

W. R. DUTEMPLE.  
STUDS OR BUTTONS.

No. 178,842.

Patented June 20, 1876.

Fig. 1.



Fig. 2.

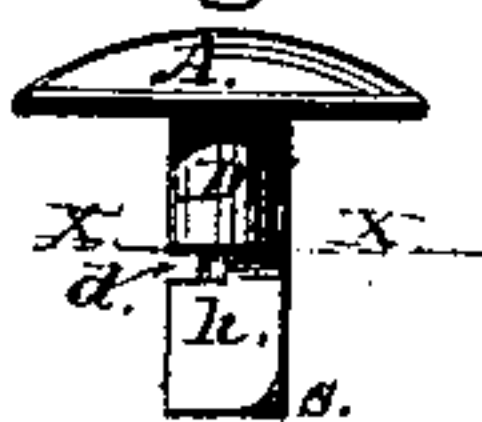


Fig. 3.

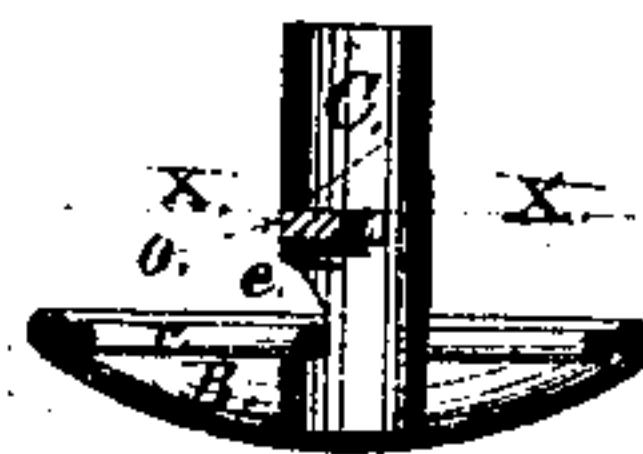


Fig. 4.

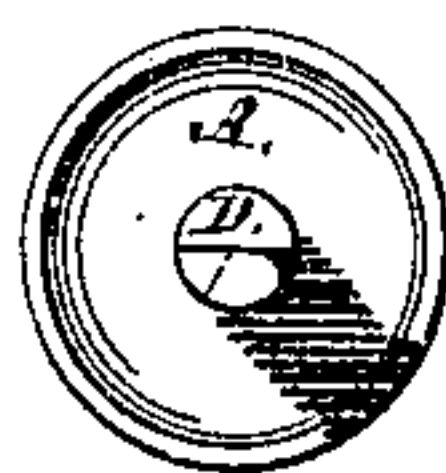


Fig. 6.

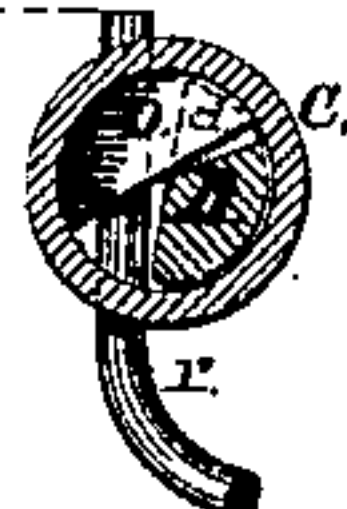


Fig. 5.

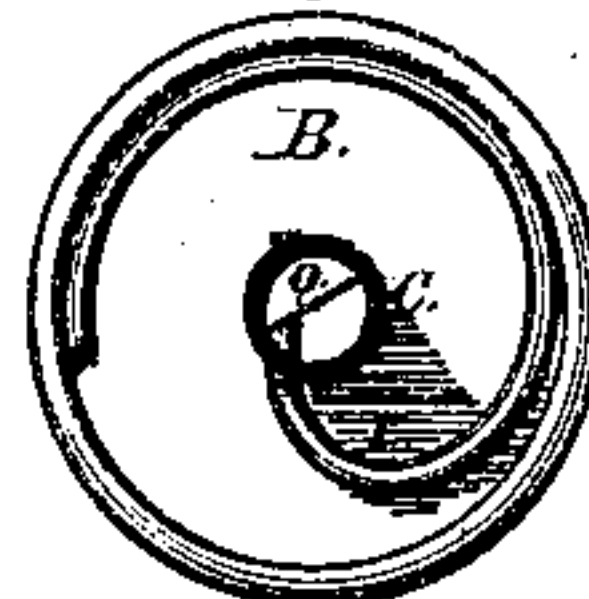


Fig. 7.



Fig. 8.



WITNESSES.

B. H. Arnold

E. J. [Signature]

INVENTOR.

W. R. Dutemple

# UNITED STATES PATENT OFFICE.

WILLIAM R. DUTEMPLE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO  
HIMSELF AND ISRAEL M. HOPKINS, OF SAME PLACE.

## IMPROVEMENT IN STUDS OR BUTTONS.

Specification forming part of Letters Patent No. 178,842, dated June 20, 1876; application filed  
May 3, 1876.

*To all whom it may concern:*

Be it known that I, WILLIAM R. DUTEMPLE, of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Studs or Buttons; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming a part of this specification.

My invention consists in the improvement of shirt buttons or studs, as hereinafter fully described, and pointed out in the claim.

In the accompanying drawing, Figure 1 represents a perspective view, with portion of back removed, of a stud or button constructed according to my improvement. Fig. 2 is the front and post. Fig. 3 is the back and section. Fig. 4 is a plan of front. Fig. 5 is a plan of back. Fig. 6 is an enlarged section on lines *x x*, showing post D locked. Fig. 7 is a section on lines *x x*, with the post D partially turned, in position for unlocking. Fig. 8 is the piece *o*.

Similar letters of reference indicate corresponding parts.

A and B are the front and back of the stud or button. D is a round post, soldered to the front A. C is a tube, soldered to the back B. The post D is cut from its surface to center, a part of its length, to form the flat *h*. *d* is a notch cut at right angles to the post D, and at an angle of about thirty degrees to the flat *h*. The corner of the post D is slightly chamfered at *s*. The post D is of the right size to fill the tube C. The half-circle piece *o*

is made the right thickness to fit easily the notch *d*. This piece is inserted and soldered in the side of the tube C, filling about one-half its diameter, at the proper place to engage the notch *d* when the button is locked. A portion of the tube C is removed at *e*, to allow the spring *r* to rest on the flat *h* of the post D when said post is in position. The spring *r* is made circular, one end resting against the tube C, the others soldered to the back B.

Insert the post D in the tube C; turn until the flat *h* passes the piece *o*; then press the front and back together; the chamfer *s* presses the spring out, allowing the post to pass, when the recoil of the spring turns the post D, thereby engaging the piece *o* with the notch *d*, which securely fastens the front and back together. Hold the back B, and turn the front A in the direction of the arrow; this will disengage the piece *o* from the notch *d*, and the post D may be withdrawn from the tube C.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The improved stud or button herein described, consisting of the front disk A, having the notched and flattened post D, and the back disk B, provided with the tube C, spring *r*, and semicircular piece *o*, the said parts adapted to be united in the manner and for the purpose specified.

WM. R. DUTEMPLE.

Witnesses:

B. H. ARNOLD,  
ED. S. HOPKINS.