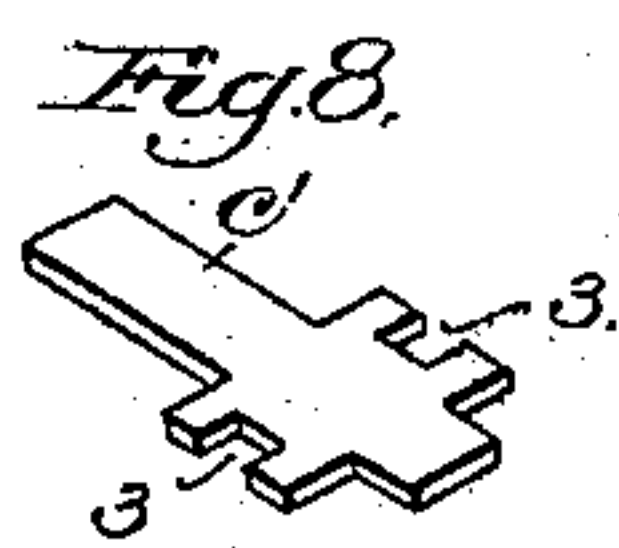
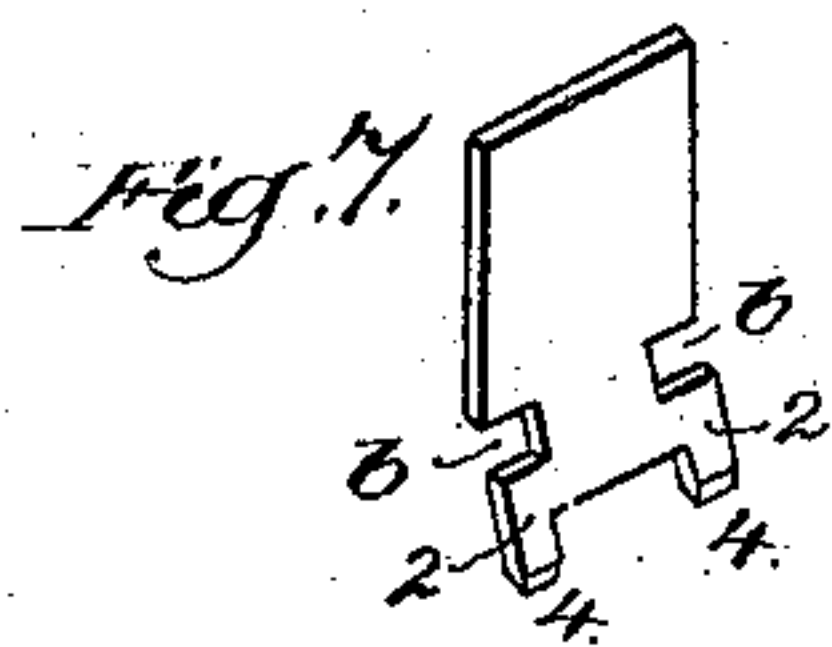
