

(No Model.)

I. J. SAUNDERS.  
FASTENER FOR SHOES, &c.

No. 282,571.

Patented Aug. 7, 1883.

Fig. 1.

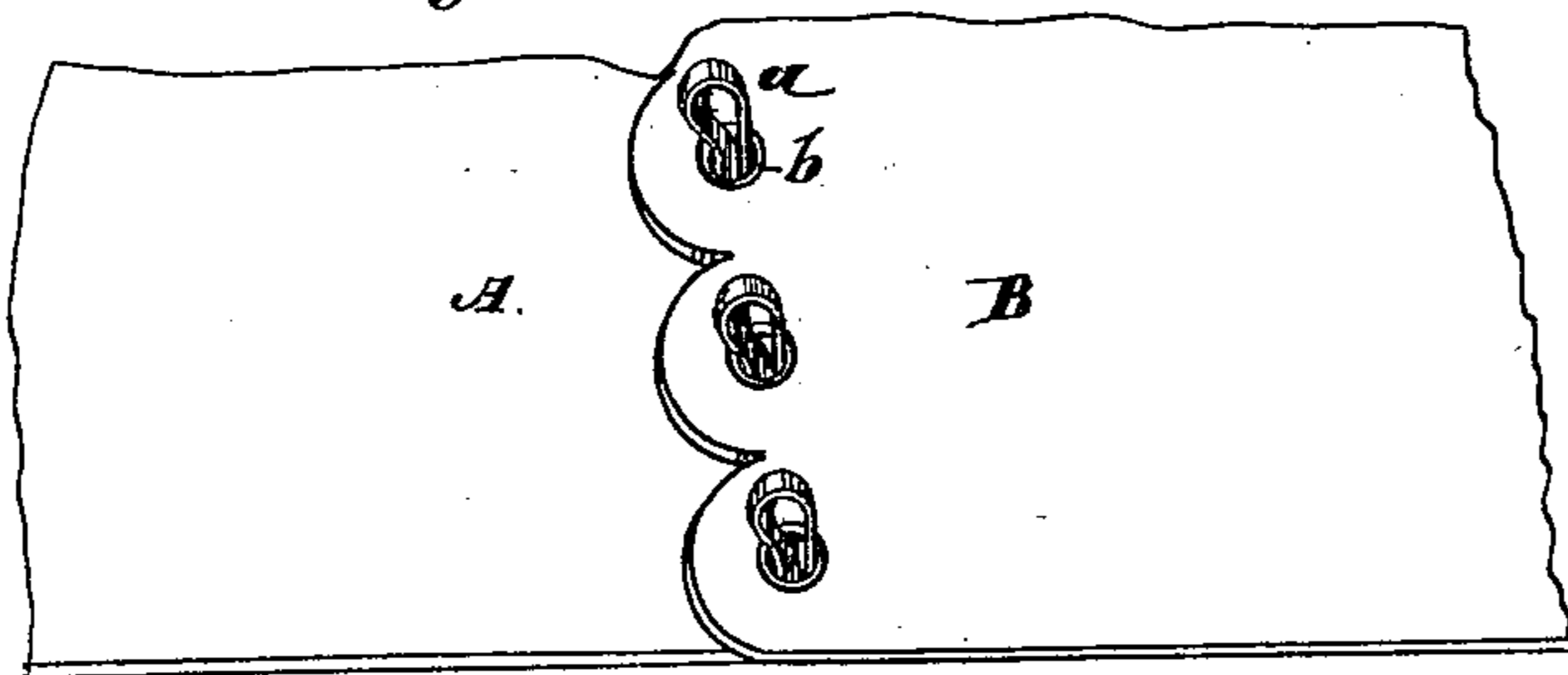


Fig. 2.

