May 27, 1930. M. F. CARR 1,760,835

TACK ATTACHED BUTTON

Filed Aug. 6, 1928

Fig. 1.

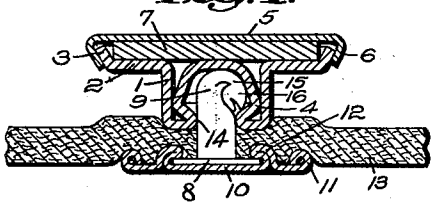


Fig. 2.

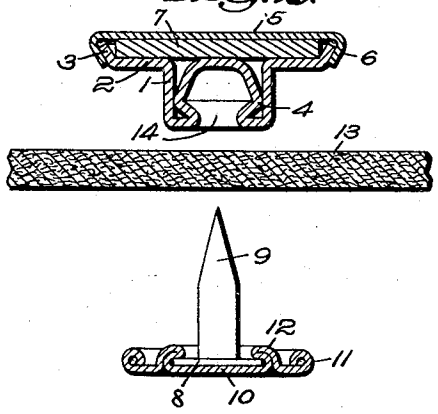


Fig. 3.

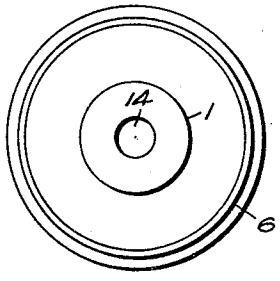
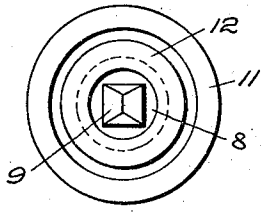


Fig. 4.



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UNITED STATES PATENT OFFICE

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TACK-ATTACHED BUTTON

Application filed August 6, 1928. Serial No. 297,809.

My invention aims to provide improvements in tack-attached buttons.

In the drawings, which illustrate a preferred embodiment of my invention:—

Figure 1 is a section through a complete tack-attached button installation;

Fig. 2 is a section of the parts of the button assembly just prior to securing them together;

Fig. 3 is an underside plan view of the button; and

Fig. 4 is a plan view of the tack.

Referring to the drawings, I have illustrated a sheet metal tack-attached button adapted for use on garments and other articles where a button is desired.

The button has a body portion which is substantially the same as that shown and more fully described in my co-pending application Serial No. 297,807 filed herewith. The body portion has the shank 1 provided with the integral flange piece 2 having the peripheral outwardly flared wall 3. The body portion also has integral tack receiving and clenching means 4 located within the shank 1.

The button head includes a top or cap-piece 5 and the flange piece 2, the cap-piece being secured to the flange piece by crimping a portion 6 of the cap-piece over the wall 3, as shown in Figs. 1 and 2.

Between the pieces 2 and 5 I have secured a relatively thick plate 7 of hard metal which rests against the upper end of the tack receiving and clenching means 4.

The tack has a head 8 and a pointed shank 9. While it is not necessary to provide the head of the tack with a cap, I have illustrated one in the drawings because in some instances it is desirable. The cap 10 (Figs. 1 and 2) has a rolled edge 11 and, between the rolled edge and the center of the cap, a double annular wall 12 which provides a cup-shaped portion to receive the head 8 of the tack. The cap is secured to the tack by clenching the double wall 12 beneath the head of the stud. This cap covers a greater area of the material 13 to which the button is secured and, therefore, provides for gripping a larger area of the material 13, as well as to provide a finish for the head of the tack.

When securing the button to the material 13, the tack and button may be placed in suitable dies (not shown) which move one toward the other. Thus, the pointed shank 9 of the tack will be forced through the material 13, through the restricted opening 14 and into the tack turning and clenching means 4 where the end of the tack is upset by the curved anvil-like surface 15 to form a bunch 16 on the end of the tack. This bunch 16 is larger in diameter than the aperture 14 and, therefore, cannot be withdrawn therethrough.

During the attaching operation, the plate 7 back-supports the curved anvil portion 15 and prevents the point of the tack piercing the head. Therefore, when the plate 7 is used it is unnecessary to have a hole in the cap-piece 5 to permit insertion of a die to back-support the tack clenching and turning means 4. It is desirable to have a simple button which is durable and has an imperforate head and, therefore, the button which I have just described represents an important advance in the art. It embodies all the desirable features of a particular button with fewer parts than has been possible in buttons of this type heretofore made, so far as applicant is aware.

While I have illustrated and described a preferred embodiment of my invention, I do not wish to be limited thereto and, therefore, reference is made to the following claims which more fully cover the scope of my invention.

Claims:

1. In a tack-attached fastener installation, a tack having a head, a shank and a cap secured to said head, said cap being secured to said head by a wall formed integral with said cap and located between the periphery of said tack head and the periphery of said cap, said wall being turned over the edge of the tack head.

2. In a tack-attached fastener installation, a tack having a head, a shank and a cap secured to said head, said cap being secured to said head by a double wall formed integral with said cap and located between the periphery of said tack head and the periphery of

said cap, said wall being turned over the edge of the tack head.

3. In a fastener installation, a fastening member, a carrying medium and an attaching element, said attaching element having a head and a shank, and a cap secured to said head, said cap having a wall formed integral therewith and located between the periphery of the head of the attaching element and the periphery of the cap and said wall being turned over the edge of the head of the attaching element to secure said parts together.

In testimony whereof, I have signed my name to this specification.

MOSES F. CARR.