H. A. KELLER.

BUTTON MOUNTING FOR GARMENT SUPPORTERS.

APPLICATION FILED NOV. 20, 1917.

1,272,674. Patented July 16, 1918.

Fig. 1.

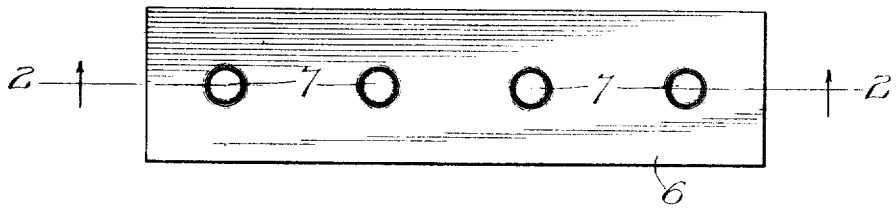


Fig. 2.

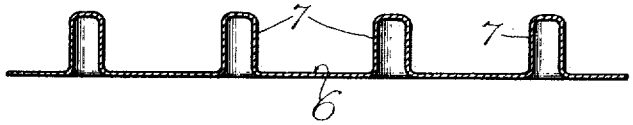


Fig. 3.

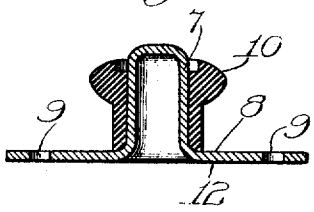


Fig. 4.

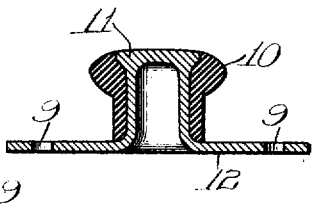
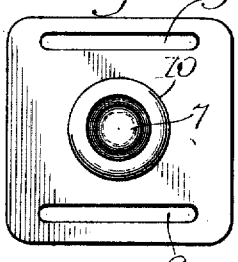


Fig. 5



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UNITED STATES PATENT OFFICE.

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BUTTON-MOUNTING FOR GARMENT-SUPPORTERS.

1,272,674. Specification of Letters Patent. Patented July 16, 1918.

Application filed November 20, 1917. Serial No. 202,910.

To all whom it may concern:

Be it known that I, HERMAN A. KELLER, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented certain new and useful Improvements in Button-Mountings for Garment-Supporters, of which the following is a specification.

The present invention relates to an article used as a mounting and retainer for the usual rubber stud employed in connection with garment supporters.

One object of the invention is to form these studs in multiples by a die drawing process and to sever the blank on which the plurality are formed into individual articles.

A further object of the invention is to produce a stud which will furnish a firm support for all sides of the rubber button.

A further object of the invention is to produce a stud of hollow formation so that it will be light of weight and can be quickly upset to secure the button in place.

A further object of the invention is to render the back of the stud smooth and thereby eliminate the rough edges attendant upon the usual riveted stud.

In the drawings:

Figure 1 is a plan view of the blank, having a series of studs formed thereon;

Fig. 2, a cross section on line 2—2 of Fig. 1;

Fig. 3, an enlarged section of a mounting showing the rubber button in place and previous to the upsetting operation;

Fig. 4, a view similar to Fig. 3 with the stud head upset; and

Fig. 5, a plan view on a somewhat reduced scale from Figs. 3 and 4 of one of the stud bases with the button in position.

In the art to which the present invention relates, there are many forms of what is known as button mountings. They consist of a sheet metal base to which is secured a stud or a post for receiving and retaining the rubber button which co-acts with the loop member to form the clasp of a garment supporter. It is essential in these articles that they be of such construction as to give a firm support to the rubber button upon all sides, hold the button tightly in place and be cheap and simple of construction. So far as I am aware these button supports have been made in the form of a stud or post having a headed outer end, which stud is secured to base by having its lower end upset.

In the present invention it is desired to eliminate this riveting operation entirely and at the same time secure a mounting which is simple, cheap and effective.

Referring now to the drawings, the articles are made in multiples from a sheet of metal 6. The metal is passed through a series of die drawing operations, until a plurality of hollow studs or posts 7 are produced. (See Fig. 2.) The sheet is then cut up to make the individual mountings. These mountings each comprise a base member 8, having suitable slots 9 to receive the usual attaching tape.

The studs or posts 7 project upwardly from the base and owing to its being formed by a die drawing process, it is hollow. The rubber button 10 is slipped over the shank as in Fig. 3, and the shank being of cylindrical formation gives rigid and firm support to all portions of the button, thus preventing the mutilation and cutting of the rubber from which the button is formed, which would take place if it were unsupported at certain points, that is if the shank were not cylindrical, so as to conform to the opening through the button, certain portions of the button would be unsupported by the metal of the stud which would cause the button to quickly wear at these points.

After the button has been positioned as in Fig. 3, the top 11 of the stud is upset as in Fig. 4 and the button clenched in place. This upsetting is very easily and quickly done owing to the hollow construction of the stem. By referring to Figs. 3 and 4 it will be seen that the lower face 12 of the base is smooth and contains no sharp or roughened surface such as are present when the stud is made separate from the base and riveted thereto.

The entire device is cheap and simple of construction, also light of weight, and in assembling there are only two operations; the placing of the button in position, and the upsetting of the stem, as distinguished from the prior art wherein the button is placed on the stem, the stem inserted into a base and then riveted in position. By the present mounting, one step in assembling is eliminated, thus reducing the cost of production.

I claim:

In a button mounting for garment supporters, a stud base plate of thin sheet metal, a hollow stud integral with said base plate and extending upward therefrom and of substantially the same diameter throughout its length, a yieldable button having an axial opening, said stud being of outward configuration corresponding to the opening in said yieldable button thereby furnishing a support for all portions of the button, said button being formed with a recess in the upper edge concentric with said opening and of excess area with respect thereto, the stud being of greater height than the button, whereby the excess height of the stud may be upset on the top of the button said upset portion lying within said recess thereby holding the button on said stud with its inner end snug against the stud base plate and producing a smooth rounded head on the button.

HERMAN A. KELLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."