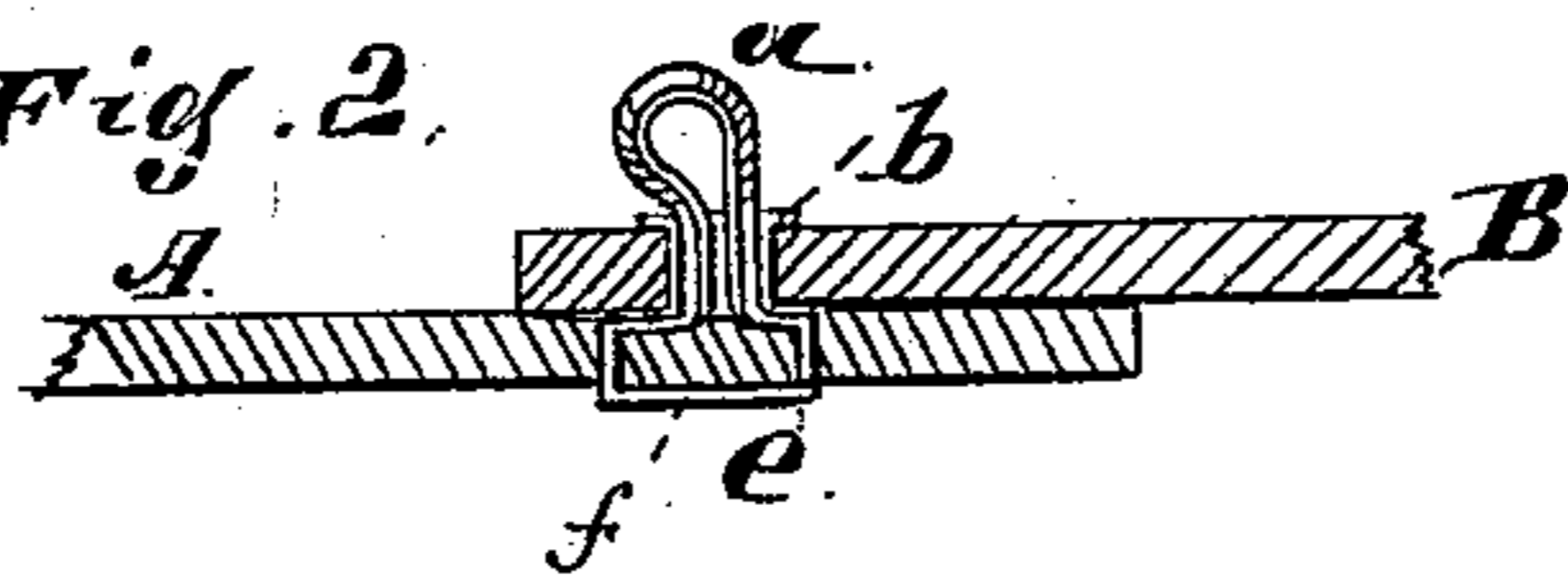


Fig. 3.

