March 6, 1934.

A. TORCHIA ET AL

1,950,041

DETACHABLE SHOE SOLE AND HEEL

Original Filed Jan. 26, 1931

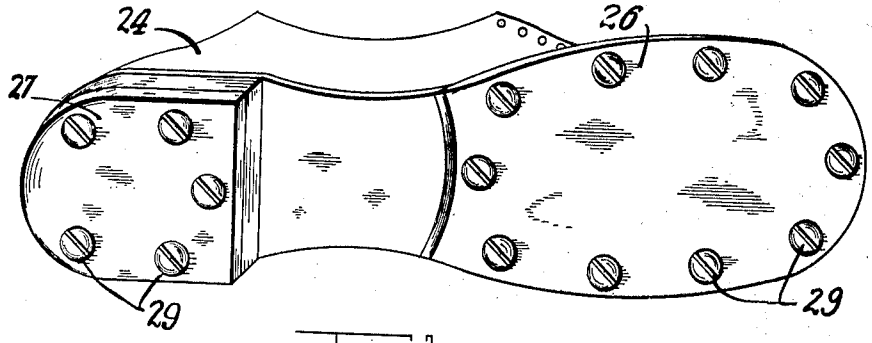


FIG. 1.

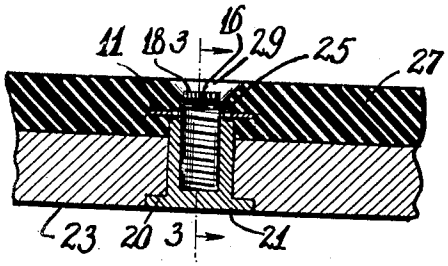


FIG. 2.

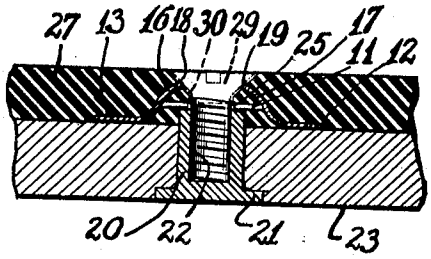


FIG. 3.

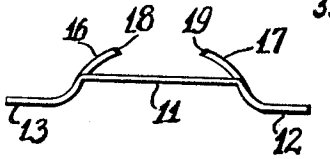


FIG. 4.

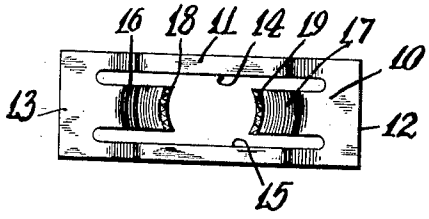


FIG. 5.

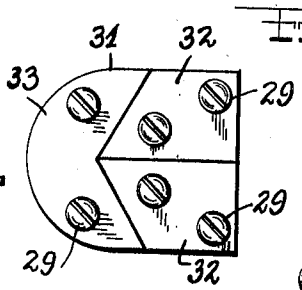


FIG. 7.

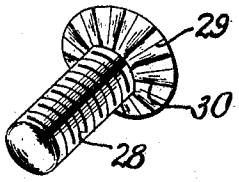


FIG. 6.

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DETACHABLE SHOE SOLE AND HEEL

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Application January 26, 1931, Serial No. 511,156
Renewed December 5, 1933

3 Claims. (Cl. 36—15)

This invention relates to a new and useful device in the nature of a readily detachable sole and heel for shoes such as worn by men, women and children.

The object of the invention is to provide a novel means of removably holding the said detachable sole and heel in place on the shoe.

Fig. 1 is a perspective view of a shoe showing our improved detachable sole and heel applied thereto.

Fig. 2 is an enlarged vertical central section view of one of the attaching members as embodied in our improved device.

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a side elevational view of the attaching place.

Fig. 5 is a top plan view thereof.

Fig. 6 is a perspective view of the attaching screw as embodied in our improved device.

Fig. 7 is a bottom view of a shoe heel showing a modified form of the invention.

