

(No Model.)

J. E. TOTTEN.  
BUTTON.

No. 375,583.

Patented Dec. 27, 1887.

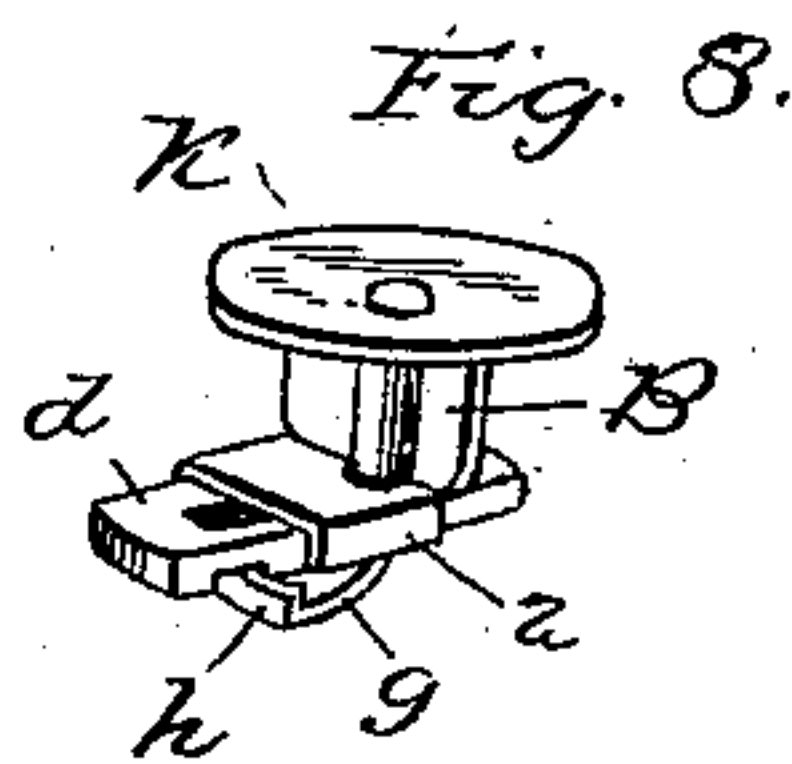
