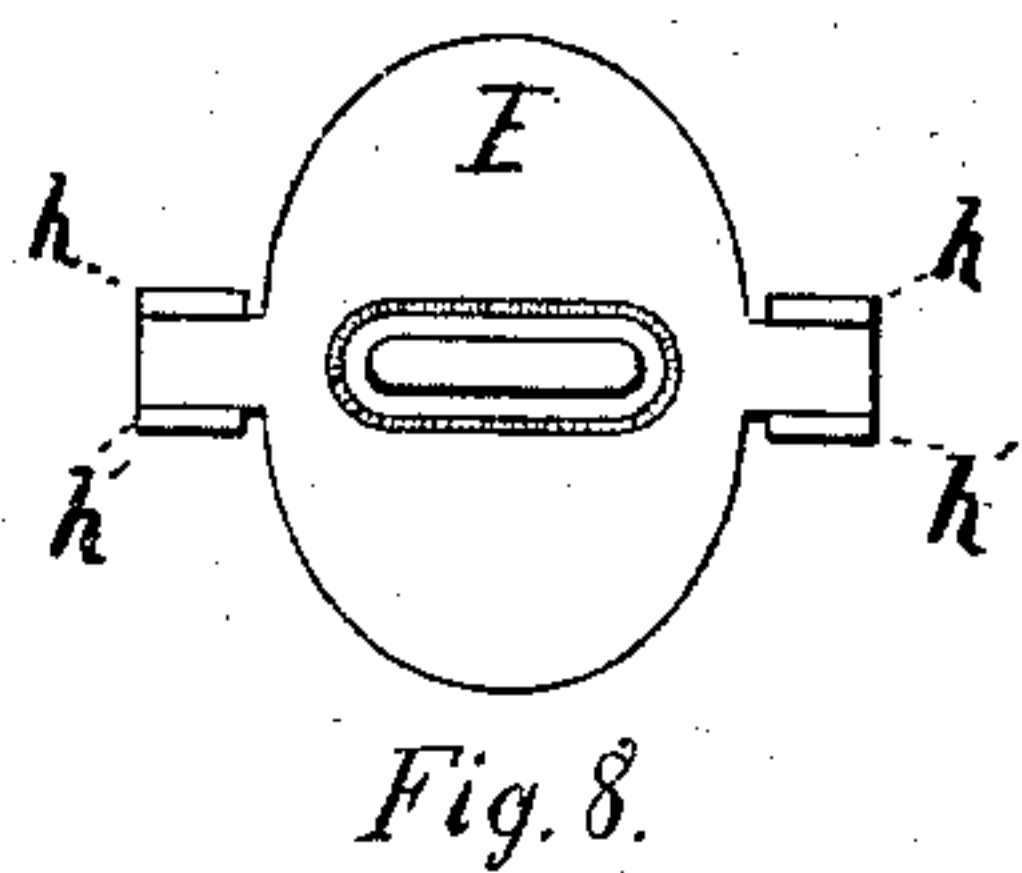
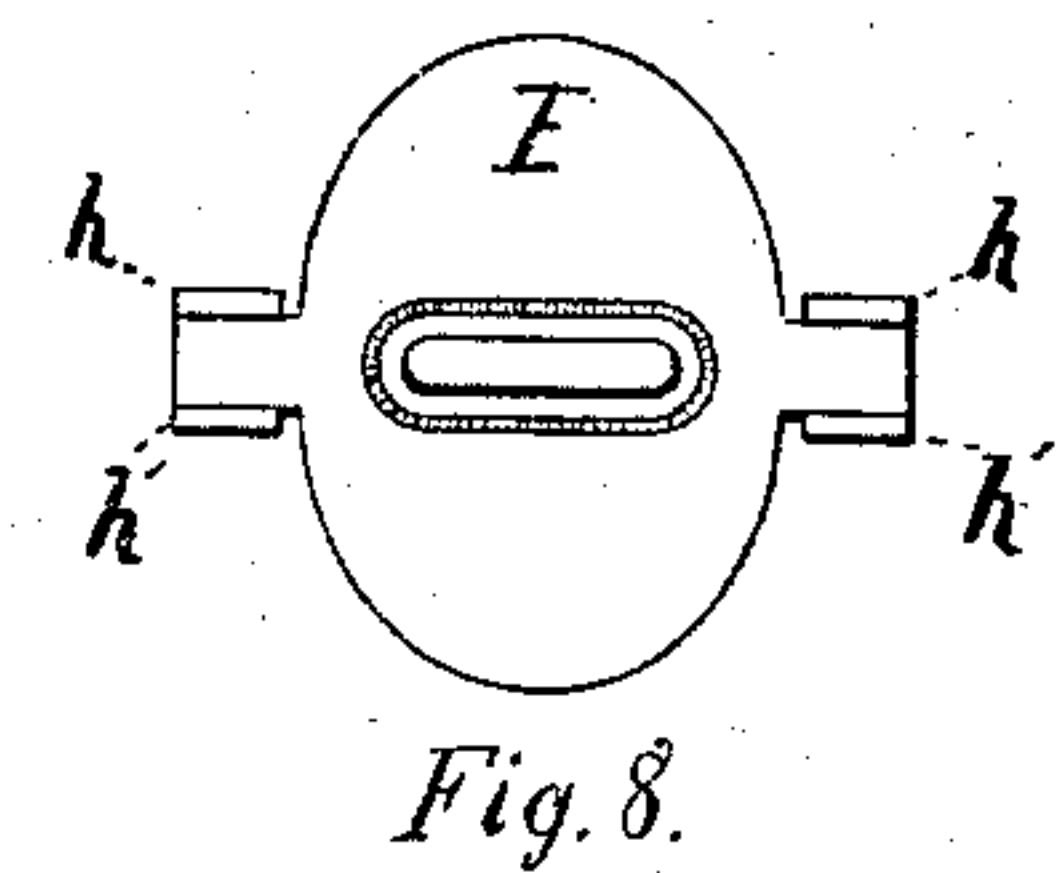
