

July 23, 1935.

D. A. COMISKEY

2,008,784

HEEL ATTACHMENT

Original Filed Nov. 17, 1931

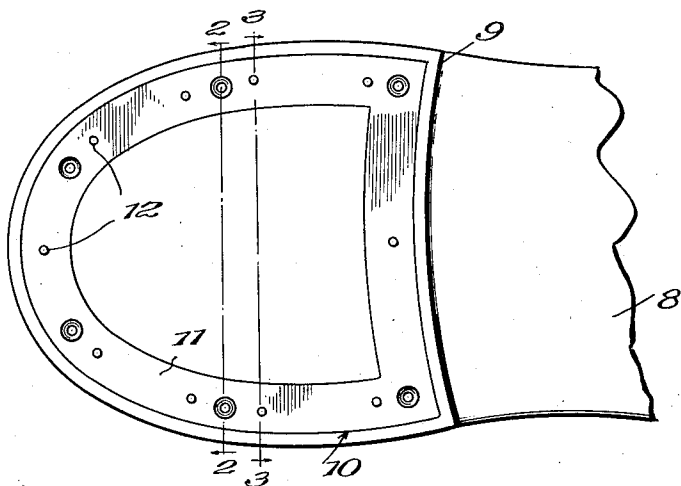


Fig. 1.

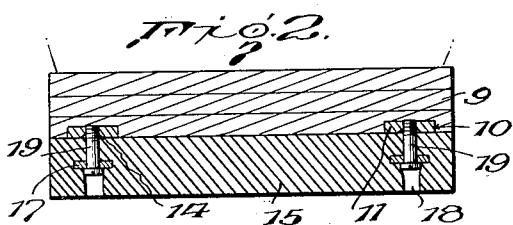


Fig. 2.

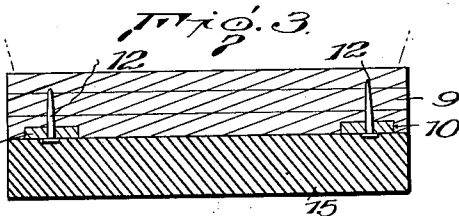


Fig. 3.

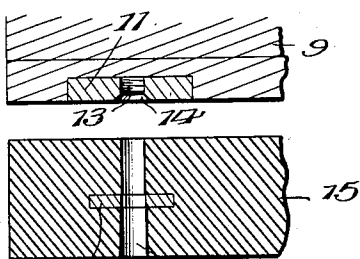


Fig. 4.

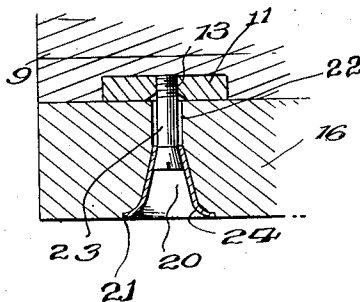


Fig. 5.

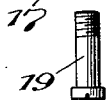


Fig. 6.

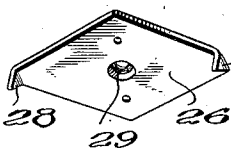


Fig. 7.

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UNITED STATES PATENT OFFICE

2,008,784

HEEL ATTACHMENT

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1 Claim. (Cl. 36—35)

In the present invention I provide means to permit expeditious replacement of heels on shoes, the invention being especially adapted for use in interchanging or replacing rubber heels.

5 Objects of the invention are to provide attaching means through the medium of which rubber or other heels may be attached by persons unskilled in the art to which this invention relates; to provide attaching means which will positively 10 retain the attached heel in snug engagement with the shoe; to provide attaching means which permits the heel to be engaged to or disengaged from the shoe without the use of special instruments; to provide an attaching means for use 15 in detachably engaging a heel tread with a lady's shoe, the attaching means being constructed to prevent rotation of the tread; and to provide an attaching means exceedingly simple in construction, yet durable to withstand the strain imposed thereon.

Other objects of the invention will be apparent from the following description of the present preferred forms of the device, taken in connection with the accompanying drawing, wherein

25 Fig. 1 is a fragmentary bottom plan view of a shoe, showing an attaching plate, constructed in accordance with my invention, applied thereto;

Fig. 2 is a cross-sectional view taken on the line 2—2 of Fig. 1, looking in the direction of the 30 arrow;

Fig. 3 is a similar view, taken on the line 3—3 of Fig. 1;

Fig. 4 is a detail enlarged fragmentary sectional view of a shoe, heel tread and screw or bolt, said 35 elements being shown separated;

Fig. 5 is a similar view of a modified form of tread; showing the screw in place;

Fig. 6 is a bottom plan view of a lady's heel showing a plate, constructed in accordance with the present invention, attached thereto; and 40

Fig. 7 is a perspective view of the plate illustrated in Fig. 6.

