

J. A. RUPERT.  
Buttons and Studs.

No. 206,487.

Patented July 30, 1878.

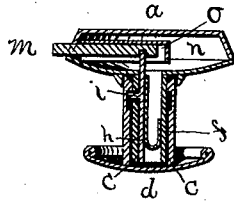


FIG. 1.

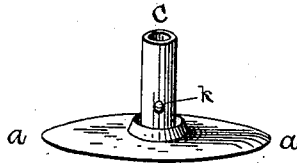


FIG. 2.



FIG. 3.



FIG. 4.



FIG. 5.

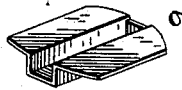


FIG. 6.

WITNESSES,

*Frank E. Boney*  
*Thos. P. Parvafeld*

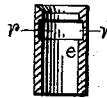


FIG. 7.

INVENTOR,

*John A. Rupert*

# UNITED STATES PATENT OFFICE.

JOHN A. RUPERT, OF PAWTUCKET, RHODE ISLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO W. A. BEATTY & CO., OF SAME PLACE.

## IMPROVEMENT IN BUTTONS AND STUDS.

Specification forming part of Letters Patent No. 206,487, dated July 30, 1878; application filed June 3, 1878.

*To all whom it may concern:*

Be it known that I, JOHN A. RUPERT, of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain Improvements in Automatic Fastenings for Jewelry Manufacture, of which the following is a specification:

My said invention relates to a device by means of which a sleeve-button, collar-button, or other similar article may be easily connected with, and as easily disconnected from, its shank and base; and consists in the combination of the several parts hereinafter described.

The accompanying drawing is hereby made part of this specification, similar letters of reference thereon indicating correspondent parts.

Figure 1 of said drawing is a perpendicular sectional view of a button connected with its shank by means of my said device, the several elements of which device are also seen in said figure. Fig. 2 is an under view of the button, showing the post which is inserted in the hollow shank, a sectional view of which shank is shown in Fig. 7. Fig. 3 shows the bolt and its lateral protruding pin. Fig. 4 is the spring, and Fig. 5 shows a notched slide by which said bolt is operated. Fig. 6 is a cap used to cover the upper end of the post, for the purpose of protecting the operating parts, and is a guide for said notched slide.

The button proper, *a*, has the hollow post *c* firmly attached, and the base or shoe *d* also has the hollow shank *e* firmly attached to it.

Within the post *c* are placed the spring *f* and bolt *h*, the latter being so adjusted that its protruding pin *i* shall pass through the hole *k*. (Seen in Fig. 2.) The slide *m* is then laid across the upper part of said post in such manner that the notch *n* shall interlock with the upward-projecting end of the bolt *h*. The cap *o* is placed over the top end of said post, and so formed as to fit over, and act as a guide for, the slide *m*, and protects the internal mechanism from being clogged with the solder which unites the upper and under surfaces of the button.

The hollow shank *e* is provided with an in-

terior groove or chamber, *r*, in which the pin *i* is forced and kept by the spring *f* when the button and shank are connected.

The operation of the device will be apparent from an inspection of Fig. 1.

When the parts are connected, as shown in Fig. 1, the spring *f* presses the bolt *h* firmly against the interior of the post *c*, the pin *i* protrudes through said post into the chamber or groove *r*, and the button and shank are securely fastened by the interlocking of these parts. To disconnect them, press against the slide *m*, and thus push the pin *i* out of the groove *r*. The button and post are then easily lifted out of the shank. To connect them, insert the post in the hollow shank, squeezing them together, and there will then be an automatic interlocking of these parts.

As shown in the drawing, the shank and post are round, and, when so made, the button will turn in the shank. To prevent this, when desired, I purpose to make the post and shank in the form of an ellipse; and for the sake of giving uniformity to the appearance of the button, I purpose to make a solid attachment to its edge, opposite to, and of the same form and size as, the projecting end of the slide seen in Fig. 1.

I have described my device as above with particular reference to its adaptation to a sleeve-button; but it is as well adapted to, and I propose to use it in, the manufacture of clasps, snaps, studs, collar-buttons, and other similar articles of jewelry-manufacture.

I claim as my invention and desire to secure by Letters Patent—

In a two-part button, the combination of the cap *o*, the notched slide *m*, the bolt *h*, having the laterally-protruding pin *i*, and the spring *f*, with the perforated hollow post *c* and chambered hollow shank *e*, substantially in the manner and for the purposes shown and described.

JOHN A. RUPERT.

Witnesses:

FRANK E. COMEY,  
THOS. P. BARNEFIELD.