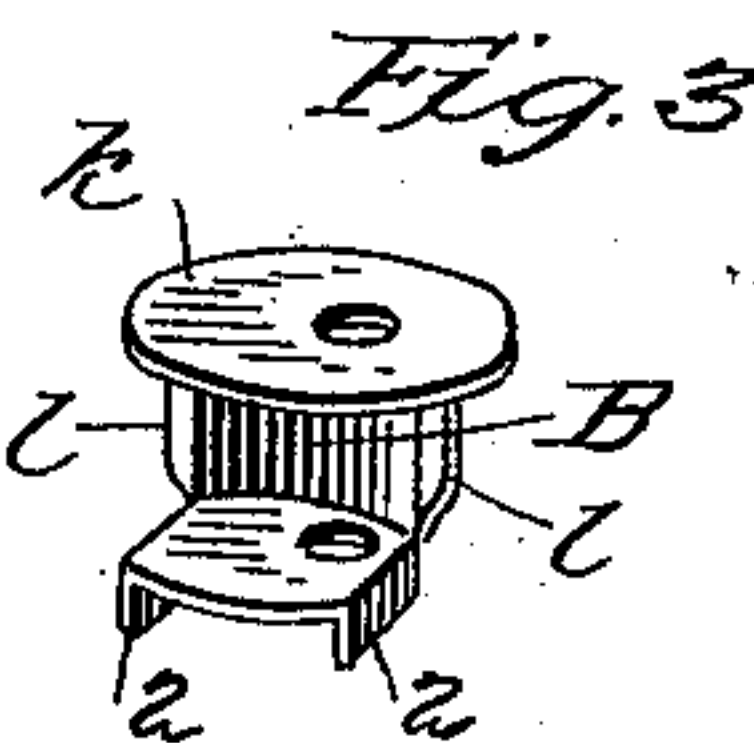
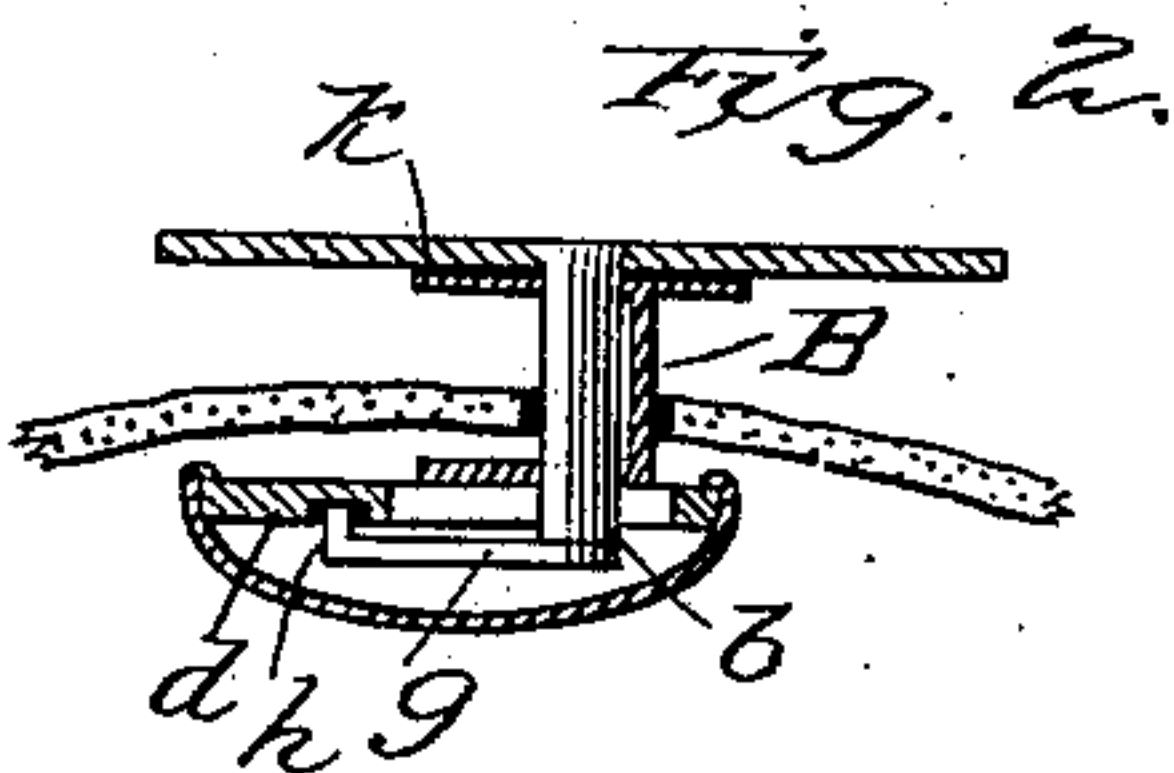
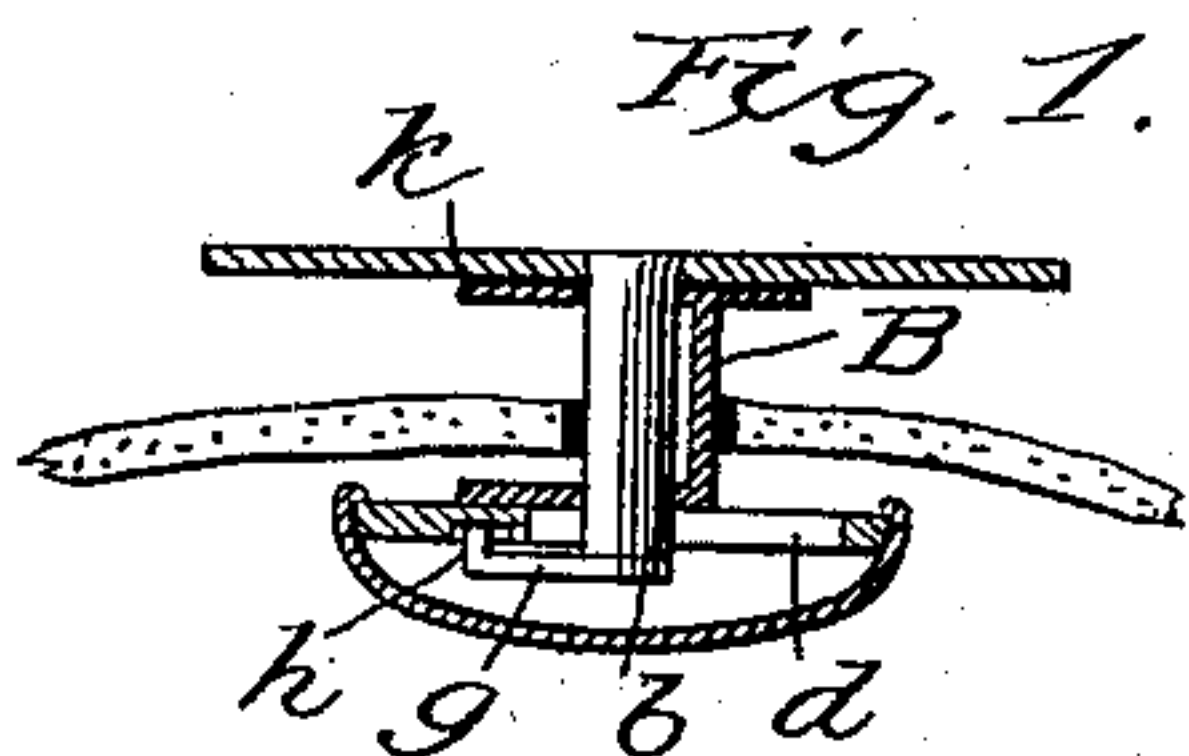


