

(No Model.)

E. R. PROCTER.

BUTTON OR STUD.

No. 333,156.

Patented Dec. 29, 1885.

Fig 1.

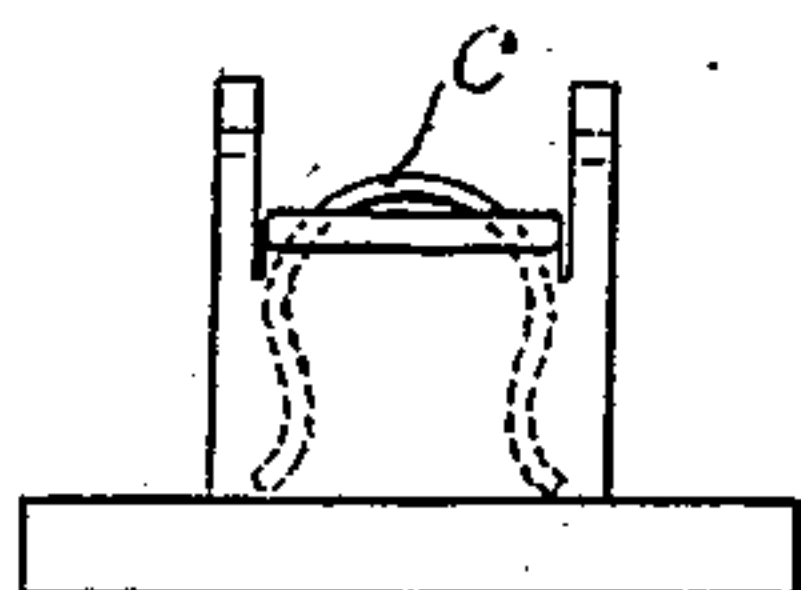


Fig 2.

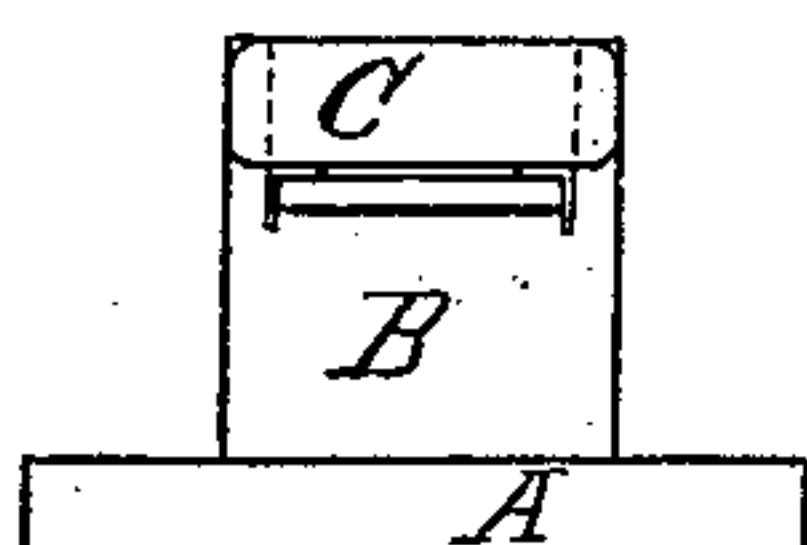


Fig 3.

