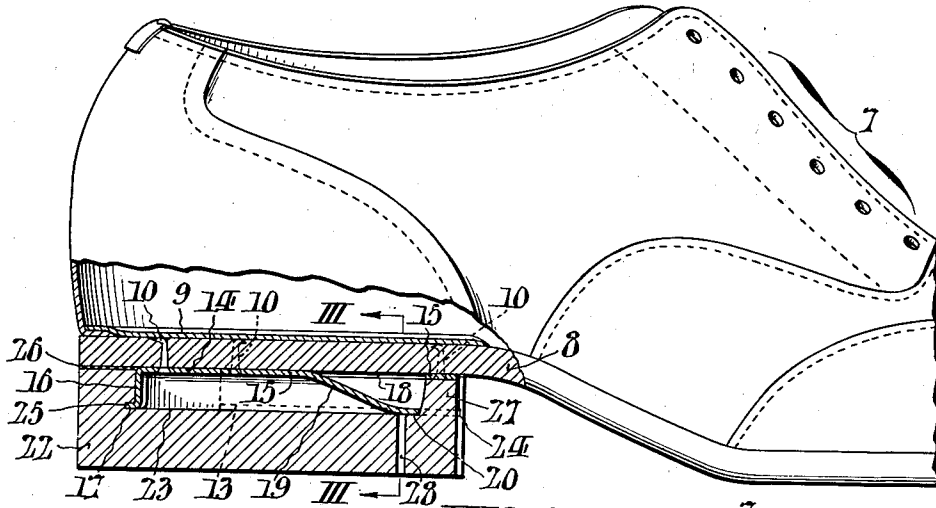


FIG. II.

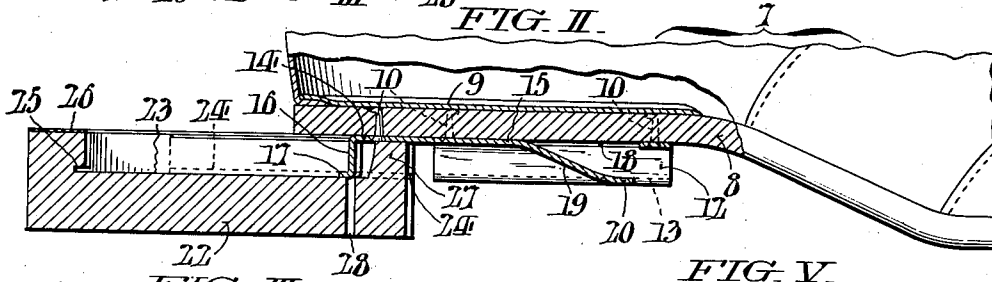


FIG. III.

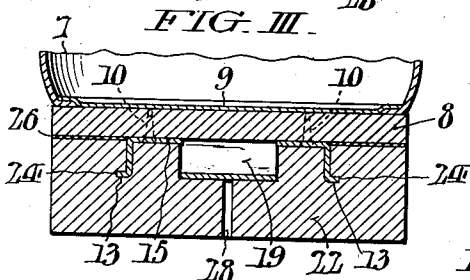


FIG. V.

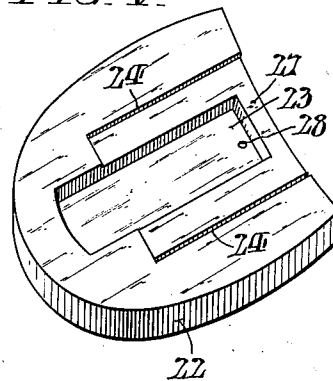


FIG. VI.

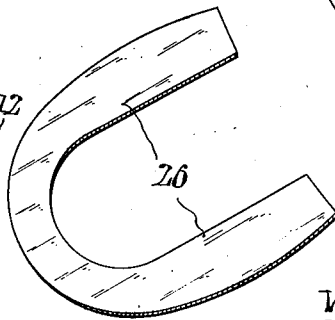
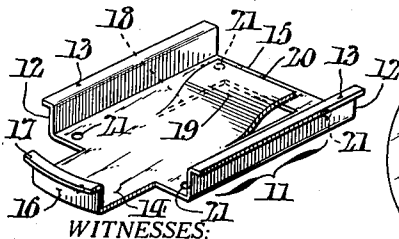


FIG. IV.



WITNESSES:

WITNESSES:
Thomas W. Kere, Jr.
William Bell, Jr.

INVENTOR:
Warner Easton,
BY Paul Paul
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,233,250

SHOE HEEL

Warner Easton, Philadelphia, Pa., assignor of one-fourth to James H. Irvin, and one-fourth to James B. Bannaker, both of Philadelphia, Pa.

Application July 29, 1939, Serial No. 287,360

5 Claims. (Cl. 36—42)

This invention relates to shoes in general, and of differing types, while the present improvements are more particularly directed to the heels thereof, with a primary aim at novel provisions whereby such heels are readily attached or detached for wear reversing or replacement by new ones when desirable or expedient.

