

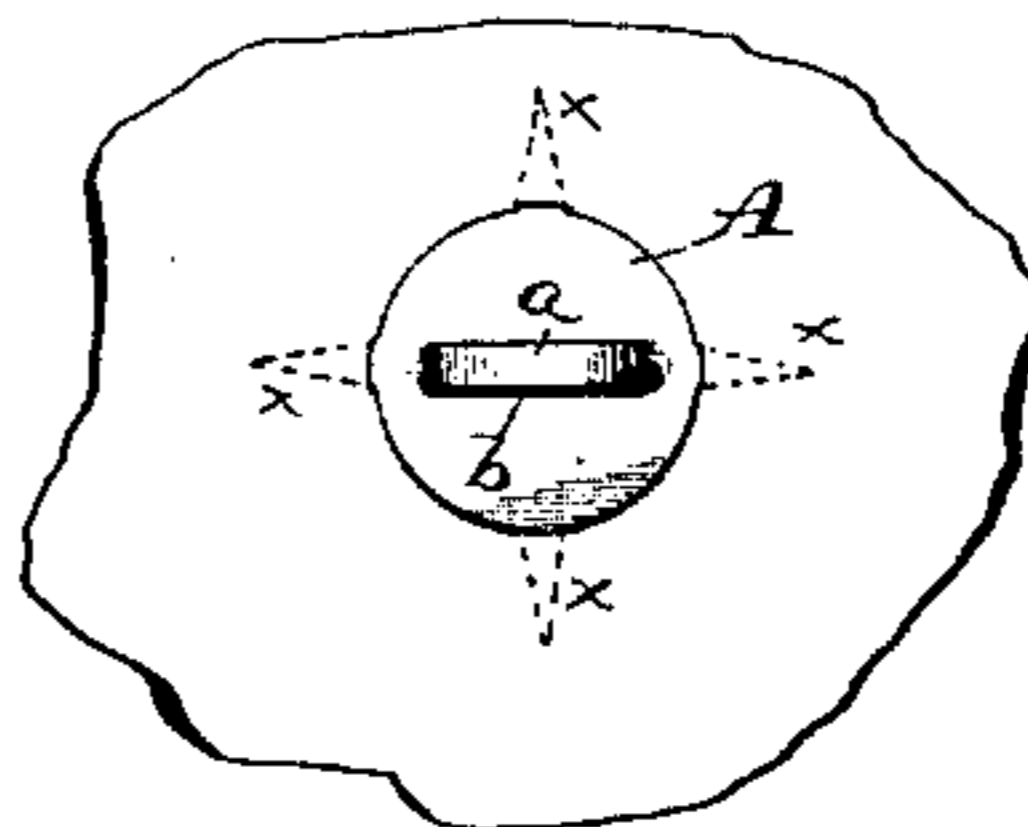
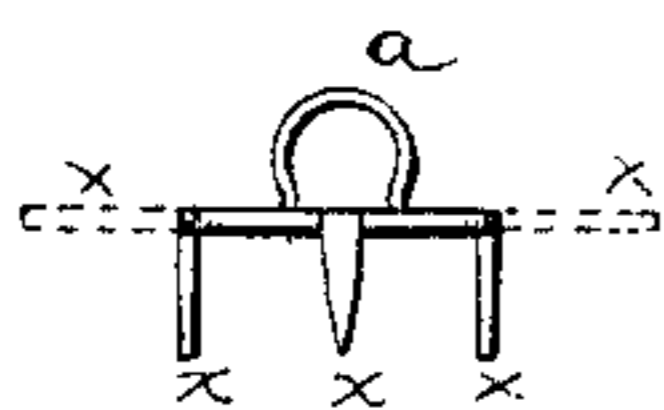
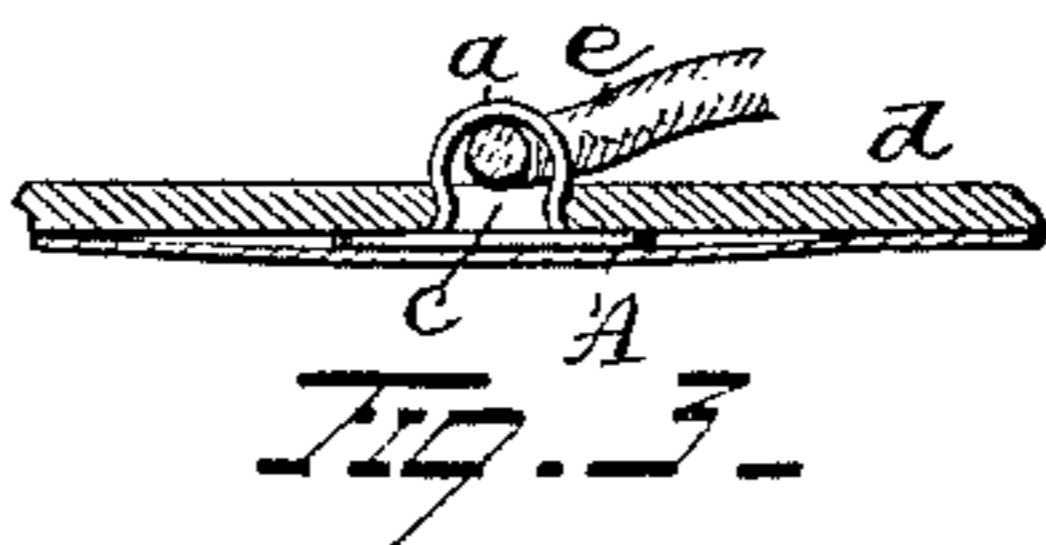