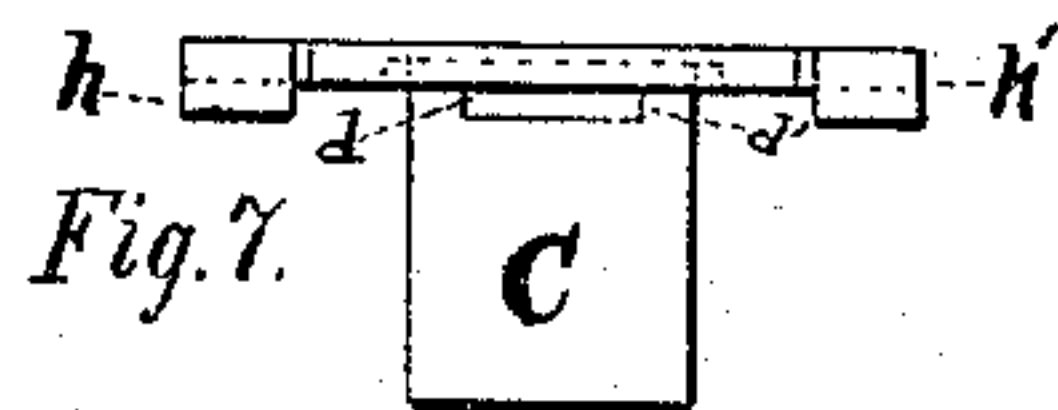
