

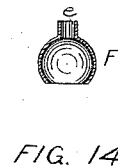
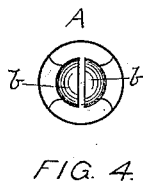
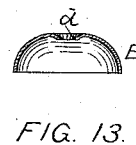
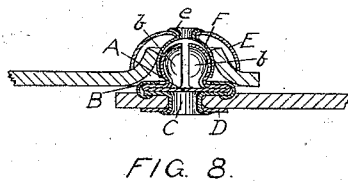
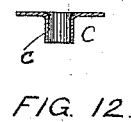
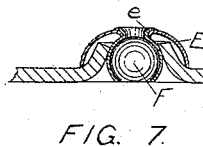
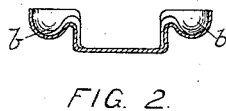
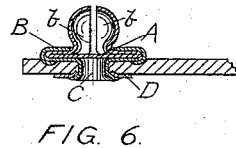
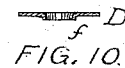
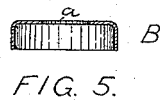
(No Model.)

E. J. KRAETZER.

GLOVE FASTENER.

No. 382,366.

Patented May 8, 1888.



WITNESSES.

Albert E. Leach -  
W. H. Thompson.

INVENTOR.

Edwin J. Kraetzer  
By his Attorney.  
J. R. H. Downer

# UNITED STATES PATENT OFFICE.

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

## GLOVE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 382,366, dated May 8, 1888.

Application filed November 28, 1887. Serial No. 256,308. (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 in which the button member is a flexible stud and the button-hole member is rigid and inflexible.

Figure 1 is a plan view of the blank from which is struck up the stud; Fig. 2, a longitudinal section through the center of the blank when partially struck up. Figs. 3 and 4 are views of the stud; Fig. 5, a sectional view of the collet; Fig. 6, a section of the complete button member attached to the fabric; Fig. 7, a similar view of the complete button-hole member; Fig. 8, a sectional view of the two members fastened together; Fig. 9, a view looking up from the bottom of the cup shown in section in Fig. 14; Figs. 10 and 11, sectional and plan views, respectively, of the washer used in the button member. Fig. 12 shows in section the eyelet also used in that member. Figs. 13 and 14 are sections through the cover and cup, respectively, of the button-hole member.

The stud A of my improved fastener is preferably struck up from a plain metal blank of a shape similar to that shown in Fig. 1. The outside ears, *b b*, of this blank are then hollowed and the blank bent up, as in Fig. 2. The hollowed portions *b b* are then bent down, forming the flexible stud A, the two spring-ears *b b* forming a somewhat spherical head and the central portion of the blank a complete circular flange below the neck, the circular flange being thus integral with the flexible head. A collet, B, Fig. 5, 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. The complete circular flange of the stud as struck up from the blank thus furnishes a perfect bearing for the collet B, in the inside of which it closely fits, thus insuring strength and convenience of manufacture. An eyelet, C, made as in Fig. 12, is then placed with its flange against the bottom of the flange of the stud A, and the collet B closed down and rounded over the flange of the eyelet, thus

not only securing the stud A and eyelet C firmly together, but also holding the spring portions *b b* in position. The downward-projecting vertical portion *c* of the eyelet C is pushed through a hole in the cloth or fabric to which the fastener is secured, and through the hole in the washer D, Figs. 10 and 11, having the central portion thereof preferably struck up slightly, as at *f*. The eyelet C is then rounded over the washer D into the said struck-up portion *f*, thus securing the stud firmly to the fabric, as shown in Fig. 6, and insuring at the same time smoothness on the under side of the button member.

The button-hole member consists of a dome-shaped cover, E, provided with a central hole, *d*, and a cup, F, provided at its top with a straight upwardly-projecting tubular portion, *e*, of a diameter to fit easily into the said opening *d* in the cover E. This cup is rounded in at its bottom to a diameter just sufficient to admit the flexible stud therein when the spring portions *b b* are pressed together. The straight portion *e* is introduced through a hole in the cloth or fabric, to which is secured the button-hole member, passed up through the hole *d* in the cover E, and is rounded out over the top of the said cover E, the metal around the hole *d* being preferably slightly depressed, as in Fig. 13. The socket or button-hole member is thus firmly held in place on the fabric. The largest inside diameter of the cup F is preferably somewhat greater than that of the flexible stud A in its normal position, so as to contain the stud within it.

The operation of the fastener is as follows: The button-hole or socket member illustrated in Fig. 7 being pressed down upon the button or stud member shown in Fig. 6, 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 contracted mouth of the cup F, the said stud resuming its natural size inside the cup F, and being held therein by the said contracted mouth of the cup F, which embraces the neck of the stud. The edge of the contracted mouth of the cup F bites into the neck of the stud when the fastener is in operation, making a very positive connection between the stud and cup when the strain is in the plane of the fabric. To un-

fasten the clasp, the button-hole or socket member is raised from the button member, thereby forcing together the spring portions *b b* of the stud and releasing the button member therefrom.

I claim—

1. A flexible button member consisting of a struck-up stud, A, provided with spring-ears *b b* and having a flat unbroken base, in combination with a collet, B, embracing the base, a flanged eyelet, C, and a washer, D, substantially as and for the purposes described.

2. An inflexible button-hole member consisting of a cover, E, secured upon the upper side of the fabric and having a central opening, in combination with a cup, F, secured on the under side of the fabric, provided with an upwardly-projecting tubular portion, *e*, and having an inflexible contracted smooth circu-

lar mouth, whereby a flexible button member only may be inserted and held therein, substantially as described.

3. A flexible button member consisting of the spring-eared stud A, the collet B, the eyelet C, and the washer D, having the annular central edge, *f*, substantially as described.

4. In a fastener, an inflexible button-hole member consisting of a cover and a rounded cup, in combination with a flexible button member consisting of a spring-eared stud, an eyelet, a collet, and a washer, substantially as and for the purposes described.

In witness whereof I have hereunto set my hand.

EDWIN J. KRAETZER.

Witnesses:

WM. B. H. DOWSE,  
ALBERT E. LEACH.