Another objective had in view is a novel manner and means whereby shoe heels when attached to the soles are securely locked against lateral movement, as well as firmly held against accidental detachment.

A further object is the provision of a novel heel and attaching-detaching means which are restrained against slippage relative to the shoe sole, while being appreciably more comfortable in use than other types of heels heretofore worn by mankind.

With the above stated objects in view, and ancillary advantages which will appear as this description proceeds, the present invention comprises various novel constructive features and arrangement of parts, such as are set forth with particularity in the following explanation thereof, illustrated by the accompanying sheet of drawings, and more tersely expressed in the concluding claims.

In the drawing:

Fig. I is a broken and part sectional view of a conventional oxford shoe having the improved heel of this invention in ready-to-wear position.

Fig. II is a somewhat similar view with the heel in position for removal, or initial applying location.

Fig. III is a transverse section on the plane III—III of Fig. I.

Fig. IV is an underside perspective view of the heel receiving and retainer component.

Fig. V is a perspective view of the leather heel; and,

Fig. VI is a perspective of a movement restraining and cushioning element, later on fully described.

Referring more in detail to the drawing, the reference numeral 7 comprehensively designates the upper portion of an oxford shoe and 8 the sole, while 9 indicates the customary inner heel pad.

In accordance with this invention, before applying the heel pad 9, there is attached to the confronting portion of the sole 8, as by clinched-over brads 10, a channel-section holder device 11. This device 11, Fig. IV, embodies spaced flanges 12 with lateral lips 13, an extension 14

of the web 15 at one end having an arcual flange 16 with a lateral lip 17, and a rectangular cut-out 18 at the other end with the partially detached-portion 19 of the web 15 displaced inwardly between the flanges 12 to undulate configuration, and the free end 20 thereof in a common plane with the lips 13 and 17, as well as holes 21 for passage of the brads 10, all as readily understood from Figs. I and II, more particularly.

The heel 22, of any appropriate type and make-up, and preferably of leather, is provided or formed with a recess 23 conformatory to the planar surface or outline of the web 15 and extension 14, said recess having opposed inner marginal groovings 24 and an end grooving 25 for snug reception of the flange lateral lips 13 and 17, as readily seen on an inspection of Figs. I and III, more particularly. In addition, the upper or recess surrounding surface of the heel 22 preferably has suitably and permanently affixed thereto a horseshoe-like element 26 for movement restraining and cushioning coaction intermediate said heel and the confronting surface of the shoe sole 8, whereby the heel 22 is frictionally restrained against any lateral movement and effectively cushioned for easy wear.

To apply the heel 22 to the holder device 11, said heel is simply placed in the position shown in Fig. II, with the lateral lips 13 in register with the groovings 24, and slid towards the right-hand of the showing until the displaced portion 19 of the device web 15 flexes-up and rides over the frontal portion 27 of the heel 22 when its free end 20 snaps down into the recess 23 and the lip 17 engages in the end grooving 25 as clearly shown in Fig. I, whereby the heel 22 is firmly locked, in wearing position, to the shoe 7. To release the heel 22 for changing from left-to-right or reversal, as well as to make replacements when fully worn down, or as desired, the heel 22 is provided with a small boring 28 through which a match stick or other suitable element can be passed to elevate the portion 19 into planar relation with the web 15, whereupon the operation above described is reversed and the heel 22 removed, in an obvious manner.

Having thus described my invention, I claim:

1. The combination with the heel portion of a shoe sole of a longitudinally channeled holder device embodying a web portion with the flanges embodying lateral edge lips, a forwardly active tongue displaced out of the holder web at one end with the free end flexed down substantially coplanar with said edge lips, a relatively nar-

rower extension of the web at the other end of the device with an arcual flange also having a lateral lip, said web portion being provided with holes for passage of suitable means to secure the device to the shoe sole, a heel tread having a recess conformatory to the peripheral outline of the holder device web and extension, said recess having inner marginal grooves for reception of the respective flange lips, and the flexed tongue engaging within said recess to lock the heel tread to the shoe sole.

2. The combination of claim 1, wherein the respective flanges are of equal depth with the lateral lips all outwardly-directed in a common plane, and the heel recess is formed with par-

allel inner grooves and an arcual end groove for reception of the flange lips aforesaid.

3. The combination of claim 1, further characterized by a suitably-shaped surrounding affixed element intermediate the heel upper face and the sole confronting face, said element serving to frictionally restrain movement of the heel at the joint.

4. The combination of claim 1, further characterized by a horseshoe-like movement restraining element intermediate the heel face and the shoe sole confronting portion.

5. The combination of claim 1, wherein the holder device flexed tongue is of curvilinear formation longitudinally.

WARNER EASTON.