

(No Model.)

J. B. ALLEN.
Button.

No. 231,948.

Patented Sept. 7, 1880.

Fig. 1.

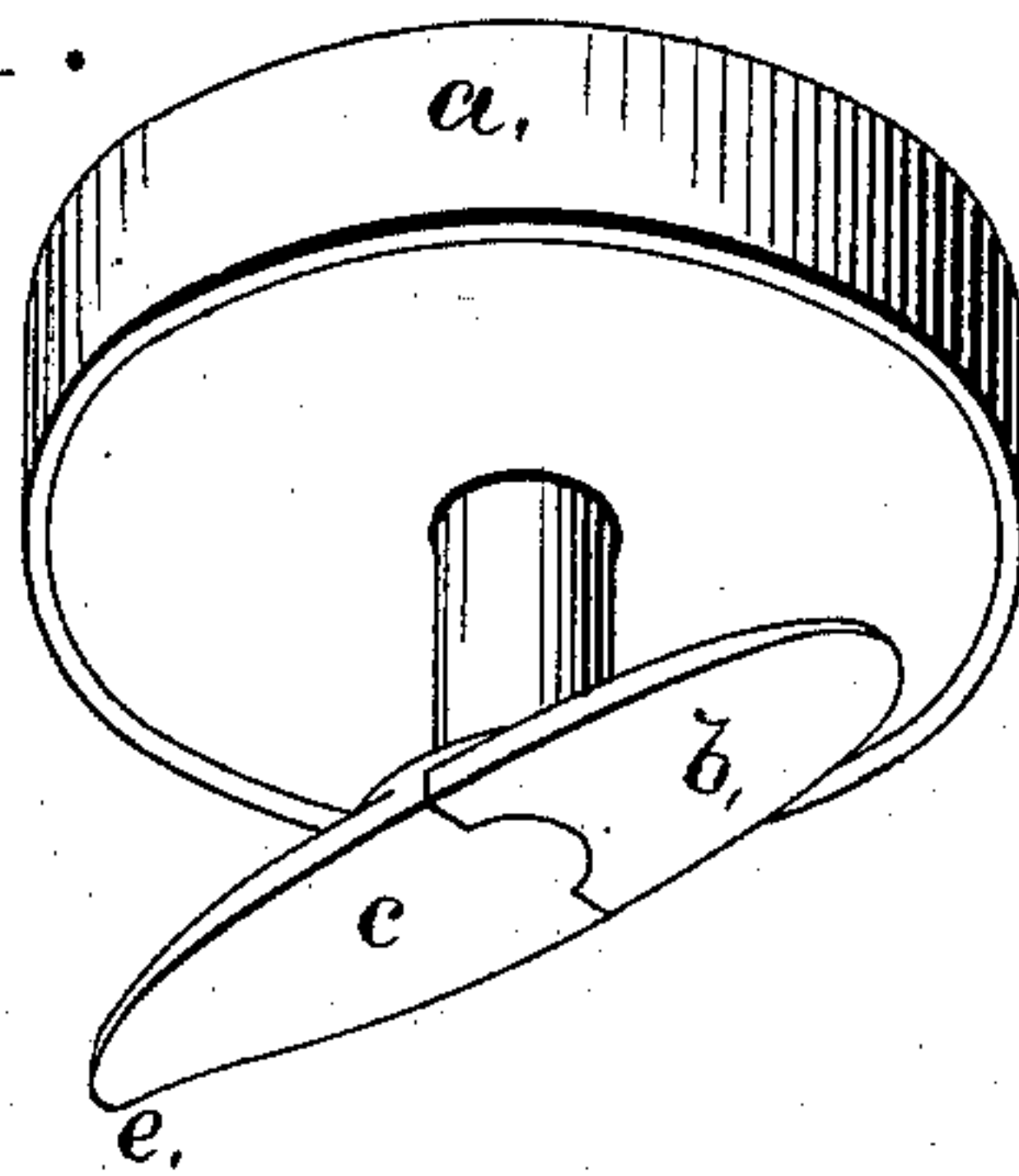


Fig. 2.

