

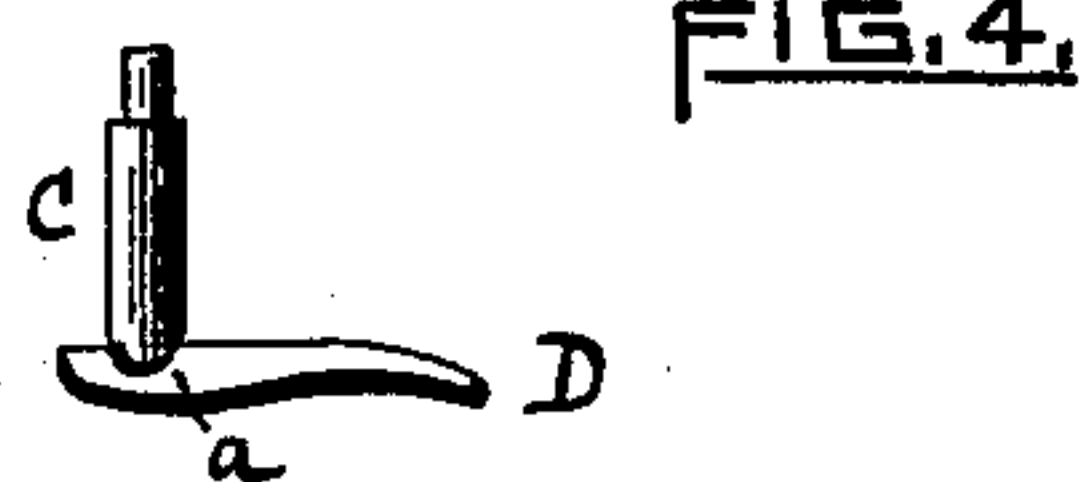
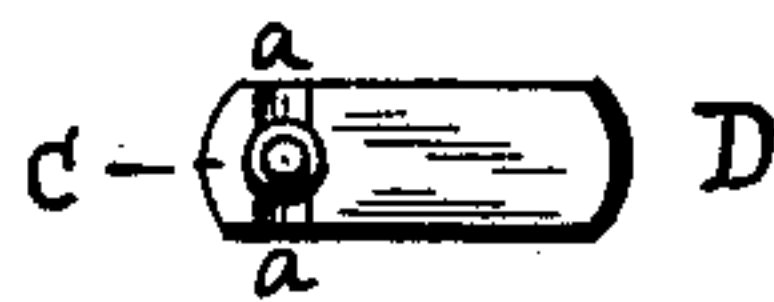
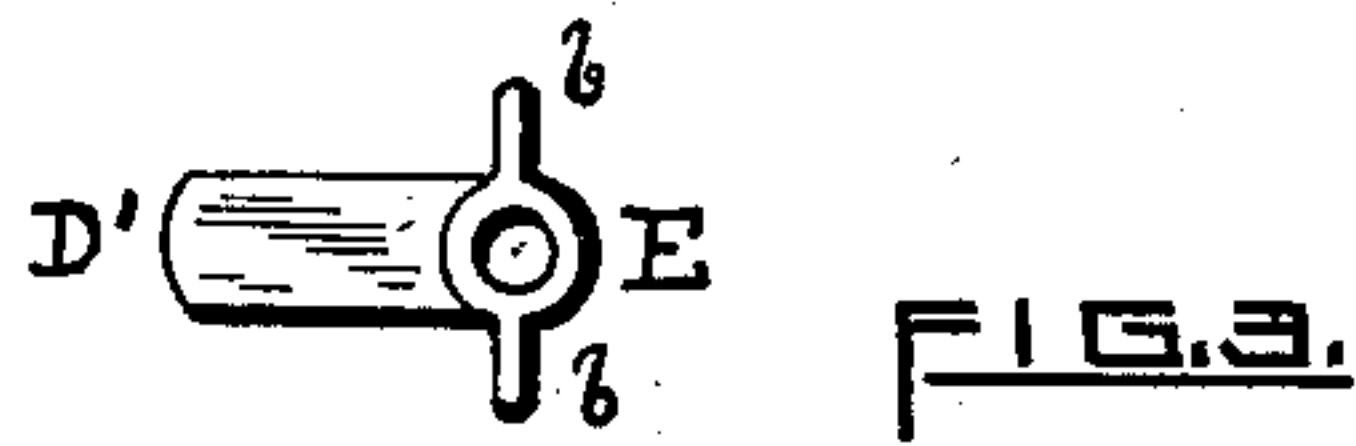