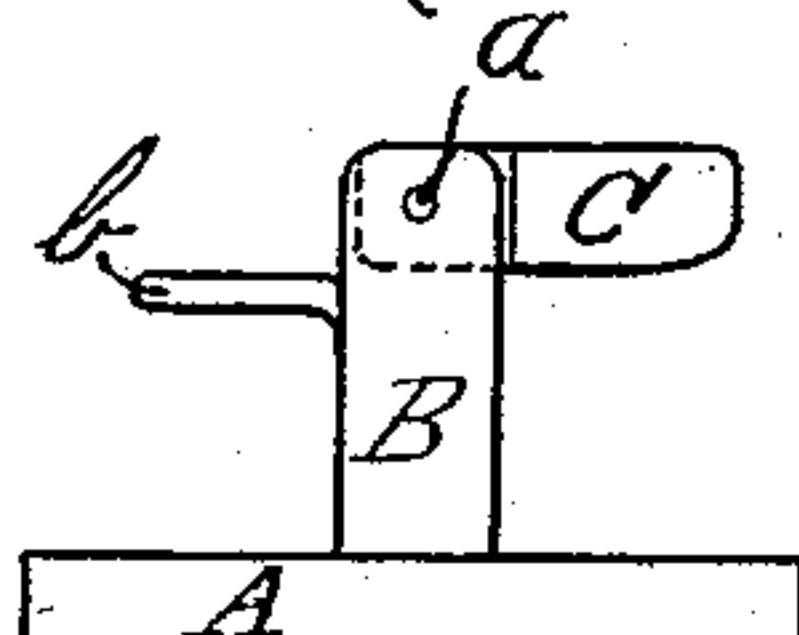


Fig 4.

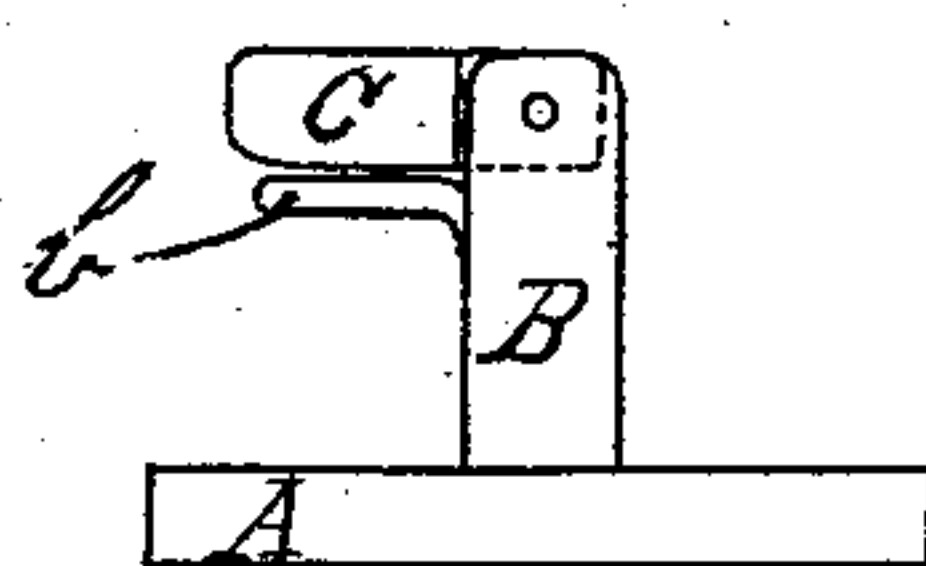


Fig 5.

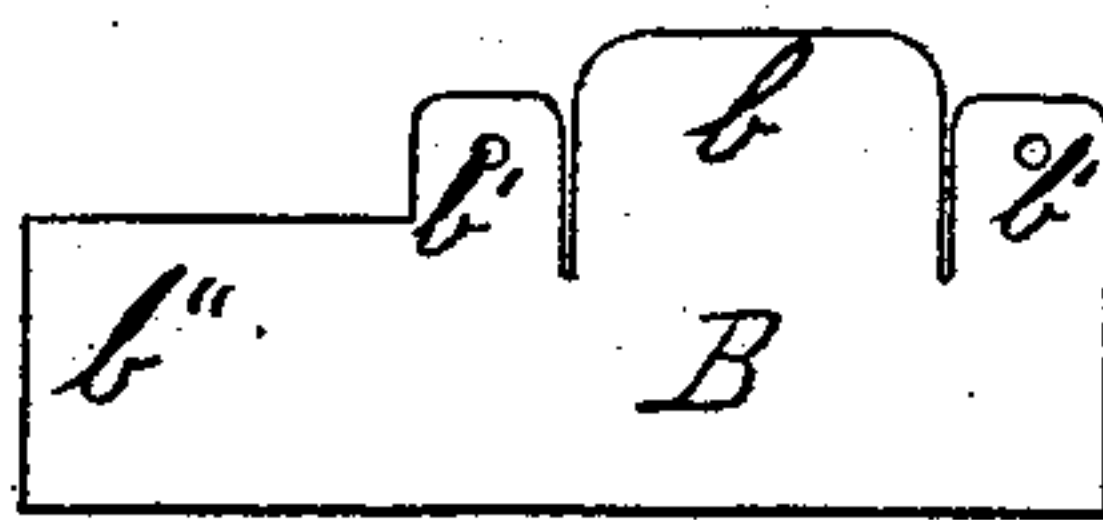


Fig 6.



