

(Model.)

W. W. BLOOMER.  
Separable Stud and Button.  
No. 239,590. Patented March 29, 1881.

Fig. 1.

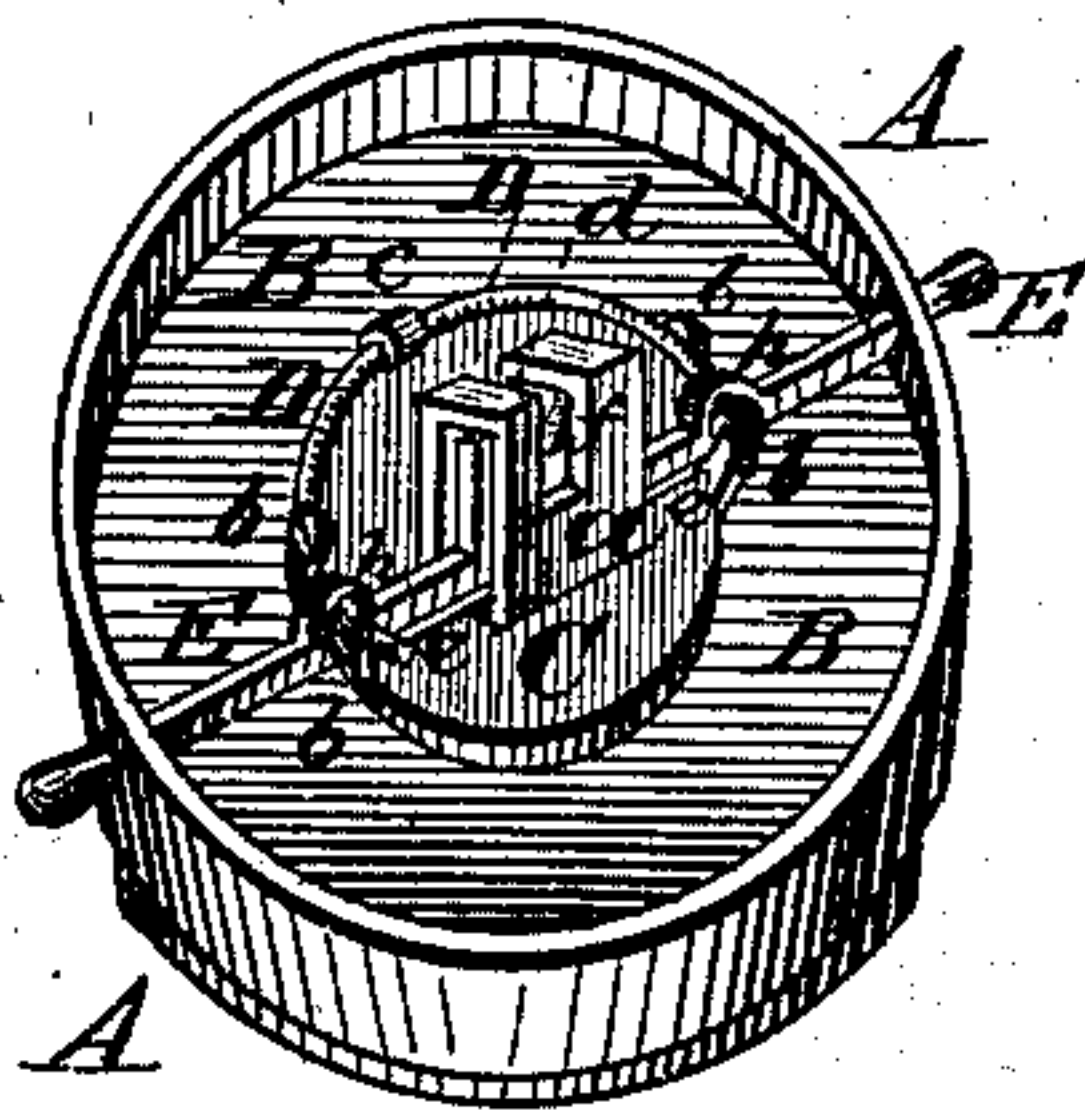


Fig. 2.

