

March 22, 1938.

E. W. MOSS

2,111,898

DETACHABLE SHOE HEEL

Filed June 10, 1937

2 Sheets-Sheet 1

Fig. 1

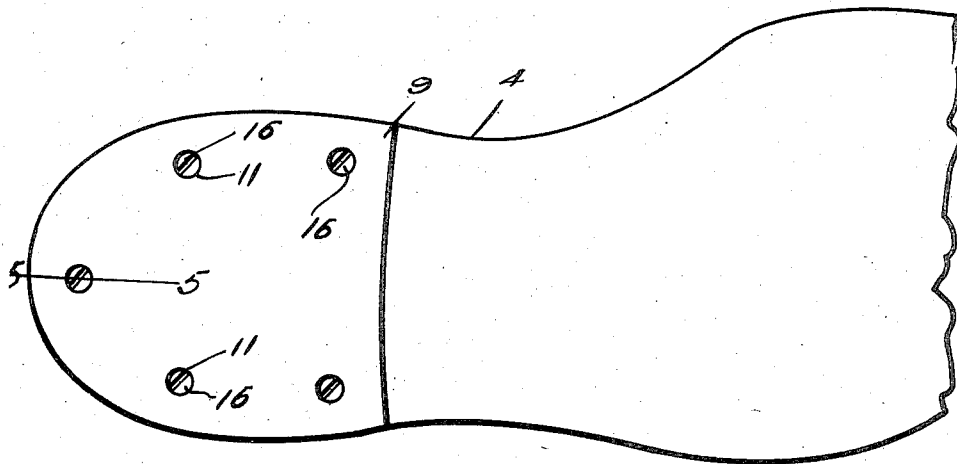


Fig. 2

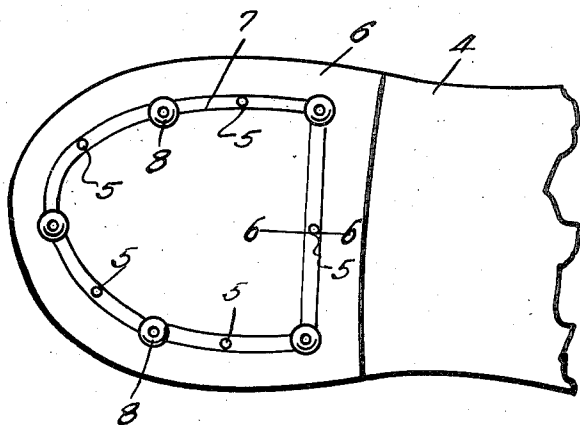


Fig. 9

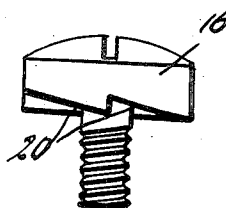


Fig. 10

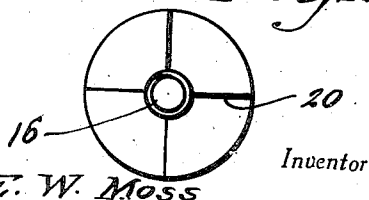


Fig. 11



Fig. 12



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Fig. 3.

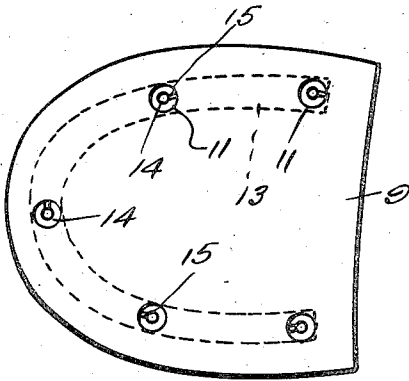


Fig. 4.

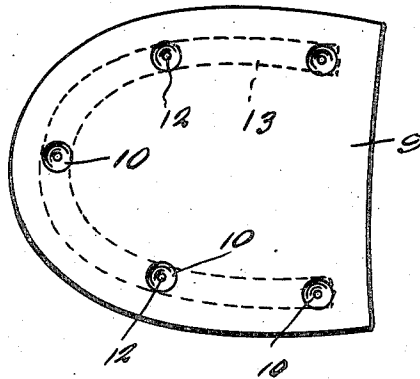


Fig. 5.

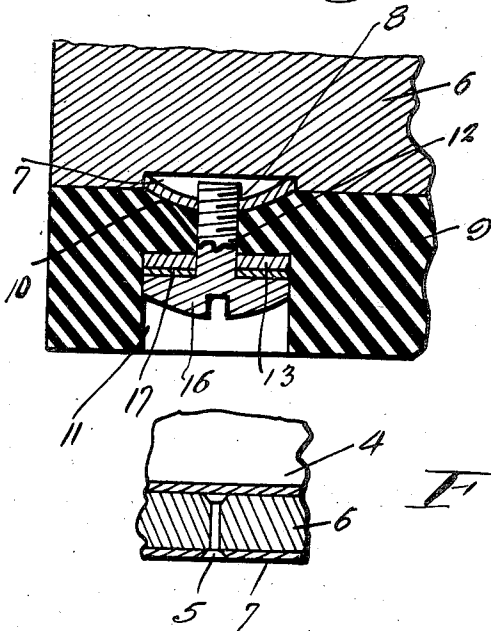


Fig. 7.

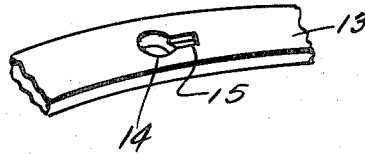


Fig. 8.

