

(No Model.)

A. R. DRAKE & F. A. HIGGINS.
SHOE LACE FASTENER.

No. 504,568.

Patented Sept. 5, 1893.

Fig. 1.

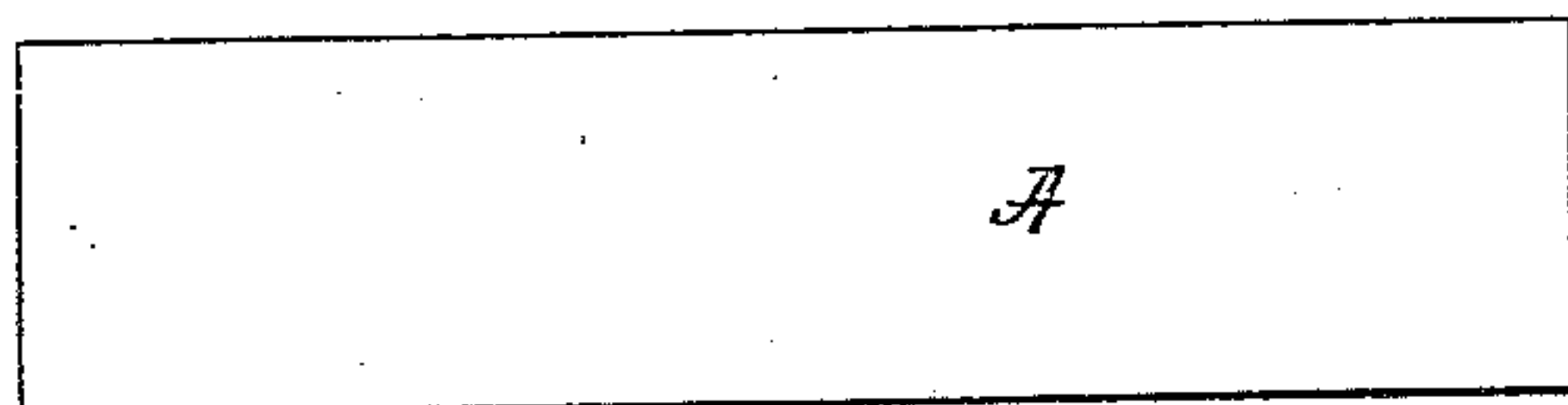


Fig. 2.