Fig. 4.

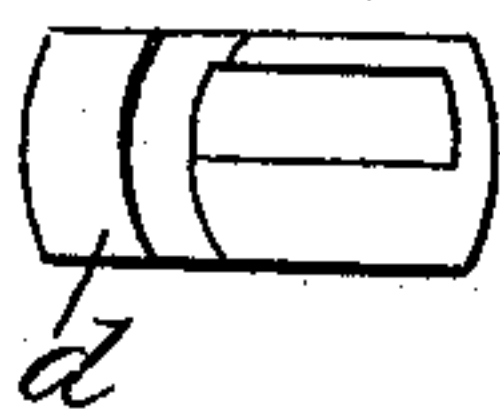


Fig. 5.

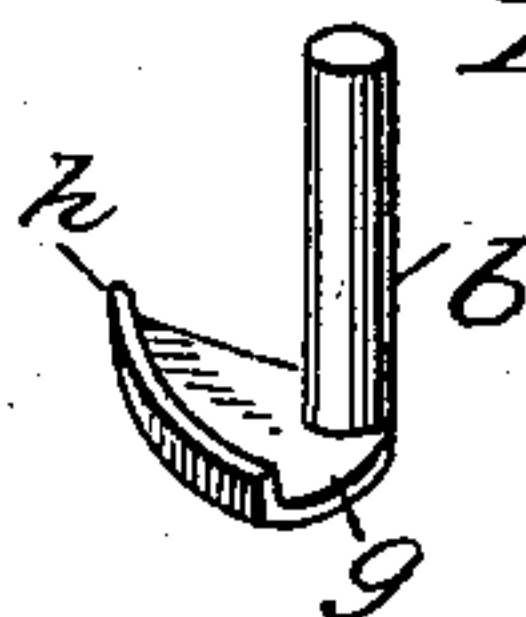


Fig. 6.

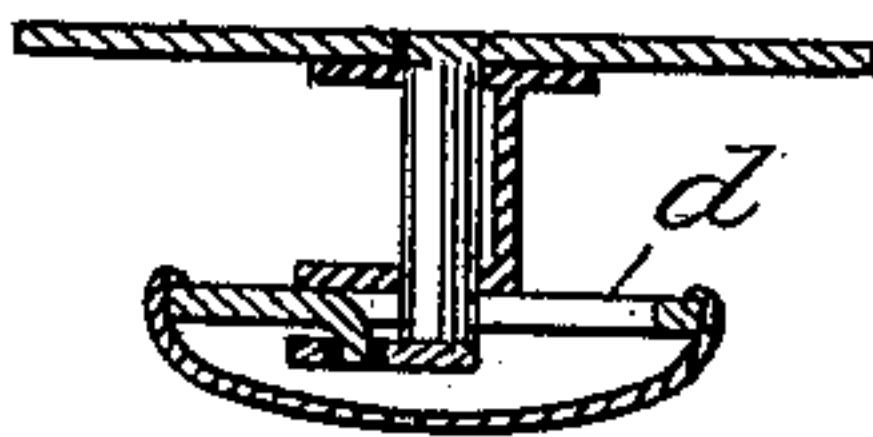
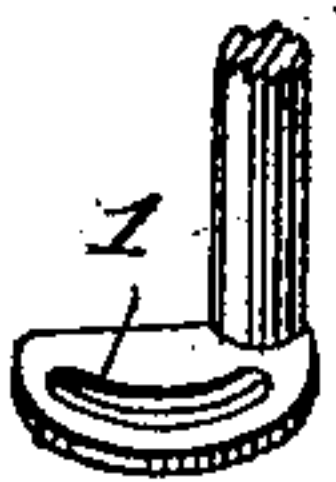


Fig. 7.



Attest:  
Mallory  
J. L. Middleton

Inventor  
John E. Totten  
by W. S. Spear  
Atty.