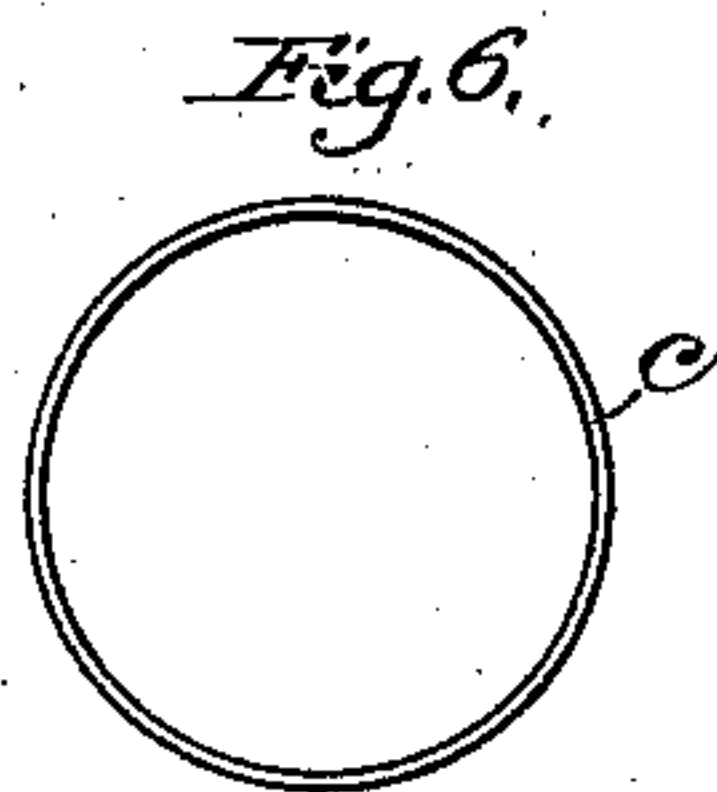
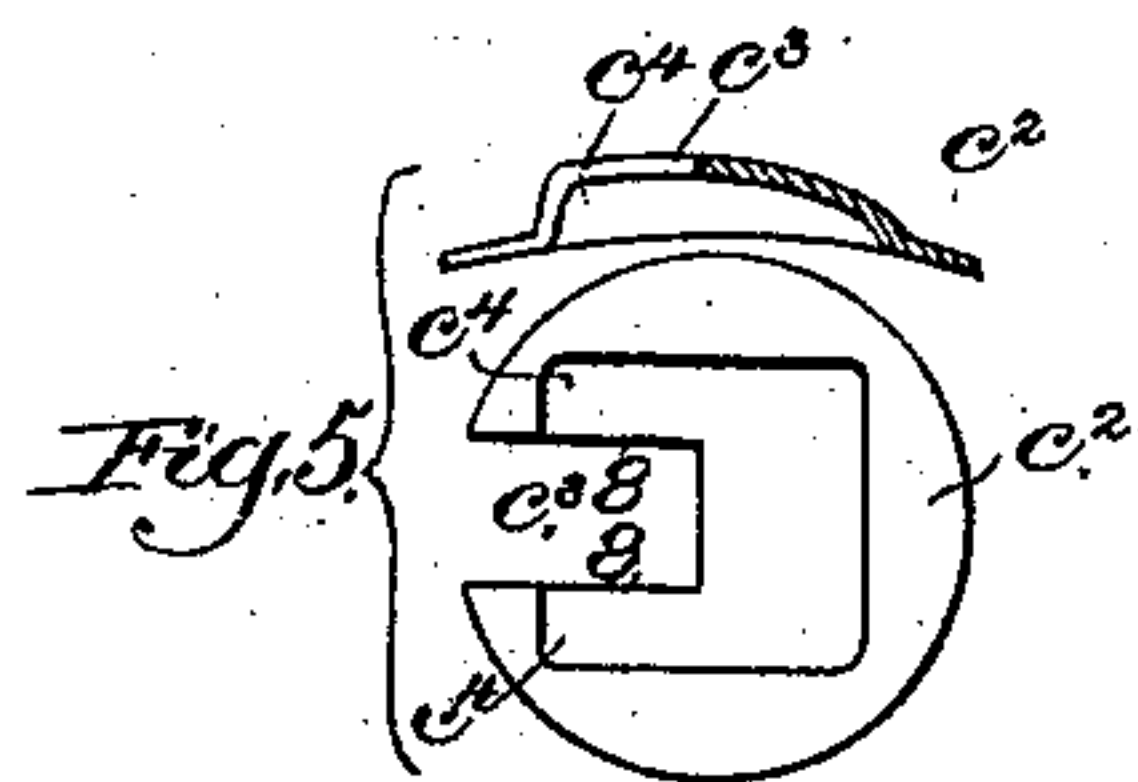
