Nov. 13, 1928. 1,691,453

L. ALTERSON

FASTENING DEVICE

Filed Feb. 28, 1928

Fig. 1.

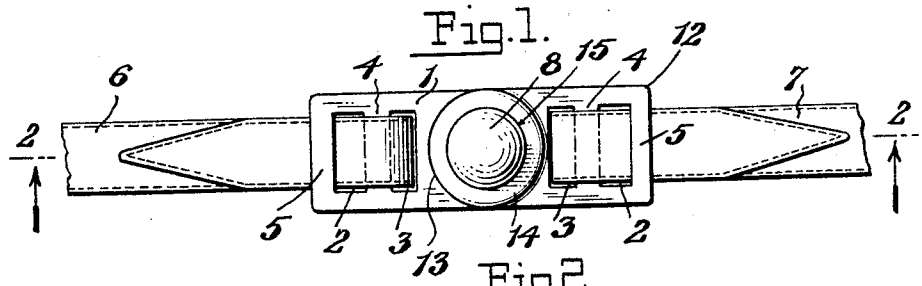


Fig. 2.

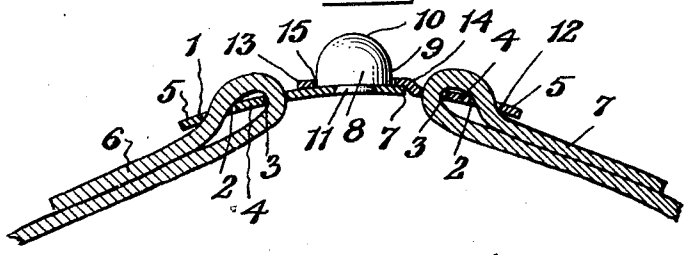


Fig. 3.

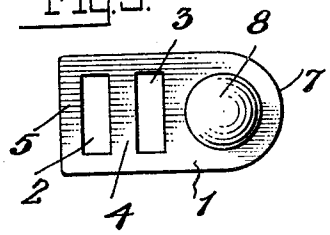


Fig. 4.

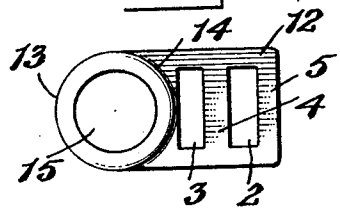
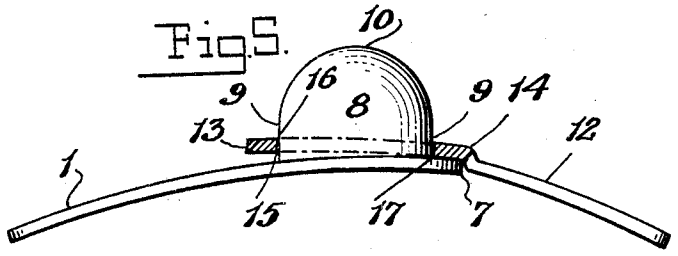


Fig. 5.



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UNITED STATES PATENT OFFICE.

LOUIS ALTERSON, OF NEW YORK, N. Y.

FASTENING DEVICE.

Application filed February 28, 1928. Serial No. 257,576.

This invention relates to an improvement in fastening devices in the form of clasps or buckles and has for its object to provide an article of this character particularly intended for use upon shoes, belts, wrist watches or the like.

The primary object of my invention is to provide such a device which shall be extremely simple in construction, which shall by reason of such simple construction be unlikely to break.

A further object of the invention is to provide a fastening device of the character mentioned which is so constructed that it renders constant adjustment of the straps or bands to which it is attached unnecessary. It is well known that in shoe buckles, shoe clasps and the like in use at the present time, the straps or bands to which said buckles are attached, rapidly become worn by reason of the fact that such straps have to be drawn through the buckle each time that the shoe is fastened or unfastened. The same is true of belt buckles or clasps and many other fastening devices.

An object of my invention therefore, is to provide a clasp in which the securing straps need be adjusted but once and this adjustment does not need to be disturbed while opening or closing the clasp. This avoids wear and tear on the straps and naturally maintains the new appearance of the article on which the clasp is used.

With these objects and such other objects as may hereinafter appear, in view, I have devised the particular arrangement of parts hereinafter set forth and more particularly pointed out in the claims appended hereto.