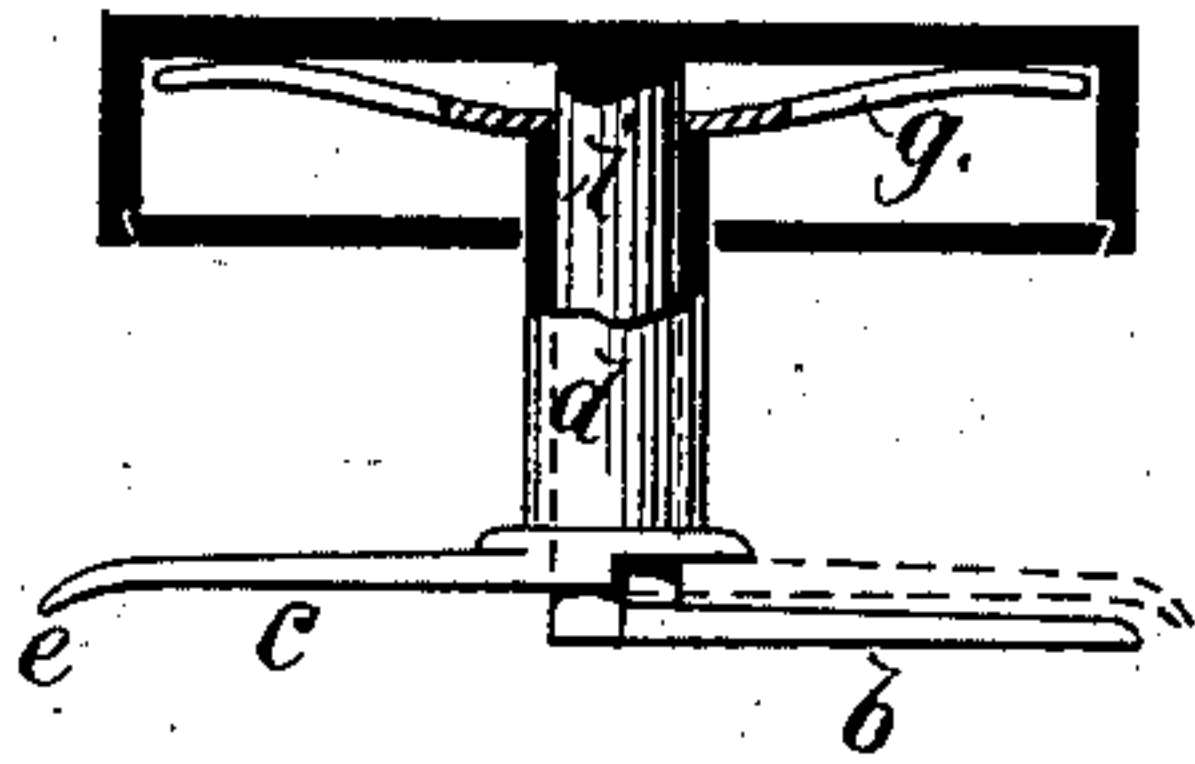


Fig. 3.