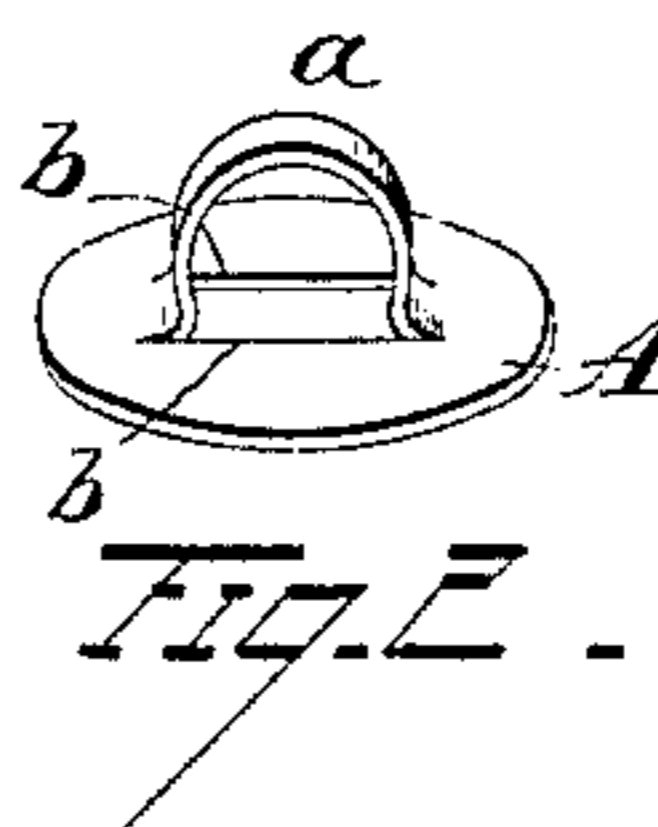
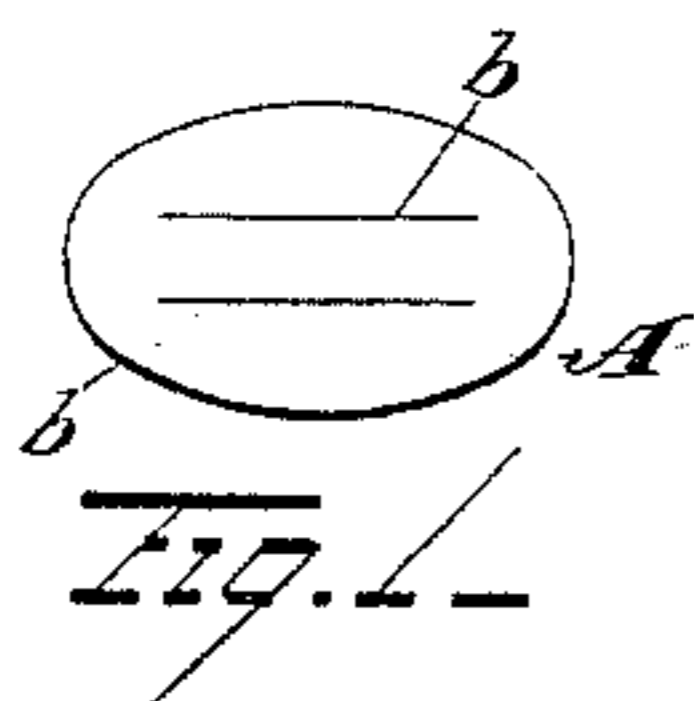
(No Model.)