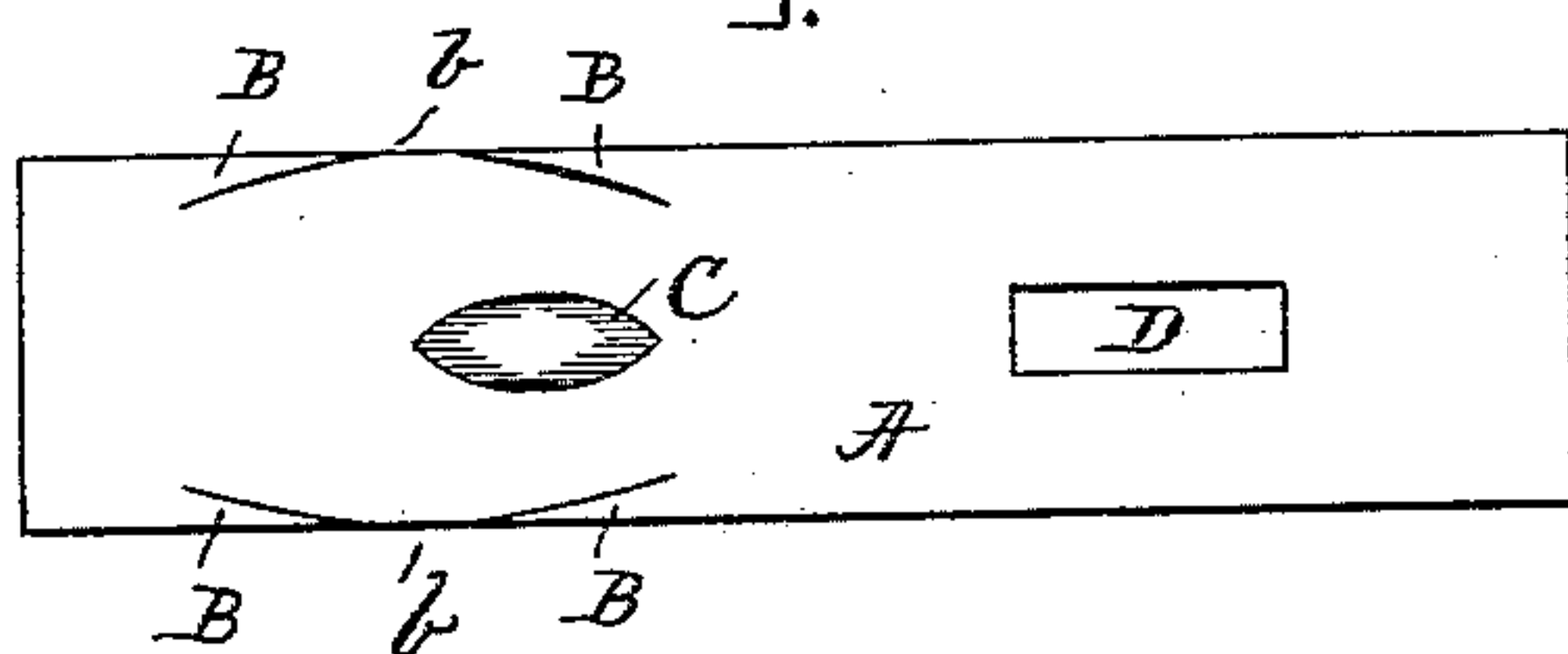


Fig. 3.

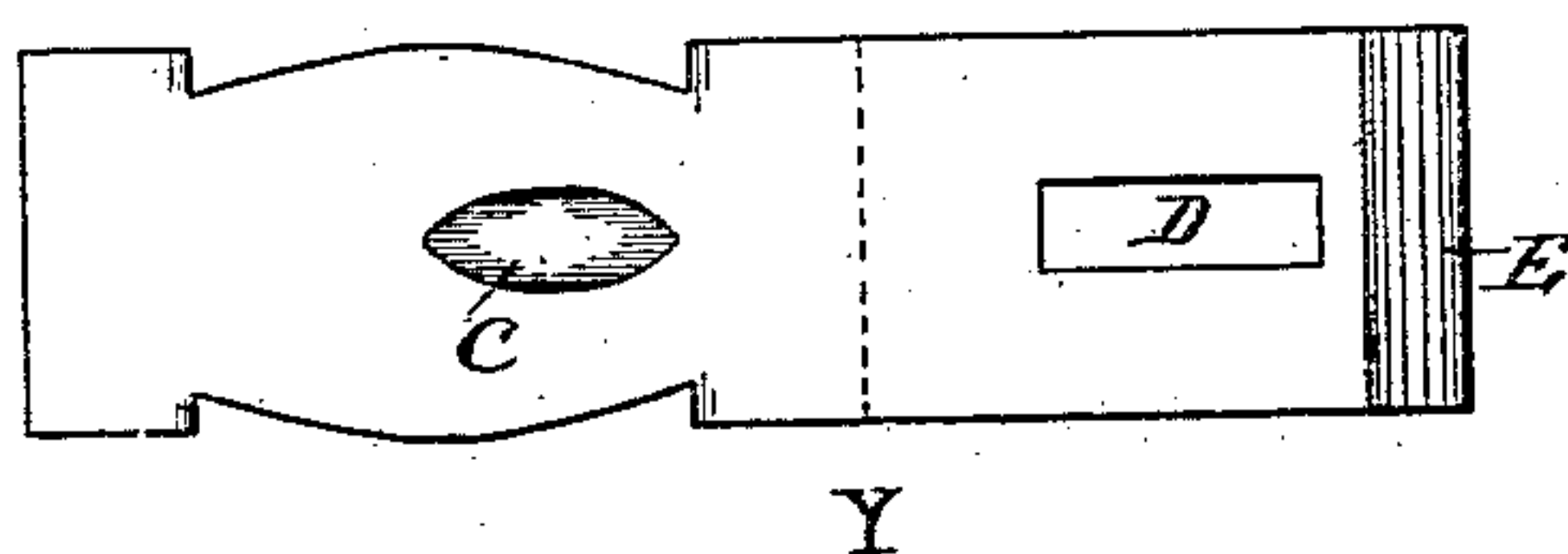


Fig. 4.