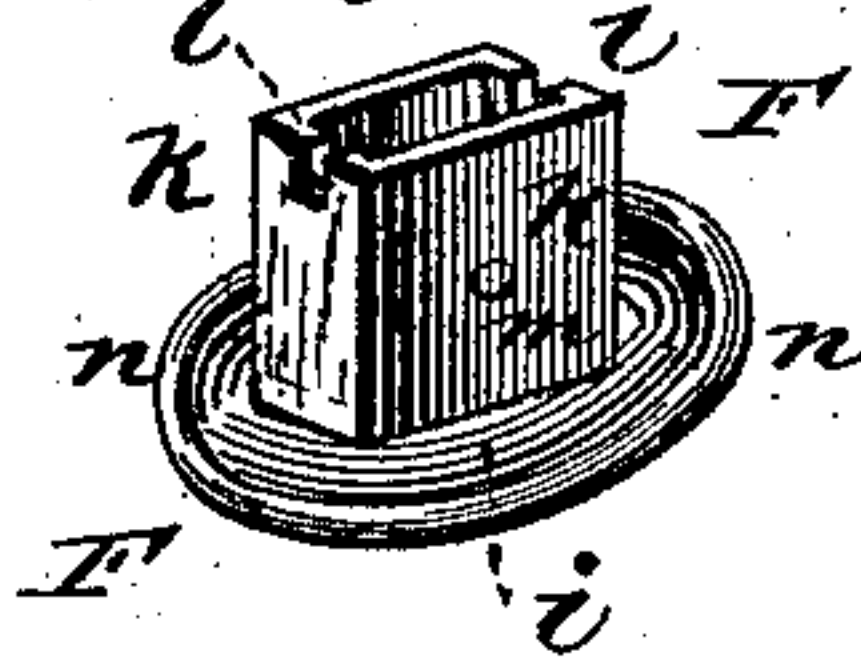


Fig. 3.