As here embodied our improved device comprises an attaching plate 10 of rectangular plate-like construction having its central or middle portion raised as at 11, so as to provide opposite side extended elements 12 and 13 or supports upon which the attaching plate rests. This plate 10 has formed or cut therein an opening, so as to provide oppositely disposed edges 14 and 15. The plate 10 has also formed or bent therefrom opposite upwardly extended elements 16 and 17, provided with extremities 18 and 19, of arc-shape construction preferably serrated, or having teeth formed therein.

A staple 20 of cylindrical body construction is provided with a flanged extremity 21 and has formed therein a central threaded opening 22.

As clearly shown in the accompanying drawing, the staple 20 is inserted in an aperture formed in the under portion 23 of a shoe 24, the flanged portion 21 is positioned innermost. The extremity opposite the above mentioned flanged portion 21 is of square transverse cross section as at 25 and extends somewhat beyond or through the said under portion of the shoe.

The above mentioned attaching plate 10 is molded in the sole 26 or heel 27 as clearly shown in Figs. 2 and 3.

The above described construction is such as will permit the attaching screw 28, which is provided with a countersunk head 29 having the under portion thereof serrated as at 30, positioned in the threaded aperture 22 formed in the staple 20, to engage the serrated under portion with the serrated extremities 18 and 19 of the attaching plate 10 so as to prevent the loss or misplacement of the said attaching screw for the purpose of securely holding the heel and sole in place on the under portion of the shoe.

The above described construction is also such as will permit the edges 14 and 15 of the attaching plate 10 to engage the square portion 25 of the staple so as to prevent the said staple from turning which permit the said attaching screw to be applied thereto.

It is understood that a plurality of the said attaching members are employed as clearly shown in Fig. 1 of the accompanying drawing, and that same are positioned adjacent to the edges of the heel and sole, as is the usual position or placing of the ordinary attaching means such as sewing, nails or other attachment.

In Fig. 7 the heel 31 is made of a pair of symmetrical sections 32 and one end section 33 so that a worn section may be replaced by a new one instead of changing the entire heel.

While we have shown and described the preferred embodiment of our invention, it is to be understood that we do not limit ourselves to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described our invention, what we claim as new, and desire to secure by United States Letters Patent is:—

1. In a shoe having a permanent inner sole and a detachable sole and heel, sole and heel fastening means, comprising a plurality of fastening elements each comprising a cylindrical staple extended through said inner sole and having its bottom portion formed with straight sides, a screw engaged through said detachable sole or heel for holding purposes and threadedly engaging said cylindrical staple, and an attaching plate moulded in said sole or heel and having straight sides engageable against the straight sides of said cylindrical staple for holding the staple against possible turning and furthermore being formed with upward directed elements engaging against said screw for preventing said screw from becoming loose.

2. In a shoe having a permanent inner sole and a detachable sole and heel, sole and heel fastening means, comprising a plurality of fastening elements each comprising a cylindrical staple extended through said inner sole and having its bottom portion formed with straight sides, a screw engaged through said detachable sole or

heel for holding purposes and threadedly engaging said cylindrical staple, and an attaching plate moulded in said sole or heel and having straight sides engageable against the straight sides of said cylindrical staple for holding the staple against possible turning and furthermore being formed with upward directed elements engaging against said screw for preventing said screw from becoming loose, the said straight sides of said staple comprising the straight sides of a square extremity of said staple.

3. In a shoe having a permanent inner sole and a detachable sole and heel, sole and heel fastening means, comprising a plurality of fastening elements each comprising a cylindrical staple extended through said inner sole and having its bottom portion formed with straight sides, a screw engaged through said detachable sole or heel for holding purposes and threadedly engaging said cylindrical staple, and an attaching plate moulded in said sole or heel and having straight sides engageable against the straight sides of said cylindrical staple for holding the staple against possible turning and furthermore being formed with upward directed elements engaging against said screw for preventing said screw from becoming loose, the straight sides of said attaching plate comprising the sides of a central opening formed therein.

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