April 26, 1960 A. STEINBERG ET AL 2,933,793

PRESS-KNOB

Filed Nov. 4, 1954

FIG. 1

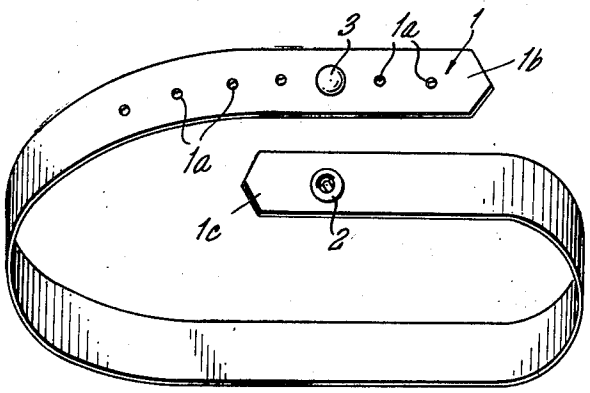
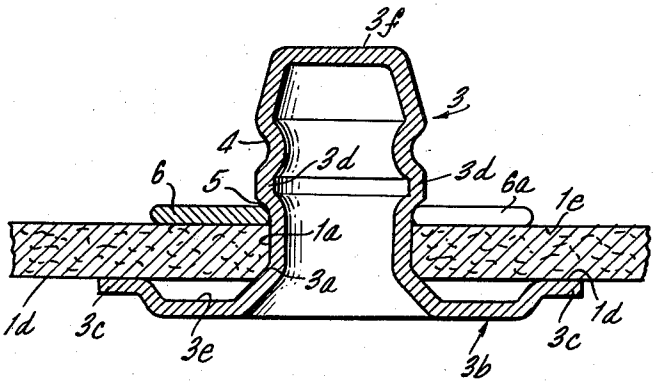


FIG. 2



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1 Claim. (Cl. 24—208)

This invention relates to improvements in snap-button-type fastening means.

Conventional press-buttons are composed of two parts of which the male part presents a springy projection and the female part is provided with a hole or recess. Each one of these parts is constructed of any suitable material and functions to connect two ends of an article of any kind together, such as for instance cloth, a piece of leather or the like.

Such conventional fasteners are devoid of any adjustment and are therefore substantially not suitable in cases where it will be necessary to adjust the length of a belt, bracelet or the like so as to agree with the measurements of the limbs or body of the wearer.

This invention relates to an improved press-button fastener, which permits easy adjustment relative to a series of holes provided in a respective part of an article to be attached to another part of the latter.

It is therefore an important object of the present invention to provide means regulating the required length of a belt, a bracelet or like article, while at the same time the advantage is achieved that there is no tongue employed as in ordinary belt buckles, the result being that the press-button ensures a better fastening of the belt or like article, and also avoids any damage or rupture of the article, which is usually caused when inserting the buckle tongue into the hole or holes in the article.

The attached diagrammatic drawing illustrates a preferred embodiment of the invention, where the press-button has been applied to a strip of material or a bracelet.

In the drawing:

Fig. 1 illustrates in perspective a bracelet in which the female part of the fastener is fixed to, while the male part is removably retained on the bracelet.

Fig. 2 illustrates on an enlarged scale the male part shown in section as applied to the bracelet according to the invention.

Referring now more specifically to the drawing, there is disclosed a bracelet 1 having perforations or holes 1*a* and two opposite ends 1*b* and 1*c*.

The fastener has a male part 3 and a female part 2.

The bracelet, on which the male part 3 of the fastener is engaged permits the anchorage of said male part as well as its removal from holes 1*a*.

Further the same adjustment is obtainable if the female part 2 is removable. This male part 3 may be engaged with each hole and in this present case female part 2 is retained in any useful position of the bracelet.

Fig. 2 shows in greater detail the disposition of male part 3 in a selected hole of the bracelet.