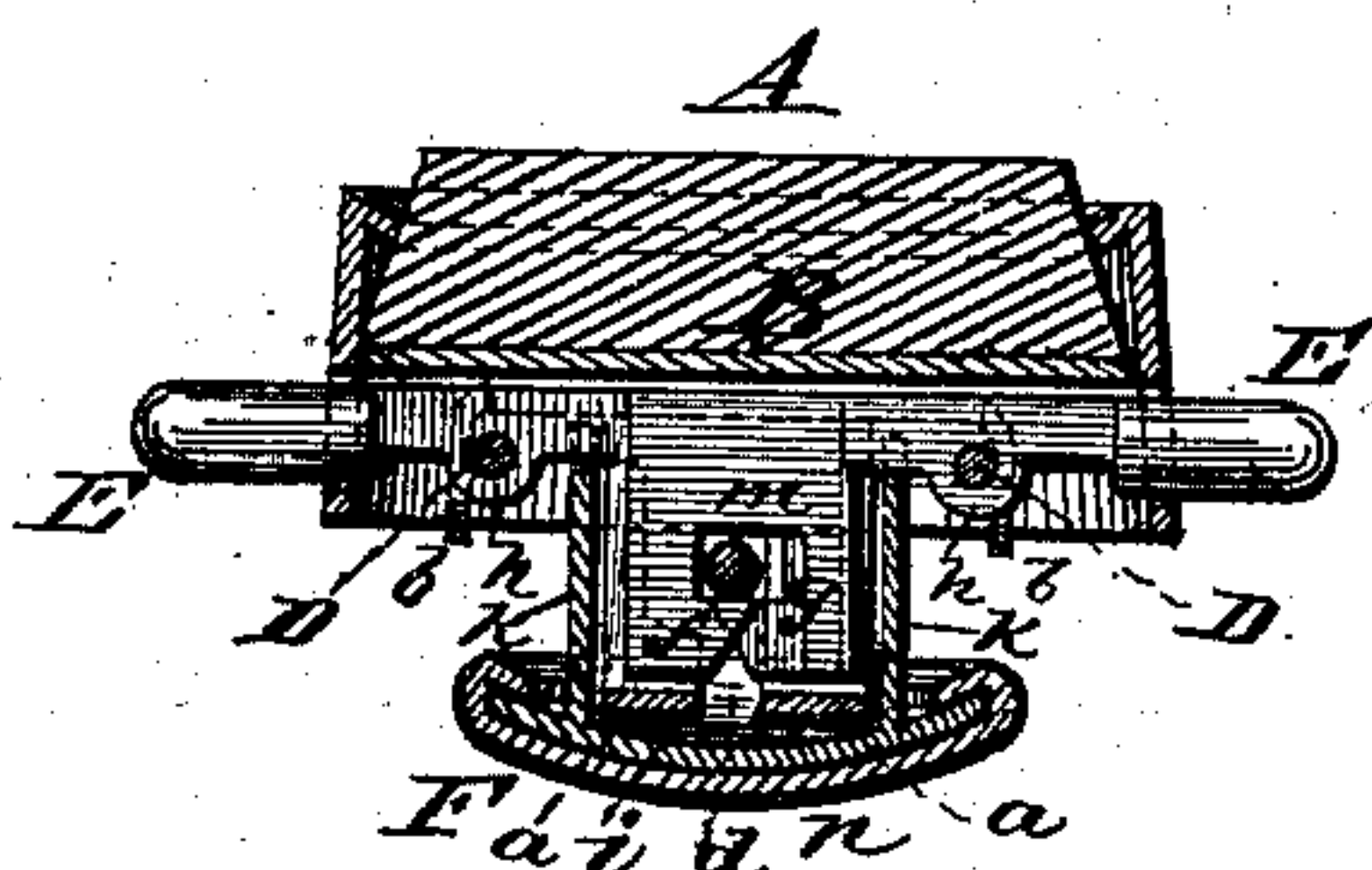


Fig. 4.

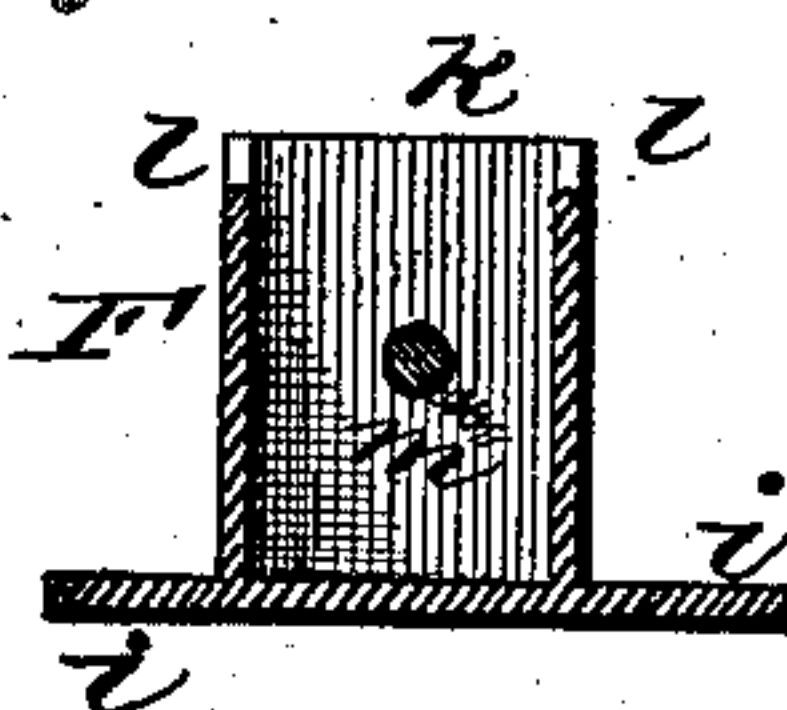


Fig. 5.

