

No. 656,508.

Patented Aug. 21, 1900.

C. A. BRYANT.
TACK FASTENED BUTTON.

(Application filed June 12, 1900.)

(No Model.)

Fig. 1.

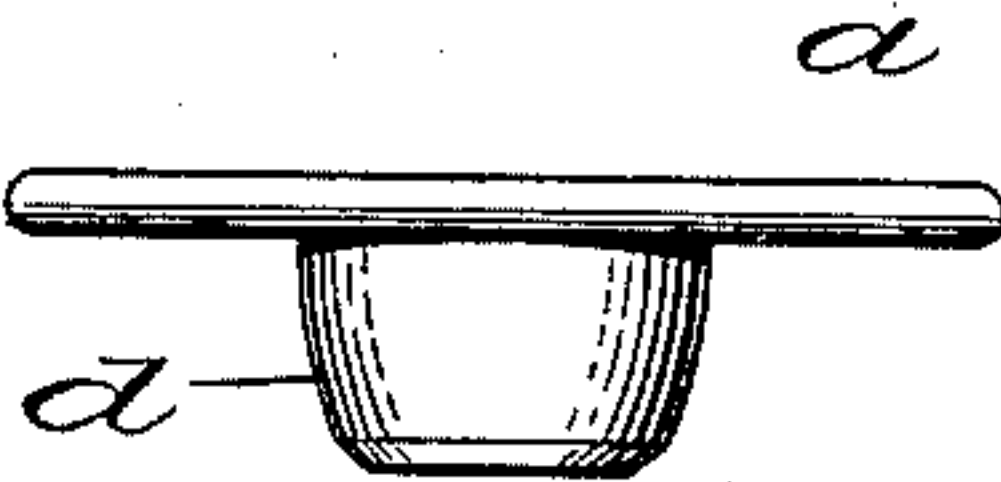


Fig. 2.

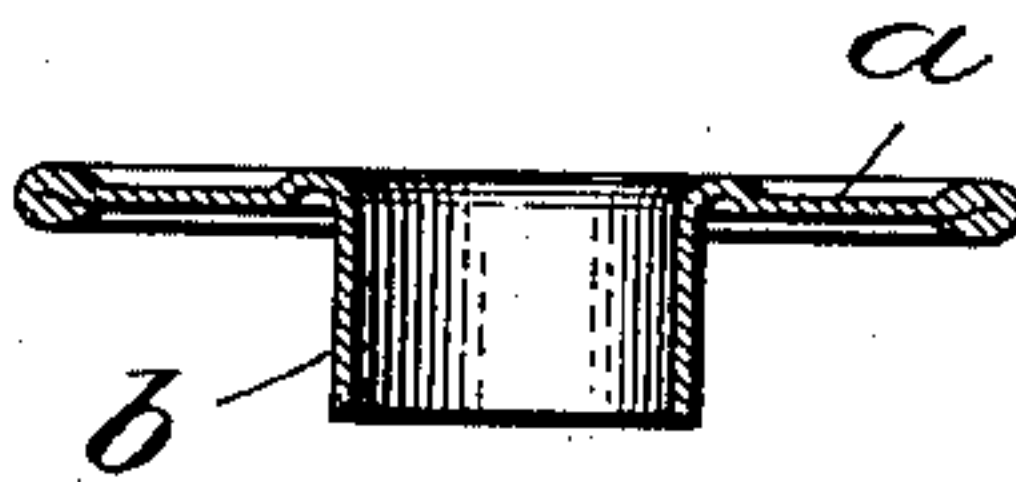


Fig. 3.

