

No. 660,945.

Patented Oct. 30, 1900.

L. J. BUCHSIEB.  
LACING HOOK AND FASTENER.

(Application filed July 12, 1900.)

(No Model.)

Fig. I.

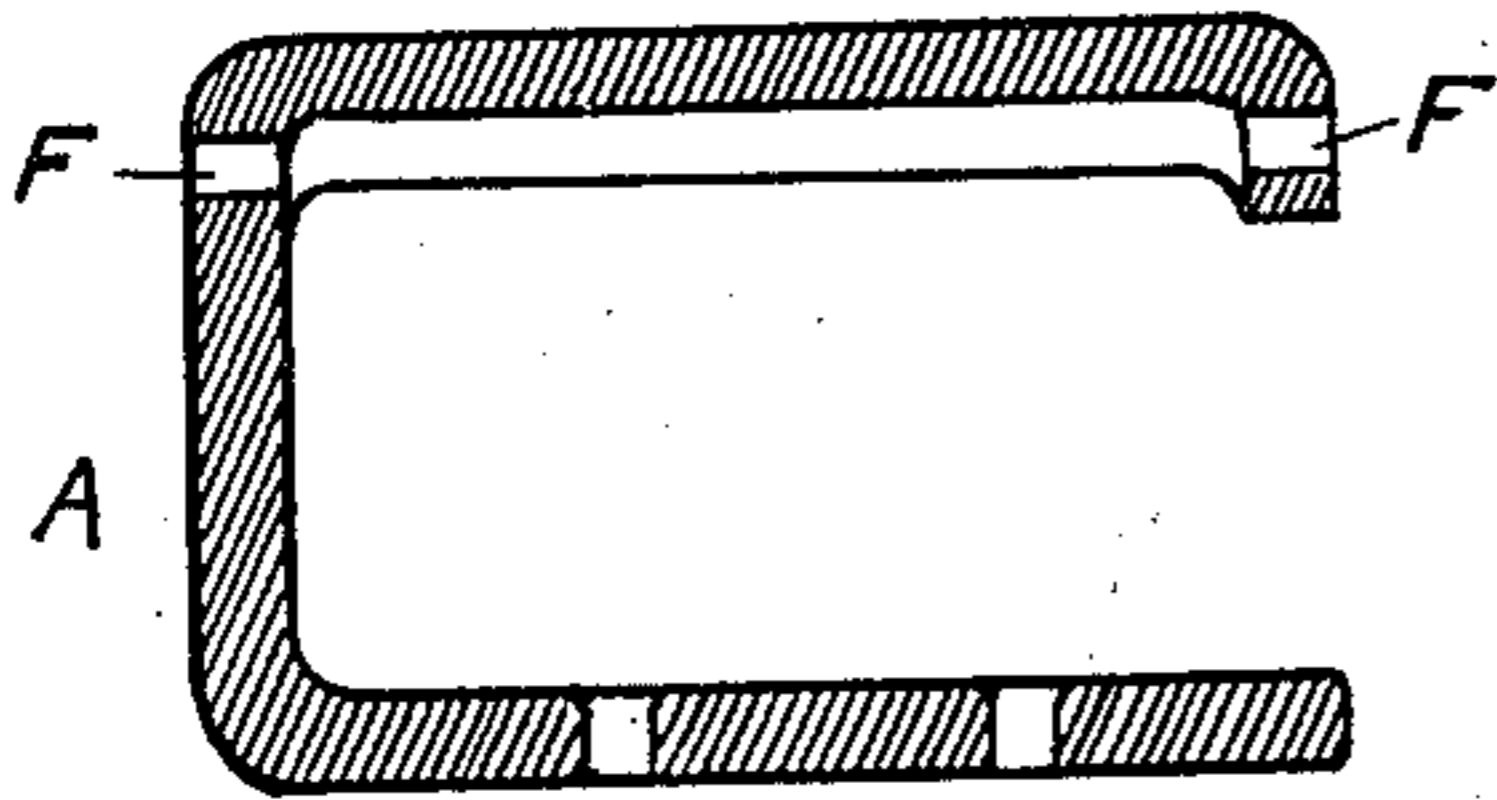


Fig. II.