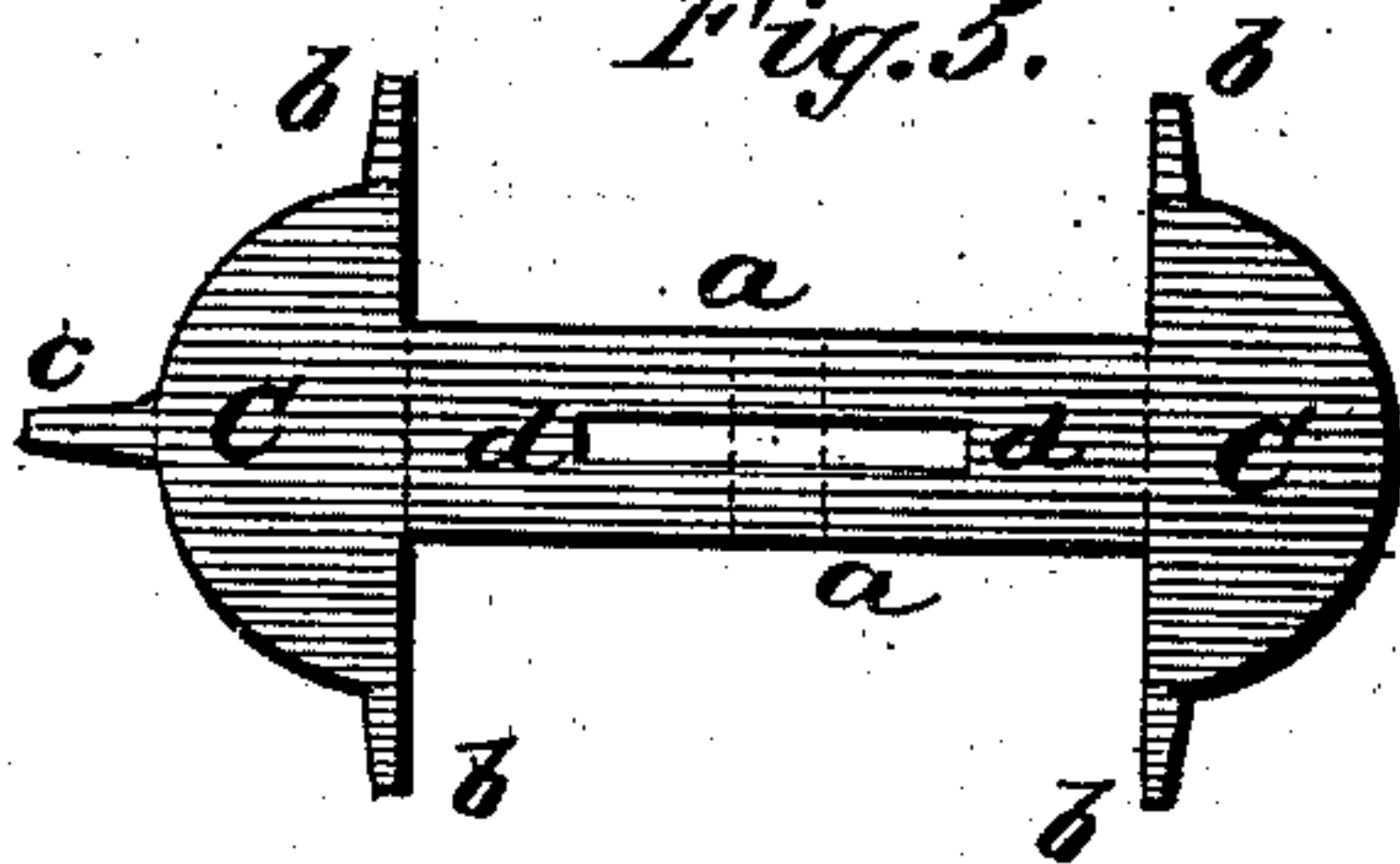
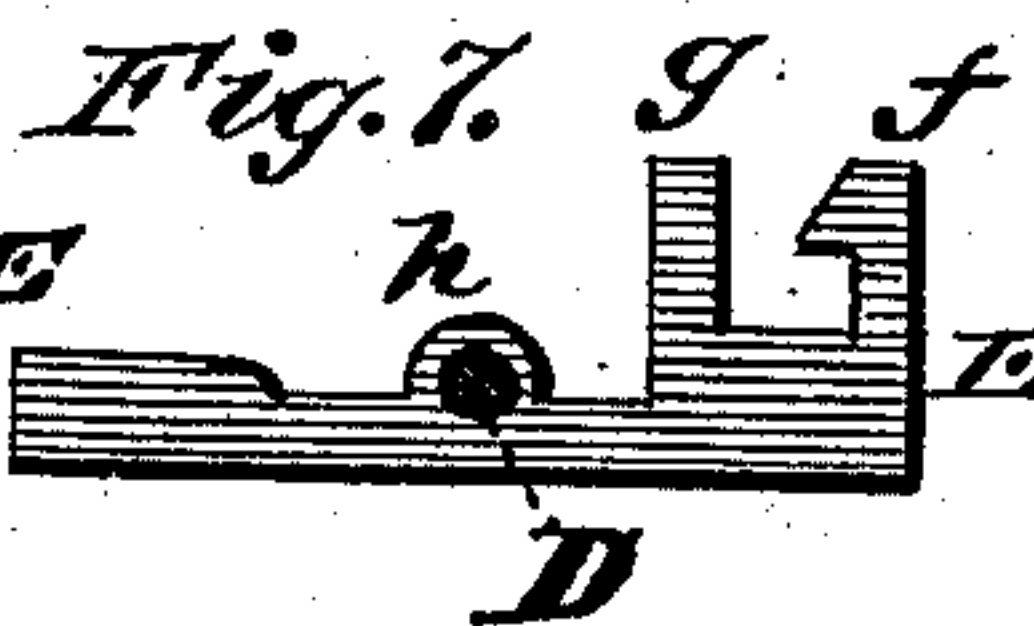
