D. Howarth,

Button.

No. 54549. Patented May 8. 1866.

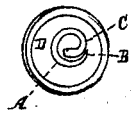

FIG. 1.

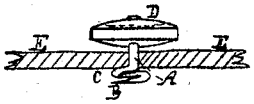

FIG. 2.

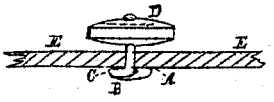

FIG. 3.

Witnesses -
William H. Clifford
Hiram N. Gay

David Howarth

UNITED STATES PATENT OFFICE.

DAVID HOWARTH, OF PORTLAND, MAINE.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. **54,549**, dated May 8, 1866.

To all whom it may concern:

Be it known that I, DAVID HOWARTH, of Portland, in the county of Cumberland and State of Maine, have invented a new and useful Improvement in the Method of Securing Buttons to Garments; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use my invention, reference being made to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents the method by which my invention is employed to secure a button to garments; Fig. 2, when not secured to the cloth; Fig. 3, a side view of Fig. 1, with a section of a piece of cloth into which the wire is inserted.

The object of my invention is to produce a means of retaining buttons upon garments in which the button can be more readily secured to and more easily detached from the cloth than by the methods now in use.

It consists of a spiral wire connected with a button, said wire being intended to be pressed down flat on the inner side of the garment, so as to form a ring to hold the button. By pressing the point of the wire against the cloth and turning the button between the thumb and finger the point of the wire is made to penetrate and pass through the cloth. The wire is then struck or pressed down flat, so as to form a ring, as in Fig. 3 at B, and thus hold the button firmly in its place.

This contrivance can be easily attached to any button by the same or other equivalent means, as the ordinary loop or eye.

The advantage of my invention consists in enabling the button to be quickly and easily secured to the garment and to be easily removed by simply raising the point of the wire after it is pressed down on the cloth and twisting it out by the same motion with which it was inserted.

My device consists in attaching to any button a spiral wire sufficiently long to penetrate the cloth to which the button is to be affixed. When the wire is inserted and pressed down flat, as heretofore described, any strain upon the button tending to draw it outward bears upon the cloth around the whole circumference of the ring so formed. Thus the attachment of the button is rendered quite secure.

In the accompanying drawings, B, Figs. 2 and 3, illustrates the two positions of the spiral.

I do not claim constructing the shanks of shirt-studs and of buttons of three parts—first, one at right angles to the face of the button, then one at right angles to this, and, lastly, one in the form of a helix—the three parts being formed out of one piece of wire, and being either with a point, without one, or having a knob at the lower end; but

What I do claim, and desire to secure by Letters Patent, is—

As an improvement upon B. P. Coston's invention, patented August 27, 1850, the spiral wire connected with a button, when said piece of wire, after insertion into the cloth, is struck or pressed down flat on the inner side of the cloth, all substantially as and for the purpose set forth.

DAVID HOWARTH.

Witnesses:

WILLIAM H. CLIFFORD,

HANNA W. GAGE.