

(No Model.)

W. W. COVELL.
Button.

No. 231,541.

Patented Aug. 24, 1880.

Fig. 1.

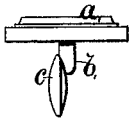


Fig. 2.

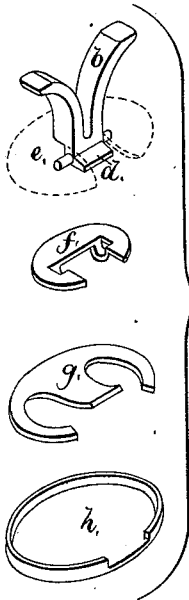
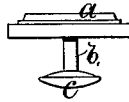


Fig. 3.

Fig. 4.

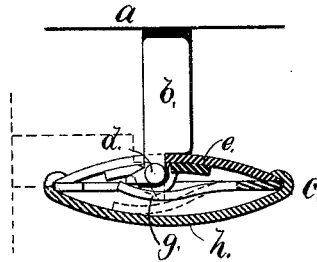
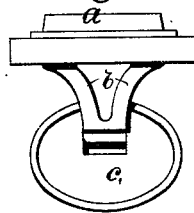


Fig. 5.



WITNESSES:

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Atty

UNITED STATES PATENT OFFICE.

WILLIAM W. COVELL, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO
FREDERICK I. MARCY, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 231,541, dated August 24, 1880.

Application filed June 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. COVELL, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Buttons; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to construct a button that can be readily secured or detached, in which the button and shoe are secured together so as to prevent loss, and that is simple in construction.

The invention consists in providing a button with a bifurcated post, on the end of which a hinged shoe is secured, as will be more fully set forth hereinafter.

Figure 1 is a view of the improved button with the shoe placed ready to enter the cuff or shirt. Fig. 2 is a view of the improved button with the shoe shown in the locked position. Fig. 3 represents the parts forming the post and shoe, shown one above the other in relation to their position when secured. Fig. 4 is a sectional view of the hinged shoe, showing the parts forming the post and shoe secured together; and Fig. 5 is a view of the completed button, showing the oval shoe hinged to the bifurcated post.

In the drawings, *a* represents the button, which may be made of any desired shape, form, or material. *b* is the bifurcated post, secured to the button at the spread or straddled end. This post may be made flat, round, or oval; but I prefer to make it as shown in the drawings, as this post prevents the button from turning in the button-hole, and forms a stronger and firmer support for the shoe.

c represents the shoe, which is made oval in outline and hinged to the post *b*, the axis of the hinge being on a line with the length of the oval.

To the end of the post the plate *d*, provided with the two pins forming the hinge, and made of steel or other hard metal, is secured. The plate, projecting beyond the post, is made to act on a spring, which will be more fully described hereinafter, and should be made of a material sufficiently hard to prevent wear.

The post *b* is recessed below the plate *d*, and the slotted disk *e* is passed under the pins forming the hinge, so as to rest on the shoulder formed on the post *b*. This disk *e*

is made convex on the side resting on the post. The stamped plate *f* is now inserted over the hinge-plate *d*, the pins entering the cavities. This plate *f* may be secured with solder to the disk *e* to form the hinge; but I prefer to construct the whole without solder, and therefore I place the spring-plate *g* over the plate *f*, and so form the same as to hold and retain the plate *f* in its place. Over all I now place the shoe-cap *h*, and secure the whole together, as is shown in Fig. 4, by compressing the rim of the cap *h*, and without heat or solder, so that all the metal retains its hardness, finish, and springiness, and at a great saving in the cost of labor.

It is important that the edges of the shoe *c* should be thin, so as to enter the button-holes of starched and polished shirts without injuring the same. I therefore make both the disk *e* and cap *h* concaved, and thus make the shoe thick in the center, so as to allow for the working of the spring-plate *g*, and thin on the edges, as is shown in the drawings.

This improved button can be readily inserted and secured by turning the shoe at right angle with the post, and can be as readily released. It cannot get loose, as the shoe cannot be passed through the button-holes until it is placed alongside of the post, and this cannot be done by accident. The construction is simple. All parts are stamped into their proper shape by dies, and require no skilled labor.

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

1. The combination, with the button *a* and bifurcated post *b*, of the oval shoe *c*, hinged to the plate *d* on one side of the post, as and for the purpose described.

2. The combination, with the button *a* and post *b*, of the plate *d*, secured to the post, and the spring-plate *g*, secured in the shoe *c*, constructed to hold the shoe on a line with or at right angle to the post, as described.

3. The combination, with the button *a* and the post *b*, provided with the hinge-plate *d*, of the shoe consisting of the convex disk *e*, the plate *f*, spring-plate *g*, and cap *h*, secured together, as described.

W. W. COVELL.

Witnesses:

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