

(No Model.)

T. W. F. SMITTEN.  
SLEEVE OR COLLAR BUTTON.

No. 502,834.

Patented Aug. 8, 1893.

FIG. 2.

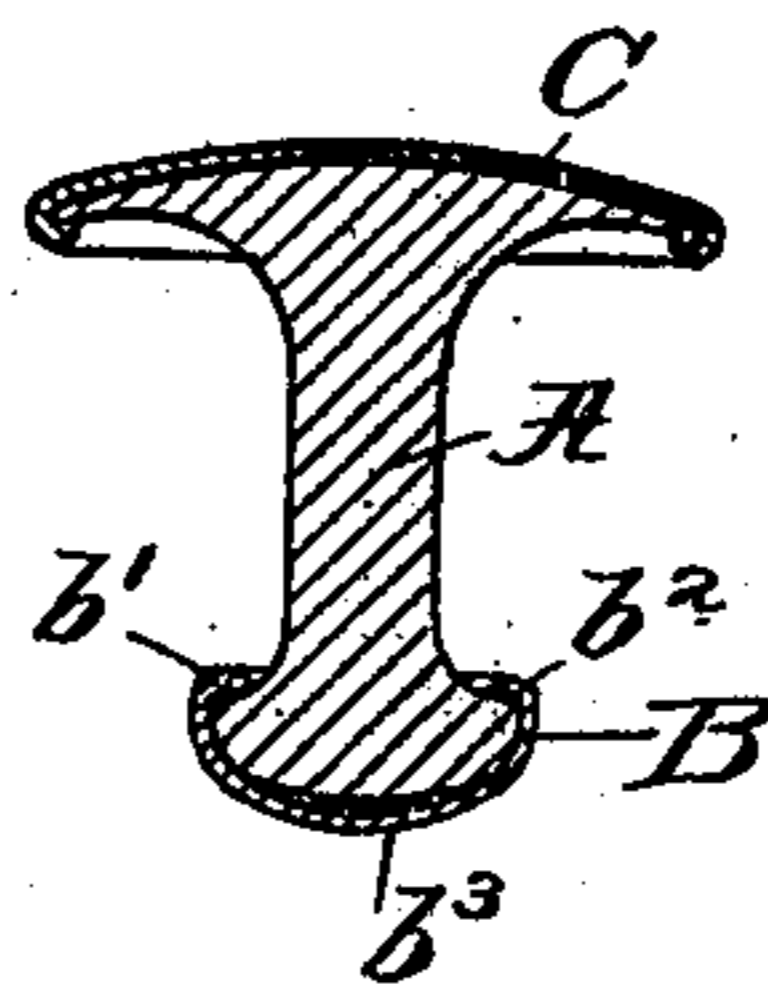
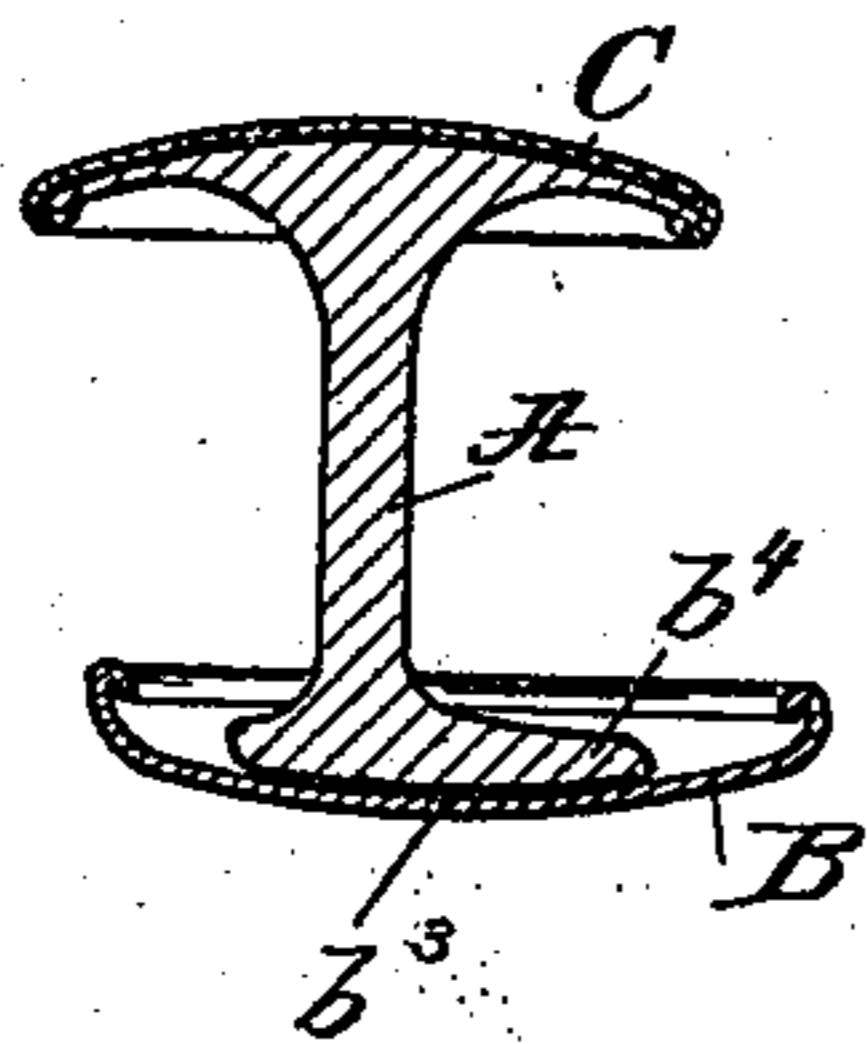