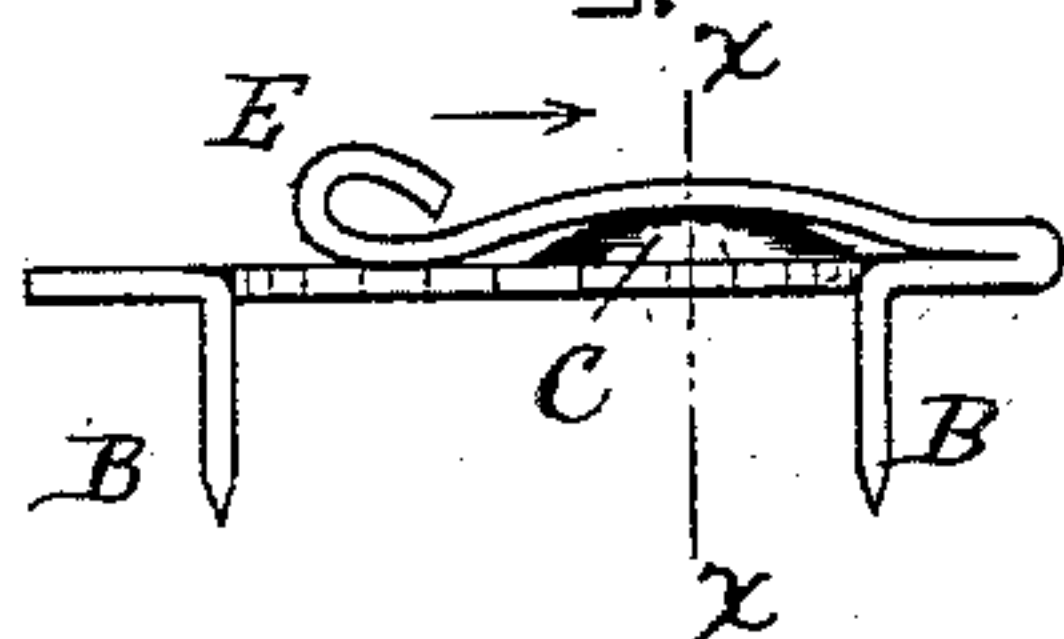


Fig. 5.