Reference is to be had to the accompanying drawing forming a part hereof in which

Figure 1 is a plan view of my improved fastening device showing the manner in which it appears when attached to securing straps of a shoe or other article;

Figure 2 is a sectional view on the line 2—2 of Figure 1, looking in the direction of the arrows;

Figure 3 is a plan view of the stud member of the fastening device; and

Figure 4 is a plan view of the socket or female member of the clasp; and

Figure 5 is a side elevation of the two parts of the clasp united, with a portion of the female member broken away to disclose the binding effect of the same on the stud when inclination of one of the members relative to the other takes place.

Throughout the various views of the drawings, similar reference characters designate similar parts.

In the preferred embodiment of my invention, 1 indicates the male or stud member of the device. This consists of a flat section of metal which is slightly arched longitudinally to fit the curvature of the article about which the straps to which the clasp is fitted are adapted to surround. The member 1 is slotted as at 2 and 3 to provide an intermediate transverse bar 4 and an end bar 5. One of the securing straps is shown at 6 and it will be seen that the same is passed through the slot 3 and it then extends over the bar 4 and passes out through the slot 2 and in back of the bar 5. This looped arrangement of the strap holds it securely yet permits it to be adjusted as desired to hold its position relative to the member 1.

Adjacent to the outer rounded end 7 of the member 1 is provided a projecting stud 8. This stud is of uniform diameter having substantially straight sides 9 and a rounded or domed top 10. The stud may be secured to the plate in any desired way and it is preferably rigidly affixed thereto by riveting the same as at 11. At 12 is shown the socket member which is similar in general outline to the member 1 and is provided with the slots 2 and 3 through which a strap 7 is looped and which passes over the bars 4 and 5 in the manner previously described with respect to the stud member 1.

Adjacent to its outer rounded end 13, the member 1 has an offset or pressed out portion 14 which is provided with an opening 15. This opening 15 is of such a size that it very snugly fits over the stud 8. The fit of the two parts 8 and 15 is such that a snap action is neither secured nor desired. It is such however, that when there is the slightest inclination of either of the elements 1 or 12 with respect to one another, the edges 16 and 17 of the opening 15 will bind against the sides 9 of the stud 8 as is indicated in Figure 5, preventing a disengagement of one part of the device from the other.

From the foregoing, the operation of my improved securing device will be readily understood. Assuming for the purposes of illustration, that the device is to be fitted to a shoe. In such a case, the straps 6 and 7 will

represent those straps on a shoe that pass over the instep. These straps 6 and 7 are adjusted through the respective parts 1 and 12 in the manner previously described so that the same may be drawn snugly over the instep to enable the parts 1 and 12 to be overlapped and the stud 8 to be projected through the opening 15. The normal pressure of the instep against the straps will tend to slightly incline the parts 1 and 12 relative to one another as is disclosed in Figure 5 so that the binding action of the edges 16 and 17 of the opening 15 against the sides 9 of the stud 8 is secured. Thus, the parts 1 and 12 are held securely engaged until it is desired to separate them, when the parts are drawn together in such a way by hand as to permit the part 12 to be drawn from over the stud 8.

It will be seen from the foregoing, that I have provided the interengagement of the two parts of the clasp in such a way that the use of springs or other means for securing a snap action is dispensed with. Thus, my improved device is rendered extremely simple in construction yet highly effective in both operation and appearance. It will also be seen that a constant drawing of the straps through the parts of the device is avoided so that wear and tear on these straps cannot be caused.

Having described my invention, what I claim is:

1. A fastening device composed of a pair of interengaging plates, one of said plates having a projecting stud member of substantial height, the other plate having an aperture adapted to closely fit about said stud member and maintain the two plates in their overlapped position by inclination of one of the plates with respect to the other.

2. A fastening device composed of a pair of overlapping plate members, a stud projecting from the face of one of said members, an aperture in the other plate member adapted to fit over the stud when the plates are in their overlapped relationship, the fit between the stud and aperture being such that a binding effect by the edge of the aperture on the side of the stud is secured by inclination of one plate with regard to the other.

Signed at the city, county and State of New York, this 27th day of February, 1928.

LOUIS ALTERSON.