

(No Model.)

R. SANFORD.
BUTTON FASTENER.

No. 344,870.

Patented July 6, 1886.

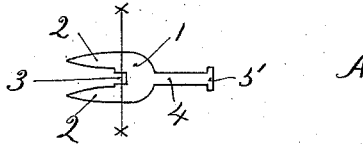


Fig. 1.

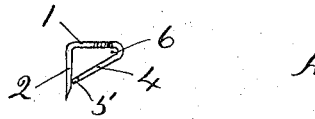


Fig. 2.

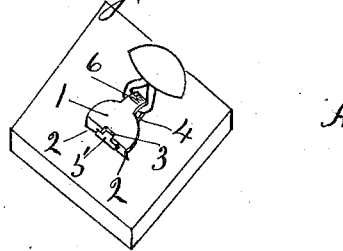


Fig. 3.

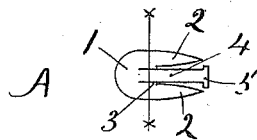


Fig. 4.

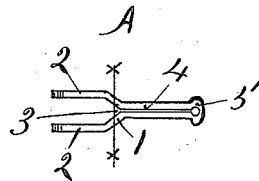


Fig. 6.

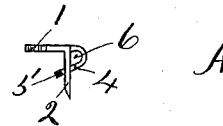


Fig. 5.

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UNITED STATES PATENT OFFICE.

RICHARD SANFORD, OF PROVIDENCE, RHODE ISLAND.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 344,870, dated July 6, 1886.

Application filed April 3, 1886. Serial No. 197,638. (No model.)

To all whom it may concern:

Be it known that I, RICHARD SANFORD, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Button-Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to that class of button-fasteners consisting of a table and penetrating-prongs, by which the fasteners are secured to fabric.

My present invention has for its object to provide such fasteners with a locking-loop for the reception of the eye of a button, whereby when the fastener is secured to fabric, with the button engaged with said loop, the button will be securely locked therein, and its removal rendered impossible without destroying the fastener.

To this end my invention consists, primarily, of a table provided with an open loop for the reception of the eye of a button, the free end of said loop having an enlargement or projection adapted to be engaged with a slot formed in the table at the upper portion of the space between the prongs of the fastener, said prongs being formed integral with the table, and adapted to be passed through the material and be clinched to secure the fastener thereto, substantially as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a plan view of the blank from which my improved fastener is made. Fig. 2 is a side elevation of my improved fastener. Fig. 3 is a perspective view of the fastener with button as secured to fabric. Fig. 4 is a plan view of a modified form of blank. Fig. 5 is a side elevation of the same as bent to form a fastener. Fig. 6 represents a blank of my improved fastener as made from wire.

In carrying out my invention the fastener A, in the present instance, is cut from sheet metal of substantially the form shown in Fig.

1, consisting of the table 1, having prongs 2 2 projecting from one side thereof, and a shank, 4, provided with an enlarged end, 5, projecting from the opposite side of the table in line with the space between the prongs.

At the side of the table 1, between the prongs 2 2, is formed a slot or opening, 3, cut out of said table, as shown in Fig. 1, corresponding in width to the shank 4, said slot being adapted to receive the shank 4 back of the enlarged end 5 when the fastener is secured to fabric. The prongs 2 2 are bent downward at right angles to the table on line *xx*, which brings the outer portion of the opening 3 below the bottom line of said table. The shank 4 is bent downward and then rearward, with its free end projecting downward on an angle toward the prongs 2 2, and forming the loop 6, for the reception of the eye of a button, as fully shown in Fig. 2.

I have shown and described my improved fastener as cut from sheet metal. The same form of blank may, however, be made from wire, as shown in Fig. 6, the shank 4, having enlarged end 5, being formed by doubling a strip of wire at its center and upsetting the doubled end to form the enlargement 5, the table 1, opening 3, and prongs 2 2 being made from the free ends of the wire.

In securing a button to a shoe or other article by means of my improved fastener, the eye of the button is passed over the enlarged end 5 of the shank 4 into the loop 6. The button and fastener are then placed in one member of a suitable machine. The prongs 2 2 are then pressed through the fabric and securely clinched on the under surface thereof, the shank 4 being bent upward against the bottom of the table 1, and clamped between said table and the fabric, the end of the shank 4 back of the enlargement 5 being pressed into the slot 3 of the fastener, the enlarged end 5 resting on the fabric outside the prongs 2 2, thus securely locking the button in the loop 6 of the fastener, the enlarged end 5 preventing the shank 4 from being withdrawn from the opening 3, and permanently securing the button and fastener to the fabric, as fully shown in Fig. 3.

The fastener shown in Fig. 5 is made from the blank in Fig. 4, the prongs 2 2 and shank

4 projecting from one side of the table 1, instead of from opposite sides, as in Fig. 1. The prongs on being bent on line *x x*, and the shank 4 being bent over to form the loop 6, 5 form the opening 3 where the shank was cut into the table 1, as shown in Fig. 4, and into this opening 3 the end of the shank 4 is pressed, when the fastener is secured to fabric, the enlarged end 5 in this instance being clamped 10 between the table of the fastener and the fabric inside the prongs 2 2, thus making a fastener with a locking-loop, substantially as previously described.

The advantages of a fastener formed as 15 herein described are obvious. The free end of the loop being securely locked into the slot or opening in the table and retained therein by being clamped between said table and the fabric, offers a strong resistance against 20 any strain which may be brought to bear upon the button, and when once secured to the fabric the button cannot become disengaged without destroying the fastener. A strong and reliable button-fastener is thus produced 25 at a nominal cost.

Having described my invention, I claim—

1. A button-fastener consisting of a table having a shank provided with an enlarged end, and two penetrating-prongs projecting from one edge of said table, said shank being 30 formed into a loop for the reception of the eye of a button, the enlarged end of said shank being retained in a slot formed in the table between the prongs, and clamped between said table and the material when secured thereto, substantially as specified. 35

2. The fastener A, comprising the table 1, having prongs 2 2, and the slot or opening 3 between said prongs, and further provided with the loop 6, having shank 4, provided with 40 enlarged end 5, said shank to be clamped between the table and the material when secured thereto, and to be engaged with the opening 3 in said table, substantially as shown and described. 45

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD SANFORD.

Witnesses:

F. A. SMITH, Jr.,
CHARLES GREENE.