S. W. YOUNG.

BUTTONS.

No. 192,613. Patented July 3. 1877.

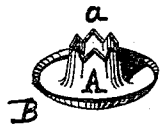


FIG. 1.

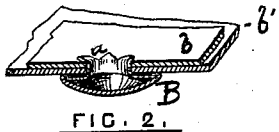


FIG. 2.

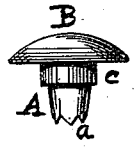


FIG. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

SOLOMON W. YOUNG, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HOMOGENEOUS METAL MANUFACTURING COMPANY.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. **192,613**, dated July 3, 1877; application filed October 28, 1876.

To all whom it may concern:

Be it known that I, SOLOMON W. YOUNG, of the city and county of Providence, in the State of Rhode Island, have invented a new Improvement in Buttons; and declare the following to be a specification thereof, reference being had to the accompanying drawing.

Like letters indicate like parts.

Figures 1 and 3 are, respectively, a perspective view and side elevation of my invention. Fig. 2 is a diametrical vertical section of the button after it has been set.

My invention consists, essentially, in extending the metallic lining of the button to form a tubular projection, which tube has a series of notches or serrations on its outer edge to be turned over upon and embedded into the fabric or material to which the button is affixed. The tube is also slitted longitudinally from the point where the serrations meet. The sharp prongs or notches thus bent into hook shapes and sunk into the fabric secure the button immovably in place, while, by means of the slits, the button can be set into materials of varying thicknesses, and the tube can be bent over to the requisite degree without splitting irregularly.

The tube A is made of thin sheet metal of sufficient ductility, drawn out in the shape shown in the drawing. It has a broad flange forming the under side of the button. The face B of the button is united to the under surface or flange, as shown in section in Fig. 2, by folding the outer edge of the former over the edge of the latter, or in any other suitable manner, this particular method not being an essential feature of my invention.

The tube A is slightly conical in form, and has upon its smaller end a number of sharp prongs or notches, *a a*, preferably six, which at their points of meeting continue into longitudinal slits. These points are slightly inclined inwardly to facilitate the inserting of the tube into and through the hole cut in the fabric or material for its reception. When set into the layers *b b* of the materials, these points are spread outwardly and bent into a hook shape by a proper tool, and are each embedded firmly, holding the button securely. (See Fig. 2.)

The button shown in Figs. 1 and 2 is more especially adapted for purposes of ornamentation, for gloves, shoes, &c. In these the setting brings the under side of the button snugly against the layer or fabric. By a slight modification, however, as shown in Fig. 3, the button is adapted for general use on garments. This consists in forming a shoulder, *c*, on the tube near the flange, or by surrounding the tube with a collar, so that when the points are turned and the button set, the layer is separated from the under side of the button, and space is left beneath the button to receive the layer or fold to be buttoned on.

Instead of combining the notches and slits, as described, it may be found useful to furnish the tube with either notches or slits separately. These forms, though less preferable, would obviously be within my invention.

The advantage of this invention is apparent.

The button is readily affixed, and, when set, is immovably fastened.

I claim as a novel and useful invention, and desire to secure by Letters Patent—

1. The button or stud consisting of the flanged tube A, notched and slitted, as described, in combination with the face B, substantially as and for the purpose specified.

2. The button consisting of the notched and slitted tube A, with its collar or shoulder *c*, and button B, substantially as shown, and for the purpose specified.

SOLOMON W. YOUNG.

Witnesses:

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