

(No Model.)

W. W. COVELL.  
BUTTON.

No. 299,464.

Patented May 27, 1884.

Fig. 1 .

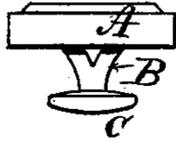


Fig. 2 .

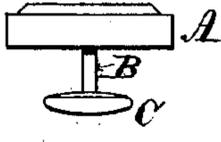


Fig. 3 .

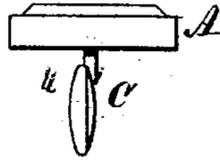


Fig. 4 .

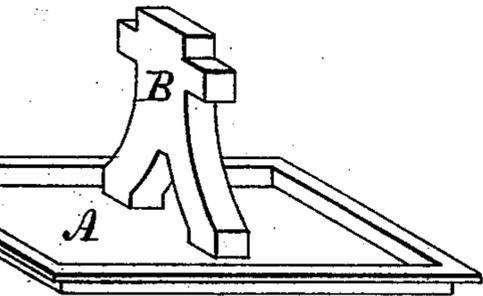


Fig. 5 .

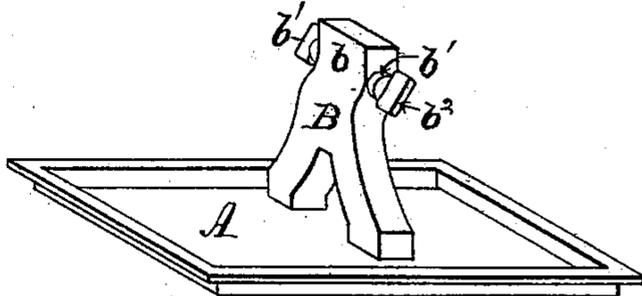


Fig. 6 .

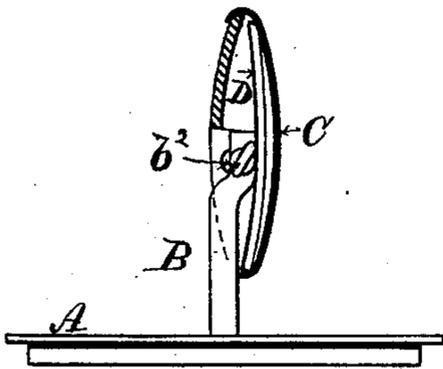


Fig. 7 .

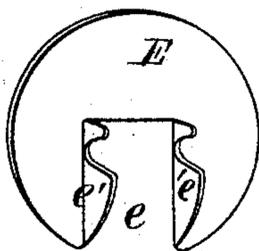


Fig. 8 .

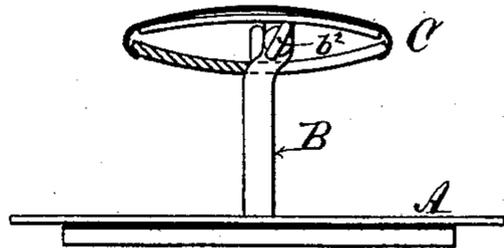
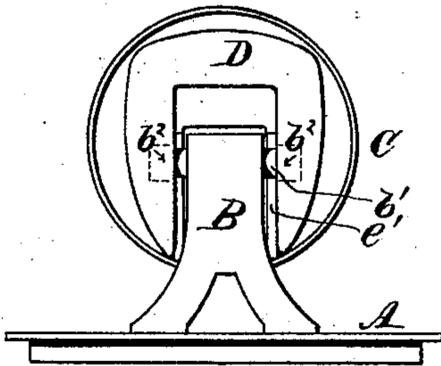


Fig. 9 .



WITNESSES:

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# 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. 299,464, dated May 27, 1884.

Application filed August 25, 1883. (No model.)

*To all whom it may concern:*

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

10 This invention has reference to the class of buttons known as "hinged-shoe cuff-buttons;" and it consists in the peculiar and novel construction of parts by which the insertion of the button is facilitated, as will be more fully  
15 set forth hereinafter.

Figure 1 is an end view of my improved button. Fig. 2 is a side view of the same, showing the shoe locked. Fig. 3 is a side  
20 view showing the shoe open for insertion in the cuff. Fig. 4 is a perspective view of a button provided with the unfinished shank. Fig. 5 is a perspective view of a button provided with the bent and finished shank. Fig. 6 is a sectional view showing the shoe placed  
25 on a line with the shank. Fig. 7 is a perspective view of the inner plate of the shoe provided with the bearings for the post. Fig. 8 is a sectional view showing the shoe placed at right angles to the post. Fig. 9 is an end  
30 view of the button and view of the shoe with the upper disk removed, so as to show the U-shaped spring more clearly.

The object of this invention is to simplify the construction of the button and to facilitate  
35 its insertion into the button-holes without spoiling the finish of the cuff. To these ends I form the hinge-bearings in a peculiar manner on the under disk of the shoe, and so construct the shoe that the post will lie within  
40 the shoe; and I also so bend the post that the hinged connection shall be on one side of the center of the shoe, as hereinafter described and claimed.

In the drawings, A is the button; B, the  
45 shank or post. This post is flattened and bifurcated, so as to fit into the button-hole and prevent the button from turning. The post B is stamped out of thick sheet-stock, as is shown in Fig. 4, after which the upper end, *b*,  
50 is bent to one side, so that the trunnions *b'* *b'* will overhang the post B, and the shoe C will be on a line with the post B. By this con-

struction the shoe and post will enter the button-hole freely without injuring the finish of the starched cuff. The ends of the trunnions *b'* are formed into the flattened cams  
55 *b<sup>2</sup> b<sup>2</sup>*, which bear on the U-shaped spring D, and retain the shoe in the locked and unlocked positions, as is shown in Figs. 6 and 8.

E is the inner plate of the shoe. It is provided with the slot *e*, in which the bent end *b*  
60 of the post B enters, and has a portion of the metal from the part of the disk forming the slot *e* turned up to form the bearings *e' e'* for the trunnions *b' b'* of the post B. This inner  
65 plate, E, is secured to the shoe by burnishing the edge of the shoe-disk over the plate E. The hinged connection of the shoe C with the post is placed on one side of the center of the  
70 post, the same distance that the end of the post is bent to one side, so that when in the position shown in Fig. 8 the shoe is central, projecting equal distances from both sides of  
75 the post; but when placed in the vertical position shown in Fig. 6 the lower end of the shoe is farther from the button than it would be if the shoe were hinged in the center. By  
80 this arrangement the button can be more readily inserted into the cuff, as there is more space for the material, and a shorter post can  
85 be used, thereby holding the cuff more firmly and preventing the inward projection of the shoe, which in writing or other occupations becomes annoying and at times painful.

The construction of the shoe is simple. It  
85 consists only of the outer disk, the spring, and the inner plate. As the spring D is of considerable length and can be made of any desired thickness, the shoe is firmly locked in  
90 each position, and the button is not liable to be lost.

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

The combination, with the button A and the shank B, having the trunnions *b'* and cams *b<sup>2</sup>*,  
95 and also having the bend *b*, of the shoe C, the inner plate, E, having the slot *e* and the bearings *e' e'*; and the U-shaped spring D, all constructed and arranged to operate substantially as described.

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Witnesses:

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