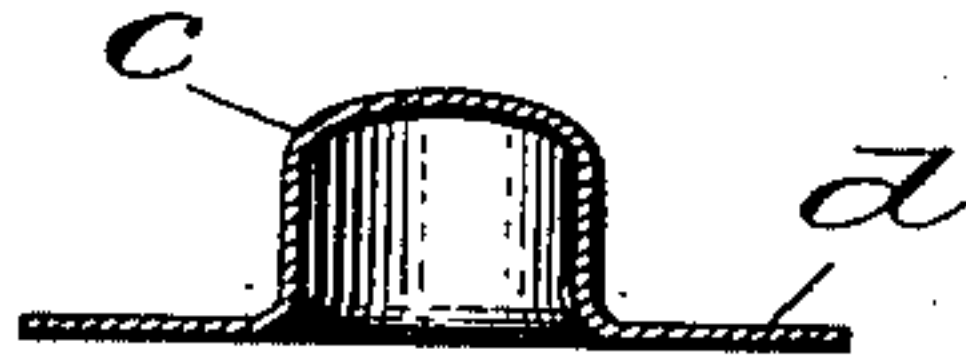


Fig. 4.

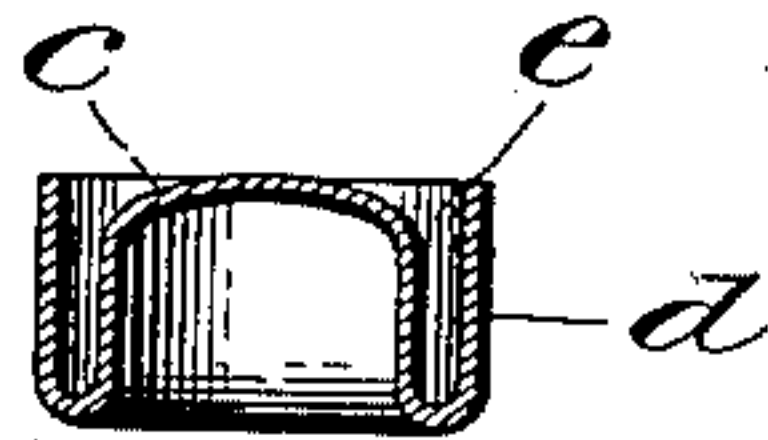


Fig. 5.

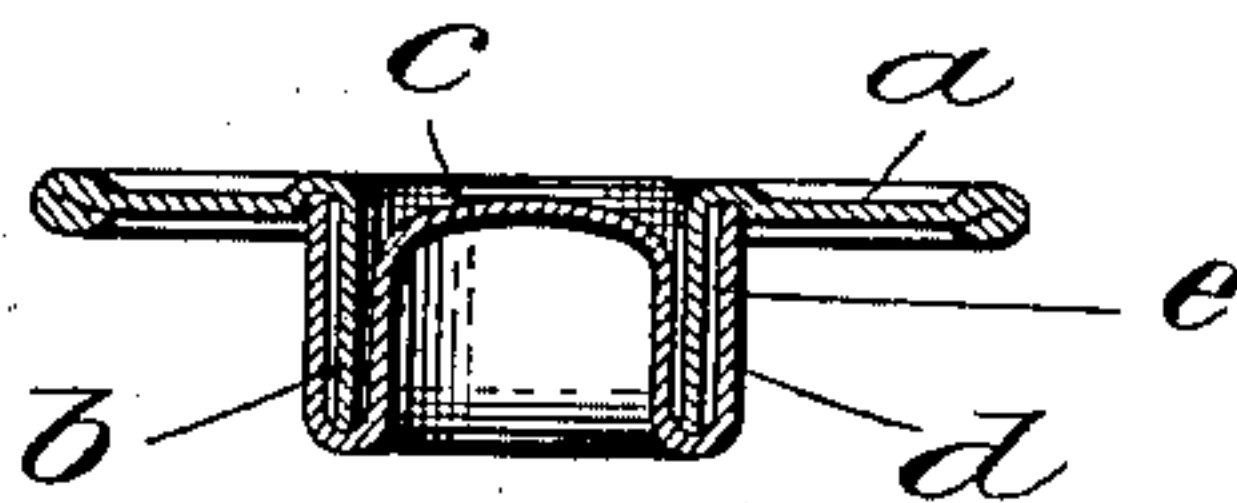


Fig. 6.

