

D. S. SPAULDING.  
Shirt Studs or Buttons.

No. 219,371.

Patented Sept. 9, 1879.

Fig. 1.

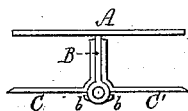


Fig. 2.

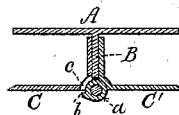


Fig. 4.

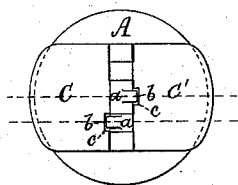


Fig. 3.

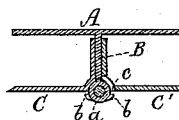


Fig. 5.

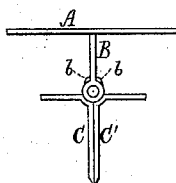
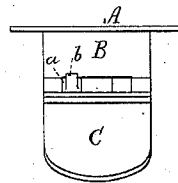


Fig. 6.



Witnesses.

*S. S. Phipps*  
*W. W. Hunt*

Inventor.

*Doliver S. Spaulding.*

by attorney

*R. H. Eddy*

# UNITED STATES PATENT OFFICE

DOLIVER S. SPAULDING, OF MANSFIELD, MASSACHUSETTS.

## IMPROVEMENT IN SHIRT STUDS OR BUTTONS.

Specification forming part of Letters Patent No. **219,371**, dated September 9, 1879; application filed June 25, 1879.

*To all whom it may concern:*

Be it known that I, DOLIVER S. SPAULDING, of Mansfield, of the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Shirt Studs or Buttons; and do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is an edge elevation, Figs. 2 and 3 transverse sections, and Fig. 4 a bottom view, of one of my improved studs or buttons, such figures being on an enlarged scale and showing the fastening-arms as turned in. Figs. 5 and 6 are edge views of the article as it appears with its fastening-arms turned out.

In such drawings, A denotes a disk or button-head provided with a plate-shank, B, extending from its back at right angles thereto, and having hinged to it at its outer end and at their elbows two bent plate-arms, C C', formed as represented. Such arms when turned in bring up against and are estopped by the opposite sides of the shank.

Each arm has extending from the hinge-tube *a* of it a small up-stop or projection, *b*, the other arm, next to where such projection is, being formed or provided with a suitable notch or opening, *c*, for the projection to pass through while the arm carrying the projection may be in the act of being turned out.

On either arm being turned out or to its extreme outward position its stop *b* will bring up against the shank, and will prevent the arm from being moved farther in the same direction or into the path of movement of the fellow arm. These up-stops thus serve to hold the arms in suitable positions for being inserted in a button-hole.

On inserting the arms in a button-hole of a garment and crowding the button sufficiently into such hole the arms will be caused to turn in or into the positions shown in Fig. 1, whereby the button, by the arms, will be held in the hole. On pulling the head of the button sufficiently away from the article containing the button-hole, the arms will be turned out and the button be separated from the article.

I make no claim to a stud or button con-

structed as shown in the United States Patent No. 87,854, in which the arms are so arranged with and hinged to the shank that when they (the said arms) are turned in they bring up against the head of the button. In my button the arms when turned in are estopped by the shank. With my construction, the parts of the button which are in the button-hole when the button is in connection with a garment can be made of less width than with a button constructed as shown in said patent, and they not only spread the button-hole less, but support the button and hold it from revolving therein to much better advantage.

My shirt-button differs materially from that shown in the United States Patent No. 201,268, in which the projections from the disk-sections when the latter are closed together rest on the end of a follower or plunger arranged within the tubular shank, and having a helical spring to force it (the said plunger) against such projections. In my button there is no such follower nor any spring thereto, the projections or up-stops *b b* of the bent arms C C' being arranged to bear against opposite sides of the shank when the arms are in positions as shown in Fig. 5. Furthermore, the bent arms, when in positions as shown in Fig. 3, not only bring up against opposite sides of the shank, but clasp such shank, which is not the case with the arms as arranged with and applied to a shank in manner as shown in the aforesaid Patent No. 87,854.

I claim, therefore, as my invention as follows:

The combination of the button head and shank with the bent arms, arranged with and hinged to the shank in manner substantially as represented, and provided with the up-stops arranged to work through openings in the arms, and to abut against the sides of the shank when the arms are in positions for being inserted in a button-hole, all being essentially as set forth.

DOLIVER S. SPAULDING.

Witnesses:

R. H. EDDY,  
W. W. LUNT.