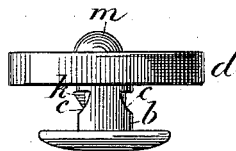


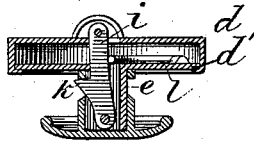
F. W. RICHARDS.  
Buttons.

No. 216,701.

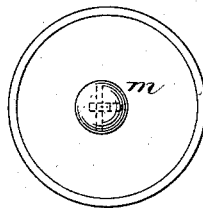
Patented June 17, 1879.



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

*Attest:*

*Clarence Poole*  
*Warren Seely*

*Inventor:*

*Frederick W. Richards*

*by Eli Spear*  
*Atty.*

# UNITED STATES PATENT OFFICE.

FREDERICK W. RICHARDS, OF ATTLEBOROUGH, MASSACHUSETTS.

## IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. **216,701**, dated June 17, 1879; application filed April 29, 1879.

*To all whom it may concern:*

Be it known that I, FREDERICK W. RICHARDS, of Attleborough, Bristol county, Massachusetts, have invented an Improvement in Buttons, of which the following is a specification.

My invention relates to shirt-studs and sleeve and collar buttons of that class in which the upper disk is separable from the lower, in order that the shank or post may be introduced through a small hole and the parts afterward securely connected, and has for its object the production of a more secure and convenient connection without detracting from the appearance of the button.

It consists of a hollow post fixed upon one disk or side of the button, and adapted to receive a corresponding post upon the other, the latter being provided with a catch pivoted within the said post, operated by a spring within the outer disk of the button, and locking into a notch in the said hollow post.

It also consists in extending the latch through the said outer disk, and in combination therewith of a small boss, forming the central ornament of the button, and serving at the same time to cover the opening through which the end of the catch projects, and as means for moving the latch, all as hereinafter more fully set forth.

In the drawings hereunto attached and forming part of this specification, Figure 1 is a side elevation of a sleeve-button made in accordance with my invention. Fig. 2 is a section through the center of the post and through the upper and lower disks, and Fig. 3 is a top view of the upper disk with the outer shell removed.

In the drawings I have represented a hollow post, *b*, attached to one side or disk of a sleeve-button. This hollow post is slightly flattened, and in the edges are formed the notches *c c*, cut through in the manner shown and adapted to the catch, as hereinafter described. Upon the other part of the sleeve-button is fixed another post, *e*, of about the same length as the first. It is made to fit exactly into the hollow post first described, and is formed with a recess to receive a latch,

*i*, and slotted on one side to allow the offset *k* of the latch to project through into connection with the notch in the hollow post.

The lower end of the latch is pivoted in the lower end of the post, and is fitted thereto so that it may be moved sufficiently far back to bring the offset *k* upon the latch flush with the edge of the post *e*, when one is inserted into the other.

The offset *k* upon the latch exactly fits into the notch in the lower post when the upper post is inserted therein, and holds the one securely connected to the other.

The upper end of the latch *i* is represented as passing through a slot in the disk *d'*, which forms the under side of one part of the button, and it is pressed to one end of the slot in the disk *d'* by a spring, *l*, so that the latch is held interlocked with the notch in the hollow post. The disk *d'* is placed upon the disk *d*, which forms the outer or upper side of the button, being fitted within the flange of the last-named disk, so that it leaves a space within for the free action of the spring. The upper end of the latch is also represented as extending through a slot in the disk *d* to the outside of the said disk; and upon the end of it, resting upon the outside of the button, is a boss, *m*, which forms the central ornament of the button, and at the same time serves to cover the slot through which the upper end of the latch moves, and furnishes also a convenient knob, by means of which the latch may be moved whenever it is desirable to separate the parts.

If it be desired to place a stone on the outside of the button, the upper end of the latch may be bent to bring the boss at the side or underneath without departing from the spirit of my invention.

The construction affords a very secure connection of the parts, which are not liable to be separated by any accident; but it may be quickly and easily separated whenever the wearer desires.

This construction is manifestly equally well adapted to sleeve-buttons, to buttons for collars, to shirt-studs, and any other uses where such security is desired.

Obviously, it is adapted to be used with solid or plated gold, or with any metal used for this class of goods.

I am aware that it is not new to unite the upper and lower parts of a button by means of a hollow shank on one part inserted in a hollow post on the other, the shank containing the catch and spring for retaining it within the post. Such a construction I do not, broadly, claim.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In combination with a hollow notched post upon one part of the button and a hollow post upon the other part adapted to fit within the first, a latch, *l*, pivoted in the end of the

smaller post, and spring *l*, located within the larger disk of the button and arranged to press against the upper end of the latch, as and for the purpose set forth.

2. In combination with the two posts adapted to fit one within the other, and with the latch *l* and spring *l*, constructed and arranged as described, the boss *m*, fixed upon the end of the latch and over the slot in the plate, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK W. RICHARDS.

Witnesses:

THOMAS F. SOUTHWICK,  
G. K. WEBSTER.