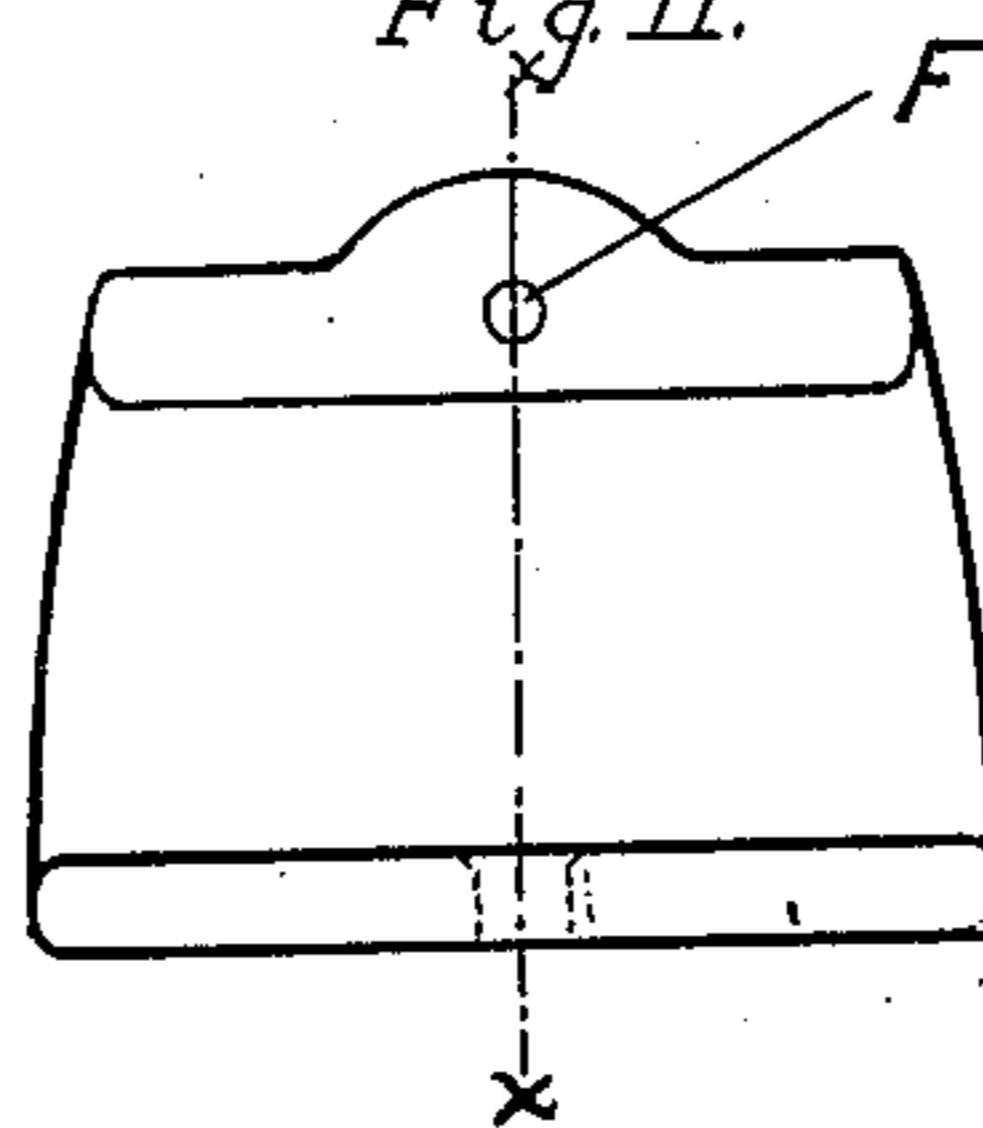


Fig. III.

