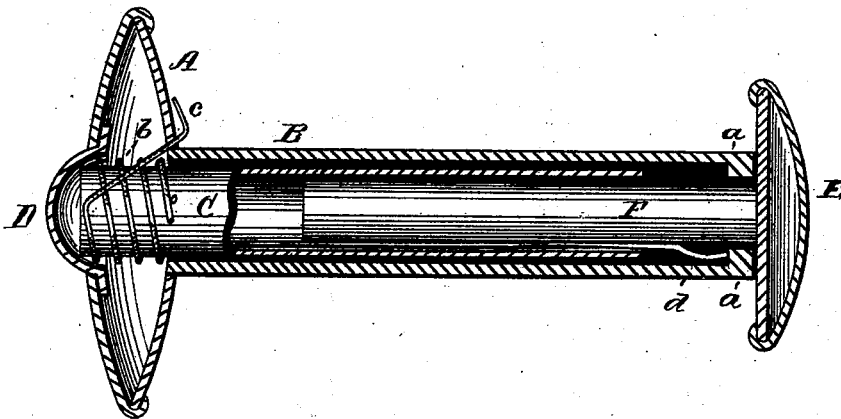


G. B. FITTZ.
Collar and Sleeve Buttons.

No. 210,110.

Patented Nov. 19, 1878.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE B. FITTZ, OF ATTLEBOROUGH, MASSACHUSETTS.

IMPROVEMENT IN COLLAR AND SLEEVE BUTTONS.

Specification forming part of Letters Patent No. **210,110**, dated November 19, 1878; application filed October 31, 1878.

To all whom it may concern:

Be it known that I, GEORGE B. FITTZ, of Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and valuable Improvement in Collar and Sleeve Buttons; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

This invention has relation to that class of shirt buttons or studs in which the two button-plates and their shanks are detachably connected together; and consists in the construction and arrangement of the several parts, as will be hereinafter described, and subsequently pointed out in the claims.

In the accompanying drawing, which represents a sectional view of my invention, A is one of the button-plates, having connected thereto a hollow shank, B, formed at its lower end with shoulder *a*, around the interior thereof. Fitting within the hollow shank B is a hollow tube, C, and around one end of said hollow tube is a coil-spring, *b*, one end passing out through an opening in the under side of the button-plate A, and bent at an angle to form a spring-catch, *c*, the purpose of which is to engage with the side of the button-hole, thereby retaining the button-plate A in the garment or button-hole, thus obviating the necessity of its removal when separating the two parts of the button or stud.

Suitably connected to the outer side of the

button-plate A is a cap, D, the purpose of which is to force the hollow tube outward when it is designed to detach the two parts of the button or stud, the spring *b* retaining the tube C against the under side of the cap D. Connected to the button-plate E is a shank, F, formed with a slot, in which is secured, in any suitable manner, a spring, *d*.

When it is desired to detach the two parts of the button or stud, press upon the cap D until the lower end of the tube C presses against the spring *d*, thus forcing the lower end thereof past the annular shoulder *a*, and allowing the shank B to be disconnected from the shank F.

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

1. The plate A, with shank B, formed with shoulder *a*, sliding tube C, spring *b*, and cap D, in combination with plate E, shank F, and spring *d*, constructed to operate substantially as and for the purpose set forth.

2. In a button or stud, the combination, with the plate or plates thereof, of a spring-catch, *c*, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed by name in the presence of two witnesses.

GEORGE B. FITTZ.

Witnesses:

HORACE E. DURGIN,
FRANK W. PETTIE.