(No Model.)

W. F. WHITING.

BUTTON.

No. 386,763. Patented July 24, 1888.

Fig. 1.

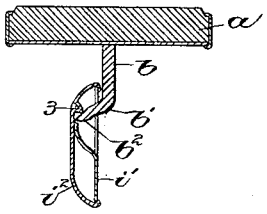


Fig. 2.

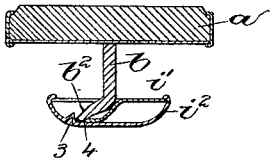


Fig. 3.

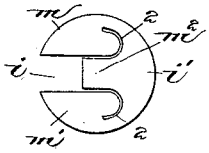


Fig. 4.

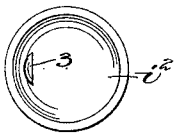
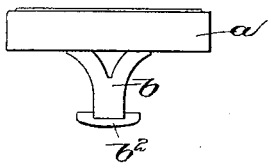


Fig. 5.



Witnesses.
Fred. S. Gleude of
John F. C. Brinkerhoff

Inventor.
William F. Whiting.
by Crosby & Gregory attys.

UNITED STATES PATENT OFFICE.

WILLIAM F. WHITING, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HIRAM HOWARD AND STEPHEN C. HOWARD, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 386,763, dated July 24, 1888.

Application filed February 2, 1888. Serial No. 262,782. (No model.)

To all whom it may concern:

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

This invention is an improvement upon the button or stud shown and described in application for Letters Patent, Serial No. 261,723, filed January 24, 1888, and has for its object to cheapen the construction as much as possible. In accordance with this invention the pivoted shoe, working upon the rocker of the post, is made of two pieces only, an external cap and a spring-plate, the latter serving as the under plate. The spring-plate is made substantially as in the said application, it presenting two spring-arms and a central yielding tongue, and the edge of the cap is turned over upon the edge of the spring-plate to secure the parts together. The cap is provided at its interior and near one edge with an abrupt projection, which serves as a stop, against which the outer edge of the rocker strikes when the shoe occupies a position parallel with the head of the button or stud, while the end of the yielding tongue of the spring-plate serves as a stop for the rocker when the shoe occupies a position in line with the post.

Figure 1 shows in vertical section a button or stud, the shoe being turned in line with the post; Fig. 2, a similar view, the shoe being in its normal position or parallel with the head; Fig. 3, a plan view of the spring-plate; Fig. 4, a plan view of the cap; and Fig. 5, a side elevation of the button, the shoe being removed to show the rocker.

The head *a*, post *b*, bent at *b'* and having at its outer end the rocker b^2, are substantially as in the application referred to. The shoe is composed of two parts, the spring-plate *i'* and the cap i^2. The spring-plate *i'* is made very similar to the corresponding plate in the application referred to, it being cut away, as at *i*, to present a space in which the post *b* works, and also slitted, as at 2, to present two yielding arms, *m m'*, and a yielding tongue, m^2, between them. The cap i^2 is concavo-convex, and of sufficient size to receive the spring-plate, that its edges may be turned over upon the plate to hold the parts together. The cap has formed upon its interior near one edge a projection, 3, preferably made by indenting the cap. This projection 3 forms an abrupt stop or shoulder, against which the outer edge of the rocker b^2 bears when the shoe is in the position shown in Fig. 2 or parallel with the head, in which position the arms of the rocker b^2 rest free beneath the spring-arms *m m'* of the plate *i'*, and the convex side or face 4 of the rocker bears on the yielding tongue m^2.

When the shoe is in the position shown in Fig. 1 or in line with the post, the outer edge of the rocker b^2 rests against the end of the tongue m^2. It will thus be seen that the tongue m^2 and stop 3 form the two stops for the rocker, which prevent the shoe slipping in one or the other direction, and the complete shoe being made in two pieces greatly cheapens the manufacture of the button or stud.

I claim—

1. In a button or stud, the head, bent post, and rocker, combined with the shoe composed of the plate, slitted as at 2, and cut away as at *i*, to present the spring-arms *m m'*, and the stop m^2 and the cap i^2, substantially as described.

2. In a button or stud, the head, bent post, and rocker, combined with the shoe composed only of the spring-armed under plate, cut away as at *i*, and the cap, substantially as described.

3. In a button or stud, the head, bent post, and rocker, combined with the shoe composed of the spring-armed under plate, *i'*, having the tongue m^2 and cut away at *i*, and the cap i^2, substantially as described.

4. In a button or stud, the head, post, and rocker, combined with the shoe composed only of the plate *i'*, having the yielding tongue m^2, and the cap i^2, having the projection 3, substantially as described.

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

WILLIAM F. WHITING.

Witnesses:

E. F. HEDLY,

J. M. CONE.