(No Model.)

E. IVINS.

BUTTON FASTENER.

No. 329,744. Patented Nov. 3, 1885.

FIG. 1.

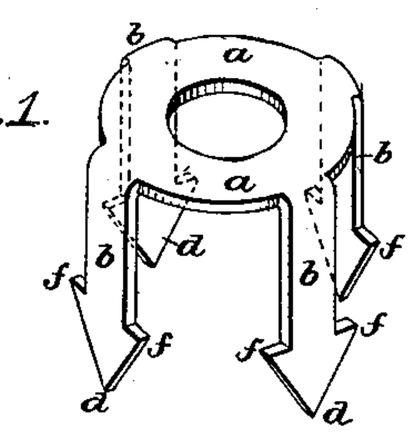


FIG. 2

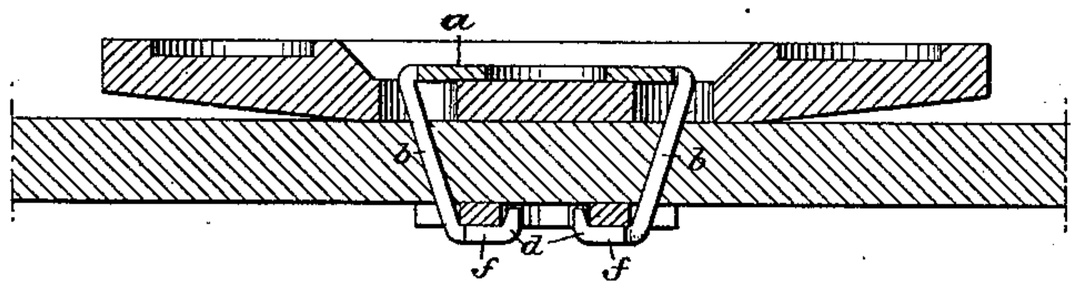


FIG. 3.

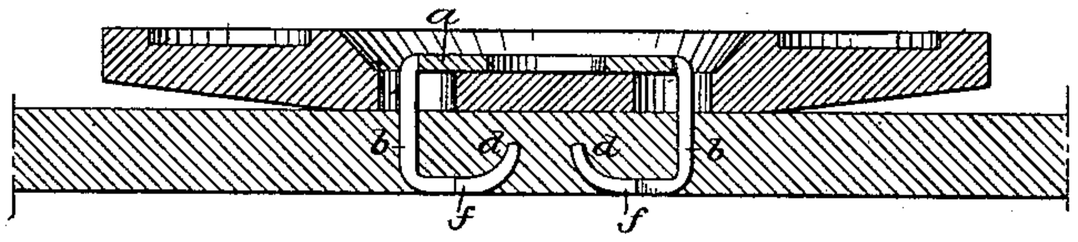


FIG. 6.

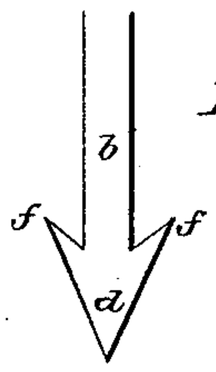


FIG. 5.

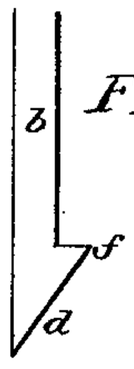
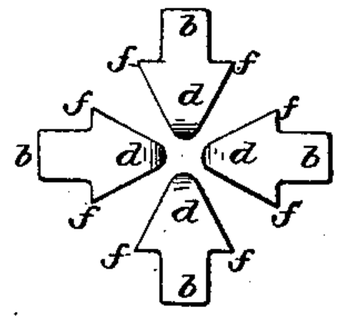


FIG. 4.



Witnesses:
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N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ELLWOOD IVINS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE PATENT BUTTON COMPANY, OF WATERBURY, CONNECTICUT.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 329,744, dated November 3, 1885.

Application filed December 15, 1884. Serial No. 150,384. (No model.)

To all whom it may concern:

Be it known that I, ELLWOOD IVINS, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Button-Fasteners, of which the following is a specification.

The object of my invention is to provide a staple for firmly securing buttons to garments, and this object I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is an exaggerated perspective view of my improved button-fastener; Fig. 2, a sectional view showing one way of using the fastener; Fig. 3, a sectional view showing another plan of using it; Fig. 4, an inverted plan view of Fig. 3; and Figs. 5 and 6 views showing modifications.

The fastener is similar to that described in my Letters Patent No. 309,785, dated December 23, 1884; and it consists of a plate or ring, *a*, made of thin sheet-brass or other flexible but inelastic metal, and having four stems, *b b*, arranged to be passed through the four holes of a button, each stem terminating in a spear-head, *d*, presenting two abrupt shoulders, *f f*, or the head may have but two or three stems, and each stem may have the termination shown in Fig. 5, so as to present one abrupt shoulder, or it may terminate in a barbed point, as shown in Fig. 6.

This fastener may be used in combination with a notched or recessed retaining ring or plate, as described in my before-mentioned patent, and as shown in Fig. 2, or said retaining ring or plate may be dispensed with, and the fastener alone relied upon to secure the button, the spear-heads, after being passed through the fabric, being bent and struck down at the back of the same. When the fastener is thus used, the spear-heads are sunk into the fabric and the abrupt shoulders become barbs, which, by catching against the threads of the fabric, effectually resist efforts to detach the button.

The spear-headed prongs of my improved fastener must remain in the condition to which they have been bent; hence the prongs, while flexible, must be inelastic, and in this respect my improved fastener differs from those in which the spear-headed prongs are elastic and hold a button by the engagement of the spear-heads with said button.

I claim as my invention—

A button-fastener in which are combined a head, *a*, and two or more downwardly-projecting prongs, *b*, with abruptly-shouldered spear-heads, the whole being made of flexible but inelastic sheet metal, as set forth.

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

ELLWOOD IVINS.

Witnesses:

HARRY DRURY,

HARRY SMITH.