In the drawing, in order to illustrate the application of this invention, I have shown a portion 45 of a shoe 8, which is equipped with the usual heel portion 9, in which a recess 10 is formed, the recess extending completely around the heel portion 9 but appreciably spaced from the perimeter thereof.

50 In the recess 10 I mount an attaching plate 11, which conforms to the configuration of the recess, the outer face thereof being flush with the outer face of the heel proper 9. The plate may be fixedly secured to the heel 9 by nails 12 or other desirable fastening means. The plate is also pro-

vided with a plurality of screw-threaded openings 13, the outer end of each of which is flared as indicated at 14, to provide a bell-shaped guide for a purpose more fully hereinafter set forth.

I have in the drawing shown two different 5 kinds of heel treads, one of which is shown to advantage at 15, in Fig. 4 and the other of which is shown at 16, in Fig. 5. These treads may be made of rubber, composition, fiber, or other suitable material. The device of the present invention, however, is especially adapted for use with 10 rubber heels. In the tread shown in Fig. 4, a plurality of metal discs or washers 17 are mounted therein, approximately midway the opposite faces of the heel. Each of the discs or washers 15 17 is provided with a central opening which corresponds with an opening 18 in the tread and is adapted to receive therethrough a screw threaded bolt 19, which latter extends through the bell shaped guide 14 of the plate 11 and into engagement with the screw threads 13. It is of course, 20 already well known in the art to employ discs or washers mounted in a rubber heel and consequently, the device of the present invention may be used with standard types of heels. In the 25 form of invention shown in Fig. 5, the tread 16 is made of leather and is equipped with a series of sleeves or bushings 20, one end of each of which latter is bent outwardly, as indicated at 21. The tread is provided with openings 22, each of 30 which is adapted to receive a sleeve or bushing 20, each opening extending completely through the heel. When the sleeve or bushing 20 is in place, the out-turned portion 21 thereof lies in proximity to the outer surface of the heel, the 35 inner end thereof terminating intermediate the opposite faces of the tread. The sleeve or bushing is preferably of truncated cone shape to permit a screw 23 to be introduced therein in a facile manner and to provide a wedge engagement 40 between the screw head and the sleeve when the screw is urged into engagement with the plate 11.

In Fig. 6 of the drawing, I have shown the 45 heel 25 of a lady's shoe which has a plate 26 mounted thereon and secured thereto by nails 27 or the like. The plate is adapted to detachably receive, on the outer face thereof, a tread, which latter may be formed of rubber or other suitable 50 material and is maintained from rotation by out-turned corners 28, formed on the plate. The corners 28 act as fingers to embrace the tread. The plate 26 has a screw-threaded opening 29 formed therein, which is adapted to receive com- 55

plemental threads on a screw engaged through a tread mounted on the attaching plate 26.

With the device of the present invention it is apparent that not only may rubber heels and
5 other forms of treads be replaced, but additionally these treads may be expeditiously interchanged. It is well known that heel treads are usually worn down on one side only with the
10 result that it is necessary to discard them, while the major portion of the tread is still usable. With the present invention, the heel may be used until almost completely worn out. It may be quickly attached to and detached from the regular heel portion of the shoe by the use of a
15 screw driver for operating either the bolt 19, or the bolt 23, as the case may be. Notwithstanding the fact that the heel tread can be quickly removed in a facile manner, it is nevertheless likewise apparent that the means employed is effective to positively hold the tread in snug engagement with the shoe heel proper.
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Although I have herein described the preferred forms of my invention, it is to be understood that

various changes may be made in the construction, proportion and arrangement of parts, within the scope of the appended claim.

What is claimed is:

Means for attaching a heel tread to a shoe, in
5 combination with a relatively narrow apertured plate engageable with the shoe heel in spaced relation to the margin of the latter, a tread mounted on the plate and provided with openings extending therethrough in alignment with
10 the plate apertures, a truncated cone shaped bushing mounted in each of said openings, the outer end of each bushing being flared at the wearing surface of the tread, and a fastening
15 means engaged through each bushing and with an aperture of the shoe plate, the head of the fastening means complementing the bushing to facilitate guiding said means into the plate apertures, the inner end of the bushing being in wedge shape engagement with the head of the
20 fastening means.

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