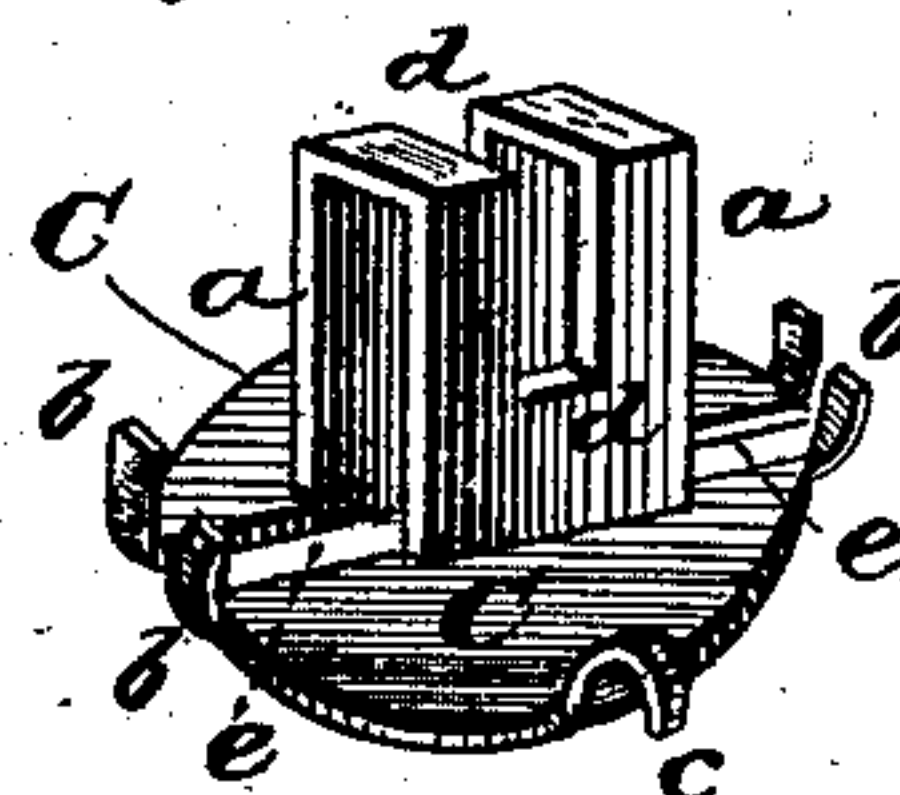