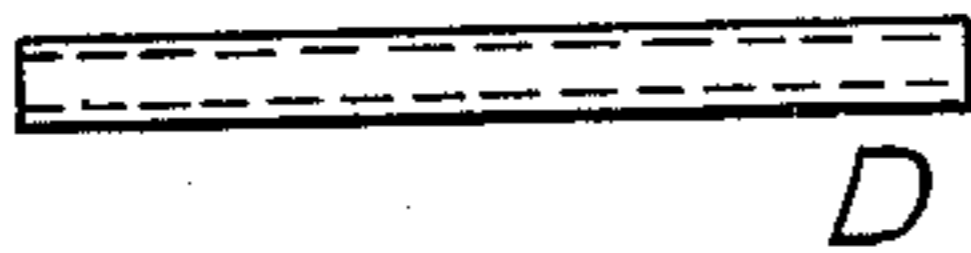


Fig. IV.



Fig. V.

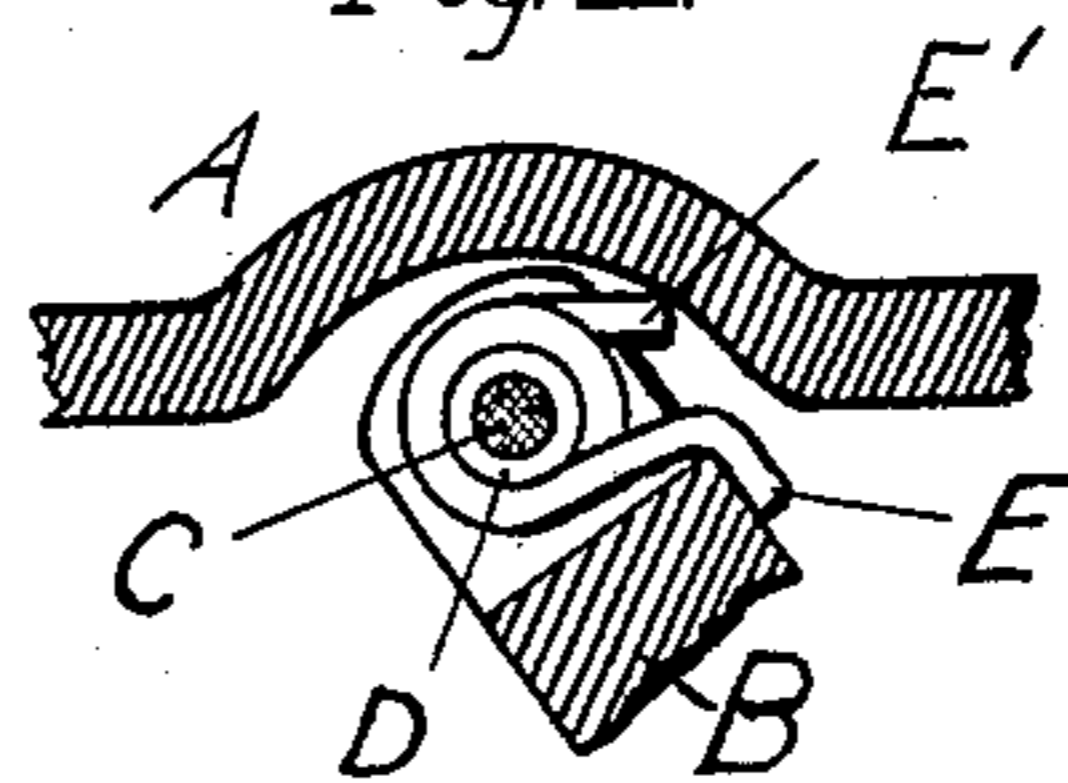


Fig. VI.