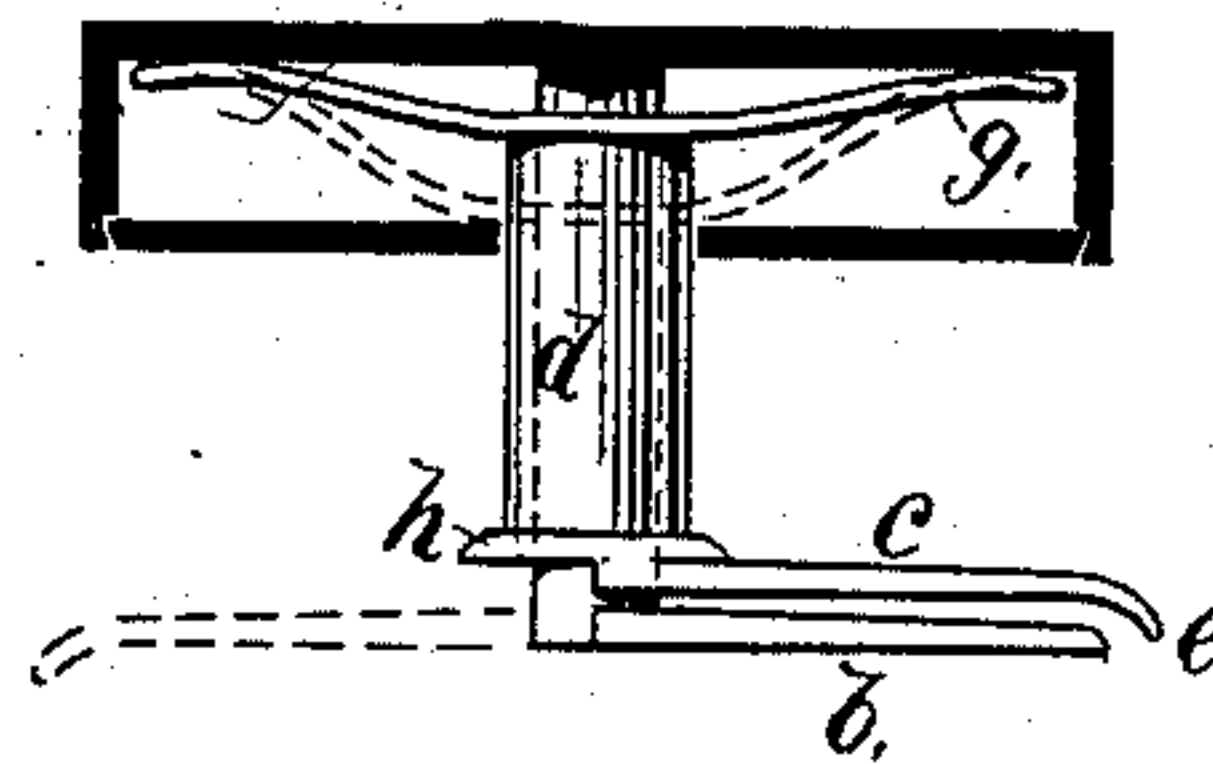


Fig. 4.

