

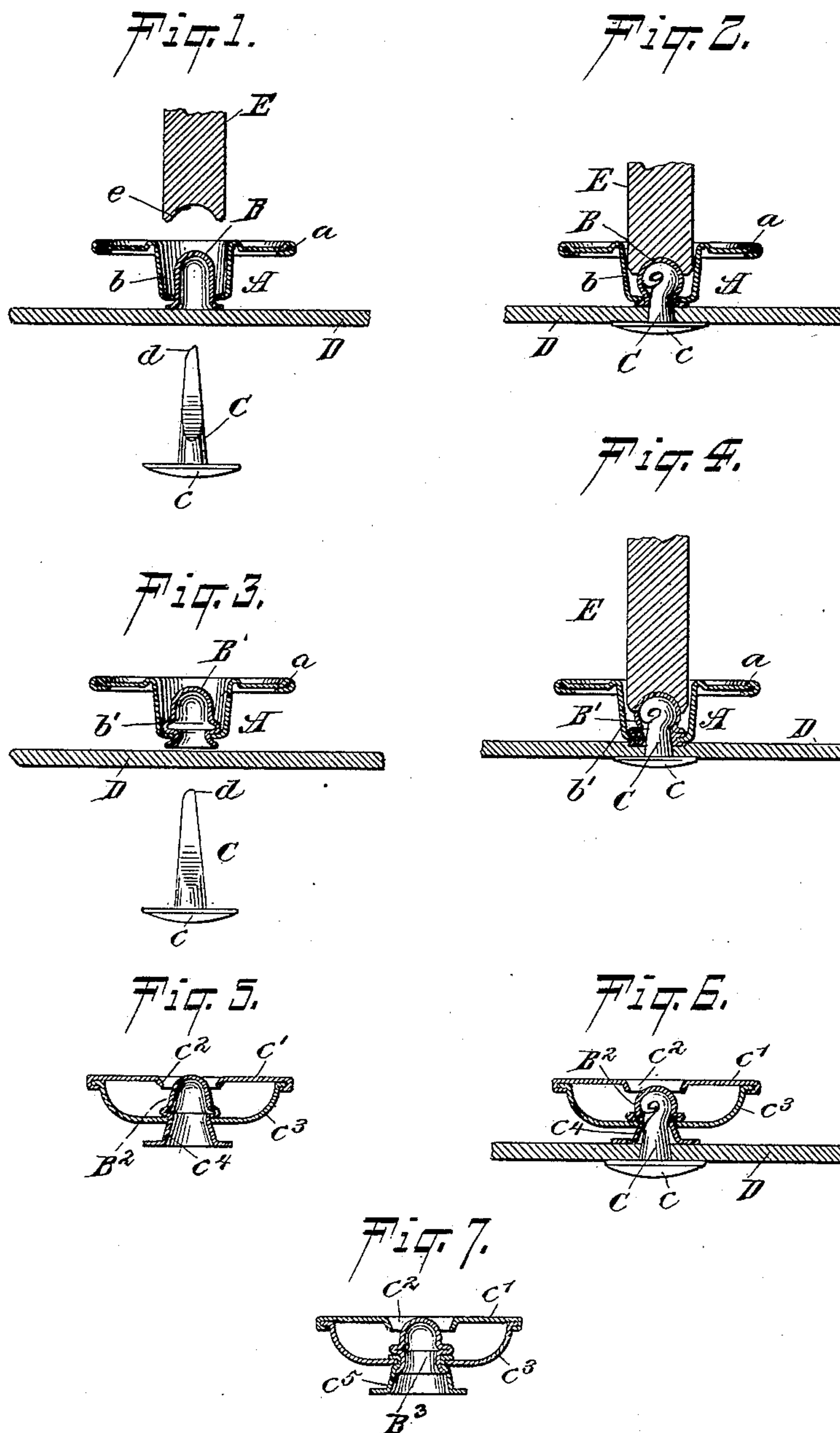
No. 618,235.

Patented Jan. 24, 1899.

L. A. PLATT.  
BUTTON.

(Application filed Apr. 28, 1898.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE

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## BUTTON.

SPECIFICATION forming part of Letters Patent No. 618,235, dated January 24, 1899.

Application filed April 28, 1898. Serial No. 679,069. (No model.)

*To all whom it may concern:*

Be it known that I, LEWIS A. PLATT, a citizen of the United States, and a resident of Waterbury, in the county of New Haven and State of Connecticut, have made and invented certain new and useful Improvements in Buttons, of which the following is a specification.

My invention relates to an improvement in buttons, and more particularly to that kind or class thereof commonly known and referred to as tack or rivet buttons—that is, buttons adapted to be secured to cloth or fabric by means of a metal tack or fastener.

In order to prevent the withdrawal of the tack or fastener from the button after the latter has been secured to the cloth or fabric, it has heretofore been attempted to so unite the fastener and button that all lateral play or movement of the tack within the button shall be prevented, and to accomplish this end various ways and means have been produced—as, for instance, by contracting or constricting the clenching-chamber by the insertion of paper, felt, lead, or other material.