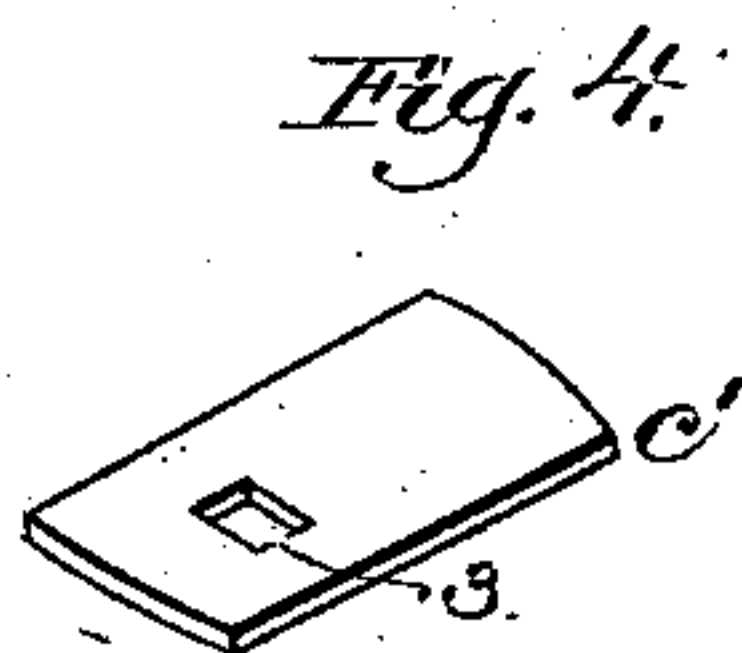
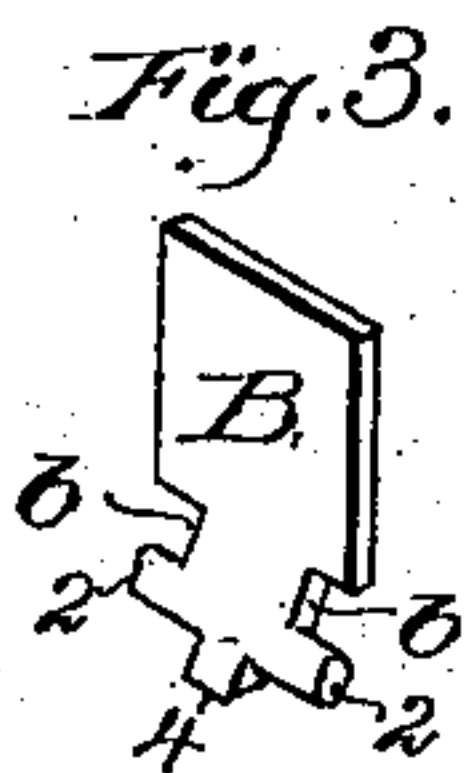