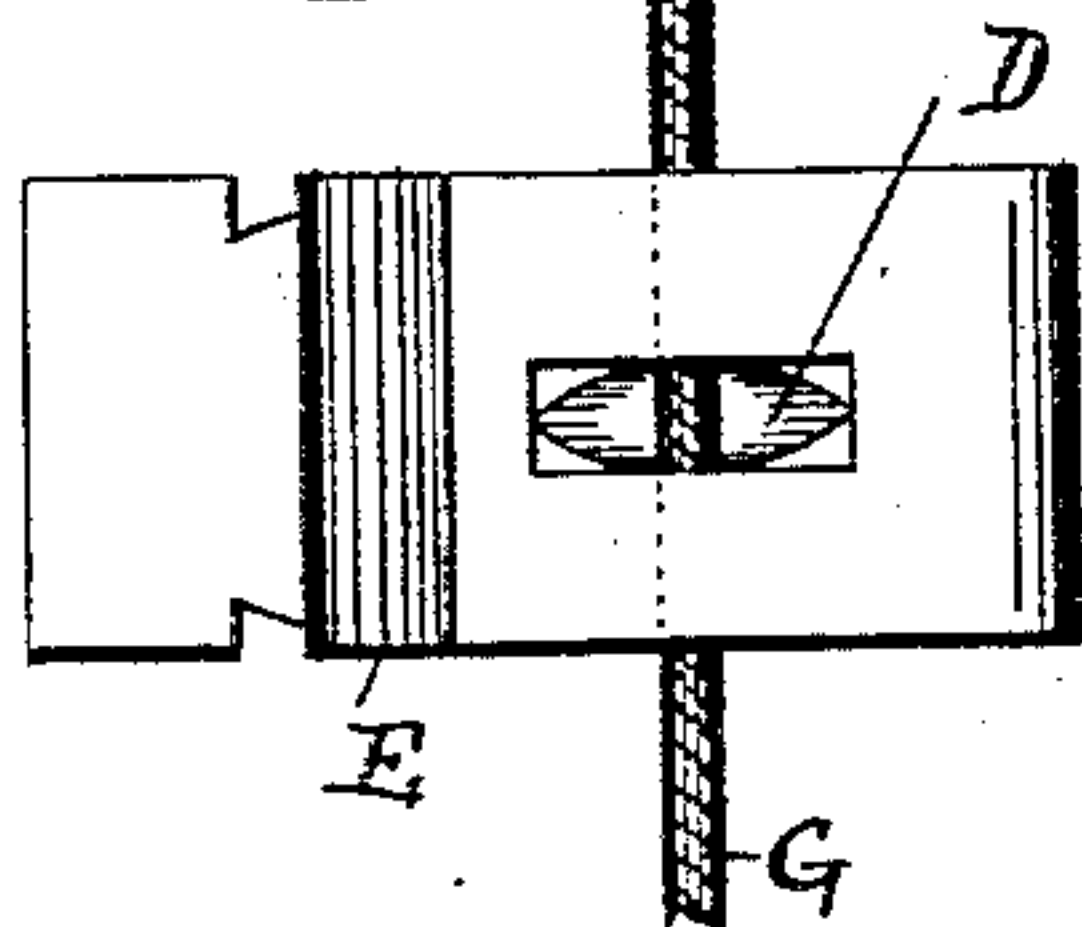


Fig. 6.

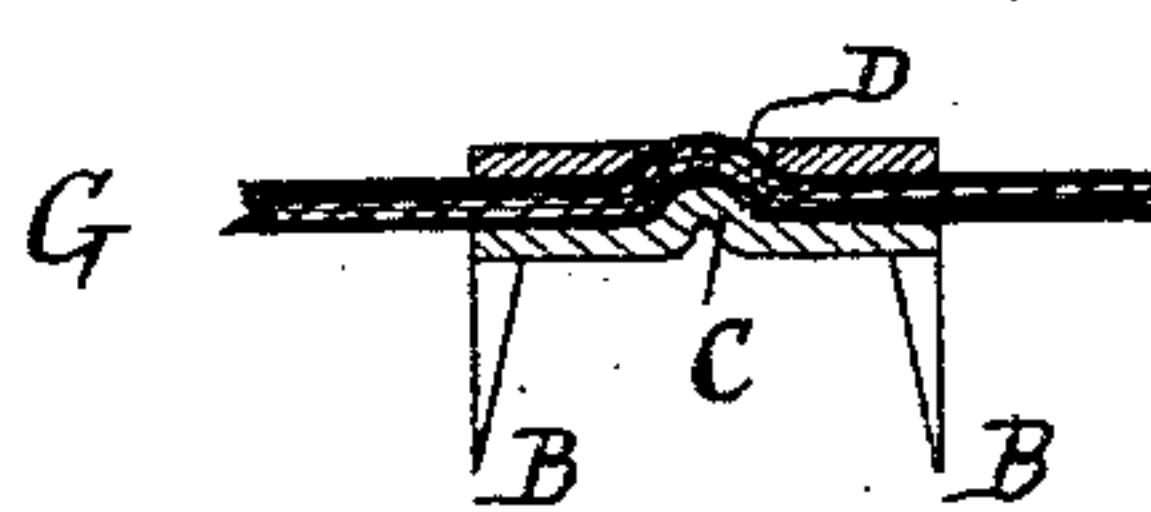
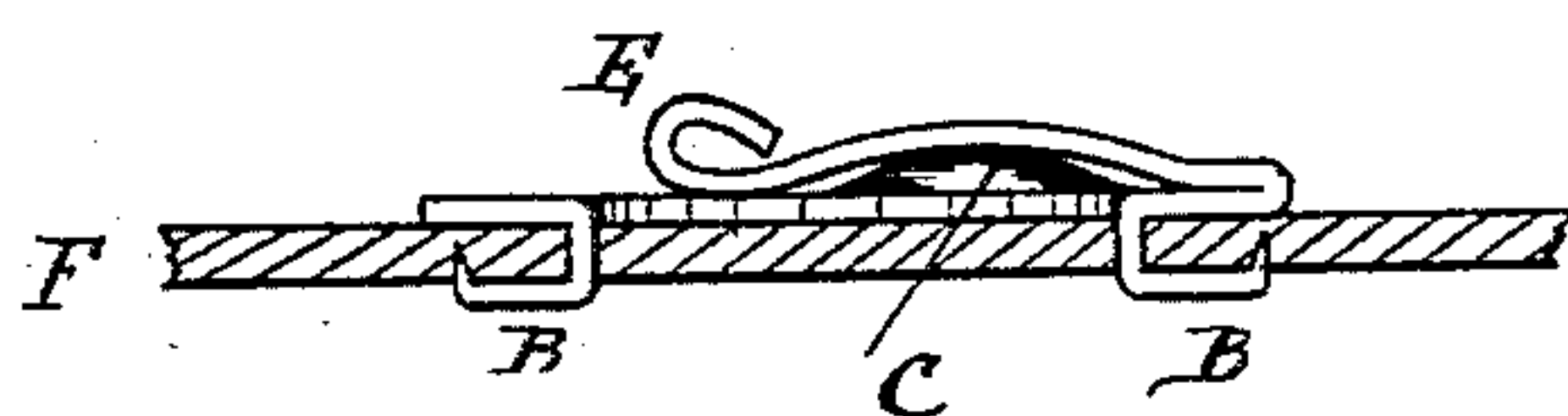


