W. HEPFINGER.

HEEL PLATE.

APPLICATION FILED JULY 7, 1913.

1,095,325.

Patented May 5, 1914.

Fig. 1.

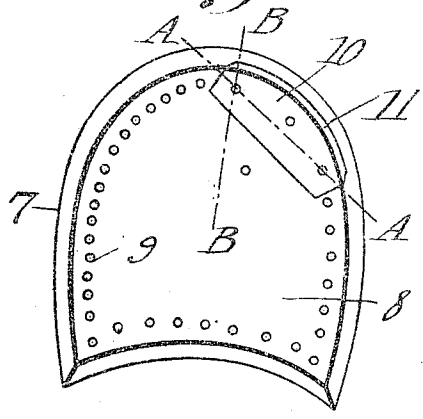


Fig. 2.

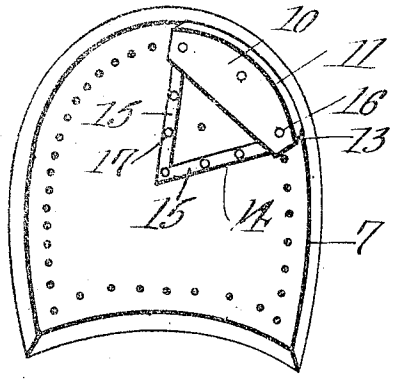


Fig. 3.

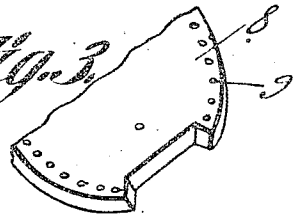


Fig. 4.

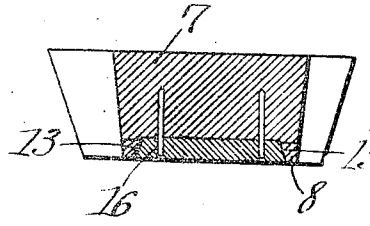


Fig. 5.

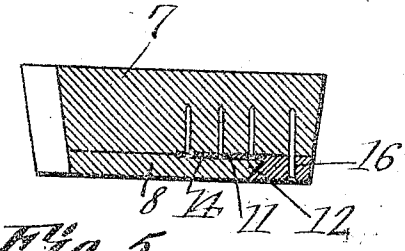
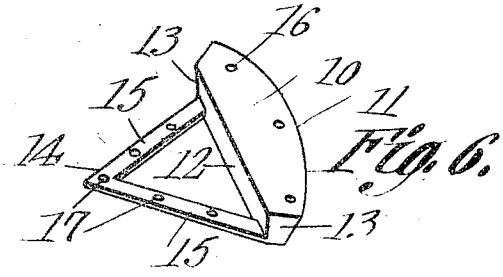


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

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HEEL-PLATE.

1,095,325. Specification of Letters Patent. Patented May 5, 1914.

Application filed July 7, 1913. Serial No. 777,723.

To all whom it may concern:

Be it known that I, WILLIAM HEPFINGER, a citizen of the United States, residing at Lancaster, in the county of Lancaster and State of Nebraska, have invented a new and useful Heel-Plate, of which the following is a specification.

This invention relates to improvements in heel plates for shoes and so forth.

An object of the present invention is to simplify the construction of devices of this class and to provide an outlying extension connected to the body portion of a heel plate which is adapted to fit between the main portion of the heel and the top lift thereof and to make the extension of skeleton structure so as to prevent a bulging of the top lift.

A further object is to remove the larger portion of the said extension to prevent the bulging of the top lift and provide means whereby nails or similar devices may be driven down through the top lift, through the said extension and into the portions of the heel lying therebeneath.

A further object is to provide a heel plate which is to be embedded within and lie flush with the heel and with the three side walls thereof undercut or beveled so as to assist the said extension in holding the plate to the heel.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof, the preferable form of my invention is illustrated, in which:—

Figure 1 is a plan view of a heel with my improved heel plate fastened thereto. Fig. 2 is a similar view with the top lift of the heel removed showing the skeleton structure of the extension. Fig. 3 is a view in perspective of the top lift showing the manner in which the same is cut in order to accommodate my improved heel plate. Fig. 4 is a cross sectional view taken on the line A—A of Fig. 1. Fig. 5 is a cross sectional view taken on the line B—B of Fig. 1, and Fig. 6 is a view in perspective of my improved device.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 7 is the heel and 8 the top lift therefor, the latter being provided with a number of apertures 9 extending therethrough for the accommodation of securing means whereby the top lift is secured to the main heel portion.

The heel plate is formed with a body portion 10 the outer peripheral edge 11 of which is cut to conform with the corresponding portion of the top lift so that the edge 11 will be coextensive with the adjacent edges of the heel. The body portion 10 of the heel plate is substantially equal in thickness to that of the top lift as illustrated in Fig. 3. The inner edge 12 and the end walls 13 are beveled or undercut as illustrated in Figs. 4 and 5 so that any pressure brought to bear upon the top lift will tend to wedge the same beneath the heel plate and prevent the separating of the top lift and remaining portions of the heel should the fastening means adjacent the heel plate become loosened or accidentally removed.

Connected to and in the present instance illustrated as being integral with the body portion 10 of the heel plate is the extension 14, triangular in outline and skeleton in structure, the bottom surface of which is coextensive with the bottom surface of the body portion 10 as illustrated in Fig. 5. The extension may be more specifically defined by stating that it is composed of the converging integral arms 15 which form an anchor for the entire structure. The skeleton nature of the extension allows the same to embed itself within the leather or material of which the heel and top lift are formed so that there will be little or no bulging of the top lift caused thereby. Furthermore the skeleton nature of the extension allows suitable securing nails or equivalents thereof to be driven down through the top lift and to secure the same to the heel at those portions in which the greatest stress will be exerted thereon.

In the practical application of the device the top lift is provided with a portion thereof removed as illustrated in Fig. 3, the edges of which are beveled to correspond with the undercut edges of the heel plate. The body portion 10 of the heel plate is pro-

vided with a number of apertures 16 extending therethrough, the exact number depending upon the size thereof. The extension 14 is also provided with apertures 17 extending therethrough so that the said extension and body portion of the heel plate may be securely held to the heel by nails or some equivalents thereof.

It is to be noted that there is practically no likelihood of the heel plate becoming detached from the heel with the construction such as I have outlined. Also by reason of the undercut edges of the heel plate additional securing means is provided for the top lift, as it is thought will be apparent from a reference to the drawings.

What is claimed is:—

A heel plate comprising a substantially trapezoidal body portion with the outer trapezoidal base arcuated to conform with the curvature of a heel, the end walls of the body portion extending substantially radial with respect to the curvature of the outer base and beveled upwardly and inwardly taken with respect to the body portion, said body portion provided with apertures extending therethrough arranged central and adjacent the end walls of the body portion, the inner base of the trapezoidal body portion formed as a plane wall and beveled upwardly and inwardly taken with respect to the body portion, the beveled inner base and side walls arranged to engage and hold in place the top lift of a heel, and a triangular shaped skeleton extension carried by the body portion coplanar with the upper surface thereof, said extension provided with an aperture extending through the apex thereof and with a plurality of apertures extending through the sides of said extension, said extension arranged to fit between the top lift and heel proper to prevent the relative shifting of the heel top lift and heel plate body portion.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM HEPFINGER.

Witnesses:
CHAS. BERRY,
JAS. O'CONNELL.