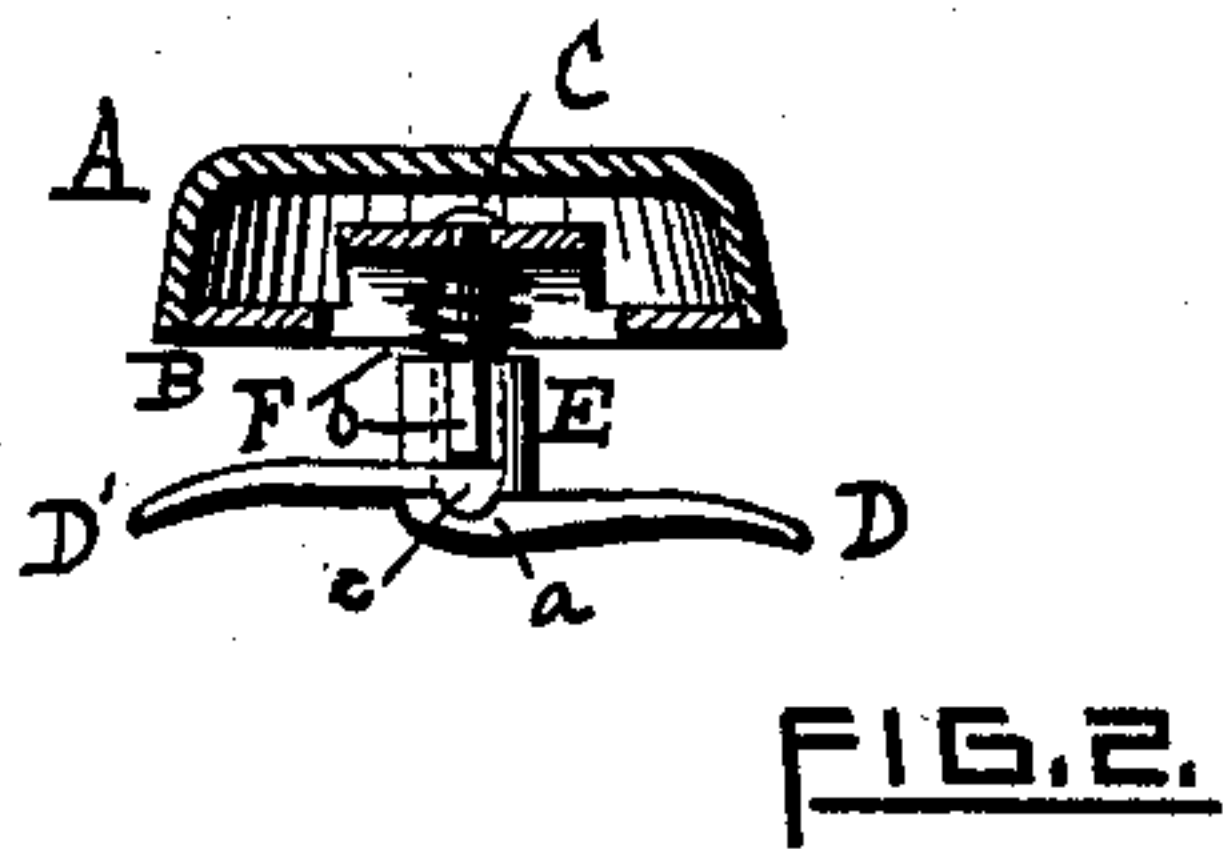
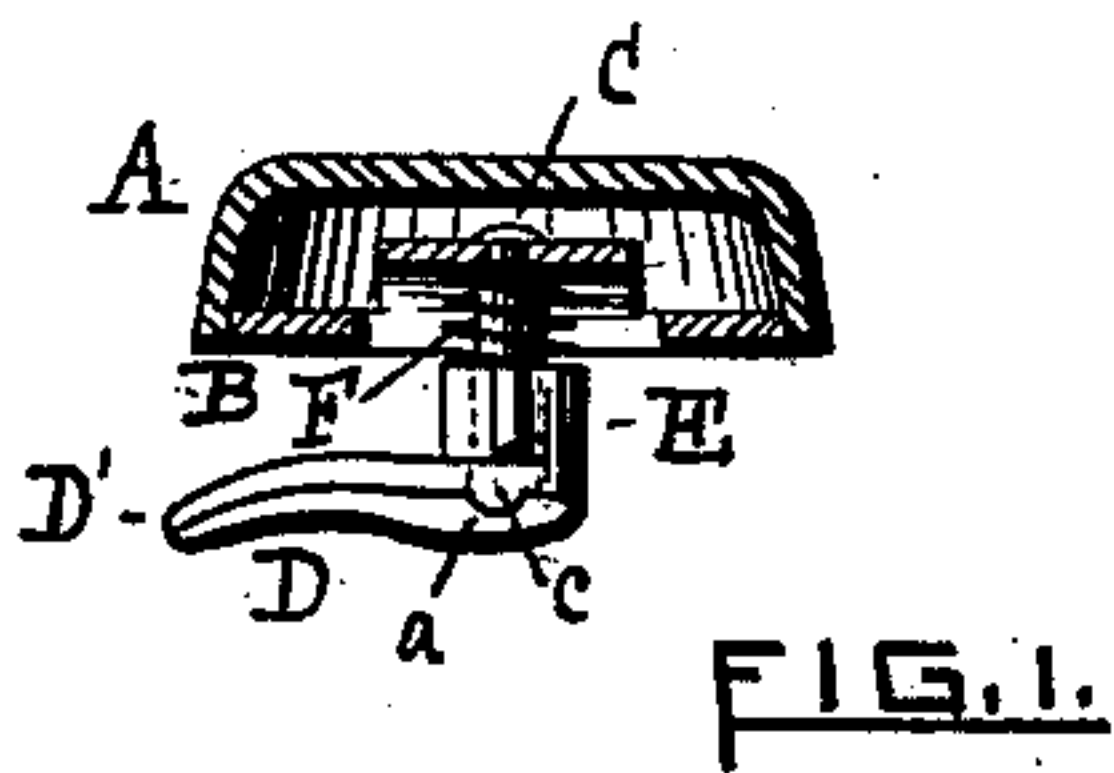
(No Model.)

