Feb. 9, 1932. B. RUBIN 1,844,182

DETACHABLE TREAD MEMBER

Filed Aug. 13, 1928

Fig. 1.

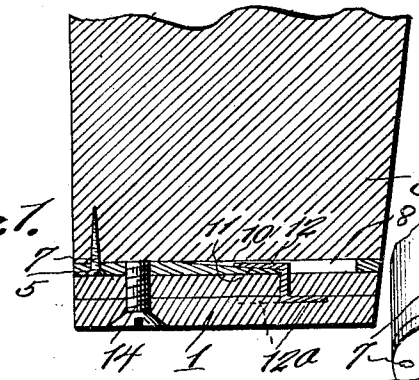


Fig. 6.

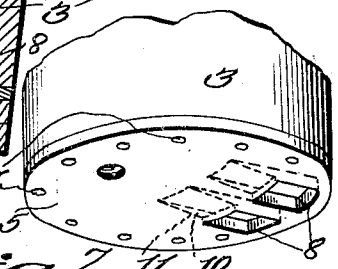


Fig. 7.

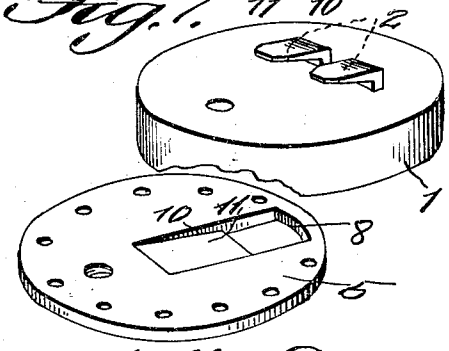


Fig. 2.

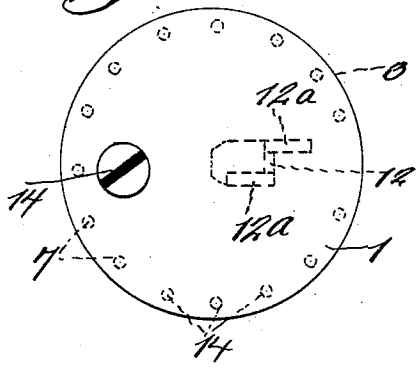


Fig. 3.

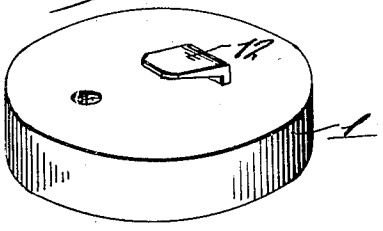


Fig. 4.

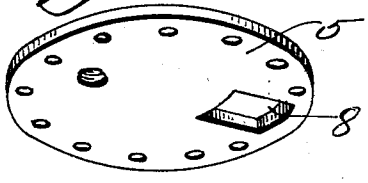


Fig. 5.

Benjamin Rubin INVENTOR

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Patented Feb. 9, 1932 1,844,182

UNITED STATES PATENT OFFICE

BENJAMIN RUBIN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO RUBIN PATENTS CORPORATION, A CORPORATION OF DELAWARE

DETACHABLE TREAD MEMBER

Application filed August 13, 1928. Serial No. 299,404.

The present invention relates in general to a fastening device and more particularly has reference to an attachment for a tread member.

An object of this invention is to provide a fastening device in which a wedge fit over an extended surface may be obtained.

Another object is to provide a fastening device which may be applied without modifying existing constructions.

A further object is to provide a fastening device for a detachable tread for shoe heels.

The invention consists in general of a plate carried by a base, having a tread member to be attached thereto, the plate being provided with elongated slots for the reception of overlying lugs carried by the detachable tread member, to enter the slots and engage with said ends thereof, and retain the tread member in position, with means to prevent sliding movement of the tread member, and to prevent detachment thereof.

The invention consists further in providing the faces of the plates which engage with the base with elongated grooves adjacent one end of the slots, the bottoms of the grooves being inclined and adapted to be engaged by overlying tongues to effect a wedging action between the tread member and the base.

