

*J. M. Johnson,
Button.*

No. 53986.

Patented, April 17, 1866.

Fig. 1.

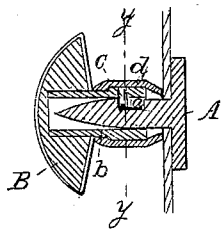


Fig. 2.

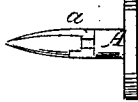


Fig. 3.

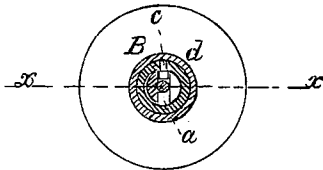


Fig. 5.

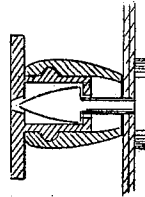
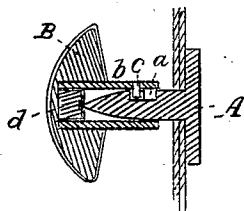


Fig. 4.



Witnesses:

*J. W. Blount
Wm. Erwin*

Inventor:

*John M. Johnson
Per [Signature] Atty*

UNITED STATES PATENT OFFICE.

JOHN M. JOHNSON, OF MAMARONECK, NEW YORK.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. 53,986, dated April 17, 1866.

To all whom it may concern:

Be it known that I, JOHN M. JOHNSON, of Mamaroneck, in the county of Westchester and State of New York, have invented a new and useful Improvement in Button-Fastenings; and I do hereby declare that the following is a full, clear, and exact description thereof, which will others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal central section of this invention, the line *x x*, Fig. 3, indicating the plane of section. Fig. 2 is a detached elevation of the pointed stud which I use to pierce the cloth and fasten the button. Fig. 3 is a horizontal section of the same, taken in the plane indicated by the line *y y*, Fig. 1. Fig. 4 is a longitudinal central section of a modification of the same.

Similar letters of reference indicate like parts.

This invention consists in the arrangement of a pointed stud, with a suitable U-shaped or curved groove, in combination with a pin or key projecting from the inner surface of the hollow shank of a button, and with a suitable spring secured to the exterior or interior of said shank in such a manner that, by means of the pointed stud, the material to which the button is to be attached can be readily pierced, and by introducing said stud into the shank and slightly turning it the pin or key is made to catch in the recess of the groove in the stud and the button is securely held, and by a slight compression of the spring the stud can be released and the button detached whenever it may be desirable.

A represents a pointed stud, made of metal or any other suitable material, and provided with a groove, *a*, the inner end of which is curved or U-shaped, as clearly shown in Fig. 2 of the drawings. Said stud is pointed, so that by its aid the material to which a button is to be fastened can be readily pierced at the desired spot.

The button B, which is to be fastened by

means of the pointed stud H, is provided with a hollow tubular stem or shank, *b*, from the inner surface of which projects a pin, C, which can be made to catch in the U-shaped groove *a* of the stud A.

A spring, *d*, of india-rubber or other suitable material, which is secured to the shank of the button, has a tendency to keep the stud and the button apart, and if the pin C has entered the inner end of the U-shaped groove *a* it is prevented by said spring from getting out spontaneously.

The spring *d* may either be secured to the exterior of the tubular shank *b*, as shown in Fig. 1, or to the interior thereof, as shown in Fig. 4, and it may be made of india-rubber or of metal, in any suitable form or shape.

In order to unfasten the button the stud must be pressed in against the action of the spring *d* until the pin C leaves the inner end of the groove *a*, when the stud is slightly turned and withdrawn.

By this arrangement a button can be readily fastened to a garment or other article and unfastened therefrom without the aid of any other instrument. The stud makes its own hole, and when properly introduced into the button it is not liable to become detached spontaneously. It can be made cheap, it is durable, and its operation is so simple that it can be readily understood by the simplest mind.

What I claim as new, and desire to secure by Letters Patent, is—

The pointed stud A, with its U-shaped groove, as described, in combination with the pin C projecting from the inner surface of the tubular socket *b* of the button B, and with a spring, *d*, constructed and operating substantially in the manner and for the purpose herein specified.

The above specification of my invention signed by me on this 3d day of January, 1866.

JOHN M. JOHNSON.

Witnesses:

WM. H. GRAHAM,
JOHN WILLIAMS.