S. H. RAYMOND.

SHOE FASTENING.

No. 325,115.

Patented Aug. 25, 1885.



WITNESSES  
S. J. Nottingham  
G. F. Downing

INVENTOR  
Silas H. Raymond,  
By A. S. Sumner,  
Attorney

# UNITED STATES PATENT OFFICE.

SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN.

## SHOE-FASTENING.

SPECIFICATION forming part of Letters Patent No. 325,115, dated August 25, 1885.

Application filed April 8, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, SILAS H. RAYMOND, of Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and  
5 useful Improvements in Shoe-Fastenings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to an improvement in shoe-fastenings.

Hitherto the manufacture of shoe-fastenings has required two or more steps, and in cases where a closed eye has been formed it has in-  
15 variably required to be handled and operated upon two or three times before it was ready to receive the shoe lacing. In articles so universally used and having a slight initial cost the saving of one handling or of one step in  
20 the manufacture becomes of the highest importance to both the manufacturer and consumer, as it admits of a reduced cost to both.

The object of my present invention is to provide a fastening for shoes, gloves, corsets,  
25 &c., which will admit of being formed from a blank by a single operation, and which may be inserted in position for use and locked in the same without any change in its shape or any unusual means of fastenings. A further  
30 object is to provide a fastening which, when secured in position in a shoe or other article, will present a flat smooth surface to the portion of the body beneath it, and thus save the annoyance so often resulting from sharp cor-  
35 ners of fastenings.

With these ends in view my invention consists in a flat metal plate or disk having slits formed therein and an eye struck up from the material located between the slits.

40 In the accompanying drawings, Figure 1 is a view of one form of metal blank. Fig. 2 is a view of the completed fastening, and Fig. 3 shows the same applied to a portion of a shoe upper. Fig. 4 is another form of blank, and  
45 Fig. 5 shows the same in shape for use.

A represents the blank. It is preferably oval in shape, and consists of a perfectly flat thin plate of brass, steel, block-tin, copper, white-metal, or any other metal or metallic  
50 composition which may be found desirable.

The blank is placed upon a female die of the form of the proposed eye portion *a*, and a

male cutter and die corresponding to the inside shape of the eye portion is pressed in contact therewith, first cutting a pair of parallel slits, *b*, the cutters then stopping and the  
55 die advancing and pressing the eye *a* into its completed form. The metal must necessarily be capable of being slightly drawn out and bent, in order to prevent any liability to break. 60 The eye *a* thus formed is pressed inwardly through a small oblong perforation or slit, *c*, in the leather *d*, cloth, or other material in which it is placed, and is securely retained in place either by the cloth lining which is com- 65 monly placed in the shoe, and which is conveniently placed beneath the plate *A*, or by the lacing *e*, which, passing through the eye *a*, prevents it from receding through the socket, or the material through which the eye 70 passes will ordinarily close within the eye and press about it with sufficient force to hold it effectually in place.

The insertion of the eye requires the slightest possible mutilation of the material and 75 holds the lacing as securely in position as the eyelet commonly set in the edges of the leather, while the lacing is not interposed between the flesh and laced material, and the disagreeable pressure often caused thereby is obviated. 80

For the purpose of applying the eyelet to cloth or material which would have a tendency to unravel, the blank *A* is provided with sharp prongs *x* integral therewith and extending outwardly from its edges, as shown in Fig. 4, 85 which prongs may be bent downwardly to pierce the cloth and secure the blank firmly to the cloth by having their points clinched on the under side.

It is evident that the plate may be made of 90 different thicknesses and other shapes than oval, and that the eye may be bent in other forms than *U* shape, and have any approved shape in cross-section; hence I do not wish to limit myself strictly to the form and construction shown and described, but reserve the 95 privilege of making such changes as fairly fall within the spirit and scope of my invention.

I am aware that it is not new to provide a concave or dish-shaped clip for attaching han- 100 dles to satchels with an eye struck up from the body of the clip, and hence I make no claim, broadly, to such construction.

Having fully described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

5 A shoe or other fastener, consisting, essentially, of a flat disk or plate having a central integral eyelet or loop struck up therefrom, the said disk or plate adapted to be employed beneath on the inner side of the material forming the shoe-upper or other article with the eyelet or loop passing through an opening

formed in said upper or article, substantially as shown and described.

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

SILAS H. RAYMOND.

Witnesses:

CYRUS E. PERKINS,  
WM. A. CHAPMAN.