(No Model.)

F. A. SMITH, Jr.

BUTTON FASTENER.

No. 345,813. Patented July 20, 1886.

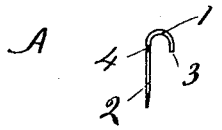

Fig. 1.

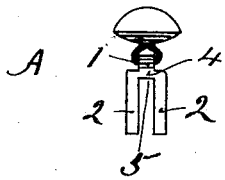

Fig. 2.

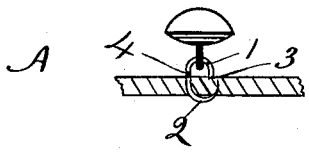

Fig. 3.

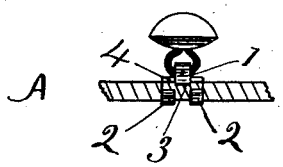

Fig. 4.

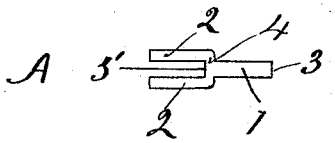

Fig. 5.

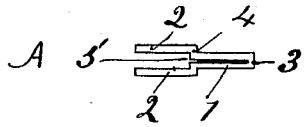

Fig. 6.

Witnesses.
E. Fisher.
Charles Greene

Inventor.
Franklin A. Smith Jr.

UNITED STATES PATENT OFFICE.

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

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 345,813, dated July 20, 1886.

Application filed April 28, 1886. Serial No. 200,423. (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 and figures of reference marked theron, which form a part of this specification.

This invention relates to button-fasteners, and has for its object the production of a simplified form of fastener, one which can be made with but a small amount of stock, and that in such a form as to be practically without waste.

This invention consists, essentially, of a hook for the reception of the eye of a button, integral with a body portion and two insertible prongs, said body portion and prongs being in alignment with the end of the hook projecting downward to a line with the bearing between the prongs and parallel to the body portion, said prongs being adapted to be inserted through the material and clinched to secure a button thereto, the free end of said hook designed to rest on the upper surface of the material, as will be hereinafter more fully described.

Figure 1 is a side elevation of my improved fastener. Fig. 2 is a rear view of the same with button ready for attachment. Fig. 3 is a side elevation, in section, of the fastener with button as secured to fabric. Fig. 4 is a front view of the same. Fig. 5 is a plan view of the blank from which my improved fastener is made. Fig. 6 is a plan view of the same form of blank made from wire.

In carrying out my invention the fastener A, in the present instance, is made from a blank cut from sheet metal of substantially the form shown in Fig. 5, consisting of a body portion, 4, terminating at one side in insertible prongs 2 2, and at the opposite side in a strip, 1, of the proper width to enter the eye of a button. The prongs 2 2 stand apart sufficient to form the bearings 5 between them to rest on the surface of the material when secured thereto. The strip 1 is bent to form a hook for the reception of the eye of a button, the end 3 of said strip projecting downward to the line of the bearing 5 and parallel with the body portion 4, said body portion and prongs remaining in an unbent condition, as fully shown in Figs. 1 and 2. The ends of the prongs are sharpened to readily penetrate material in attachment, the free end of the hook being formed blunt, and adapted to rest on the upper surface of said material when secured thereto.

The fastener being formed as described, the eye of the button is passed over the end 3 of the strip 1 into the hook, as illustrated in Fig. 2 of the drawings. The prongs are then passed through the material and clinched by means of a suitable machine, the ends of the prongs binding or clamping the material against the end 3 of the hook, which rests on the upper surface thereof, as fully shown in Figs. 3 and 4.

I have shown and described my improved fastener as made from a blank cut from sheet metal. The same may be made from a blank formed of wire, as shown in Fig. 6, the doubled portion of the wire forming the strip 1 provided with the end 3, the body portion 4 and prongs 2 2 being formed from the free ends of the wire. I am thus enabled to produce a button-fastener at a small cost of manufacture, the stock being utilized very closely, and there being but one bend imparted to the blank, and that at a portion of the fastener which does not injure or weaken the metal of the blank, makes a strong and reliable article admirably adapted for the purpose contemplated.

I am aware of the patent granted to E. D. Steele, dated April 21, 1885, No. 316,304, and make no claim to a button-fastener made as therein shown and described.

Having described my invention, I claim—

1. A button-fastener comprising a body portion having two insertible prongs, and an oppositely-disposed hook for the reception of the eye of a button, said body portion and prongs being in alignment when adapted to be secured to material, the end of said hook adapted to rest on the upper surface of the material when secured thereto, substantially as specified.

2. The button-fastener A, consisting of the body portion 4, provided with insertible prongs 2 2, having the edge bearing 5 between said prongs, and further provided with the strip 1, formed into a hook for the reception of the eye of a button, the extreme end 3 of said hook designed to rest on the surface of the material when secured thereto, said body portion and prongs being in alignment when adapted to be secured to said material, arranged for use substantially as shown and described.

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

FRANKLIN A. SMITH, JR.

Witnesses:

GEO. W. PRENTICE,

CHARLES GREENE.