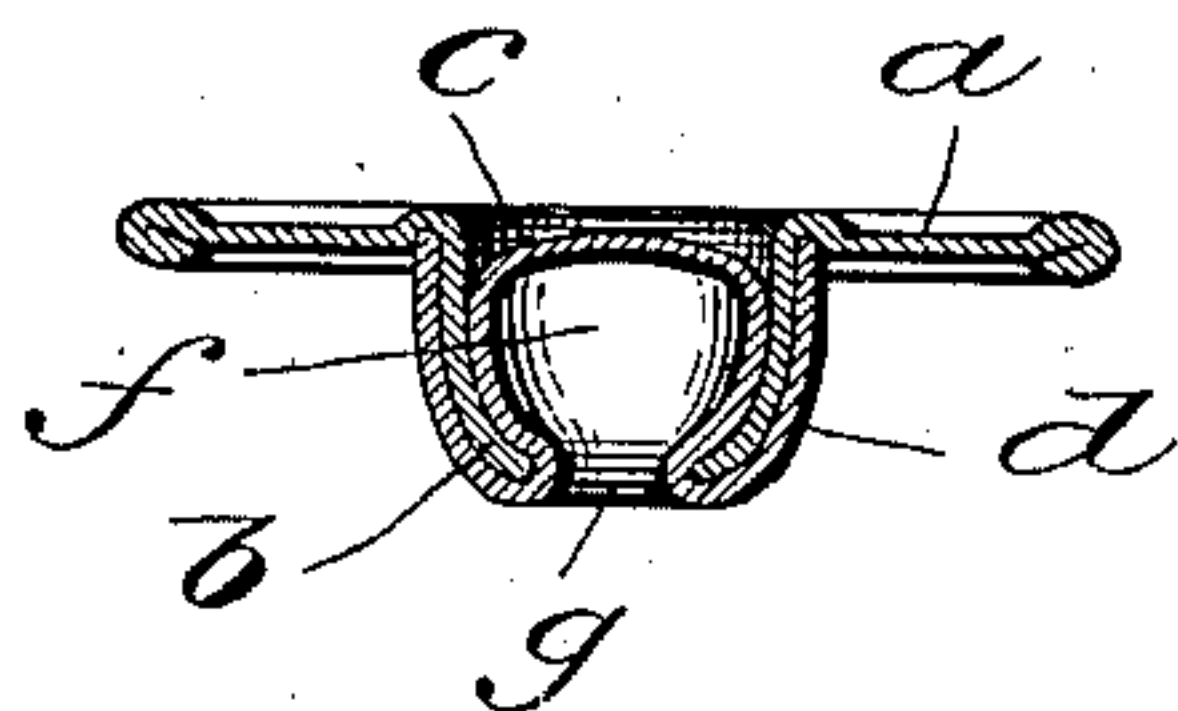