Fig. 6.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM W. BLOOMER, OF PAWTUCKET, RHODE ISLAND.

## SAPARABLE STUD AND BUTTON.

SPECIFICATION forming part of Letters Patent No. 239,590, dated March 29, 1881.

Application filed February 3, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM W. BLOOMER, of Pawtucket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Separable Studs and Buttons; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the under side of the top part or front of my improved button. Fig. 2 is a perspective view of the shoe with its hollow post. Fig. 3 is a cross-section of the complete button. Fig. 4 is a cross-section (laid longitudinally through the post) of the shoe with its hollow post and post-plate. Fig. 5 is a plan view of the blank from which the button-disk is struck up and shaped. Fig. 6 is a perspective view of the shaped disk, and Fig. 7 is a side view of one of the spring-pushers detached.

Similar letters of reference indicate corresponding parts in all the figures.

My invention relates to separable buttons, or that class of studs and buttons which are made in two detachable parts held together by spring-fastenings; and it consists in the detailed construction and combination of parts of a stud or button of that class, as hereinafter more fully set forth, and particularly pointed out in the claims.

In the annexed drawings, A represents the face member of the stud or button, which may be of any desired size, shape, and material, and is fastened by suitable means to the front or face plate, B.

To the under side of the face-plate is soldered or otherwise fastened a disk, C, which is formed from a blank of the shape shown in Fig. 5, by reference to which it will be seen that the plate has on each side of its narrow slotted middle part or shank, *a*, two small projecting lips, *b*, and at one of its rounded ends another lip, *c*. In striking up the plate the middle part, *a*, is bent to form a hollow post, as shown in Fig. 6, with a transverse slot, *d*, in its top, the hollow space within the

post coinciding with the slots *e e*, at the outer ends of which are the lips *b*, which are turned up at right angles to the body of the disk. The lip *c* is bent to form a hooked finger or catch for the attachment of the pusher-spring D.

The letter E designates the pushers, which are of the shape shown in Fig. 7. Each pusher is made with a hook, *f*, at its inner end, which faces a standard, *g*. When the pushers are inserted into the hollow post *a* of disk C the hook *f* and standard *g* will be on opposite sides of the transverse slot *d* in the top of the post, the hook of one pusher facing the standard of the opposite pusher, and vice versa. The slotted post is wide enough to allow the hooked heads of the pushers to slide past one another. The ends of the bent pusher-spring D are attached to the pushers at *h*, and the play of the spring and pushers is limited by the lips or studs *b*.

The shoe F consists of a circular disk, *i*, upon which is soldered or otherwise fastened a hollow post, *k*, which has a notch, *l*, at the upper end of each of its narrow sides and a pin, *m*, inserted transversely through it. *n* is the face-plate of disk *i*, and the two are secured together by crimping or beading the rim of the face-plate around the rim of disk *i*, as shown in Fig. 3.

From the foregoing description, taken in connection with the drawings, the operation of this button will be readily understood.

When the post *a* of the front is inserted into the hollow post *k* of the shoe, pin *m* will push the hooked pushers aside so as to let them pass, after which they will spring together again on the other side of the pin, and thus interlock the two posts *a* and *k*, and with them the front and shoe of the stud or button, of which they form parts. The end notches, *l*, in the shoe-post afford room for the pushers, so that post *k* may be brought down upon or against disk C at the base of its post. The standards *g* of the hooked pushers serve as guides for these in the slotted or hollow post *a* and prevent their hooked ends from fouling.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a separable button, the button plate

or disk C, struck up to form the hollow post *a*, open at both ends, and slotted transversely at *d*, as set forth.

2. In a separable button, the combination of  
5 the face-plate B, spring D, hooked pushers E, and disk C, struck up to form the hollow post *a*, open at both ends, and slotted transversely at *d*, as set forth.

3. The pushers E, having the hooks *f* and  
10 standards *g*, as set forth.

4. The shoe F, having the hollow post *k*, notched at *l* and provided with the pin *m*, as set forth.

5. The shoe F, composed of the disk *i*, hollow post *k*, notched at *l* and provided with 15 the pin *m*, and facing-plate *n*, constructed and combined as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM W. BLOOMER.

Witnesses:

PELEG R. REMINGTON,  
THOS. G. LUCAS.