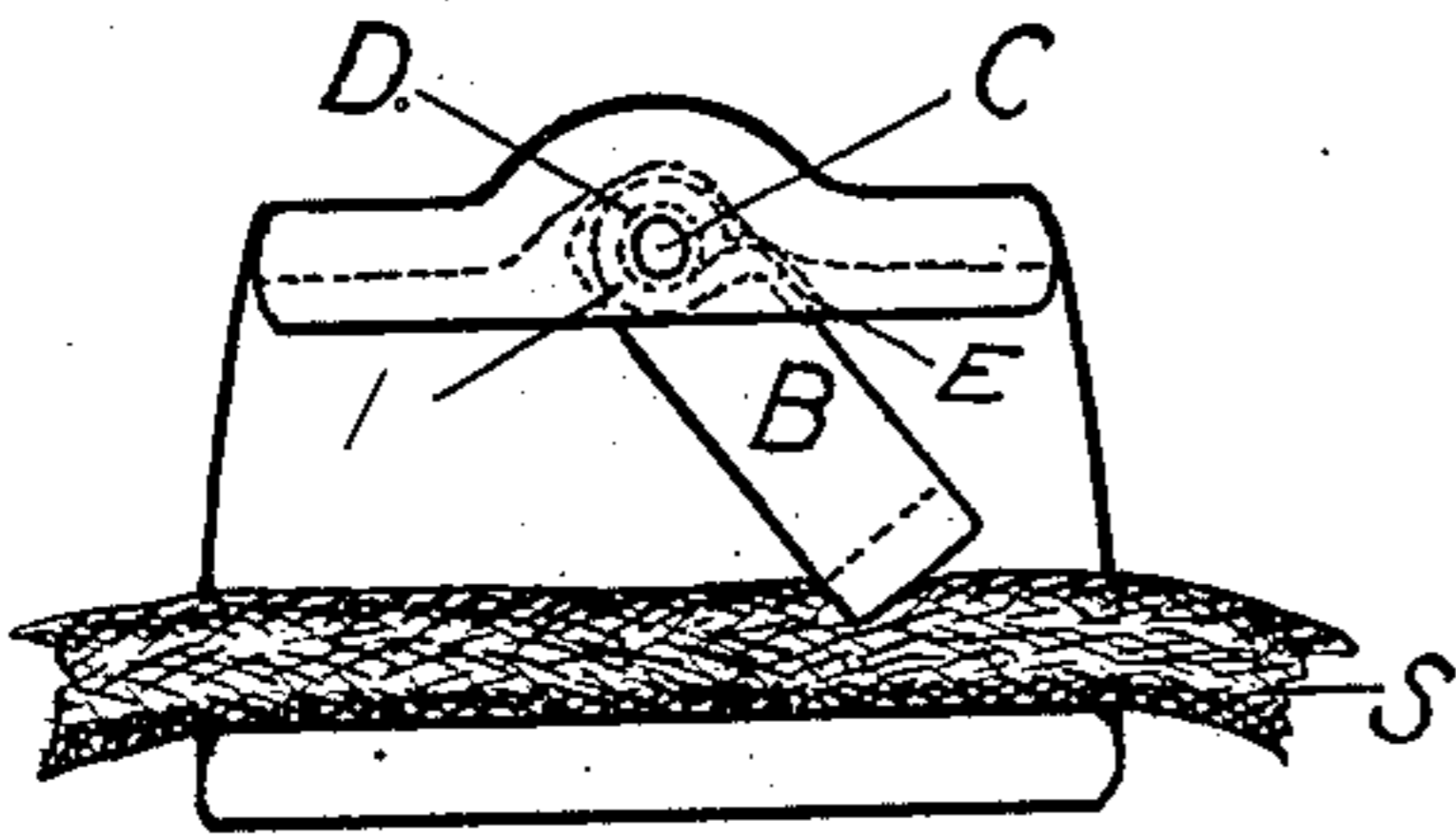


Fig. VII.

