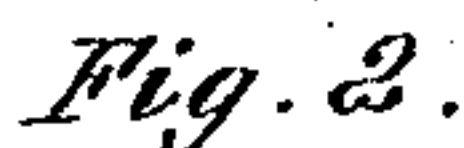


(Model.) O. P. COGGESHALL & A. W. C. ARNOLD.
Separable Button.

Separable Button.

Patented Feb. 22, 1881.



Joseph J. Scholfield.
Wm. H. Joyce.

Oliver P. Loggesshall
Amos W. G. Arnold
per S. Scholfield
Attorney

UNITED STATES PATENT OFFICE.

OLIVER P. COGGESHALL AND AMOS W. C. ARNOLD, OF PROVIDENCE, R. I.

SEPARABLE BUTTON.

SPECIFICATION forming part of Letters Patent No. 237,960, dated February 22, 1881.

Application filed December 4, 1880. (Model.)

To all whom it may concern:

Be it known that we, OLIVER P. COGGESHALL and AMOS W. C. ARNOLD, both of Providence, in the State of Rhode Island, have invented an improvement in Separable Buttons, of which the following is a specification.

Our invention consists in a separable button, having within an elongated hollow fixed post attached to the front portion of the button, two levers extending longitudinally through the hollow of the post, and provided at their ends, within the front portion of the button, with spring-actuated pushers, and at the ends extending beyond the outer end of said post, with opposite hooks, serving to catch within a chambered shoe.

Figure 1 represents an axial longitudinal section of the button, taken through the axis of the pushers. Fig. 2 represents a plan view of the pushers and spring attached to the back plate. Fig. 3 represents a plan view of the slotted plate, which serves to form the catch and chamber of the shoe. Fig. 4 represents a back view of the front portion of the button.

In the drawings, A represents the front portion of the button; B, the back plate, provided with a slot, *b*, to receive the ends of the levers C C', and serving to support the pushers D D, and the bent spring E, secured to the plate by means of a piece of hollow wire, *e*, attached by solder. The hollow post F is made elongated and attached to the plate B. The male lever C is provided with a pivot-hole, *a*, and both levers are provided with hooks *c* at their outer ends, which project beyond the end of the fixed post F. The female lever C' curves around the hub of the male lever C, and both levers are properly held for action within the fixed post by means of a rivet passed through the sides of the fixed post and the hole *a*, or by punching the side of the fixed post at the proper point, so as to indent it into the hole *a*, the lever C moving around its pivot, and the lever C' around the circular hub portion of the lever C, the back portion of both levers being made to touch the narrower sides of the post. The

post I of the shoe passes loosely over the post F, attached to the front of the button, and the plate G is slotted, as shown in Fig. 3, the connecting-bar *g*, between the two slots, serving as a catch for the hooks *c c*, the plate G being stamped up, so as to form, with the plate H of the shoe, a chamber, *h*, to receive the projecting ends of the hooks *c c*. The hooks *c c* are pressed toward each other by the spring E operating to throw the pushers D D outward. The pushers D D are attached by passing the ends of the levers through a hole, *d*, made in the pushers. The hooks *c c* are thus brought together over the bar *g* by the spring E, and opened to release the shoe and separate the button by pressing upon the projecting ends of the pushers, as usual.

We claim as our invention—

1. In a separable button, the combination of the front portion of the button, with a hollow elongated fixed post and oppositely-acting hook-levers pivoted within the said fixed post, with the hooks located at the outer end of the said post and thrown in opposite directions by means of spring-actuated pushers connected to the inner ends of the said pivoted hook-levers, and arranged to move in a direction opposite to the movement of the connected hooks, substantially as described.

2. In a separable button having a hollow elongated fixed post attached to the front portion of the button, the combination of the male and female hook-levers, with the said fixed post and spring-actuated pushers, substantially as described.

3. In a separable button, the combination of the hollow elongated post I, with the plate H and the slotted plate G, provided with a catch-bar, *g*, and forming, with the plate H, a chamber, *h*, substantially as described.

OLIVER P. COGGESHALL.
AMOS W. C. ARNOLD.

Witnesses:

J. J. SCHOLFIELD,
W. H. JOYCE.