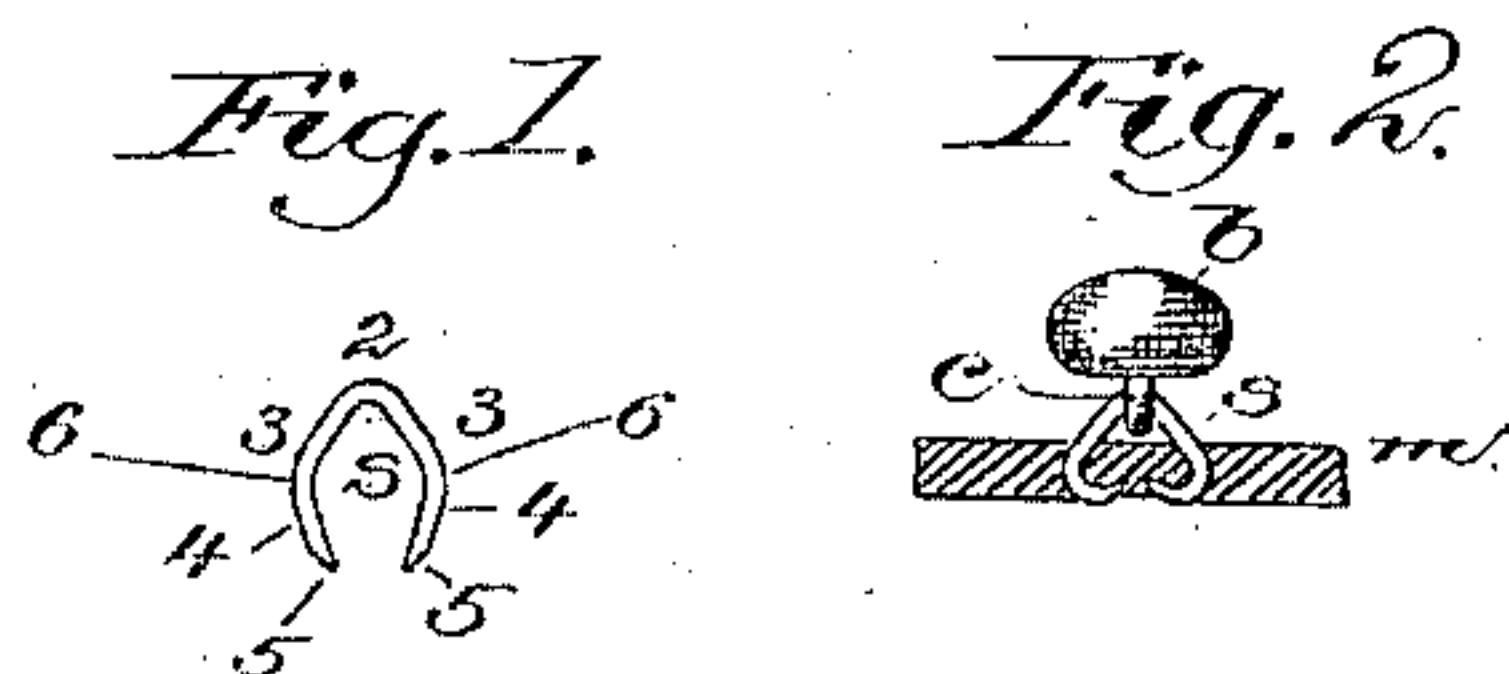


(No Model.)

E. O. ELY.
BUTTON FASTENER.

No. 312,986.

Patented Feb. 24, 1885.



Witnesses,
John F. C. Prinkert
Arthur Lippert.

Inventor,
Edward O. Ely.
by Crosby & Gregory attys.

UNITED STATES PATENT OFFICE.

EDWARD O. ELY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE PENINSULAR NOVELTY COMPANY, OF GRAND RAPIDS, MICHIGAN.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 312,986, dated February 24, 1885.

Application filed September 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD O. ELY, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Button-Fasteners, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to that class of button-fasteners having two prongs, thus constituting a staple.

Wire staples for attaching buttons as heretofore made have had semicircular crowns and parallel legs, and have been turned both inward and outward when clinched at the inner side of the material, and the inwardly-turned prongs have been made to lap one part over the other.

In my efforts to provide a strong fastener, one easily applied, and taking up but little space at the inner side of the material, I have produced a staple-like fastener, the legs of which have a preliminary inward bend at the point which is to define the size of the head and staple-eye above the upper side of the material, the ends of the legs being beveled inwardly, which, in connection with the preliminary bend referred to, insures the positive inward turning of the legs of the staple for defined and equal distances, the ends or points of the fastener being turned upward into the material nearly end to end, as will be described.

Figure 1 in elevation represents a fastener made in accordance with my invention, and Fig. 2 shows one of my improved fasteners as holding a button in place.

The staple *s* is made from wire, either round or flat, bent at its center to form a crown, 2, a V-shaped head part, 3, and legs 4, the said legs being inwardly beveled at 5 5, and having a preliminary inward bend, as at 6, between the legs and the head portions.

The fastener, inserted through the eye *c* of the button *b*, is driven into the material *m*, and passing through the same the ends or points of the legs strike an anvil-die, such

as described in an application, Serial No. 142,625, filed by me concurrently with this, to which reference may be had, and, meeting the said die, the points commence to slide toward each other, and the staple bends at the point where the preliminary bends 6 6 fall, and the legs, from the preliminary bends downward to their points, are curled inward and upward, their ends being made to enter the under side of the material end to end in the same line substantially as in Fig. 2, where it will be noticed that the points of the legs lie in the same line and are turned in the material, so that the stocking or other fibrous article or flesh cannot catch under either point.

Clinching the legs, as shown and described, throws the strain of the buttons on the material in the line of the center of the fastener, and leaves a large head above the material to receive the eye of the button, the latter moving loosely in the eye of the head, the size of the eye in the head and the distance which the head shall project beyond the face of the material in which it is inserted depending upon the position of the preliminary bends 6 6.

The V-shaped head and central crown enable the button-eye to move freely on the head of the staple.

I claim—

The herein-described button-fastener, composed of a staple having a crown, 2, and a V-shaped head, 3, and legs 4, the fastener having preliminary inward bends at 6, the points of the legs being inwardly beveled to insure the inward turning of the legs, while the preliminary bends insure like and measured bends in the legs and determine the size of the eye in the head of the fastener, all substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD O. ELY.

Witnesses:

G. W. GREGORY,
B. J. NOYES.