(No Model.)

F. A. SMITH, Jr.

BUTTON FASTENER.

No. 423,451. Patented Mar. 18, 1890

Fig. 1.

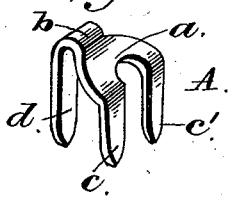
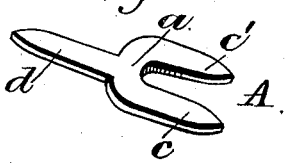


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANKLIN A. SMITH, JR., OF PROVIDENCE, RHODE ISLAND.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 423,451, dated March 18, 1890.

Application filed March 31, 1884. Serial No. 126,133. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN A. SMITH, Jr., 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 of reference marked thereon, which form a part of this specification.

My present invention relates to that class of metallic fasteners for attaching buttons to fabric for which Letters Patent for the United States were granted to C. H. Reid under date of August 19, 1873, and numbered 142,043, and is designed as an improvement on the same.

In the aforesaid patent a triangular or Y-shaped clip is shown, among others, which is formed at its center with a sort of neck to rest in the eye of a button, forming a central loop, with a table on each side terminating in sharp tangs. I find in practice that the two front tangs, when bent as described, radiate to a common center, forming in the fabric a wedge shape, which is objectionable in a fastener when on a line of strain, and the central loop easily becomes strained, causing the button to become loose and rendering the fastener useless.

My present invention has for its object to obviate these objections and to provide a fastener which can be as readily applied, and also possesses a greater degree of utility and durability.

To this end my invention consists, primarily, of a table and three prongs—two at one side and one at the opposite—in line with the space between the two, the whole arranged and adapted for use as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a perspective view of my improved fastener. Fig. 2 is a similar view of the blank from which the fastener shown in Fig. 1 is formed.

In carrying out my improvement the fastener A is cut from sheet metal, substantially in the form shown in Fig. 2, consisting of the table *a*, from one side of which project the two prongs *c c'*, the prong *d* projecting from the opposite side of said table parallel to and in line with the space between the two opposite prongs, all the said prongs being parallel with each other and provided with V-shaped points, and subsequently bent at right angles to the table *a*, the prong *d* being bent near its junction with the table into the form of a loop *b*, as shown in Fig. 1, for the reception of an eye-shank button, the said table and prongs being of the same thickness throughout when ready for use, the latter being formed without swaging or sharpening otherwise than that given them in cutting from the sheet.

In attachment the button-eye is first passed into the loop *d* of the fastener. The prongs are then pressed through the fabric and firmly clinched on the under surface. The two prongs *c c'*, being square with the line of strain, offer a greater resistance than if cut and bent in a triangular form, and the loop *d*, being formed at the side of the fastener, is less liable to become loose than if formed in the center of the table. The table, loop, and prongs, being of a uniform thickness throughout, form a strong and durable fastening.

Having described my invention, I claim—

The herein-described button-fastener A, consisting of a flat table *a*, having the prongs *c* and *c'*, with V-shaped points projecting from one side, and the prong *d*, provided with the loop *b* from the opposite side thereof and at right angles thereto, the table, prongs, and loop all being of a uniform thickness throughout, substantially as set forth.

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

FRANKLIN A. SMITH, JR.

Witnesses:

CHARLES GREENE,

E. FISHER.