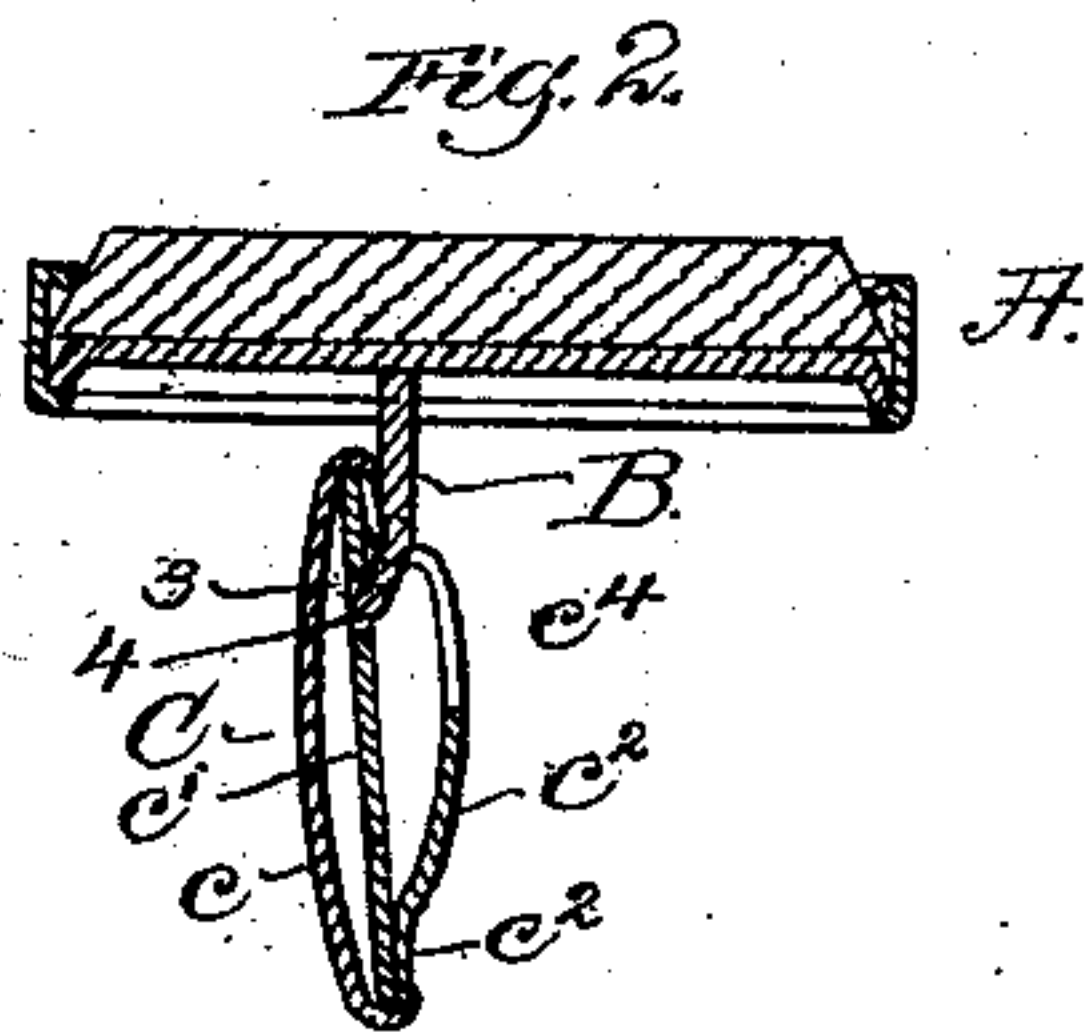
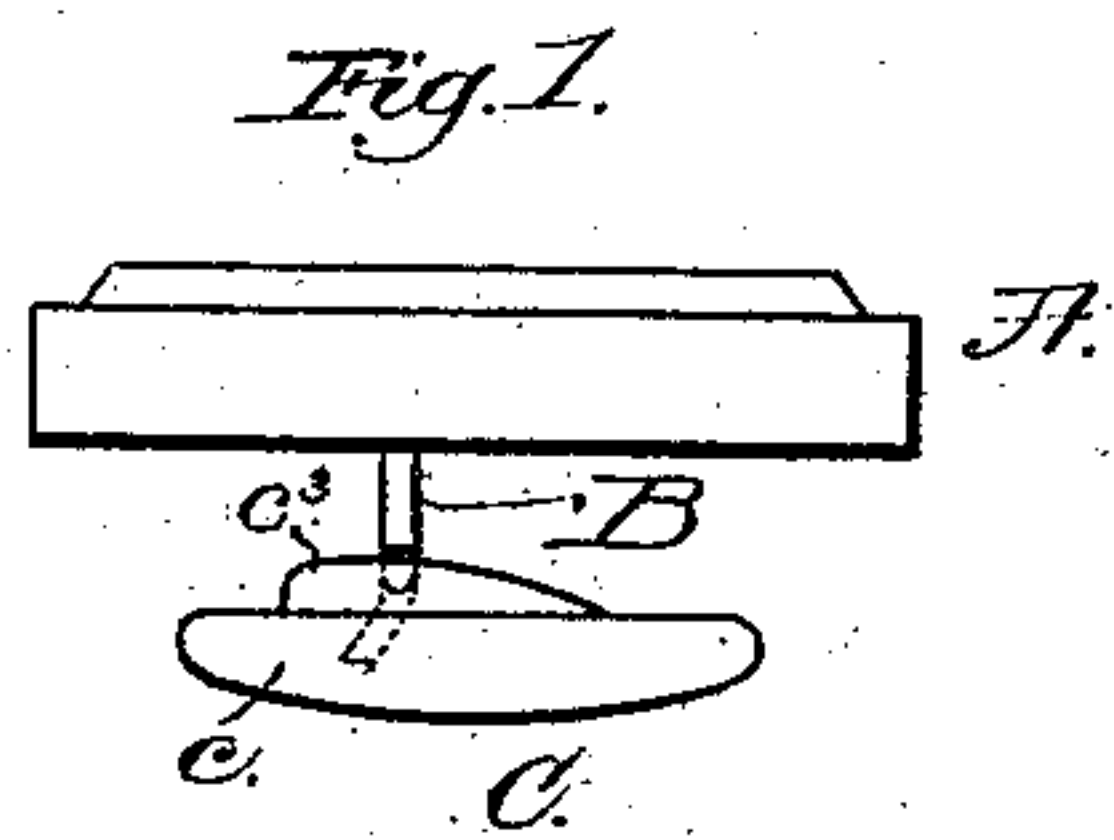