# UNITED STATES PATENT OFFICE.

JOHN E. TOTTEN, OF NORTH ATTLEBOROUGH, MASSACHUSETTS.

## BUTTON.

SPECIFICATION forming part of Letters Patent No. 375,583, dated December 27, 1887.

Application filed June 15, 1887. Serial No. 241,399. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN E. TOTTEN, of North Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Buttons; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to buttons, and is more particularly designed for ornamental buttons, though its use is not necessarily so limited.

It is an improvement upon the form of button shown in the patent of Freeman, No. 335,803, of February 9, 1886, in which the button-head is connected to a shoe adapted to be shifted laterally by the movement of the head, so as to change the position of the post from the center to the side of the shoe for the purpose of inserting or removing the button from the garment, and in an application filed by me May 23, 1887, Serial No. 239,098, for special devices for shifting the shoe laterally.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section. Fig. 2 is a similar view with the parts in a different position; Fig. 3, a perspective view of a detail. Figs. 4 and 5 are detail views of the cam-plate and the post with its cam. Fig. 6 is a vertical section of a modification. Fig. 7 is a detail view. Fig. 8 represents in perspective the essential operating parts in their proper relation to one another.

In this improvement, as in the original form shown in my aforesaid application, I use a flat post, B, consisting of a metal plate, the form of which is preferably curved in the center, but with straight flanges 1 1. This post at its upper or outer end has fixed a metal disk, *k*, with a hole in the center in line with the cavity or hollow of the post. The inner or lower end of the post is bent at right angles parallel with the disk or plate *k*, and guides or directs the shoe in its lateral movement, and has flanges 2 2 to embrace the edges of the plate *d*, so that the shoe is caused to move laterally when acted upon by the operating-post *b*, as hereinafter described, by means of the connection with the flat post B through the plate *d*. The plate *d* is slotted from near one end to a little past the center to receive a post, *b*, preferably made round. This carries on its lower end a cam-

plate, *g*, having a flange on its cam-edge marked *h*. This flange, when the post is inserted in its place through the slot, fits into the under face of the plate *d*, made to conform to the shape of the flange, so that as the post is turned with the flange in the groove it is moved longitudinally of the slot—that is, from mid way of the plate *d* to the end, or the reverse. When the flat post B is in its place, with its flanges 2 2 embracing the edge of the plate *d*, the post *b* passes up through the openings in the two angular extensions of the flat post B, resting in the hollow of the said post B. The upper end of the operating-post *b* is fixed to the inner plate, *h*, of the button-front, so that when the button-front is turned it turns the post and moves the cam in its groove and shifts the shoe laterally, so that the relative position of the post B is changed from the center to the end of the plate *d*, or the reverse, and thus to or from the center of the shoe. The plate *d* is held in the shoe in the usual manner. This forms a cheap and rigid connection between the shoe and post, and it is not liable to get out of order.

In Fig. 1 I have shown a modified form of the cam in which, instead of the flange working in the groove, I form a curved eccentric slot, 1, in the cam or lower end of post *b*, and the pin in the lower face of the plate *d* projects into the curved slot, so that as the post is turned it is shifted toward the end near the center of the plate, or the reverse.

The form first described is preferred; but this form is effective for the purpose, both being eccentric mechanisms for moving the post in and out.

I claim as my invention—

1. In combination, a plate, as *d*, slotted and connected to the button-shoe, a post, B, connected to the plate *d* and adapted to direct the shoe in its lateral movement, a disk or plate on the outer end of said post B, and an operating-post, *b*, passing through and turning in the plate *d*, said post *b* being fixed to the button-front at its upper end, and having upon its lower end an eccentric mechanism working in connection with the plate *d*, substantially as described.

2. In combination with the slotted plate *d*, the laterally-moving button-shoe, a post, as B, adapted to direct and guide the lateral move-



ment of the shoe through the plate *d*, the post  
*b*, turning in said plate *d* and fixed to the but-  
ton-front, and an eccentric on the lower end of  
the post having a flange, said flange engaging  
5 with the groove in the under surface of the  
plate *d*, substantially as described.

3. The combination herein described, con-  
sisting of a post, *b*, secured to the button-head,  
a laterally-moving shoe, eccentric mechanism  
10 connecting said post and shoe and operating

to give the shoe lateral movement, and a flat  
post, B, for guiding the shoe, substantially as  
described.

In testimony whereof I have signed my name  
to this specification in the presence of two sub- 15  
scribing witnesses.

JOHN E. TOTTEN.

Witnesses:

JOSEPH E. POND, Jr.,

THOMAS TOTTEN.