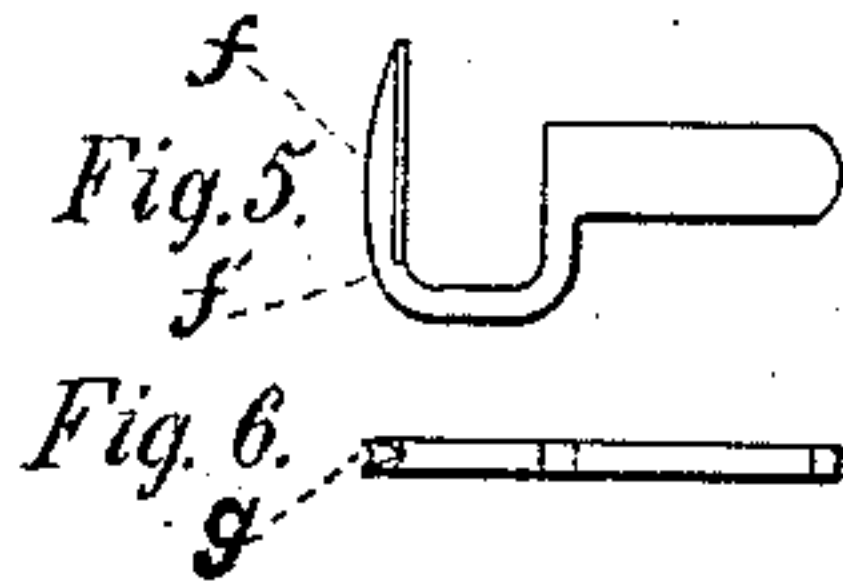
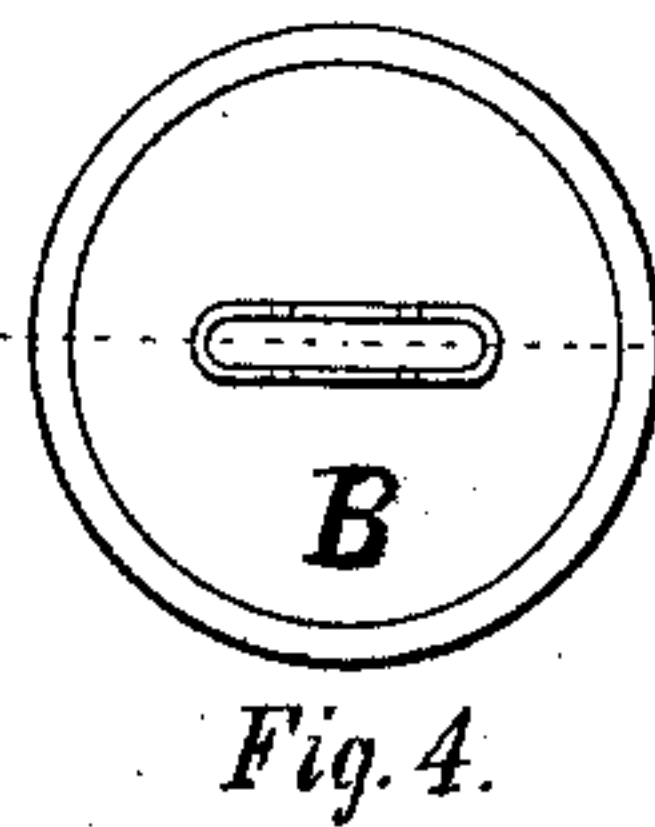