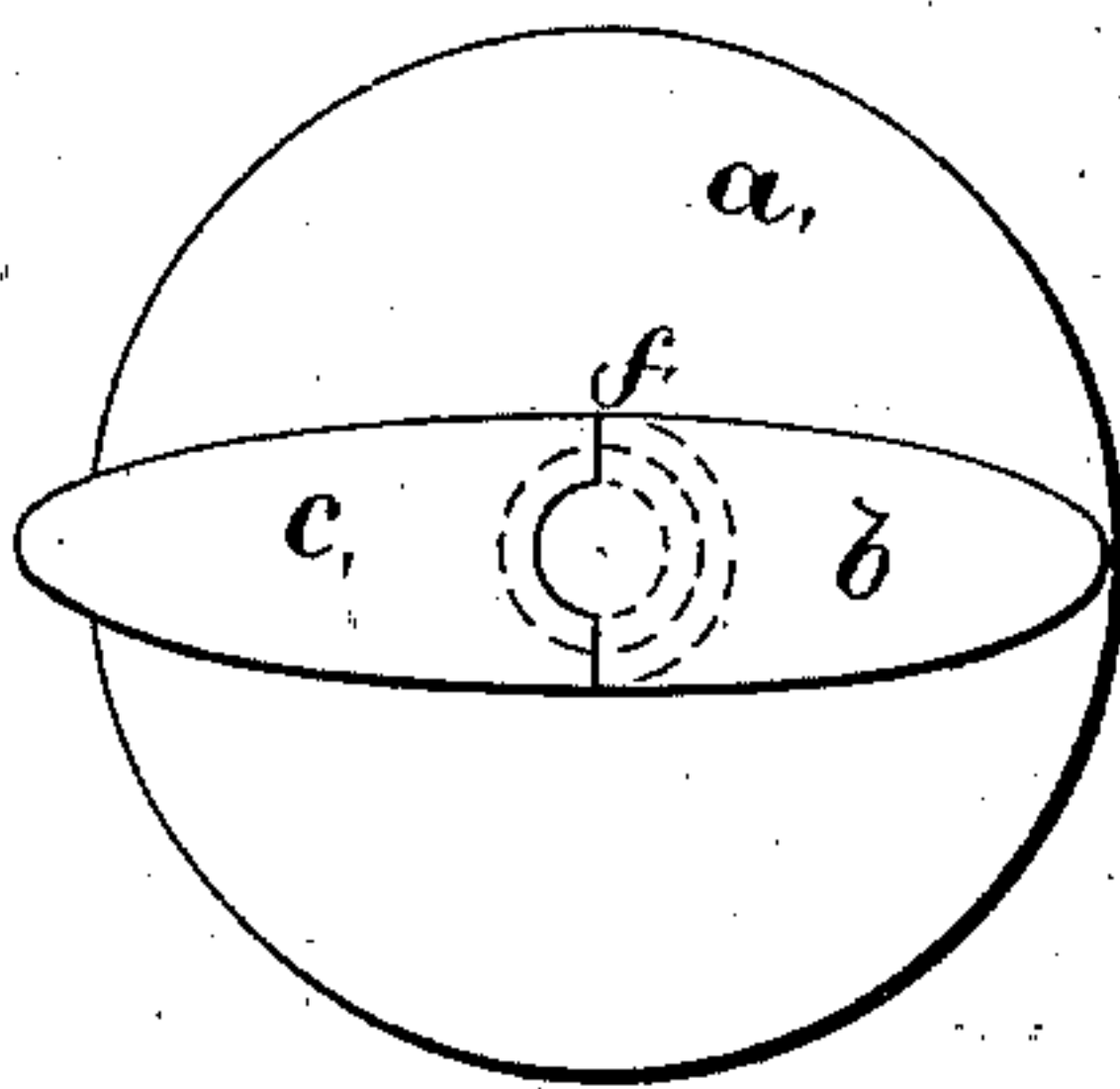


Fig. 5.

