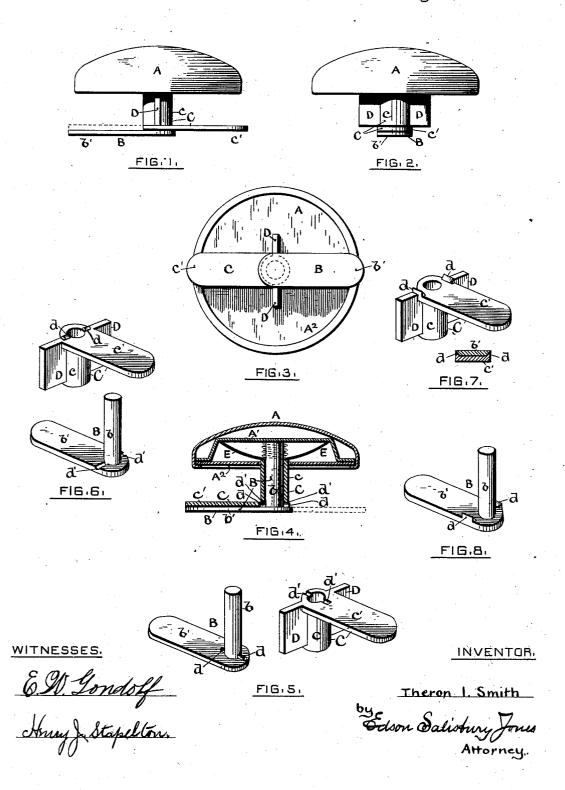
T. I. SMITH. BUTTON OR STUD.

No. 367,860.

Patented Aug. 9, 1887.



UNITED STATES PATENT OFFICE.

THERON I. SMITH, OF NORTH ATTLEBOROUGH, MASSACHUSETTS.

BUTTON OR STUD.

SPECIFICATION forming part of Letters Patent No. 367,860, dated August 9, 1887.

Application filed April 2, 1887. Serial No. 233,377. (No model.)

To all whom it may concern:

Be it known that I, THERON I. SMITH, a citizen of the United States, residing at North Attleborough, in the county of Bristol and 5 State of Massachusetts, have invented a new and useful Improvement in Buttons or Studs; and I'do hereby declare the following specification, taken in connection with the accompanying drawings, forming a part of the same, to be a description thereof.

This invention relates to that class of buttons or studs having two L-shaped arms, one of which is rigidly secured to the button or stud head, and the other provided with lateral wings, and mounted to rotate axially upon the first to bring it into a position to enable the article to be applied and removed, and also

into a position to retain the article in place.

The improvement consists in certain features
of construction and arrangement whereby the
arms may be locked relatively to each other,

as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a side view of a sleeve-button em5 bodying the improvement. Fig. 2 shows a side view at right angles to the same. Fig. 3 represents a rear view of the button. Fig. 4 shows a central vertical section of the same. Fig. 5 represents the L-shaped arms detached and in perspective, one of them being shown inverted. Fig. 6 shows a similar view of said arms with the locking lugs and notches transposed thereon. Figs. 7 and 8 show views of the arms with locking-lugs located on their edges.

A is the button-head, which may be of any

form or style desired.

B and Care the L-shaped arms which constitute the shoe and post of the button. The arm 40 B is rigidly secured to the button-head, preferably to an inner plate, A', Fig. 4. The arm C is mounted to revolve axially upon the shank b of the arm B, and its shank c is provided with rings D D, which extend laterally therefrom, and are intended to engage the button-holes of the cuff when the button is applied.

When the button is to be placed in the cuff, the arm C is turned upon its axis, so that its shoe member c' overlies the shoe member b' of the arm B, as shown by dotted lines in Fig. 1 and by full lines in Fig. 4, and the members b'

c' are passed through the button holes. The button-head is then turned so as to bring the arm b' into the position shown by full lines in Fig. 3 and dotted lines in Fig. 4, to hold the 55 button in place, the arm c being held stationary by the engagement of its wings D with the button holes. To remove the button, its head is revolved to bring the member b' under the member c', when the arms can be withdrawn. 60

For locking the arms in position, either one is furnished with a lug or lugs, and the other with a notch or notches to receive the lugs, as shown in Figs. 5 and 6; or either arm is provided with lugs at the edges of its shoe membrace the edges of the other shoe member. The arm C is arranged to slide longitudinally upon the shank b of the arm B, and a spring is employed to force the shoe members of the arms 7c toward each other, that the locking may be effected.

As shown in Figs. 4 and 5, the arm B is provided with lugs d, located at the junction of the members b b', and the arm C is furnished 75 with notches d', as shown in Fig. 5, where the arm is represented as inverted, and a spring, E, is employed (either of leaf form, as shown by full lines in Fig. 4, or of spiral form, as shown by dotted lines in said figure) to en-80 gage the member c, which projects through the back-plate A^2 , if one be employed, and force the arm C toward the shoe member b' of the arm B, thereby causing the lugs d to enter the notches d' and hold the arms locked in posi · 85 tion to retain the button in place, as well as in position for insertion and removal. The sides of the lugs or notches, or both, are preferably rounded or beveled, or so shaped that the lugs may pass out of the notches when the arms are 90 turned, the arm Csliding longitudinally on the shank b, to allow of such disengagement. desired, the lugs d may be located upon the arm C, and the notches d' upon the arm B, as shown in Fig. 6.

Although I prefer to use two lugs, d, as shown, one of them may be omitted, as is obvious, and one of the notches may also be omitted if the arms are not to be locked in position for insertion. In place also of employing lugs and notches arranged as shown in Figs. 5 and 6, lugs alone may be used to

lock the arms in position, such lugs being located on the member c', as shown in Fig. 7, and adapted to embrace the edges of the member b', as shown in sectional view in said figure; or the lugs d may be arranged on the edges of the member b', as shown in Fig. 8, so as to embrace the member c'.

What I claim as my invention, and desire to

secure by Letters Patent, is-

1. A button or stud having two L-shaped arms, one of which is rigidly secured to the head and the other mounted to rotate axially and to slide longitudinally upon the shank of the first arm, and furnished with lateral wings,
 15 as described, the said arms being provided with a locking lug or lugs and a notch or notches, as described, and a spring engaging the sliding arm, whereby the lugs and notches may

be pressed into engagement to lock the arms relatively to each other, substantially as set 20 forth.

2. The combination, with the head of a button or stud, of an L-shaped arm, B, rigidly secured thereto, and provided with a locking lug or lugs, d, an L-shaped arm, C, mounted to 25 rotate axially and slide longitudinally on the arm B, and having lateral wings D and a notch or notches, d', and a spring, E, engaging the arm C and pressing said lugs and notches toward each other that the arms may be locked, 30 substantially as set forth.

THERON I. SMITH.

Witnesses:

C. E. STANLEY, E. A. CRAWFORD.