(No Model.)

F. A. SMITH, Jr.

BUTTON FASTENER.

No. 306,116. Patented Oct. 7, 1884.

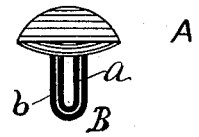

Fig. 1.

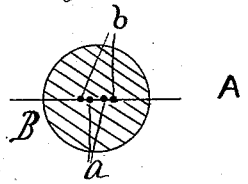

Fig. 2.

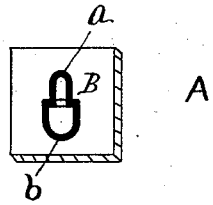

Fig. 3.

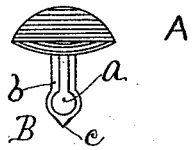

Fig. 4.

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. 306,116, dated October 7, 1884.

Application filed July 14, 1884. (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 thereon, which form a part of this specification.

My invention relates to a new and useful improvement in buttons of that class which have in themselves the necessary means for attachment, and similar to that for which I made application April 5, 1884, No. 126,762.

My present invention relates more particularly to the construction and formation of an attaching-eye for said buttons, and while it is adapted to be used in connection with buttons composed of any substance now in general use, I design it more especially in connection with a leather or pulp button—such as are used on shoes, leggins, and like articles—and to illustrate my invention have shown and described such.

To this end my invention consists, primarily, of a button formed into required shape, provided with an attaching-eye made of wire or cut from sheet metal, forming a double loop, one within the other, and both in the same parallel plane, adapted to be passed through fabric and bent on the under surface to attach the button thereto, all as will be hereinafter more fully described.

To illustrate my invention, I refer to the drawings, in which Figure 1 is a side view of my complete device. Fig. 2 is an inverted sectional view of same, showing location of attaching-eye. Fig. 3 is a plan view of the button as viewed from the under side of the fabric. Fig. 4 is also a side view of a button embodying my improvement.

Similar letters of reference indicate like parts in the several figures.

In carrying out my invention, the button A, as before stated, is preferably made of leather or pulp in the usual manner, and dyed, stained, or japanned, as may be desired. From the lower portion of said button projects the attaching eye B, consisting of the outer loop, *b*, and the inner portion or loop, *a*, as shown in Fig. 1. In the present instance the loops *a* and *b* are made of wire, the lower portions being bent into a U or staple shape, and located one within the other, and both in the same parallel plane in line with each other, as illustrated in Fig. 2. The wire loops give the best result, but, if preferred, may be cut from sheet metal, as shown in Fig. 4, the inner portion, *a*, being partially cut out, then replaced and secured to the button with the outer loop, being, as before described, on a line with each other, both in the same parallel plane, the inner portion, *a*, forming a flat tongue in place of the open loop of the wire eye. The lower portion of the attaching-eye may be provided with the sharpened end *c*, to more readily penetrate the fabric in attaching the button, as shown in Fig. 4.

The button is attached to fabric by passing the attaching-eye B through the fabric from the upper surface. The inner and outer portions, *a* and *b*, are then bent in opposite directions onto the under surface of the material, as shown in Fig. 3, thus securely attaching the button.

My improved device makes but a single small slit in the fabric in attachment, is easily and rapidly applied, and readily adapted for the purpose contemplated.

I have shown the attaching-eye formed of two wire loops, one within the other, also cut from sheet metal, having an outer loop and an inner tongue or prong.

It is obvious that the forms of the eyes shown may be varied to retain the essential feature of my invention, which is one loop or portion within the other, both in the same plane.

I claim—

1. A button provided with an attaching-eye composed of two parts, one within the other and both in the same plane or line, the upper portion of the eye being secured to the lower portion of the button, and projecting from thence, said attaching-eye being formed without movable joints or pivots, the whole ar-

ranged and adapted for use substantially as herein set forth.

2. The attaching-eye B, consisting of the inner portion, *a*, and outer portion, *b*, arranged one within the other and in the same plane, said attaching-eye secured to a button, and adapted for use substantially as described.

3. The button A, provided with the attaching-eye B, consisting of the inner portion, *a*, outer portion, *b*, and penetrating end *c*, arranged and adapted for use substantially as described.

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

FRANKLIN A. SMITH, JR.

Witnesses:

GEO. W. PRENTICE,

CHARLES GREENE.