Fig 7.

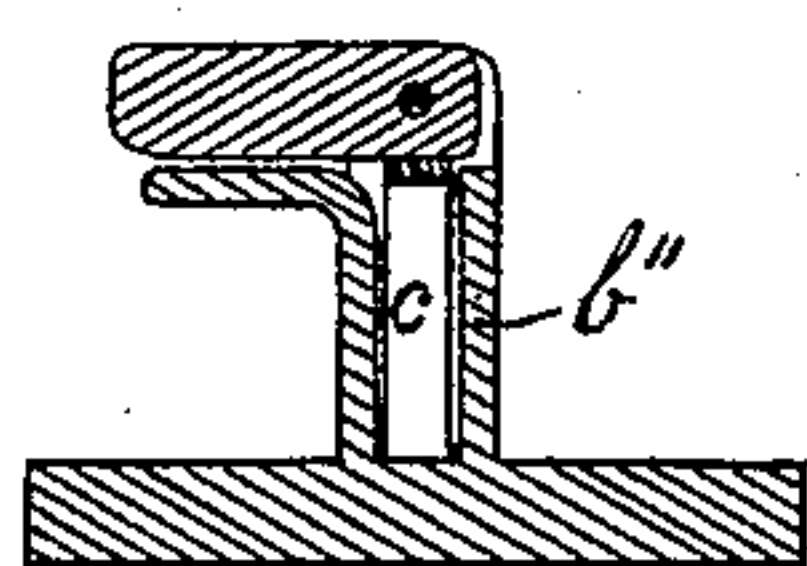
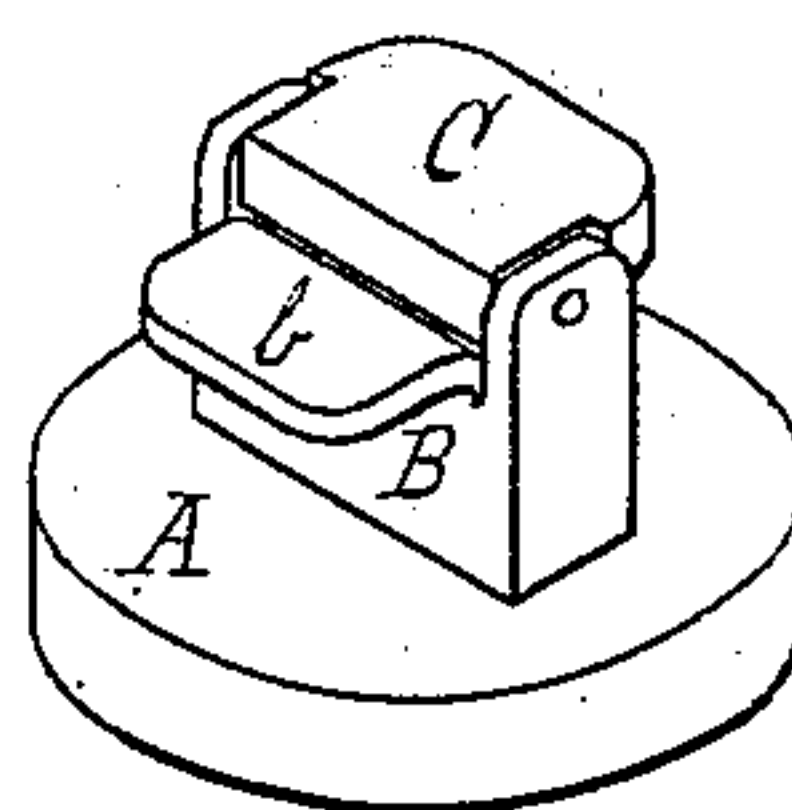


Fig 8.



Attest
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UNITED STATES PATENT OFFICE.