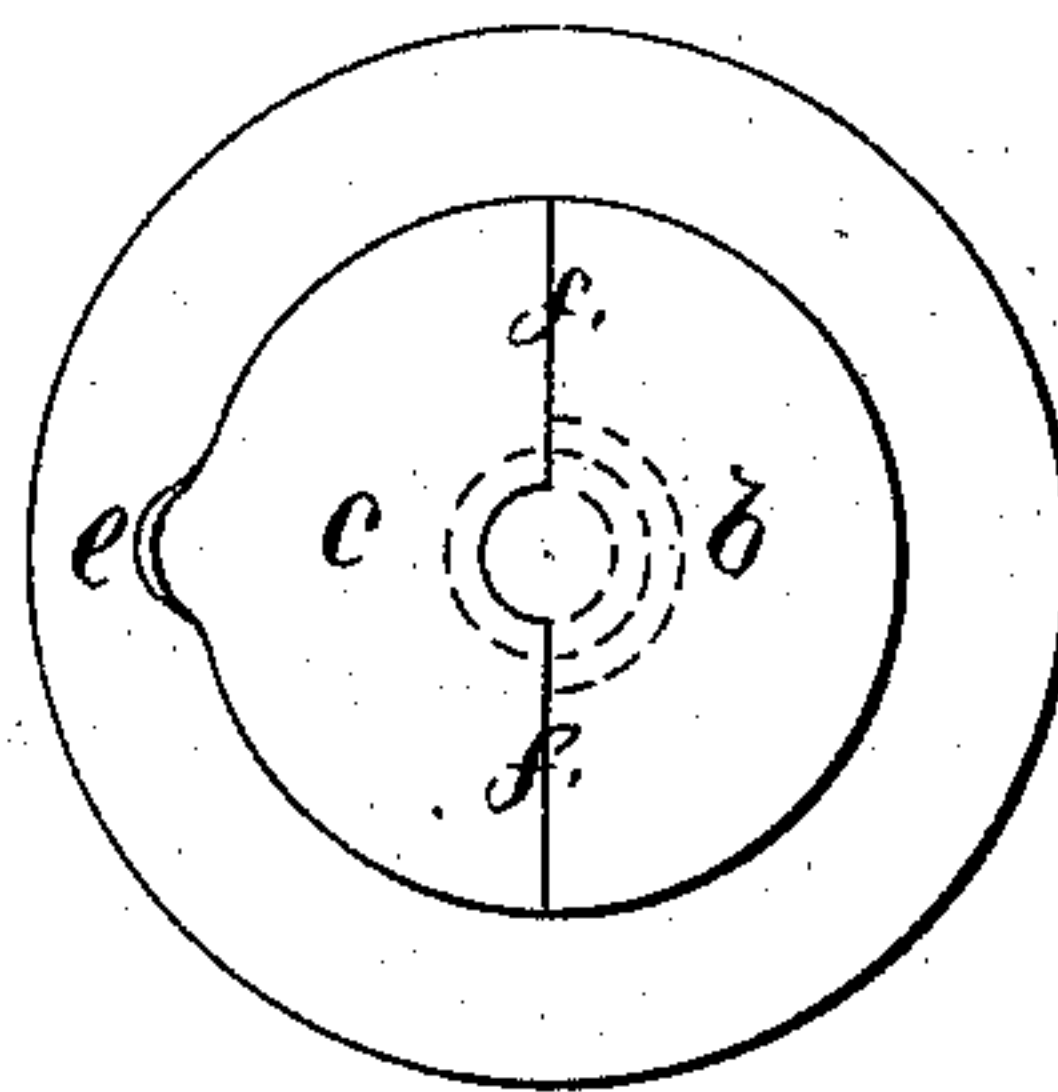
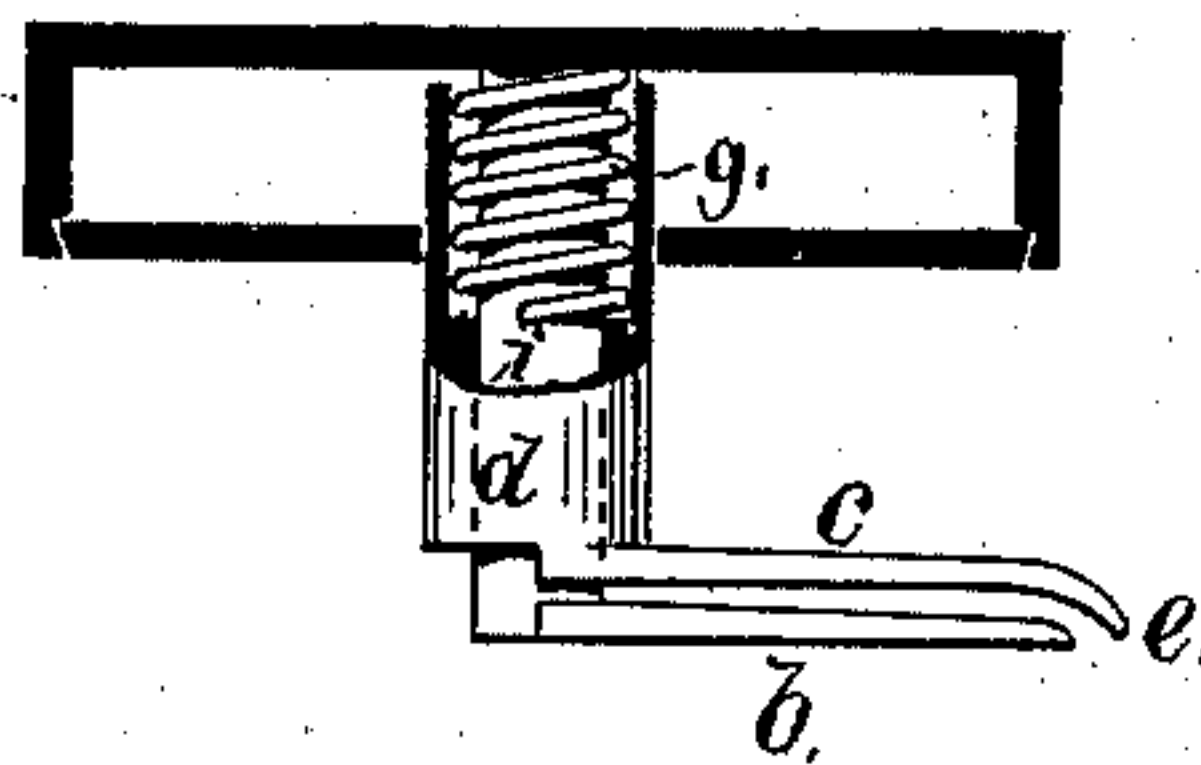


Fig. 6.