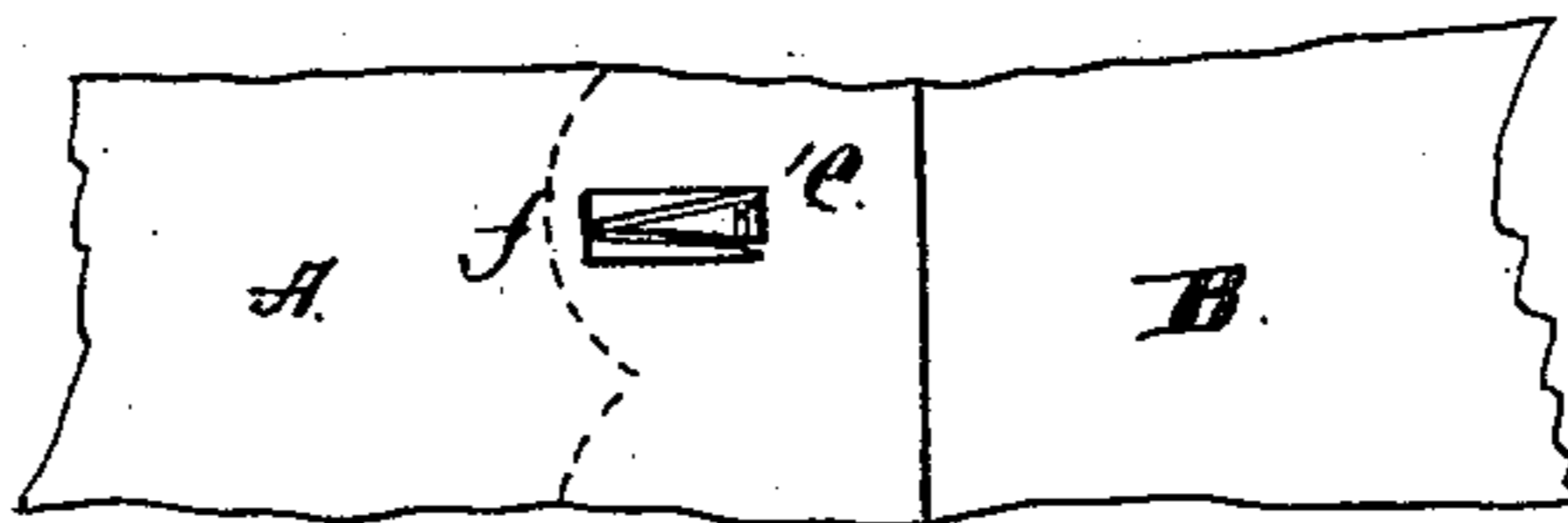


Fig. 4.



Fig. 5.



Witnesses:  
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Inventor:  
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# UNITED STATES PATENT OFFICE.

IRA J. SAUNDERS, OF UNION CITY, MICHIGAN.

## FASTENER FOR SHOES, &c.

SPECIFICATION forming part of Letters Patent No. 282,571, dated August 7, 1883.

Application filed April 4, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, IRA J. SAUNDERS, residing at Union City, in the county of Branch and State of Michigan, and a citizen of the United States, have invented a new and useful Improvement in Fasteners for Shoes, &c., of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of two pieces of material fastened together by my improved fastener; Fig. 2, a sectional elevation of the two pieces of material; Fig. 3, an under view of the two pieces of material, showing one of my improved fasteners applied; Fig. 4, a side view, and Fig. 5 a perspective view, of my improved fastener detached.

The object of this invention is to improve the construction and application of the fastener heretofore patented to me; and its nature consists in providing the spring-fasteners with shoulders for spreading the points, combined with points adapted to pass through the material and make an even and smooth-clinch on the under side, as hereinafter more fully described.

In the drawings, A represents a piece of material to which the fastener is permanently attached; B, a section of the connecting-piece; *a*, the spring-fastener; *b*, eyelet in the section B; *c*, a projection of the spring-catch; *d*, shoulders, and *e f* sharp points for penetrating and passing through the material and clinching on the opposite side.

The spring-fastener *a* is cut from sheet metal by a suitable die, and is formed in the shape shown at Figs. 4 and 5—that is to say, that the spring-locking part is formed with a projection or catch, *c*, for holding the eyelet or material in place with the shoulders *d*, which not only spread the points apart, so as to make them clinch more material, but the shoulders *d* also form a rest or metallic support for the eyelet *b*, which prevents the eyelets from wearing or abrading the material. The points *f* are double, as shown, and are shorter than the point *e*.

The fastener is pressed through the fabric by a suitable tool, which clinches it on the other side, turning the points toward each other, the point *e* passing between the points *f*, as shown in Fig. 3, thus making a smooth under metallic surface where the clinch occurs, and the applying of one side of the clinch upon the other is by this method of forming the points avoided. In applying this fastening no hole or cut in the fabric is required, as it can be applied from the upper surface, and the yielding of the material will be sufficient for the spring action of the fastening without the cutting away of any portion of the fabric or material, even when applied to shoe-leather, thus making a neat fastening, having its spring, at the bottom, easily applied and strongly attached.

This fastening, while mainly designed to be applied to shoes, is equally well adapted, by making it lighter in form, to gloves and to other articles of wearing apparel for which this method of fastening is applicable. A single point, *f*, adapted to fold at the side of *e* in clinching, may be used in place of the two shown.

I do not claim the method or system of fastening the parts A B together, as such method or system has been heretofore shown by me in Patent No. 244,675; but

What I claim as new, and desire to secure by Letters Patent, is as follows:

As an article of manufacture, the spring-fastener herein described, consisting of a piece of metal doubled and bent to form the locking projection *c*, the laterally-projecting shoulders *d*, and the clinching-points *e* and *f*, said shoulders spreading the points at a distance from each other, and also serving as a rest for the eyelet which engages the locking projection, substantially as described.

IRA J. SAUNDERS.

Witnesses:

ALBERT H. ADAMS,  
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