(No Model.)

F. A. SMITH, Jr.

BUTTON AND BUTTON FASTENING.

No. 303,063. Patented Aug. 5, 1884.

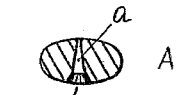

Fig. 1.

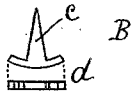

Fig. 2.

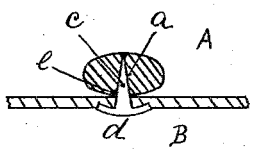

Fig. 3.

Witnesses.

E. Fisher

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UNITED STATES PATENT OFFICE.

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

BUTTON AND BUTTON-FASTENING.

SPECIFICATION forming part of Letters Patent No. 303,063, dated August 5, 1884.

Application filed May 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 Buttons and Button-Fastenings; 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 has for its object an improvement in the art of attaching buttons to fabrics; and it consists of an improved button and fastening device which is adapted to be readily secured to fabrics of any kind in the quickest and best possible manner.

To this end my invention consists, primarily, of a button made of leather, paper, pulp, or other suitable material, said button provided with a tapering central opening provided with a countersunk end, said opening extending through said button.

My invention further consists in combining said button with a metallic tack having a cut tapering prong, said tack cut complete from sheet metal ready for use when so cut, the button to be secured to the fabric by said tack, as will be more particularly described hereinafter.

In the accompanying drawings, Figure 1 is a view of my improved button; Fig. 2, an elevation and bottom plan view of my improved metallic tack; Fig. 3 the button attached to fabric with said tack.

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

In carrying out my invention the button A is made of leather, paper, pulp, or other suitable material, formed into an approximate elliptical shape. The central portion of the button is provided with an opening, *a*, extending entirely through the button, and is angled from the bottom side, corresponding to the taper of the prong of the tack used, the lower portion, *e*, of the opening being countersunk, as shown, to allow an easy entrance of the end of the tack in attachment to a fabric. The button is compressed in the usual manner, and dyed, stained, or enameled, as may be desired.

B is a fastening-tack consisting of the head *d*, having a convex outer and concave inner edge, and provided with the prong *c*, which is formed slightly tapering from heel to point, the complete tack being cut from sheet metal, ready for use when so cut, as fully shown in Fig. 2.

The button and fastener being formed as described, are attached to fabric by first passing the prong of the tack through the fabric until the inner edge of the head of the tack lies snugly against the under surface. The prong of the tack is then driven into the central opening, *a*, in the button. The end of the prong of the tack is then upset or riveted in the outer end of the said opening, thus securely attaching the button to the fabric. The tapering central opening, corresponding to the taper of the prong of the tack, insures a firm hold of the button on the material not liable to loosen, while the enlarged end of the opening, being countersunk at *e*, insures an easy entrance of the prong of the tack in attachment, making a strong and durable button and fastener, easily attached and not liable to become disengaged.

I am aware that buttons have been secured to fabric by means of a common headed tack driven into the interior of said buttons and clinched therein. I do not claim such a means of attachment; but I am not aware of a button and fastener secured together in a fabric, as herein described, ever having been made before.

I claim—

The herein-described button A, having a tapering central opening, *a*, provided with countersunk portion *e*, in combination with the sheet-metal tack B, having head *d* and tapering prong *c*, arranged and adapted 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:
E. FISHER,
CHARLES GREENE.