F. W. RICHARDS.

SLEEVE BUTTON.

No. 362,315.

Patented May 3, 1887.



WITNESSES:

*William L. Quimby*  
*Warren R. Perce*

INVENTOR:

*Frederick W. Richards*

# UNITED STATES PATENT OFFICE.

FREDERICK W. RICHARDS, OF ATTLEBOROUGH, MASSACHUSETTS, AS-  
SIGNOR TO HENRY H. CURTIS, OF SAME PLACE.

## SLEEVE-BUTTON.

SPECIFICATION forming part of Letters Patent No. 362,315, dated May 3, 1887.

Application filed March 9, 1887. Serial No. 230,277. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK W. RICHARDS, of Attleborough, in the county of Bristol, in the State of Massachusetts, have invented a certain new and useful Improvement in Sleeve-Buttons; and I declare the following to be a specification thereof, reference being had to the accompanying drawings.

Like letters indicate like parts.

Figure 1 shows my invention, partly in side elevation and partly in vertical section, with the arms closed. Fig. 2 is the same with the arms open. Figs. 3 and 4 are detail views.

My invention is a sleeve-button in which the shoe consists of two laterally-extending arms, one being fixed upon the post of the button and the other mounted upon a rotatable tube or sleeve which surrounds the post. Said arms are locked, either when open or closed, by means of a spring-actuated engagement of the parts, as hereinafter specifically described.

In the drawings, A represents the button head or front, and B the lining-plate. The lining-plate is centrally cupped, as shown in Figs. 1 and 2. A post, C, is secured at the center of said cupped portion by riveting or otherwise. The construction of this post and its connected parts is seen in Fig. 4. It consists of a straight cylindrical post, C, having at its outer end an arm, D. The arm D has transverse grooves *a* in the plane of the post. The arm D' is integral with the sleeve or tube E. The sleeve E has flanges *b* extending from it in a plane at right angles with the arm D'. The arm D' has on its under surface two transverse lugs, *c*, located in the same plane as the flanges *b*. A spiral spring, F, surrounds the post C, and has its bearing on one side against the cupped portion of the lining-plate B and on the other side against the flanges *b* of the sleeve E.

When the button is inserted into the button-hole, the arms D D' are closed together, as seen in Fig. 1, in which position they are locked by the engagement of the lugs of the arm D' in the grooves of the arm D, by means of the pressure of the spring F. When the button has been thus inserted, the flanges *b* occupy the space within the button-hole and confine the sleeve E therein from lateral displacement. The button-head is then rotated one hundred and eighty degrees, which movement causes the post C fixed thereto to turn within the sleeve E, and carries the arm D to the position shown in Fig. 2. This turning of the button-head and post causes the lugs *c* to leave the grooves *a*, and the spring F is thereby compressed. As soon as the arms are fully extended, as seen in Fig. 2, the lugs are engaged in the grooves again by the pressure of the spring.

If the arms are made semi-tubular, they may engage with each other longitudinally by the convex surface of the one lying within the concavity of the other, and thus the lugs and grooves may be dispensed with.

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

In a sleeve-button, the combination of the lining-plate B, having a central cupped portion, the post C, fastened thereto and having the fixed arm D transversely grooved, as shown, the flanged sleeve E, having the arm D' with transverse lugs *c*, and the spiral spring F, mounted upon said post to engage said arms D D', substantially as specified.

FREDERICK W. RICHARDS.

Witnesses:

WARREN R. PERCE,  
WILLIAM L. QUIMBY.