

(No Model.)

A. KLINGER.
LACE FASTENER.

No. 500,396.

Patented June 27, 1893.

Fig. 1

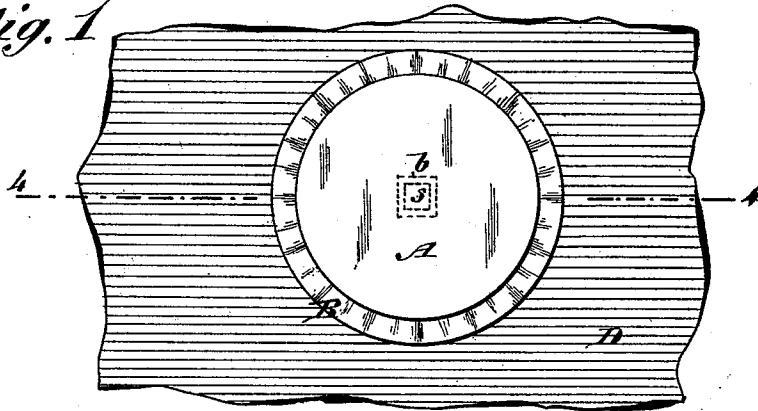


Fig. 2

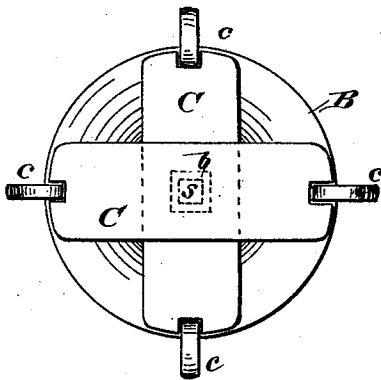


Fig. 3

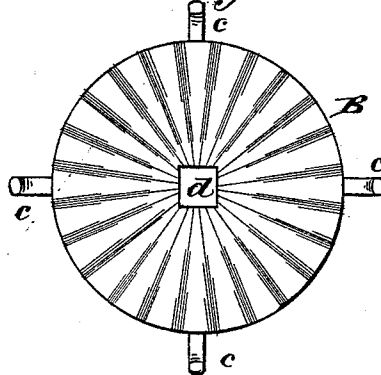


Fig. 4

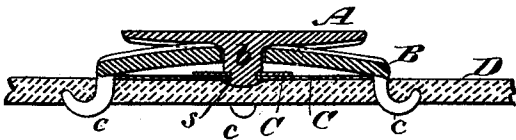


Fig. 5

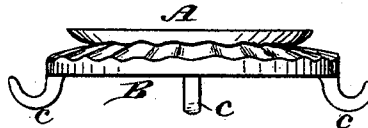
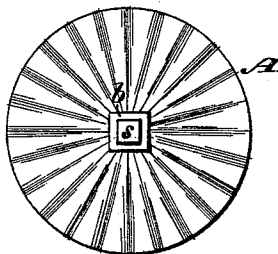


Fig. 6



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALEXANDER KLINGER, OF TELLURIDE, COLORADO.

LACE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 500,396, dated June 27, 1893.

Application filed September 13, 1892. Serial No. 445,795. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER KLINGER, of Telluride, in the county of San Miguel and State of Colorado, have invented a new and useful Improvement in Lace-Fasteners for Shoes and other Articles, of which the following is a full, clear, and exact description.

This invention relates to that class of lace or cord fasteners for shoes, gloves, corsets, bags, and other articles, in which two disks or buttons lying approximately face to face serve to hold by friction the fastening end of the lace, cord or string in between them; and the invention consists in a novel construction of such a device, substantially as hereinafter described and more particularly pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents an outside face view of the fastener applied to a piece of leather, cloth or other material forming part of the article the fastener is used upon. Fig. 2 is an inner or under face view of the fastener, detached. Fig. 3 is an upper or inner face view of the lower or back button forming part of the device. Fig. 4 is a transverse section upon the line 4—4 in Fig. 1. Fig. 5 is an edge view of the fastener detached; and Fig. 6 is an under or inner face view of the upper or outer button.

The device is mainly made up of upper or outer and lower or inner buttons, corrugated on their approximate faces, a central square or angular post between them, and crossing bar springs on the under or back side of the device, applied to said post.

A, indicates the upper or outer button provided with a central square or angular inner or back post *b*, which passes freely through and engages with the lower or inner button B. This angular post *b* has three advantages, viz: first, it acts as a snub post for the fastening end portion of the lace or cord to hug, as it is passed in and given a twirl or two between the buttons around the post; secondly, it, passing through the lower or inner button, serves to hold the two buttons solid in proper relation with each other; and, thirdly, said post *b* has

its end *s* of reduced square or angular construction which is riveted to the crossing bar springs C C, in a suitable hole to keep said springs from twisting or turning. The angular post *b* consequently has two bearings, that is, one through the lower or inner button and another through the bar springs, thereby holding the whole in unison and giving firmness to the device, so that the upper or outer button cannot turn with the pulling of the lace or cord in fastening. The lower or inner button is fastened at its outer edge to the leather or other material D by means of four, more or less, attached bent tangs or hooks *c*, passing through and engaging with the material D.

The button B which has the angular opening *d* through it for the post *b*, is made concave on its lower surface, that is the surface next to the material D, for the purpose of giving the springs C C a chance to vibrate.

The lower or inner surface of the outer button A is corrugated to fit the upper or outer surface of the button B which may be also corrugated as shown.

The springs C C give an elastic pressure or action to the device, and the two buttons, springs and all, take up a small space and constitute no objectionable projection. Said buttons on their contiguous surfaces are made convex or beveled inward on their outer portions, so that when together they will form a groove or entry space between and around them for guiding or starting the fastening lace or cord between the buttons.

By the means described for fastening the inner or lower button to the piece of leather or material, the connection of said button thereto is made solid at its outer edge so that the upper or outer button is pulled down against the inner button by the crossing bar springs, and all wobbling or pulling over of the entire device is avoided.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a lace or cord fastening device of the character described, the combination of the upper or outer button with its inwardly-projecting central post having an angular form, the lower or inner button having means for fastening it to a shoe and the crossing, bar

springs beneath and bearing against the back of the inner button, said central post being in angular engagement with said springs and inner button and holding the whole together 5 and also serving to prevent the buttons from turning independently, substantially as specified.

2. The combination of the upper or outer button A with its attached angular post *b* having a reduced angular end *s*, the lower or inner button B, in engagement with said post 10

and provided with outer circumferentially arranged fastening hooks *c*, and the crossing bar springs C C bearing against the back of said inner button and permanently secured 15 to the post, essentially as shown and described.

ALEXANDER KLINGER.

Witnesses:

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