Fig. 7.



Witnesses.

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Albert R. Drake and
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UNITED STATES PATENT OFFICE.

ALBERT R. DRAKE, OF WALTHAM, AND FREDERICK A. HIGGINS, OF
WINTHROP, MASSACHUSETTS; SAID HIGGINS ASSIGNOR TO SAID
DRAKE; SAID DRAKE ASSIGNOR OF ONE-HALF OF WHOLE RIGHT
TO EMMA L. HIGGINS, OF WINTHROP, MASSACHUSETTS.

SHOE-LACE FASTENER.

SPECIFICATION forming part of Letters Patent No. 504,568, dated September 5, 1893.

Application filed November 30, 1891. Serial No. 413,490. (No model.)

To all whom it may concern:

Be it known that we, ALBERT R. DRAKE, residing at Waltham, in the county of Middlesex, and FREDERICK A. HIGGINS, residing at Winthrop, in the county of Suffolk, State of Massachusetts, citizens of the United States, have jointly invented new and useful Improvements in Cord or Lace Fastening Devices, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention has for its object to provide a novel, simple, and efficient cord or lace fastener, and it consists in the features of construction hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 represents a plan view of the metal blank from which the fastening is made. Fig. 2 represents a plan view of said blank after being punched, shaped and slitted. Fig. 3 represents a plan view similar to Fig. 2 showing the prongs bent downward. Fig. 4 represents a side elevation of the finished fastener, and Fig. 5 represents a top view of Fig. 4. Fig. 6 represents a cross-section on the line X—X shown in Fig. 4; and Fig. 7 represents a side view of the fastening device showing it as clinched and held in position on the article on which it is to be used.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The fastening device is made from a sheet metal blank A shown in Fig. 1 which is formed with parallel, longitudinal edges and is slitted as shown at *b, b*, in Fig. 2 by which clinching points B, B, are formed as shown; at or near where such slits are made a blister or projection C is raised and at or near the other end of the blank is made a perforation D as shown in Figs. 2 and 3. The end E is preferably curved or bent as shown to allow the string or lace to be readily introduced between the locking parts of the device. The blank so formed is afterward doubled upon itself on a line Y as shown in Fig. 3, and the clinching

points B, B, bent downward as shown in Fig. 4 when the article is finished and ready for being secured to the upper leather F of a boot or shoe or other material on which it is to be used and it is secured in place by means of the prongs B, B, which are passed through the goods and clinched on the under side thereof as fully shown in Fig. 7.

G in Figs. 5 and 6 represents the cord, string or lace that is to be held in place by means of the improved fastening device.

In fastening a string, &c., it is only necessary to draw it between the yielding folded portions of the fastener when the string will be held in place by being confined between the blister or projection C and the edges of the perforation or recess D as fully shown in Fig. 6. The string can easily be detached from the fastening device simply by pulling it from between the yielding folded portions whenever so desired.

The invention is very simple in construction, can be made at a very slight expense and serves as a ready means for securing shoe strings or laces of any kind in position without the need of tying knots as hereinabove fully described.

Having thus fully described the nature, construction, and operation of our invention, we wish to secure by Letters Patent and claim—

A lace or string holder, consisting of a blank having parallel side edges, the orifice D, the blister C, and the curved edge slits *b* to form the clinching points B, said blank being folded transversely upon itself to register the blister with the perforation, substantially as described.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, on this 25th day of November, A. D. 1891.

ALBERT R. DRAKE.
FREDERICK A. HIGGINS.

Witnesses:

ALBAN ANDRÉN,
ALICE A. PERKINS.