THICK-EDGE TACK-FASTENED BUTTON

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The object of this invention is to provide a light-weight metal button having a thick edge so as to conform to standard buttons, and the button as herein shown and described is of the type in which a tack is used for setting it although the thick edge feature may be employed in other types of buttons.

The invention consists of a button having a back made of thin sheet metal, such as aluminum, wherein a groove is made in the edge to which the face or cap is secured and when so secured the edge or periphery of the button is relatively thick so as more securely to retain engagement with a button hole or other part with which the button is engaged, as we will proceed now more fully to explain and finally claim.

In the accompanying drawings illustrating the invention, in the several figures of which like parts are similarly designated, Figure 1 is a bottom plan view; Fig. 2 is a top plan view, and Fig. 3 is a cross-section of the back. Fig. 4 is a top plan view; Fig. 5 is a bottom plan view, and Fig. 6 is a side elevation of one form of anvil that may be employed. Fig. 7 is an enlarged cross-section of the finished button. Fig. 8 is a cross-section, enlarged, of the finished button mounted upon an object, with the setting tack shown in elevation.

The back 1 of the button, is made of thin sheet metal, such as aluminum, and provided with a hub 2 having a hole 3 and a flange or collet 4 extending laterally from the hub and having its edge provided with a groove 5 with its outside or peripheral edge 6 flared outwardly. The top of the flange or collet between the hub 2 and the groove 5 is flat and level with the edge 6 and the top of the hub and the inside of the aforementioned cap or face to support the latter.

The cap or face 7 likewise may be made of thin sheet metal, and it is provided with the flange 8 to be closed upon the grooved edge of the back.

Any suitable anvil may be used, but it is preferred to employ one made of relatively thick hard metal, such as steel, so as to turn or clinch the point of the setting tack without liability of puncturing the cap or face.

Such an anvil is shown in Figs. 4 to 8, and consists of a hollow cylindrical body 9 having a flat and flangeless top 10 to form the tack point-turning feature, and the bottom turned in to form an open-ended part 11 to anchor the clinched tack in the anvil.

This anvil is placed in the hub with its top on a level with the adjacent flat part of the flange or collet, so that when the cap or face is applied to the back its adjacent parts will lie flat and be supported upon the flat top of the anvil and the contiguous flat parts of the back.

As shown in Figs. 7 and 8 the bottom of the anvil rests upon the bottom of the hub, although it may extend shortly above it.

The hole in the hub and the open end in the anvil register when the parts are assembled, as shown in Figs. 7 and 8, so that the setting tack's pointed shank may enter the button and be upset or clinched against the top of the anvil and anchored against the bottom of the anvil and thus afford a secure connection of the tack and button, as indicated in Fig. 8.

In Fig. 8 the part 12 may be a portion of a garment or other article to which the button is fastened, the button being arranged on one side thereof and the tack 13 driven through it from the opposite side into and clinched within the button as explained.

The provision of the groove in the back or collet and the closing thereon of the flange of the cap or face, affords a thick-edged button which is desirable for the reasons above stated and also to afford a desirable finish.

Variations in the details of construction are permissible within the principle of the invention and the claims following.

What we claim is:

1. A button, having a back provided with a hub having a laterally extending flange or collet and a peripheral groove and a flat portion between said hub and groove, a cap having a flange closed down upon the back outside of its grooved flange and flat portion and resting upon these parts, and an anvil arranged in the hub and flush with the inner side of the cap and adapted to receive and clinch an attaching device.

2. A button, having a back provided with
a hub having a laterally extending flange or collet and a peripheral groove and a flat portion between said hub and groove, a cap having a flange closed down upon the back outside of its grooved flange and flat portion and resting upon said parts, and an anvil arranged in the hub and flush with the inner side of the cap and adapted to receive and clinch an attaching device, the back and cap being made of thin metal and the anvil being made of relatively thick and hard metal.

3. A button, having a back comprising a hub having a flange or collet and a peripheral groove therein, said flange extending laterally from the top of the hub and on a level with said top and flat between the hub and said groove, said groove having an outwardly flared edge surrounding said flat portion, a flanged cap closed down upon the flat portion and about the edge of the groove and supported thereon, and a cylindrical anvil fitted within the hub and having a closed flangeless flat top on which the cap rests.

In testimony whereof we have hereunto set our hands this 4th day of September, A. D. 1931.

PAUL E. FENTON.
GEORGE A. KING.