V. C. Arnold.

Button.

Patented Jul. 16. 1861.

No. 1.812.

32816

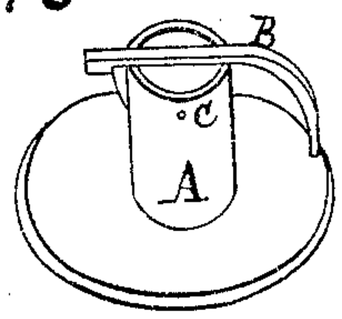

Fig. 1.

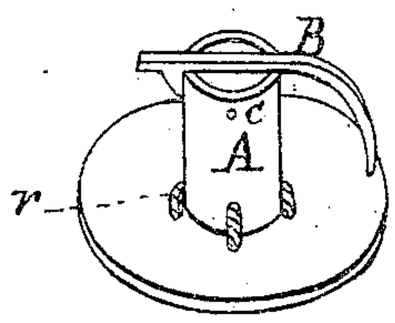

Fig. 2

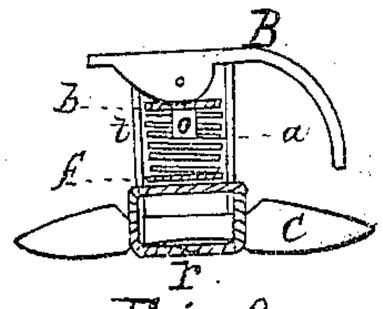

Fig. 3

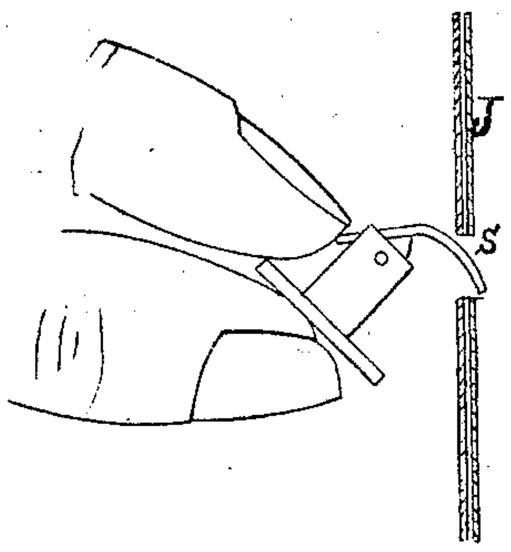

Fig. 4.

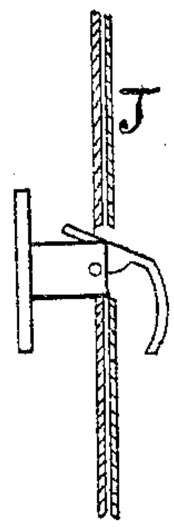

Fig. 5.

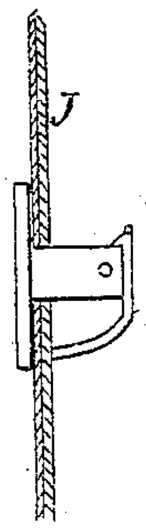

Fig. 6.

Witnesses.

Rosbrook Harvey Justice Peace

C D Harvey

Inventor

Varnum G. Arnold.

UNITED STATES PATENT OFFICE.

VARNUM G. ARNOLD, OF PROVIDENCE, RHODE ISLAND.

STUD AND BUTTON FASTENING.

Specification of Letters Patent No. 32,816, dated July 16, 1861.

To all whom it may concern:

Be it known that I, VARNUM G. ARNOLD, of Providence, in the county of Providence, in the State of Rhode Island, have invented a new and Improved Shirt Stud and Button Fastening; and I do hereby declare that the following is a full and correct description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, the same letters in all the figures denoting similar parts.

In these drawings which are mainly on an enlarged scale, Figure 1 is a perspective view of the fastening attached to a head. Fig. 2 is a perspective view of the same attached to a button. Fig. 3 is a section of the fastening attached to a button; taken through lengthwise of the hollow stem or barrel, in the direction of the lever. Fig. 4 shows the manner of holding the stud between the thumb and forefinger for the purpose of inserting it into the garment. Fig. 5 is 2nd position of inserting the stud. Fig. 6 shows how the bent arm of the lever holds the stud up close in front of the garment.

To construct my improved fastening, make a hollow stem or barrel A of tubing, and cut a slot *t* (Fig. 3) in one side, extending from one end down about one half the length of the barrel A. A lever B is put in the same end of the barrel A and moves upon a pivot *c* which is fastened in the barrel. The short end of this lever lies in the slot cut in the barrel, while the long arm is curved down toward the head of the stud. A spiral spring *a* (Fig. 3ª) is placed in the barrel and upon this spring is a cap *b* with a center pin *o* extending down inside of the spring (see Fig. 3) the object of which is to keep the end of the spring in place, and to give a proper bearing for the lever B to work upon when it depresses the spring. That part of the lever B which bears upon the spring cap *b* is formed in a cam shape (see Fig. 3) by making the hole in it for the pivot *c* eccentric to the curve of that part of the lever that comes within the end of the barrel; this cam shape, is made for the purpose of depressing the spring when the short end of the lever is pressed in and enables the spring to bring the lever back to place when released.

When the fastening is intended to be attached to a pearl, or other button there are four holes (or more, or less, so as to correspond with the holes in the button) made near the end of the barrel opposite to that in which the lever is, by means of which (see Figs. 2 and 3) it can be sewed to the button C the red lines *r* representing the thread; this enables anyone who prefers a button to the metal headed stud, to have them separate from the article of dress for the sake of convenience, or preservation while the garment is being washed and ironed. It can also be used to great advantage for attaching buttons to coats &c. where the strain upon the button is liable to damage the cloth when sewed on in the ordinary manner, that is, fastened only to the outer thickness of cloth, to avoid the unsightly appearance of the thread upon the facing of the coat, when sewed clear through; but by using this fastening upon the button, and having an eyelet hole worked in the coat the strain upon the button is thrown upon all the thicknesses of material of which the garment may be made.

The barrel A may be made with a flange projecting from the lower end for the purpose of fastening it to the button, by having holes in it, instead of having them as already described, but the plan shown in the drawings affords the best facilities for sewing, as the needle can pass directly through the barrel which is furnished with a washer *f* (see Fig. 3) at the bottom of the spiral spring *a* to keep the spring in place.

The curve of the long arm of lever B is made for the purpose of holding the head of the stud (or button) up close to the dress, in front, which gives a much neater appearance to the article; at the same time allowing of a longer barrel, which gives room for a more durable and efficient spring, and also for the thread that fastens it to a button.

The manner of using a stud, or button, with this fastening, will be readily understood by reference to Fig. 4, which shows how it can be taken between the thumb and forefinger, the short end of the lever B being depressed by the latter, so as to raise the curved arm far enough to enter the eyelet hole in the garment J, and when it is in the position shown in Fig. 5 it can be easily pressed into place as seen in Fig. 6 which also shows how the long arm of lever pressing upon the under side of the garment holds the head up close in front.

Having thus described my invention what

I claim and desire to secure by Letters Patent is—

1. The combination of the lever B spring *a* with the barrel A substantially as described and for the purpose herein set forth.

2. A stud or button fastening made with holes substantially as described, for the purpose of being attached to a button; as a new article of manufacture.

VARNUM G. ARNOLD.

Witnesses:
RESOLVED HARVEY,
C. D. HARVEY.