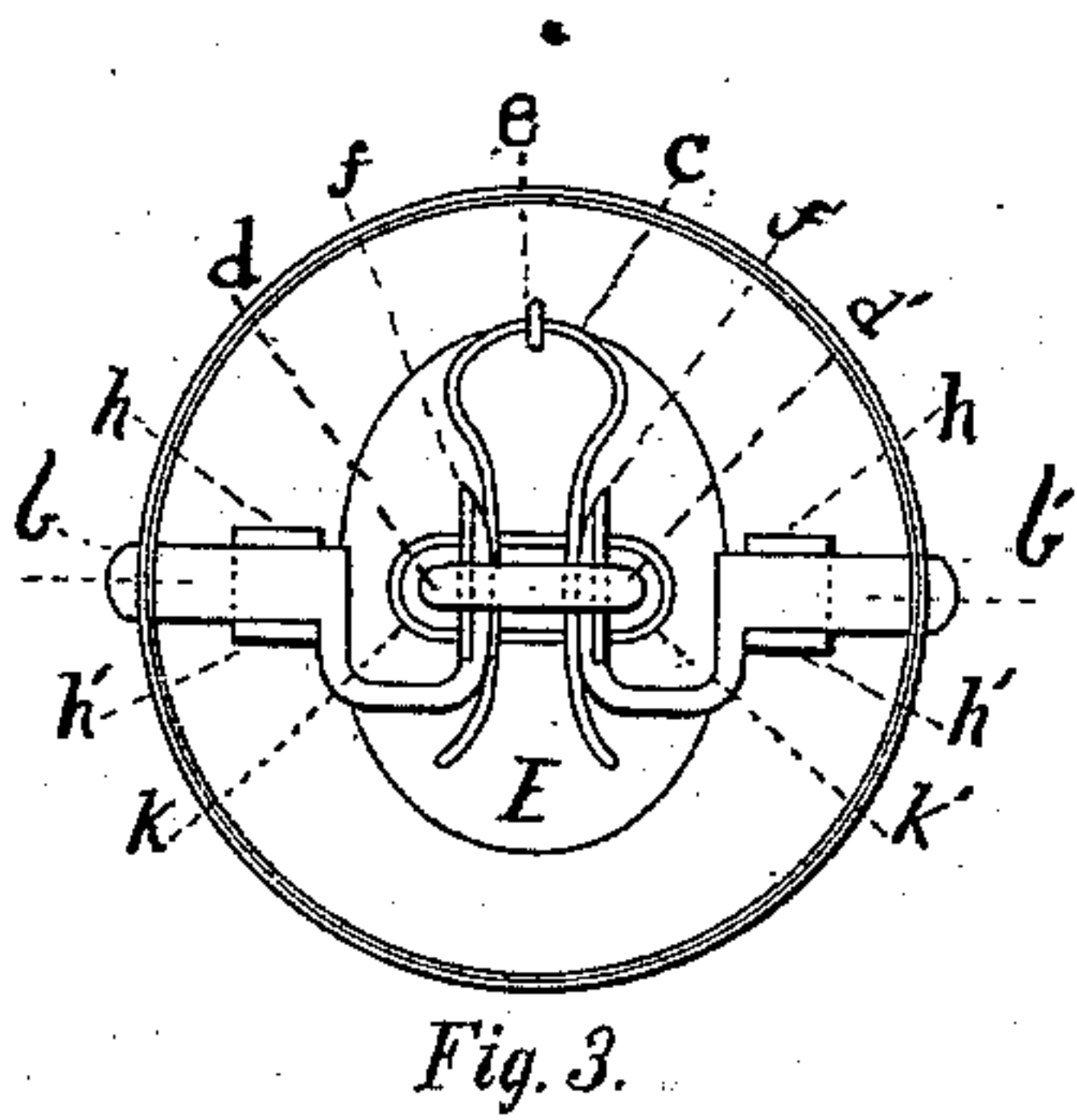