(No Model.)

N. NELSON.
BUTTON OR STUD.

No. 294,495.

Patented Mar. 4, 1884.



Witnesses.
John F. C. Peimbert.
B. J. Noyes.

Inventor.
Nels Nelson.
by Crosby & Ingony attys

UNITED STATES PATENT OFFICE.

NELS NELSON, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HIRAM HOWARD, OF SAME PLACE.

BUTTON OR STUD.

SPECIFICATION forming part of Letters Patent No. 294,495, dated March 4, 1884.

Application filed August 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, NELS NELSON, of Providence, county of Providence, State of Rhode Island, have invented an Improvement in Buttons or Studs, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates more especially to that kind of button or stud having a pivoted shoe and used for cuffs and collars; and the object of the invention is a novel construction of shoe and post, whereby the latter may be shortened to the minimum. In this my invention the post is slotted at its edges to receive the back-plate of the shoe, which travels in the said slots as the shoe is turned on the backwardly-inclined end of the post, the said end having one or more teats to enter or engage one or more recesses in an anchor-plate made of spring metal, which is acted upon by a spring.

My invention consists, essentially, in a button or stud having a notched post, combined with a shoe composed of a back-plate, a spring anchor-plate, and front plate, as will be described, the back-plate having elongated recesses, in which the shoulders of the post travel in the arc of a circle.

Figure 1, in side elevation, represents a cuff button or stud embodying my invention, with the shoe closed or at right angles to the post; Fig. 2, a longitudinal vertical section of the same with the shoe open. Fig. 3 shows the post by itself; Fig. 4, the combined anchor-plate and spring; Fig. 5, a section and plan of the back-plate of the shoe; Fig. 6, an inner view of the front of the shoe; Fig. 7, a modified form of post; Fig. 8, a modified form of anchor-plate and spring.

The button-head A, of usual construction, has applied to its under side the post B, which is notched at its edges, as at *b b*, to form shoulders 2 2. The back-plate *c*² of the shoe has a slot to permit the shoe to turn irrespective of the post, and the said back-plate, at and about the said slot, is concaved or bulged outwardly to form elongated or extended curved or concaved chambers for the reception of the shoulders 2 of the post when the shoe is turned on or about the post.

The front *c* of the shoe C (see Figs. 1 and 2) receives a combined anchor-plate and spring, *c'*, (see Figs. 4 and 8,) provided with one or more notches, 3, to receive one or more teats, 4. In Figs. 1 to 4 the post has one teat, but in the modification, Figs. 7 and 8, the post has two teats. The plate *c'*, placed within the concaved side of the front of the shoe and held therein against longitudinal or lateral movement, and having a hole to be entered by the teat or teats of the post, serves as an anchor-plate to anchor the outer end of the post, or so place and hold it with relation to the center of the shoe that the latter, pivoted at one side of its center, shall turn on the end of the post, (thrown or turned backward, as represented,) so that the periphery of the shoe when opened, as shown in Fig. 2, will fall well out toward the free end of the shoe, the edges 8 of the back-plate *c*², during the opening as well as the closing movements of the shoe, traveling in the notches *b b* of the post, the shoulders 2 2 then traveling in the elongated recesses or chambers of the back-plate at each side of the slot *c*³, the post and shoe, when moved one on the other to open the shoe, causing the passage of the post from one to nearly the opposite end of the slot *c*³. The anchor-plate *c'*, being made as a spring, acts to retain the shoe in either of its extreme positions, as represented in Figs. 1 and 2.

By constructing the post or shoe as described and shown, and supporting the shoe on the post at a point at one side of the center of the shoe and back of the center line of the main part of the post, I am enabled to use a very short post, and the periphery of the open shoe is placed sufficiently far from the under side of the button-head to enable the cuff or collar to come properly under the shoe when the latter is shut or closed.

I claim—

1. In a button or stud, a post having notches and shoulders 2 2 at its edges, turned backward at its outer end, and provided with one or more teats, combined with a shoe composed of a face-plate, a slotted back-plate having elongated recesses or chambers, and an anchor-plate provided with one or more recesses for the reception of the said teat or teats, the shoulders 2 2 traveling along in the recesses

of the back-plate as the shoe is turned on the post, substantially as described.

2. In a button, the post provided with the shoulders and with a teat, combined with the
5 face-plate, the slotted back-plate, and the spring anchor-plate, provided with a recess which receives the teat, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NELS NELSON.

Witnesses:

PHILIP DOWNEY,
TIMOTHY CAIN.