FIG. 1.



WITNESSES:

*Edward O. Rowland.*  
*John C. Lacey.*

INVENTOR

*Thomas W. F. Smitten*

BY

*Phillips Abbot*

ATTORNEY

# UNITED STATES PATENT OFFICE.

THOMAS W. F. SMITTEN, OF BROOKLYN, NEW YORK.

## SLEEVE OR COLLAR BUTTON.

SPECIFICATION forming part of Letters Patent No. 502,834, dated August 8, 1893.

Application filed November 16, 1892. Serial No. 452,114. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS W. F. SMITTEN, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sleeve or Collar Buttons, of which the following is a specification.

My invention relates to improvements in collar or sleeve buttons, studs and the like articles; and it consists in an improved construction and arrangement of the parts as hereinafter set forth.

Heretofore much difficulty has been experienced in the construction of these articles because of the lack of strength and durability, at the point between the post and the back plate. This defect has been especially noticeable in the forms of button now very popular, in which the post is eccentric to or offset from the center of the back plate, because then, the strain exerted upon the joint is very great owing to the leverage afforded by the projecting end of the back plate, due to the offset of the post on it. Consequently there has resulted, first, bending of the back plate relative to the end of the post and ultimately a fracture at that point.

By my invention, I overcome the above defects.

In the drawings, Figure 1, illustrates a longitudinal, vertical section of a collar button, embodying my invention, taken through the medial line of the button. Fig. 2, illustrates a section of the button, shown in Fig. 1, but at right angles to it.

In the drawings, A, is the post.

B, is the back plate.

C, is the head. The back plate is made concave, so that its outside edges  $b'$  and  $b^2$  are in a considerably higher plane than the bottom at  $b^3$ , and the lower part of the post is made to conform transversely to the shape of the inside or concavity of the back plate; and the post at its lower end is extended longitudinally of the back plate, somewhat in the shape of a shoe as at  $b^4$ , and the under side of this

extended part conforms also to the interior shape of the back plate, so as to fit it substantially. The upper end of the post flares out trumpet fashion and conforms to the shape of the under side of the head of the button. It will be seen that when the bottom of the post is soldered, or otherwise attached to the lowermost part of the interior of the back plate at  $b^3$ , and also at the upper edges  $b'$  and  $b^2$ , the effect is to brace the post to the extent of the difference in the two planes at which the two solderings are made, thus greatly strengthening the joint; and the extension of the post into the shoe like part  $b^4$  greatly strengthens the post and also the back plate itself, and enables the use of lighter metal in the back plate, than would be otherwise necessary.

It will be seen by a comparison of Figs. 1 and 2, that the vertical part of my post is wider transversely of the back plate than otherwise, in other words, that it is somewhat flattened. I prefer this construction, because then, the preferred alignment of the post with the button hole of the garment is secured, causing the oblong back plate to lie across the button hole.

My improvement is applicable to solid posts or hollow ones.

I claim—

A sleeve or collar button adapted to be inserted and removed from the garment at will, having an oblong and concave back plate and a post, the lower portion of which post conforms throughout the extent of the bottom of the post, both to the transverse and to the longitudinal shape of the back plate, the post and the back plate being rigidly attached together, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 14th day of November, A. D. 1892.

THOMAS W. F. SMITTEN.

Witnesses:

PHILLIPS ABBOTT,  
J. B. ABBOTT.