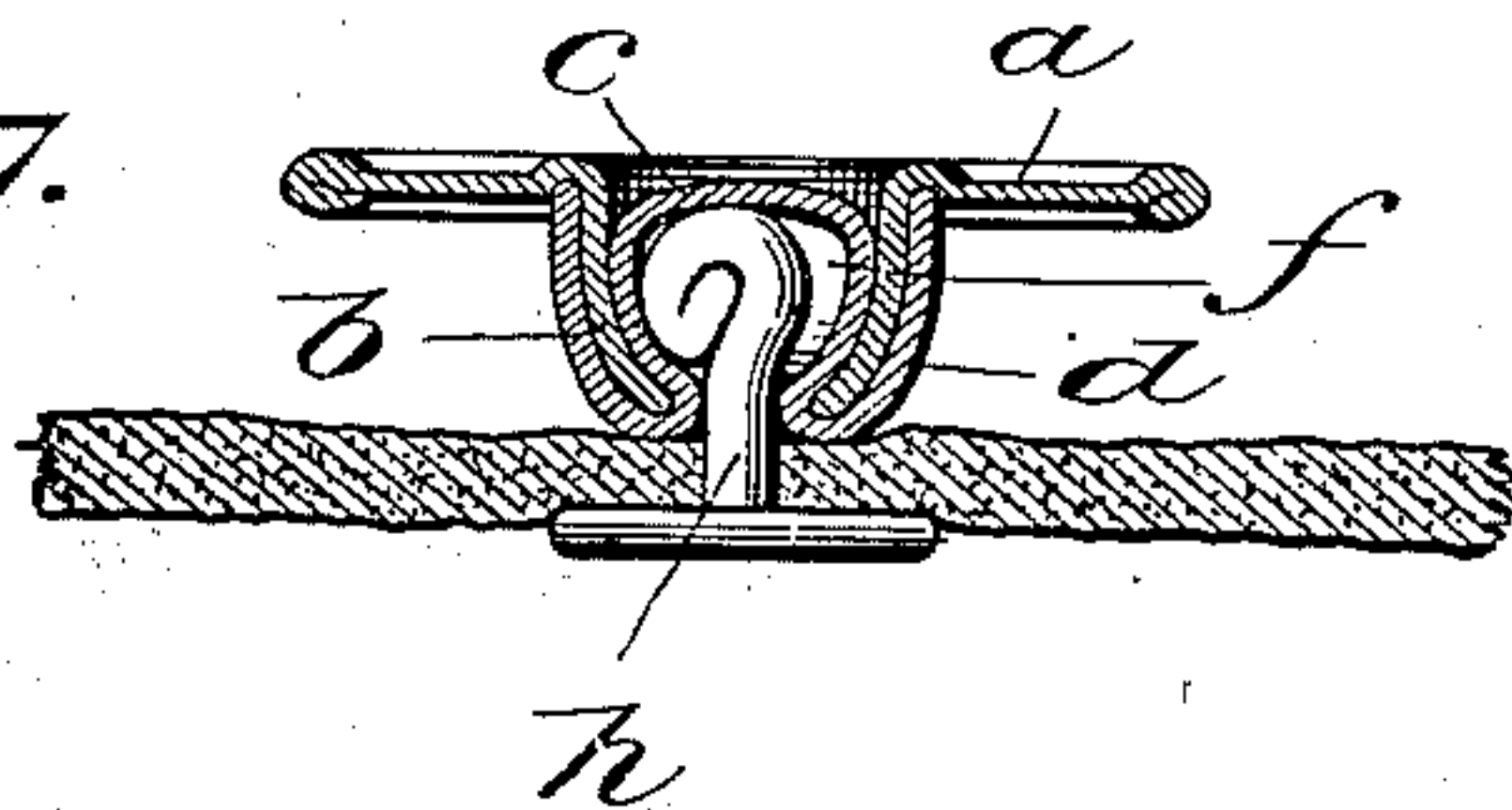


