(No Model.)

E. J. KRAETZER.

FASTENER FOR GLOVES, &c.

No. 381,935. Patented May 1, 1888.

FIG. 5.

FIG. 6.

FIG. 7.

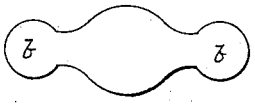

FIG. 1.

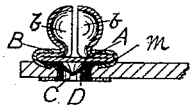

FIG. 12.

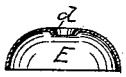

FIG. 8.

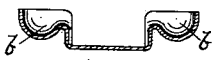

FIG. 2.

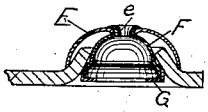

FIG. 13.

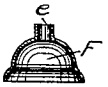

FIG. 9.

FIG. 3.

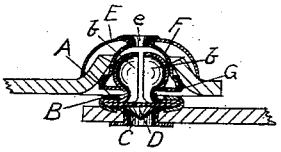

FIG. 14.

FIG. 10.

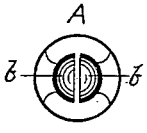

FIG. 4.

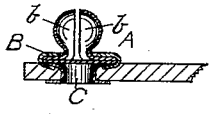

FIG. 15.

FIG. 11.

WITNESSES.
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UNITED STATES PATENT OFFICE.

EDWIN J. KRAETZER, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE INTERNATIONAL FASTENING COMPANY, OF PORTLAND, MAINE.

FASTENER FOR GLOVES, &c.

SPECIFICATION forming part of Letters Patent No. 381,935, dated May 1, 1888.

Application filed November 28, 1887. Serial No. 256,309. (No model.)

To all whom it may concern:

Be it known that I, EDWIN J. KRAETZER, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Fasteners, of which the following is a specification.

My invention consists of an improved fastener for gloves and other articles, consisting of an inflexible or rigid button-hole member and a flexible or resilient button member, the details of which are as hereinafter described.

Of the drawings accompanying, Figures 1, 2, and 3 show different stages in the construction of the flexible stud from the blank, Fig. 1 being a plan view of the blank, Fig. 2 a longitudinal section of the stud partially struck up, and Fig. 3 a side elevation of the stud, of which Fig. 4 is a plan view. Fig. 5 shows in section the flanged eyelet. Fig. 6 represents the metal nipple used in upsetting said eyelet. Fig. 7 is a sectional view of the collet; Figs. 8 and 9, similar views of the cover and cup, respectively. Fig. 10 shows in section the flanged lip, of which Fig. 11 is a plan view. Fig. 12 is a sectional view of the complete button member, Fig. 13 of the socket or button-hole member, and Fig. 14 of the complete fastening. Fig. 15 represents the button member without the metal nipple shown in Fig. 6.

The flexible stud A of the button member of my improved fastener is preferably struck up from a plain metal blank of a similar shape to that shown in Fig. 1. Fig. 2 shows the stud partially formed, and Figs. 3 and 4 represent the complete stud. The head of the stud is somewhat spherical and is formed of the two approximately-hemispherical spring-ears *b b*, hollowed out from the plain blank and formed as shown in the drawings. A collet, B, Fig. 7, is made with a central hole, *a*, of sufficient size to slip over the flexible stud A when the two spring portions *b b* are pressed together. A metal nipple, D, Fig. 6, is then placed with its flat face *h* against the bottom of the circular flange of the stud A, and the collet B is partially rounded over the outside edges of the nipple D.

The flanged eyelet C, Fig. 5, is next inserted through a hole in the fabric to which the stud is to be attached, the flange of the eyelet being on the under side of the fabric opposite the stud. The edge *m* of the vertical portion of the eyelet is next rounded out under the lower rounded edge of the collet B between it and the flange of the stud, as shown in Fig. 12, the nipple D tending by its conical shape to properly effect this operation when pressure is suitably applied, and at the same time the rounded-in under flange of the collet B is pressed firmly against the rounded-out portion of the eyelet C, thus securely fastening the stud in place. The collet B serves not only to fasten the stud to the fabric, but also to hold the spring-ears *b b* firmly in position. The under side of the flanged base of the stud A is smooth and whole, thereby rendering it possible to round out the upper vertical portion, *m*, of the stud without the aid of the metal nipple D. Fig. 15 shows a stud so secured to the fabric. I preferably use the nipple, however.

The button-hole member of my improved fastener I make in three pieces, consisting of the cover E, the cup F, and the flanged lip G. The cup F is somewhat bell-shaped, as shown in Fig. 9, and is provided at its top with an upwardly-projecting tubular portion, *e*, of sufficient diameter to fit easily into an opening, *d*, in the top of the dome-shaped cover E. The flanged lip G fits over the bottom of the cup F, the upper vertical portion being pressed in, so as to bite around the flaring mouth of the cup, and is thus secured to it, giving it great strength at a point which is constantly in use. The diameter of the inside of the lip-flange is such that the head of the flexible stud A may be pressed into it when the ears *b b* are sprung together, the cup F being of sufficient size to easily contain the head of the stud therein. The button-hole member is secured to the fabric by introducing the tubular portion *e* of the cup F through a hole in the fabric, then passing it through the hole *d* in the cover E and rounding it out over the top of the said cover E, the metal around the hole *d* being preferably slightly depressed, as shown in Fig. 8. The fabric thus lies between the dome-shaped cover E on the one side and the cup F on the other.

The operation of the fastener is as follows: The button-hole or socket member (illustrated in Fig. 13) being pressed down upon the but-

ton or stud member, (shown in Fig. 12,) the spring portions *b b* of the flexible stud are forced together, reducing the size of the stud sufficiently to enable it to pass into the flanged lip G at the bottom of the cup F, the said stud resuming its natural size inside the cup F and being held therein by the flanged lip G, which embraces the neck of the stud. To unfasten the clasp, the socket member is lifted off the button member, the spring-ears *b b* yielding readily to the pressure, so as to slip through the flanged lip.

I claim—

1. A button member consisting of a flexible struck-up flanged stud, A, having two spring-ears, *b b*, and a flat unbroken base, in combination with a collet, B, embracing said base, and a flanged eyelet, C, whereby the eyelet is rounded out against the base of the stud and under the rounded-in edge of the collet, all arranged as and for the purposes substantially as described.

2. An inflexible socket consisting of the combination of a flaring bell-shaped cup, F, and a flanged lip, G, whose upper portion is pressed around the flaring mouth of said cup, substantially as and for the purposes described.

3. In a fastener, an inflexible button-hole member consisting of a dome-shaped cover, E, having a central opening, a flaring bell-shaped cup, F, having an upwardly-projecting tubular portion, *e*, and a flanged lip, G, whose upper portion is pressed around the flaring mouth of said cup, substantially as described.

In witness whereof I have hereunto set my hand.

EDWIN J. KRAETZER.

Witnesses:

WM. B. H. DOWSE,

ALBERT E. LEACH.