With these and other objects in view, which may be incident to my improvements, the invention consists in the parts and combinations to be hereinafter set forth and claimed, with the understanding that the several necessary elements comprising my invention may be varied in construction, proportions and arrangement without departing from the spirit and scope of the appended claims.

In order to make my invention more clearly understood, I have shown, in the accompanying drawingss, means for carrying the same into practical effect without limiting the improvements in their useful applications to the particular constructions which, for the purpose of explanation, have been made the subject of illustration.

In the drawings:

Figure 1 is a vertical sectional view through a base, showing a detachable tread member in section.

Figure 2 is a bottom plan view of Figure 1.

Figure 3 is a detailed perspective view of the metal plate 5, showing one face thereof.

Figure 4 is a detailed perspective view of the metal plate showing the opposite face thereof.

Figure 5 is a detailed perspective view of the tread member or cushion 1.

Figure 6 is a detailed perspective view of the lower portion of the base showing the metal plate 5 fastened thereto.

Figure 7 is a detailed perspective view of the tread member.

Referring to the drawings, 1 identifies a tread member, such as on a shoe heel, made of any suitable material such as leather or rubber, and 3 the heel. Fastened to the base 3 is a thin metal plate 5, the fastening means for the plate being either screws or small nails denoted by the numeral 7. These fastening screws or nails are driven through the plate and into the bottom of the heel, so that when the detachable tread member to be hereinafter more fully described is removed, the plate remains attached to the heel.

The plate 5 is provided with an elongated slot 8. While only one slot 8 is shown formed in the base plate, any desirable number may be employed, such as, for example, is shown in Figure 6. One end of the slot 8 in the base plate is provided with elongated grooves 10, the bottoms of which are inclined or beveled as shown at 11.

The detachable tread member 1 is provided with overlying tongues 12 which retained thereby are adapted to be fitted in the slots 8. The tongues 12 are formed with separable prongs 12*a* which when driven in the tread member, are adapted to spread in opposite directions and thus embedded insure a firm fixture of the tongues on the tread.

The overlying parts of the tongues are tapered, so as to cooperate with the inclined bottoms of the grooves at the ends of the slots, to effect a wedging therewith and fix the detachable member toward and in close contact with the plate.

In order to prevent sliding movement of the detachable tread member with respect to the plate, a screw 14 is extended through the

tread member and is threaded into the plate. When the screw is in position as shown in Figure 1, it prevents longitudinal movement of the detachable tread member. It is obvious that by removing the screw the detachable tread member may be moved longitudinally and removed by withdrawing the tongue from the aperture 8.

The invention having been set forth, what is claimed is:

1. The combination with a supporting base having a bottom portion, of a metal plate fastened to the bottom portion, said plate having an elongated slot, one end of the slot adjacent the face of the plate next to the bottom portion of the base having an elongated groove, the bottom of the groove being inclined to form a tapering space between it and the top of the plate, a detachable tread member having a lug provided with an overlying tongue having its underlying face tapered, said lug passing through the slot and engaging within the groove and effecting a wedging action with the inclined bottom thereof, the groove being sufficiently deep enough to prevent the tongue from engaging with the bottom portion of the base, and means passing through the tread member and detachably connected with the plate to maintain the member in position.

2. A fastening device comprising a receiving member, an inclined groove within said receiving member forming a tapering space between the bottom of the groove and the top of the receiving member, a detachable tread member, a tongue retained on said detachable member with its underlying face tapered for engaging the space between the bottom of the groove and the top of the receiving member to effect a wedge fit over an extended surface.

3. A fastening device comprising a receiving member, inclined grooves within said receiving member forming tapering spaces between the bottoms of the grooves and the top of the receiving member, a detachable tread member, tongues retained on said detachable tread member with their underlying faces tapered for engaging the space between the bottom of the grooves and the top of the receiving member to effect wedge fits over extending surfaces, said retaining tongues being adapted to fit flush with the top of the receiving member and means to prevent movement of the tongues with respect to the grooves.

In testimony whereof he affixes his signature.

BENJAMIN RUBIN.