(No Model.)

J. P. HICKEY.

BUTTON FASTENER.

No. 415,459. Patented Nov. 19, 1889.

Fig. 1.

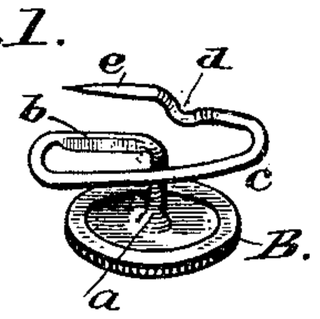


Fig. 2.

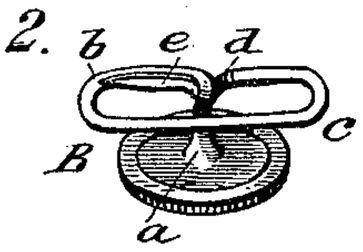


Fig. 3.

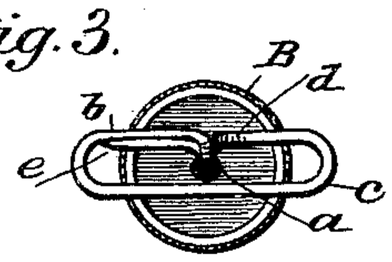
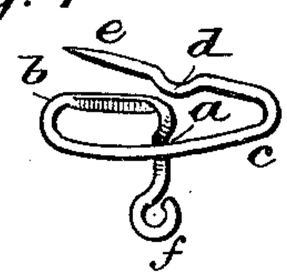


Fig. 4



WITNESSES:

Fred G. Dieterich

Edw. W. Byrn.

INVENTOR

John P. Hickey

BY Munn & Co

ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN P. HICKEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 415,459, dated November 19, 1889.

Application filed April 23, 1889. Serial No. 308,335. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. HICKEY, of Washington, in the District of Columbia, have invented a new and useful Improvement in Button-Fasteners, of which the following is a specification.

My invention is in the nature of an improvement in button-fasteners, designed especially for fastening buttons to trousers and other garments, but applicable also to general use for securing all kinds of buttons in various applications of the same.

It consists in the peculiar construction of the shank, which is adapted to carry the button-head or button proper at one end, and at the other end is bent into a peculiar shape, adapting it to be passed through the fabric or other material and be locked thereto, as will be hereinafter fully described.

Figure 1 is a perspective view of a button provided with my fastener in open position, ready to be inserted in the material. Fig. 2 is a similar view showing the fastener closed. Fig. 3 is a plan view of the fastener, also showing it closed; and Fig. 4 is a perspective view of the fastener open, and having a shank adapted to be detachably connected to the button.

In the drawings, *a b c d e* represent the shank and fastener, all made of one piece of spring-wire, and preferably of brass. This shank may be permanently attached to the button B, as shown in Figs. 1, 2, 3, or it may be formed with an eye *f*, as in Fig. 4, to be subsequently attached to a button-head; or any other means for connecting the shank to the button or button-head may be employed. The section of wire from which the shank and fastener is made is preferably of a little greater thickness at the shank part *a*, and is then twisted or offset slightly, as in Fig. 3, and then bent at right angles to form the section *b*. This section is flattened in a plane at right angles to the button, and the wire is then bent around at *c* to form an oblong or elliptical loop lying parallel with the button, and near its end is provided with a sharp bend or depression at *d*, and from this point to the end tapers to form a pin-point *e*. The elasticity of this spring-fastener causes its point *e* to stand a little above the section *b* when unlocked, so that when the bend *d* is seated under offset between shank *a* and section *b*, and the point *e* comes inside of section *b*, the tension of the spring will keep these parts locked in that position, as shown in Fig. 3.

To secure the fastener to the garment or goods to which the button is to be attached, the point *e* is passed through the goods after the manner of a safety-pin, and a revolution given to the button to cause the goods to pass along the bend of the fastener and rest upon the shank *a*. The pointed end of the fastener is then depressed until the bend *d* drops under the offset at the top of the shank, and the point *e* locks inside of the flattened section *b*. The button is now firmly attached to the goods, and has a broad bearing against the same on the inside that firmly holds the button without tearing the fabric.

This fastener permits the button to be quickly applied to or removed from the garment without needle and thread, and being made in one piece of wire is of simple construction and low cost. It may be adjusted to a new position without defacing the goods where taken off, and is of great convenience generally. The end *e* need not necessarily be pointed, as any sharp-pointed instrument can make the hole in the goods necessary to receive the fastener.

I am aware that a button has been provided with a shank made of wire bent in the form of a safety-pin and adapted to be fastened to the cloth like a safety-pin, with the plane of the loop of the pin at right angles to the cloth. In my invention the loop all lies upon one side of the cloth and is parallel to it and the button, and is invisible from the side of the cloth upon which the button is fastened.

Having thus described my invention, what I claim as new is—

The button provided with the fastener herein described, consisting of a single piece of spring-wire forming the shank of the button, then offset and bent around to form a

loop and locking-pin lying parallel to both the button and the cloth, the said pin being bent at *d* and arranged to lock beneath and inside the portion of the loop which is offset from the shank, substantially as shown and described.

The above specification of my invention signed by me in the presence of two subscribing witnesses.

JOHN P. HICKEY.

Witnesses:
CHAS. A. PETTIT,
EDW. W. BYRN.