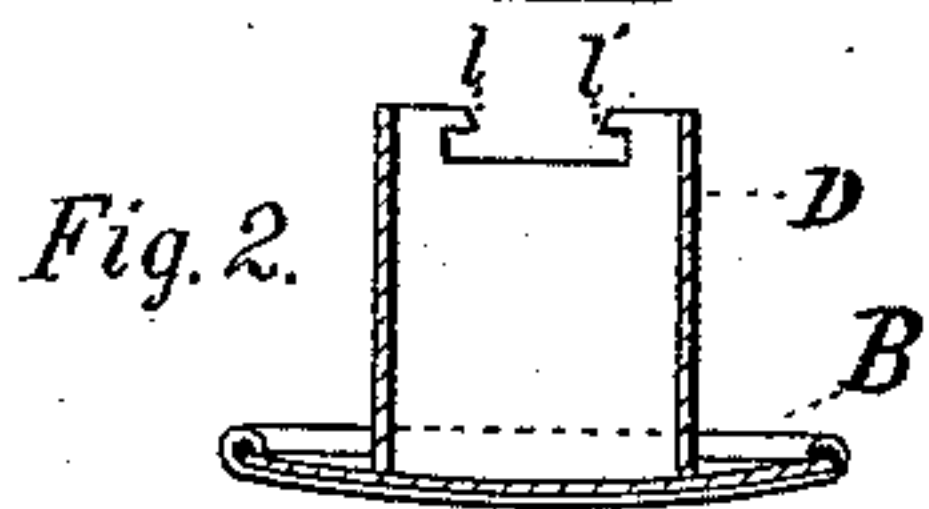
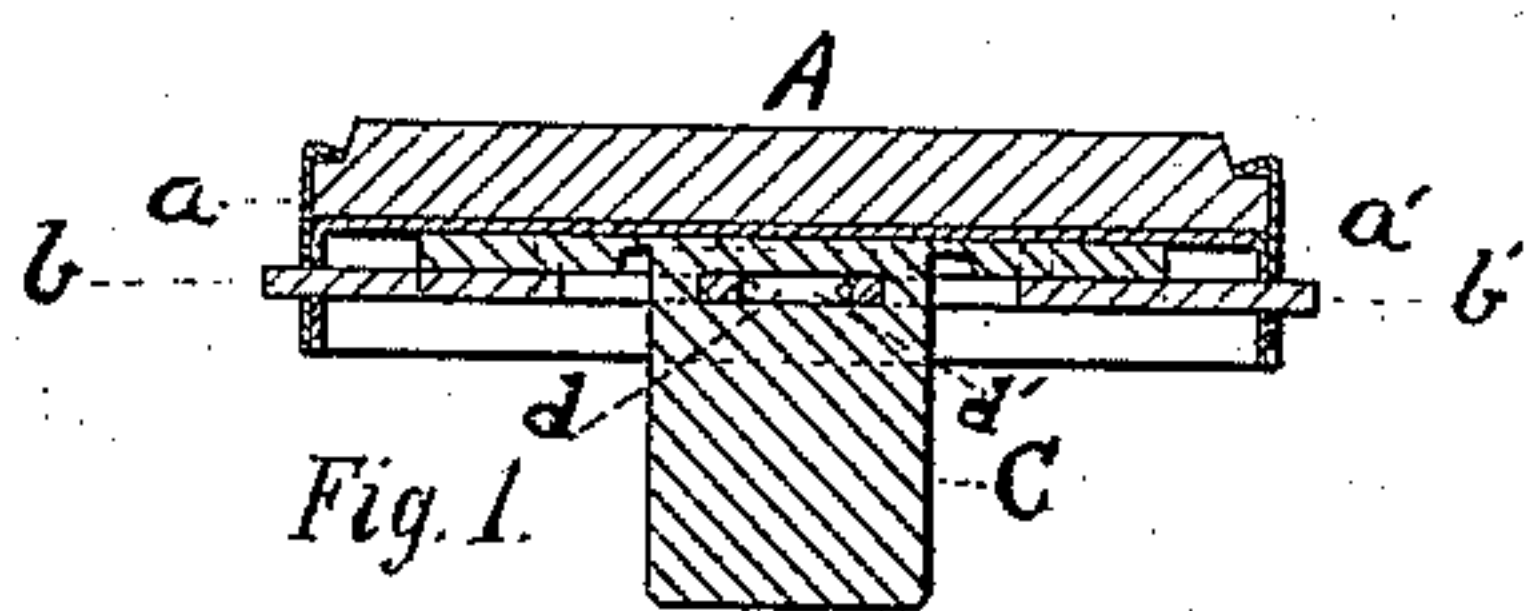