The object of my invention is to accomplish the same end—that is, to so unite the tack or fastener within the button that no movement of the overturned end of the tack within the clenching-chamber shall be allowed, and this without the necessity of inserting any foreign material in said chamber—and with this end in view consists in so constructing the button that the metal of the clenching-chamber will be displaced or distorted simultaneously with the swaging or overturning of the piercing end of the tack or fastener, said clenching-piece being crowded, crushed, or forced tightly and closely around the curled end of the tack.

My invention further consists in certain novel features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view of my improved button prior to securing the same to cloth or fabric. Fig. 2 is a similar view thereof after being secured. Fig. 3 is a similar view showing the clenching-chamber provided with a retaining-shoulder, and Fig. 4 a view thereof after being secured to the cloth or fabric. Fig. 5 shows a different form of button provided with a cap

or face-plate, the clenching-piece being extended through the button to form a spacer; and Fig. 6, a view showing the same attached to cloth or fabric. Fig. 7 shows the same form of button provided with a separate hub or spacer.

Referring to the drawings, A represents a button provided with a flange *a*, forming the face of the button, and constructed with a depressed center or hub *b*, provided with a hole or opening, through which extends the clenching-piece B, the upper end of the latter being domed to form an anvil and having its lower edge flanged outwardly against the under side of the depressed center for assisting in holding said clenching-piece in place.

C represents a tack or fastener provided with a head *c* and piercing end *d*, adapted to pass through the cloth or fabric D into the clenching-piece B.

E represents a plunger provided at its lower end with the recess *e*, said plunger forming a part of a machine for securing buttons to cloth or fabric, not necessary to be shown in detail herein.

In practice the tack or fastener C is forced through the cloth or fabric and into the clenching-piece B, whereupon the plunger E by being forced downwardly overturns the piercing end of the tack and at the same time crushes the clenching-piece, the effect being that the metal of said clenching-piece B is forced downwardly upon and around the curled end of the tack, as shown in Fig. 2, the union of the two parts being far more complete than in those instances wherein the metal of the die or clenching-piece is allowed to retain its original shape.

By reference to Figs. 3 and 4 it will be seen that I have provided the clenching-piece B' with a shoulder *b'* resting upon the inner surface of the bottom of the depressed center of the button, the lower edge of the clenching-piece extending through said depressed center and flared outwardly, as in the former instance, thus more securely locking the clenching-piece in place before the latter is crushed. In practice this shoulder *b'* will be compressed during the distortion of the metal of said clenching-piece, as shown in Fig. 4.

In Figs. 5 and 6 I have shown practically



the same button, but provided with a cap or face-plate  $c'$ , having a flanged opening  $c^2$  in the center thereof and its outer edge curled around the back or rear plate  $c^3$ , the clenching-piece  $B^2$  being similar to that shown in Figs. 3 and 4, with the exception that it is provided with a body  $c^4$ , acting as a spacer for holding the button proper at a suitable distance from the cloth or fabric when attached thereto, as shown in Fig. 6. If desired, the spacer may consist of a separate piece  $c^5$ , as shown in Fig. 7, the upper edge of said spacer being overturned upon the plate  $c^3$  for holding it in place, the clenching-piece  $B^3$  being constructed as shown in Fig. 3. In securing this form of button the plunger (not shown) will pass through the opening  $c^2$  in the face-plate, and, striking against the clenching-piece, will upset the end of the tack and simultaneously crush and crowd the clenching-piece around it.

It will be apparent to those skilled in the art that my improved button may assume other forms or shapes, the gist of this invention lying in the fact that the clenching-piece is held in proper position within the button to receive the fastening tack or rivet and of suitable size and shape to be crushed, crowded, or forced around the overturned end of said fastener simultaneously with the upsetting of the latter.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

35 1. A tack-fastened button consisting of a button proper provided with a depressed center, and a clenching-piece located within said depressed center and passing through and permanently locked to the bottom thereof, said clenching-piece being crushed and crowded around the upset end of the tack or fastener when secured to cloth or fabric, substantially as described.

2. A tack-fastened button consisting of a

button proper provided with a depressed center and a clenching-piece, said clenching-piece passing through the bottom of the button proper and having its lower edge flared outwardly below the bottom of said button and provided with a shoulder above the bottom of said button and resting thereon, said clenching-piece being adapted to be crushed or crowded around the upset end of the tack or fastener when secured to cloth or fabric, substantially as described.

3. A tack-fastened button consisting of a button proper formed with a depressed center, and a clenching-piece secured in the depressed center and provided with a shoulder resting on the bottom of said center, said clenching-piece extending through the bottom of the depressed center, and forming a hub or spacer, that part of said clenching-piece located within the depressed center being crushed or crowded around the upset end of the tack or fastener when secured to the cloth or fabric, substantially as described.

4. A tack-fastened button consisting of a button proper formed with a depressed center, a clenching-piece located within said depressed center and having its lower end passing through the bottom of said center and flared outwardly to permanently lock it in place, said clenching-piece being crushed or crowded over and around the upset end of the tack or fastener located therein, when secured to cloth or fabric, and a cap-piece secured to the button proper and provided with an opening over said clenching-piece, substantially as described.

Signed at Waterbury, in the county of New Haven and State of Connecticut, this 16th day of April, A. D. 1898.

LEWIS A. PLATT.

Witnesses:

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