WITNESSES:

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INVENTOR:

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Atty

UNITED STATES PATENT OFFICE.

JAMES B. ALLEN, OF CRANSTON, RHODE ISLAND.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 231,948, dated September 7, 1880.

Application filed May 12, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. ALLEN, of Cranston, in the 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.

10 This invention has reference to an improvement in cuff or collar buttons; and it consists in the peculiar and novel construction of the shoe, one half of which is secured to the shank and the other half to a tubular sleeve pressed
15 by a spring, so that it may be turned under the fixed part and both enter the button-hole, when it is returned to its first position and locked, as will be more fully set forth hereinafter.

20 Figure 1 is a perspective view of my improved button. Fig. 2 is a sectional view of the same, the revolving part of the shoe being shown as entering the locked position. Fig. 3 is a sectional view of the button, one-
25 half of the shoe being shown turned under the fixed half. Fig. 4 is a view of the button, showing an oblong shoe. Fig. 5 is a view of the button, showing a circular shoe; and Fig. 6 is a sectional view, showing the sleeve pressed
30 by means of a spiral spring.

In the drawings, *a* is the button. *b* is the fixed half of the shoe, and *c* is the revolving part of the shoe, secured to the sleeve *d*.

35 *e* is a lip or slightly-bent portion of the shoe, by which the part *c* can be readily turned.

f f are the shoulders formed on each half of the shoe, by which, when the revolving part *c* is pushed in place by the spring *g*, the said part of the shoe is firmly held. When the
40 shoe portions are extended and in place, as in Figs. 1, 4, and 5, the outer surfaces of the two portions are in a single horizontal plane, thus presenting a smooth neat finish.

45 *h* is a flange on the sleeve *d*, which rests on the fixed half of the shoe when the revolving part is in place.

The object of the invention is to construct a button all the parts of which are secured together to prevent loss of any part, so that the
50 shoe can be as readily entered into the button-

hole as when the shoe is separated from the button, and the two are secured together by means of catches and springs, as is the case in separable buttons.

The construction of the button is as follows: The post *i* is secured to the disk of the button, the spring *g* is inserted surrounding the post, and if a spiral spring is used the same is placed over the post *i*, the sleeve *d*, with the revolving part of the shoe, is placed
55 over the spring, and the fixed part of the shoe is secured to the post *i*.

It may also be constructed by securing the post *i* and the half of the shoe *b* together, placing the post *i* within the sleeve *d*, inserting the spring, and securing the post *i* to the front disk.

The operation of the button in use is as follows: When in the position as shown in Fig. 1, the portion *c* of the shoe is pressed down
60 below the fixed portion *b*, when the portion *c* can be turned under the fixed portion, and the whole can be readily passed through a flat button-hole of the cuff, collar, or bands, and as soon as the same is entered the part *c* is
65 turned around, as shown in Figs. 3 and 6, the projection *e*, extending beyond the fixed portion of the shoe, facilitating the turning; and when the shoe is again in the position shown in Figs. 1, 4, and 5 the portion *c* is pushed
70 out by the spring *g*, and the shoulders *f f* firmly hold it and prevent it from turning.

While this button can be readily entered into the button-holes, it cannot get loose or be lost, as is the case with separable buttons,
75 the holding devices of which soon wear, and a slight strain will separate the shoe from the button.

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

1. In a button, the two-part shoe having one part fixed and the other movable rotarily and in the direction of the length of its hub, and combined with a spring and shoulders on
80 each half of the shoe, whereby when the shoe portions are extended to complete the shoe the said portions are locked together and lie in a single horizontal plane, substantially as specified.

2. The combination, with the button *a*, the post *i*, and the fixed portion of the shoe *b*, of the spring-pressed sleeve *d* and the portion *c* of the shoe, provided with the projection *e*, as
5 and for the purpose described.
3. The combination, with the button *a* and shoe *b*, of the spring-pressed sleeve *d*, pro-

vided with the flange *h* and shoe *c*, constructed to hold the shoe firmly locked, as described.

JAMES B. ALLEN.

Witnesses:

J. N. ALLEN,

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