According to Fig. 2, the bracelet, belt or like article has the opening 1*a* through which is inserted male part 3, the diameter 3*a* of which is about the same as that of the perforations or holes 1*a* provided in the bracelet or like strip. Male part 3 consists of a hollow stud of springy material, which has a base 3*b*. The stud forms a hollow

projection which is open at said base and is shaped for insertion through the respective selected hole 1*a*.

The base 3*b* has a flat flange portion 3*c* abutting against face 1*d* of the strip 1, while the remainder of base 3*b* is spaced from and forms a recessed portion 3*e* with respect to flange portion 3*c*.

The projecting stud 3 has a first cylindrical portion 3*a* and a second cylindrical portion 3*d* which is located about midway of said stud and is of greater diameter than that of said first cylindrical portion. The stud further has a first annular cavity 4, which is located between said second cylindrical portion 3*d* and a truncated end portion 3*f*, which forms the completely closed forward end of the projection.

There is further provided a second annular cavity 5, which is located between said second cylindrical portion 3*d* and the base 3*b*. When the stud 3 is completely inserted in opening 1*a*, a portion of the second annular cavity 5 will be located beyond the opposite face 1*e* of the strip or like article 1.

A washer like split and flat springy member 6 is located in opposed relation to the recessed portion 3*e* and positioned in said portion of said second annular cavity 5 and for removal from the latter. This springy member is in engagement with the second cylindrical portion 3*d* and abuts the opposite face 1*e* of the bracelet or like article in flat and tight relation to the flat flange 3*c* of the base 3*b*, whereby the stud is removably anchored on the strip 1.

Thus the engagement of the truncated end 3*f* and of said first annular cavity 4 with female part 2 (Fig. 1) of the fastener will be easily facilitated.

As seen in Fig. 2, member 6 has a radial slit 6*a* so that retention of the stud 3 on strip 1 will be assured. When the male part 3 has to be displaced from one hole of the strip to another one member 6 is taken off first, and afterwards the male part 3 is introduced into the desired perforation or hole of the bracelet or strip 1, the member or washer 6 being thereafter forced into place or position as shown.

Due to the cylindrical portion 3*d* and due to the presence of washer 6, the press-button made in accordance with the invention will not be disengaged from the bracelet even when the same is open. The larger diameter of the enlarged cylindrical portion 3*d* will prevent disengagement from taking place, whereby the presence of the member 6 will increase the stability of the press-button in its position, making it possible that the strip below member 6 may be displaced into the space formed by the base recessed portion 3*e*.

The press button in accordance with this invention is useful in the manufacture of watch bracelets, belts in general and similar articles.

Various changes and modifications may be made without departing from the spirit and scope of the present invention and it is intended that such obvious changes and modifications be embraced by the annexed claim.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

In a separable fastener device having a male part adapted to be removably fitted in a predetermined opening of a strip-shaped article having a plurality of spaced openings; a hollow integral stud made of springy material comprising a base with a central projection open through said base, said projection being shaped for insertion through said opening, said base being provided with a flat flange portion abutting against one of the faces of said strip-shaped article, the remainder of said base being spaced from and forming a recessed portion with respect to said flange portion, said projection being provided with a first cylindrical portion adapted to engage the wall defining said opening, a second cylindrical por-

tion of greater diameter than that of said first cylindrical portion and located on said projection approximately midway thereof, a truncated completely closed end portion forming the forward end of said projection, there being a first inwardly directed annular cavity between said truncated end portion and said second cylindrical portion, there being a second annular cavity about said first cylindrical portion and located between said second cylindrical portion and said base, a portion of said second annular cavity being located beyond the other face of said strip-shaped article, and a split and flat springy member located in opposed relation to said recessed portion in said base and positioned in said portion of said second annular cavity and for removal from the latter, said member being in engagement with said second cylindrical portion and abutting the other face of said strip-shaped article in flat and tight relation to said flat flange

portion to removably anchor said stud on said strip-shaped article and for facilitating the engagement of said truncated end portion and of said first annular cavity with a female part of said fastener.

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