P. NERNEY.

Buttons and Studs.

No. 218,638. Patented Aug. 19, 1879.

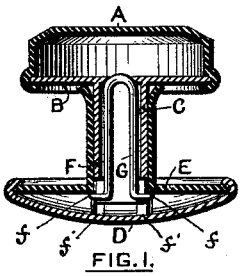

FIG. 1.

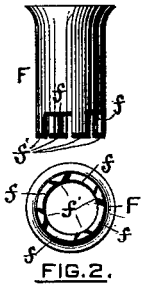

FIG. 2.

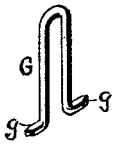

FIG. 3.

WITNESSES.

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IMPROVEMENT IN BUTTONS AND STUDS.

Specification forming part of Letters Patent No. **218,638**, dated August 19, 1879; application filed July 16, 1879.

To all whom it may concern:

Be it known that I, PETER NERNEY, of Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Buttons and Studs; and I do hereby declare that the following specification, taken in connection with the accompanying drawings, forming a part of the same, is a full, clear, and exact description thereof.

The invention hereinafter described relates to that class of buttons and studs which are made in two separable parts, for convenience of application and removal, and to that variety in which the parts are positively locked together when combined, and are separated by rotating and withdrawing one or both of the parts.

My improvement consists in the means employed for securing the parts against separation and for allowing them to be disconnected when properly manipulated.

Referring to the drawings, Figure 1 represents a collar-button embodying my improvement. Fig. 2 shows side and bottom views of the post; and Fig. 3 represents the spring-locking device in perspective.

As shown in Fig. 1, A denotes the top of the button, which is secured to a disk, B, provided with a tubular stem, C. D is the shoe, which is secured to a disk, E, the said disk having a central perforation, through which passes the post F. G is the spring-locking device, which is U-shaped and is located in the stem C. This spring has its head secured to the disk B, and its ends *g* are bent outward, and beveled or rounded, as shown in Fig. 3.

The post F is soldered or otherwise secured to the disk E, and has its lower end notched, so as to form shoulders *f* and projecting portions *f'*.

As shown in Fig. 1, the bent ends *g* of the spring G project beyond the periphery of the stem C, so that, when the parts of the button are combined by inserting the stem C into the the post F and pressing the parts together, the bent ends *g* of the spring will engage the shoulders *f* on the post, and positively lock the parts of the button together.

In order that the ends *g* of the spring G shall engage the shoulders *f* without the necessity of rotating the parts of the button, when said parts are pressed together in such a manner that the ends of the spring move in the axial plane of the post occupied by two of the portions *f'*, the sides of said portions are beveled so as to come to an edge, or nearly so, as shown in Fig. 2, so that the beveled or rounded ends *g* of the spring will pass off said portions and into the spaces between them and engage the shoulders *f*.

It is also desirable that the sides of the portions *f'* should be beveled, in order that the parts of the button may be easily separated. This separation is effected by partially rotating one or both of the parts of the button, which causes the beveled sides of the portions *f'* to force the ends *g* of the spring inward and out of engagement with the shoulders *f*, so that the parts can be separated by a longitudinal movement.

From the foregoing description it will be seen that the parts of the button are positively locked together when combined, and can be easily separated by a rotary and longitudinal movement of one or both of the parts.

Although in the construction of my improved button or stud I prefer to employ the disks B and E, yet they may be dispensed with, and the stem C be soldered directly to the top A, and the portions *f'* of the post F to the shoe G.

I am aware that in place of the U-shaped locking-spring G having both of its ends bent, as shown and described, a spring may be used having only one end bent, and also that two separate oppositely-located springs may be employed, so long as an end, *g*, of such springs is formed, as described, to engage the shoulders *f* and cause the springs to be forced inward when the parts of the button are being separated.

The number of shoulders *f* and projecting portions *f'* on the post F may also be varied from that shown.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

In a separable button or stud, the combination, with the top A, stem C, and a locking spring or springs secured to the button-head and having ends *g*, bent and shaped as described, of a shoe, E, and a post, F, having shoulders *f* and projecting portions *f'*, shaped as described, substantially as herein set forth.

Witnesses: PETER NERNEY.

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