(No Model.)

G. E. ADAMS.
Collar Button.

No. 232,385.

Patented Sept. 21, 1880.



Witnesses.

Walter C. Smith
Ivory Champlin

Inventor.

George E. Adams.

UNITED STATES PATENT OFFICE.

GEORGE E. ADAMS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO
WILLIAM S. GODFREY, OF SAME PLACE.

COLLAR-BUTTON.

SPECIFICATION forming part of Letters Patent No. 232,385, dated September 21, 1880.

Application filed March 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. ADAMS, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Collar-Buttons, Sleeve-Buttons, and Studs; and I declare the following to be a specification thereof, reference being had to the accompanying drawings.

Figure 1 is a vertical section of the button through the pushers. Fig. 2 is a vertical section of the shoe and the attached hollow post. Fig. 3 is an interior view of the front of the button, showing general arrangement and connection of the parts. Fig. 4 is an interior view of the shoe, showing the position of the attached hollow post. Fig. 5 is a plan of pusher. Fig. 6 is a plan of edge of pusher. Fig. 7 is an elevation of the disk or guide plate, giving a lateral view of the solid post. Fig. 8 is a plan of the disk, showing the position of the slot through which protrudes the solid post.

My invention relates to buttons which are so constructed that the front and back are detachable.

The invention consists in providing the under side of a button-front with an oval disk, to the center of which is soldered a slotted solid post, which enters a slotted hollow post, having interior beveled catches secured to the button-back, a bent spring being attached to the edge of the disk at one end and arranged in such a manner that its ends pass through the slot in the end of the solid post and press outwardly against the grooved ends of hooked pushers, which also enter the slot, and are further supported in lugs formed on the sides of the disk, so that when the projecting outer ends of the pushers are pressed inward their inner hooked ends may be made to engage with or be released from the beveled catches in the hollow post, thus securing or detaching the button, as hereinafter more fully described and claimed.

The spring *c*, Fig. 3, is made of German silver or other suitable metal or metals. The center of its bow may be fastened, by clasp *e* or otherwise, to the edge of the oval disk *E* at one end of the same, or it may be left unfastened.

The ends of the spring pass through the slot *d d'*, Figs. 1, 3, and 7, fitting into grooves *g*,

Fig. 6, in the outer edges of the hooks *ff'*, Figs. 3 and 5, exerting a lateral pressure upon the hooks *ff'*, pressing them against the solid post *C*, Figs. 1 and 7, at the ends of the slot *d d'*.

To the inner side of the shoe *B*, Figs. 2 and 4, is attached a hollow flat post, *D*, with rounded edges, Fig. 2, in the top of which post are cut the beveled catches *l l'*. The hollow post is of a size and shape to receive the solid post *C*.

The pushers *b b'*, Fig. 3, are constructed each of one piece of metal. The ends projecting through the sides *a a'*, Fig. 1, are of considerable width, and are rounded and polished, so that their pressure upon the thumb and finger will cause no pain. They maintain a uniform width until they pass through the lugs *h h'*, Figs. 3 and 8, when they form the hooks *ff'*. These hooks are of the same thickness, but of much less width than the other part of the pushers, and rest upon the disk.

The slot *d d'* in the solid post *C* is cut of just the required width to allow the free passage through it of the hooks *ff'*, but allowing of little or no vertical motion of them. The slot is cut through the solid post in the shape of a rectangular parallelogram of greater length than breadth, the lower side of which is cut as nearly as practicable on a plane with the upper or free face of the disk. The hooks are of such size and strength that they cannot be broken or bent by any force exerted to separate the two parts of the button.

The spring *c* is of such a nature that it is easily contracted by exerting a mild pressure upon the outer ends of the pushers *b b'*.

The disk *E*, Figs. 3 and 8, is composed of two pieces of metal. They are cut of the same oval size and shape, except that armed projections are left on the upper piece to serve as lugs. The piece having the projections is slotted and soldered to the other or lower piece. The solid post is attached to the lower piece (after the two pieces have been soldered together) by soldering, so that it projects through the center of the slot. The lower or flat portion of the disk thus constructed is soldered to the center of the under part of the front of the button.

The parts of the button are fastened together

by inclosing the solid post C in the hollow post D and pressing the two parts together until the beveled catches *l l'* pass by and engage with the hooks *f f'* on each side of the solid post.

The parts are disengaged by pressing the outer ends of the pushers *b b'* between the thumb and finger, whereby the hooks are pressed closer together and the catches disengaged therefrom, allowing of the free separation of the parts.

I claim as a novel and useful invention and desire to secure by Letters Patent—

1. In a button or stud composed of two detachable parts, the front A, provided with disk E, having lugs *h h'*, and slotted solid post C, arranged to receive and hold the hooked pushers *b b'*, and spring *c*, in combination with the

shoe B, having slotted hollow post D, provided with interior beveled catches *l l'*, substantially as and for the purpose specified.

2. In a button or stud composed of two detachable parts, the combination of a hollow post having an open end slot with interior beveled catches, of a solid post adapted to enter the hollow post, of a wire spring, and of pushers the inner ends of which terminate in beveled hooks, grooved in the outer edges to receive the spring, and adapted to co-operate with the slot, spring, and catches, whereby the parts may be held together or detached, all substantially as set forth.

GEORGE E. ADAMS.

Witnesses:

WALTER C. SMITH,
IRVING CHAMPLIN.