Fig. 7.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES A. BRYANT, OF WAKEFIELD, MASSACHUSETTS, ASSIGNOR TO THE
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TACK-FASTENED BUTTON.

SPECIFICATION forming part of Letters Patent No. 656,508, dated August 21, 1900.

Application filed June 12, 1900. Serial No. 20,038. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BRYANT, a citizen of the United States, residing at Wakefield, in the county of Middlesex and State of Massachusetts, have invented a certain new and useful Improvement in Tack-Fastened Buttons, of which the following is a full, clear, and exact description.

The object of this invention is to provide a combined anvil and hub-reinforce for a button of that class which has a bottomless shank or hub and which is secured to a garment by a tack.

In carrying out my invention I form from sheet metal, preferably steel, an inverted cup having a flanged lip, and this lip is bent back parallel, or nearly so, with the cup or hollow portion, so as to leave an annular space. This annular space receives the bottomless shank or hub of the button, with the cup or hollow portion extending up within the shank or hub, and when thus assembled the parts are pressed together and shaped to form an integral anvil and hub-reinforce having an internal chamber within which the point of the tack is upset or clenched and concealed and a flange externally surrounding the shank or hub.

In the accompanying drawings, illustrating my invention, in the several figures of which like parts are similarly designated, Figure 1 is a side elevation of one form of my button. Fig. 2 is a cross-section of a button-blank. Fig. 3 is a cross-section of the cupped anvil and hub-reinforce. Fig. 4 is a cross-section of the anvil and hub-reinforce ready for application to the button-blank of Fig. 2. Fig. 5 is a cross-section showing the button-blank of Fig. 2 and the anvil and hub-reinforce of Fig. 4 in position for assembling. Fig. 6 is a cross-section of the finished button. Fig. 7 is a cross-section illustrating the manner of setting or fastening the button to a garment by a tack.

The button-blank, if an open-face button is to be made, has a flange *a* and a bottomless shank or hub *b*, produced in any approved manner, or if a covered or closed-face button be desired its back or collet is produced with a bottomless shank or hub in an analogous manner. The combined anvil and hub-reinforce is formed from a disk of metal, say sheet-

steel, and the anvil portion *c* is drawn with a surrounding flange *d*, Fig. 3. This flange is then bent back or returned parallel, or nearly so, with the anvil portion *c*, as shown in Fig. 4, so as to leave a space or pocket *e* between the bent flange and the cup or hollow or anvil portion *c*. The shank or hub is inserted in this pocket with the anvil portion projecting within the shank or hub, and then by means of suitable tools or dies the parts are bent and closed together, and thus rigidly united, and the outer portion is contracted, so as to complete the chamber *f* for the reception of the tack-point, leaving in the intumed bottom of this chamber an opening *g* for the passage of the tack-point, with a surrounding wall of three thicknesses of metal, whereby the button is thoroughly reinforced against all strains incident to the upsetting or clenching of the tack *h* and following from the use of the garment to which the button is applied.

It will be observed that the point of the tack is anchored wholly within the shank or hub of the button and that said shank or hub is reinforced to resist or withstand the strains imposed by setting and using the button, and hence it follows that a very strong and durable button is produced.

As is shown in the drawings, the flange *d* extends up into the bead which usually surrounds the hub of an open-face button, and this may be desirable for strength, alignment, and appearance, but is not absolutely necessary, and hence the said flange may be relatively longer or shorter than the cupped portion *c*, and, further, the said cupped portion may be of a length to project beyond the face of the button or fall below it, the preferred construction being the latter and as shown in the drawings.

By reason of the final shape of the combined anvil and hub-reinforce and the fact that it adds its thickness to the finished button it subserves to that extent, at least, the purpose of a spacer.

This invention differs from prior buttons in that the anvil and hub-reinforce are a unit both before and after application to the button blank or head instead of being separate pieces, and it differs also from those prior buttons in which the anvil and spacer are inte-

gral in that it is dependent upon its assembling with the button blank or head for its final operative shape and union with such blank or head, and in the preferred construction is located wholly on one side of the back of the button—that is to say, within its shank or hub—and by reason of this last fact my button may be used with the tacks now in common use and needs not a tack of special length. Moreover, my combined anvil and hub-reinforce may be very economically produced and with simple tools and as readily and economically assembled with the button-blank.

15 What I claim is—

1. A button, having a combined anvil and hub-reinforce composed of a cupped portion which is adapted to upset and retain the tack-point, and a returned flange integral therewith, between which parts the shank or hub of the button is secured, substantially as described.

2. A button, comprising a button-blank, having a bottomless shank or hub, an anvil 25 located within such shank or hub and having

an integral flange externally embracing such shank or hub, the outer end of the shank or hub and the anvil and its flange being contracted so as to form a tack-point passage into a clenching-chamber within the anvil, substantially as described. 30

3. A tack-fastened button, including a shank or hub, and a combined anvil and hub-reinforce applied to such shank or hub, and having its tack receiving and clenching portion located within the shank or hub, and a returned flange arranged outside of the shank or hub, the said shank or hub and the combined anvil and hub-reinforce being united by pressure and the outer end contracted to form a tack-entrance and a clenching-chamber above such entrance, substantially as described. 35 40

In testimony whereof I have hereunto set my hand this 4th day of June, A. D. 1900. 45

CHARLES A. BRYANT.

Witnesses:

CHARLES F. HARTSHORNE,
FREDERIC S. HARTSHORNE.