EDWIN R. PROCTER, OF WASHINGTON COURT-HOUSE, OHIO.

BUTTON OR STUD.

SPECIFICATION forming part of Letters Patent No. 333,156, dated December 29, 1885.

Application filed March 21, 1885. Serial No. 159,648. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. PROCTER, of Washington Court-House, Fayette county, State of Ohio, have invented a new and useful Button or Stud, of which the following is a specification.

The object of my invention is to provide an improved button of few parts, which may be easily inserted (by a hooking motion) and locked in position, and also easily unlocked from position, and taken out, which is rendered easy by the oblong rectangular shank holding my button firmly in one position while the finger engages the hinged foot and unlocks it.

In the accompanying drawings, Figure 1 represents my improved button with the movable foot omitted. Fig. 2 represents a front view of button with movable foot in its place. Fig. 3 represents a side view of button with movable foot locked in position. Fig. 4 represents a side view of button with movable foot locked over stationary foot ready for insertion. Fig. 5 represents the outline of the metal composing shank previous to being formed and fastened into the completed shank, which is hollow. Fig. 6 represents the spring inclosed in the shank as shown by the dotted lines in Fig. 1. Fig. 7 represents a section through the centers of head, shank, both feet, and spring. Fig. 8 represents a perspective view of my improved button locked in position for securing the edges of cuff.

The head A may be of any desired form. The hollow four-sided shank B, with two sides wider than the other two sides, is preferably made out of one piece of stock or metal, and is fastened to head A on one end, and at its other end has bearings which receive the axle-pin of a hinged foot, C; and b' b' represent said bearings, and said hollow shank has a rectangular offset, b , which forms the stationary foot, and it contains a spring, c , which engages the head of movable foot C and locks said foot in three positions, like as the blade of a common pocket-knife is locked by its spring in three different positions—to wit, first, in the handle; secondly, one-half opened, and, lastly, opened out at full length. So the spring c engages, first, one of the three rectangular faces of the head of the movable foot C, (the head being that portion of the foot C, which

has the eye through which passes the axle-pin a) and by pressure locks said foot C on top of fixed-foot b in position to be inserted in a button-hole, (see Fig. 4;) second, by swinging the foot C on the axle-pin a into the plane of the shank B the spring c engages by pressure the next rectangular face of the head of foot C and locks it in an intermediate position—to wit, a position half-way between position for insertion shown in Fig. 4 and the locked position in cuff shown in Fig. 8; third, by swinging the foot C farther around on its axle the spring c by pressure engages the next rectangular face of the head of foot C and locks it in the position for securing the cuff shown in Fig. 8, in which position it will be seen that one face of each of the two feet is in the same horizontal plane.

The spring c at all times bears against one or the other of the faces of the head of movable foot C.

b'' represents that end of the single piece of stock or metal forming the shank B which forms the back of said shank when all closed up for reception of spring c , &c.

My invention provides an improved button in that the shank can be made shorter than the shank of the ordinary "lever-button" without the movable foot infringing on the garment fastened, since the movable foot of my device never gets any nearer to the head of the button either in the position for inserting or for unlocking from cuff than the distance that the fixed foot is from the head of the button.

The ease with which my device can be locked and unlocked is contributed to it by the flat or rectangular shank holding the button firmly in the button-hole during these operations. The few parts entering into its construction are shown on the drawings, together with the simple construction of same. The intermediate locked position forms an additional safeguard to the security of the button.

I am aware that patent to Allen, No. 231,948, September 7, 1880, describes a round shank two-part-foot button with one half of foot secured to the shank and the other half to a tubular sleeve pressed by a spring, and that patent to Cooke, No. 311,474, February 3, 1885, describes a round shank two-part-

foot button with one half of foot secured to the shank and the other half movable. I therefore disclaim whatever my present device has in common with such devices.

5 I desire Letters Patent for and claim as new and of my invention—

The button herein described, consisting of the rectangular shank B, formed from a single sheet-metal blank, as shown, and provided

with integral foot *b*, the flat spring *c*, and to the hinged shoe C, as set forth.

In testimony of which invention I have hereunto set my hand.

EDWIN R. PROCTER.

Attest:

E. H. BAKER,
PHILIP S. GOODWIN.