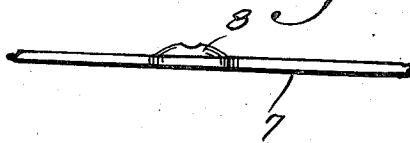
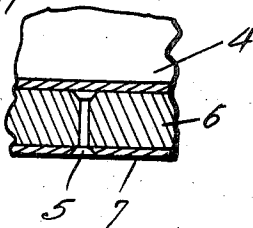


Fig. 6.



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UNITED STATES PATENT OFFICE

2,111,898

DETACHABLE SHOE HEEL

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Application June 10, 1937, Serial No. 147,544

1 Claim. (Cl. 36—42)

This invention relates to heels for shoes, and particularly to what is known as a detachable heel, and has for its object the provision of an improved arrangement of securing means whereby the heel may be quickly and easily applied and removed, and when applied will be held rigidly in place.

The invention, together with its objects and advantages, will be best understood from a study of the following description taken in connection with the accompanying drawings, wherein:

Figure 1 is a bottom plan view of a shoe with the detachable heel in place.

Figure 2 is a fragmentary bottom plan view, with the detachable heel removed.

Figure 3 is a bottom plan view of the detachable heel.

Figure 4 is a top plan view of the detachable heel.

Figure 5 is a detail sectional view taken substantially on the line 5—5 of Figure 1.

Figure 6 is a detail sectional view taken substantially on the line 6—6 of Figure 2.

Figure 7 is a fragmentary perspective view of a plate carried by and embedded in the detachable heel.

Figure 8 is a fragmentary edge elevational view of a plate secured to the under portion of a shoe.

Figure 9 is an elevational view of an attaching screw.

Figure 10 is a bottom plan view of an attaching screw.

Figure 11 is a perspective view of a lock washer.

Figure 12 is an edge elevational view of a lock washer.

In accordance with the present invention, there is riveted or otherwise secured as at 5 to the under face of the under portion 6 of a shoe 4, a substantially D-shaped plate 7, which at intervals has pressed outwardly therefrom apertured substantially semi-spherical projections or protuberances 8.

The detachable heel indicated by the reference numeral 9 is provided in the face thereof to be disposed against the under portion 6 of a shoe with a plurality of depressions or recesses 10 complementary to the protuberances 8 to conformably receive the protuberances 8 in a manner clearly shown in Figure 5. Thus the protuberances 8 and the recesses 10 act as cooperating guide means for properly positioning the heel 9 on the under portion 6.

In line with the depressions 10, the heel 9 is

provided with sockets or recesses 11 opening through the under face thereof and connected with the recesses 10 through bores or openings 12.

Embedded in the heel 9 is a substantially U-shaped plate 13, portions of which are exposed at the sockets 11, and said exposed portions of the plate 13 are provided with apertures 14 which align with the holes 12.

Adjacent each aperture 14 there is provided on the plate 11 a stop lug 15 hereinafter more fully referred to.

For securing the heel 9 to the under portion 6 of the shoe, there are provided screws 16 which extend through the aligned openings 12 and 14 and thread into the openings in the protuberances 8 of the plate 7, as also clearly shown in Figure 5, whereby to detachably secure the heel 9 to the under portion 6 of the shoe.

For each bolt 16, the head of which is received or accommodated within a socket 11, there is provided a lock washer 17.

As shown in Figures 11 and 12, each lock washer 17 is split and has the ends 18, 19, thereof formed by said split slightly curved in reverse directions relative to one another from the plane of the washer and arranged in overlapping relation.

Also, the head of each screw 16, as clearly shown in Figures 9 and 10, is provided on the under side thereof with a ratchet-like formation 20.

It will thus be seen that when the screw 16 is threaded home, the same cannot be threaded outwardly of the socket 11, for the reason that counterclockwise rotation of the screw is prevented by reason of the engagement of the end 18 of the washer 17 with the lug 15, and the end 19 of said washer with a tooth of the ratchet surface 20 on the under face of the head of the bolt 16. Thus it will be seen that the arrangement is such as will permit the screw to be threaded home, but will positively prevent the screw from being unthreaded with the result that in order to remove the heel 9, sufficient forceful twist will have to be given to the screw in order to shear the threads thereof before the screws can be withdrawn and the heel 9 subsequently removed.

It is thought that a clear understanding of the construction, utility and advantages of the invention of this character will be had without a more detailed description.

Having thus described the invention, what is claimed as new is:

In a heel for a shoe, a plate secured to the under portion of the shoe and provided at intervals with apertured protuberances, a heel provided in

one face thereof with recesses complementary to said protuberances, and in an opposite face thereof with sockets, said heel being also provided with holes extending from the sockets to said recesses
5 to accommodate fastening screws, fastening screws extending through said holes and threadably engaging said protuberances, the heads of the screws being accommodated in said sockets, a plate member embedded in said heel and having portions thereof exposed at said sockets, the
10 exposed portions of said last-named plate being provided with openings to accommodate said

screws, and also being provided adjacent each opening with a projection, lock washers for said screws, said screws having their heads provided on the under faces thereof with ratchet-like surfaces, and said lock washers being split and respectively having the ends thereof formed by the split overlapping and reversely curved relative to one another and cooperating with the lugs on the last mentioned plate and the ratchet-like surfaces of said screw heads for locking said screws
10 against withdrawal.

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