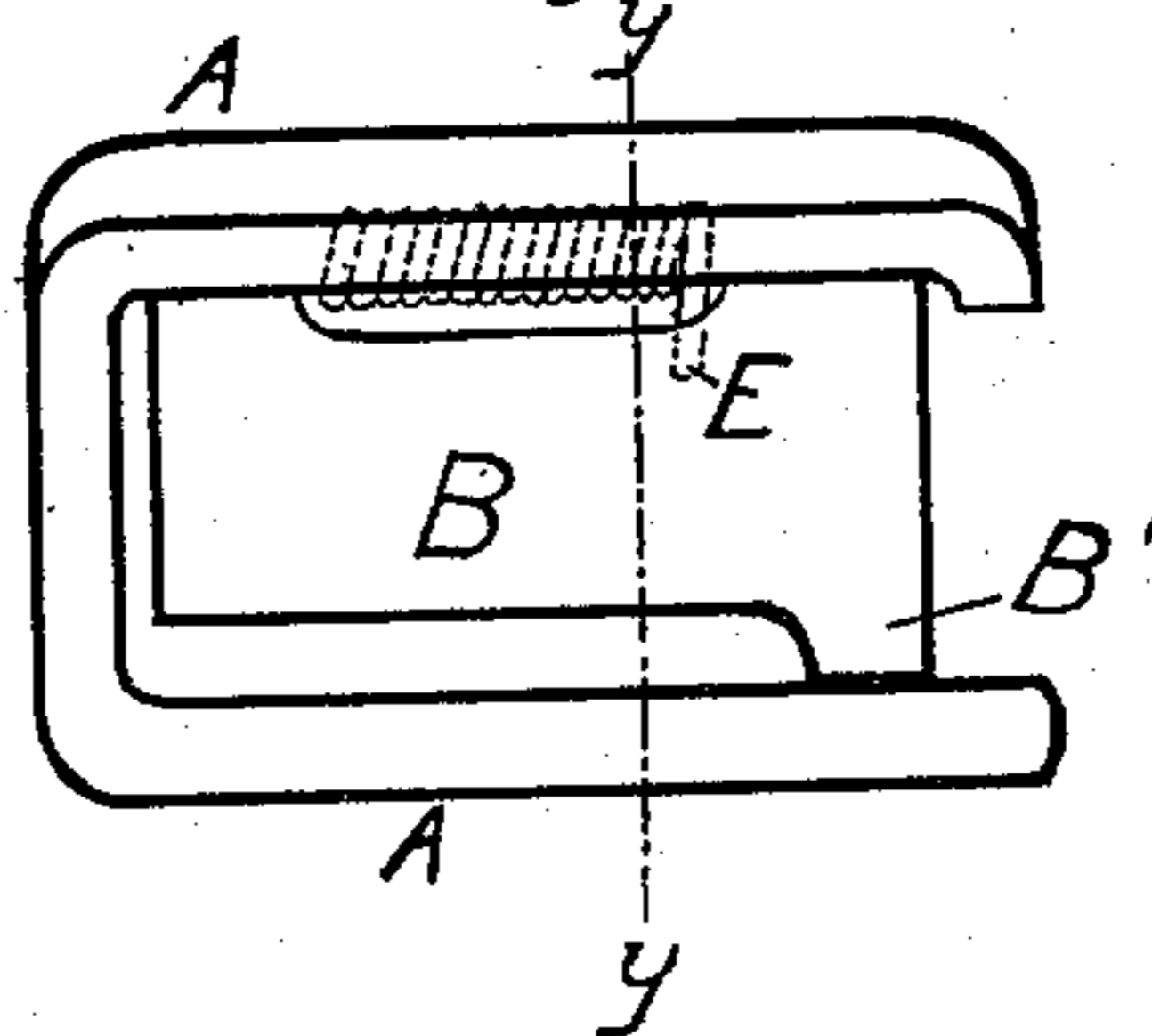
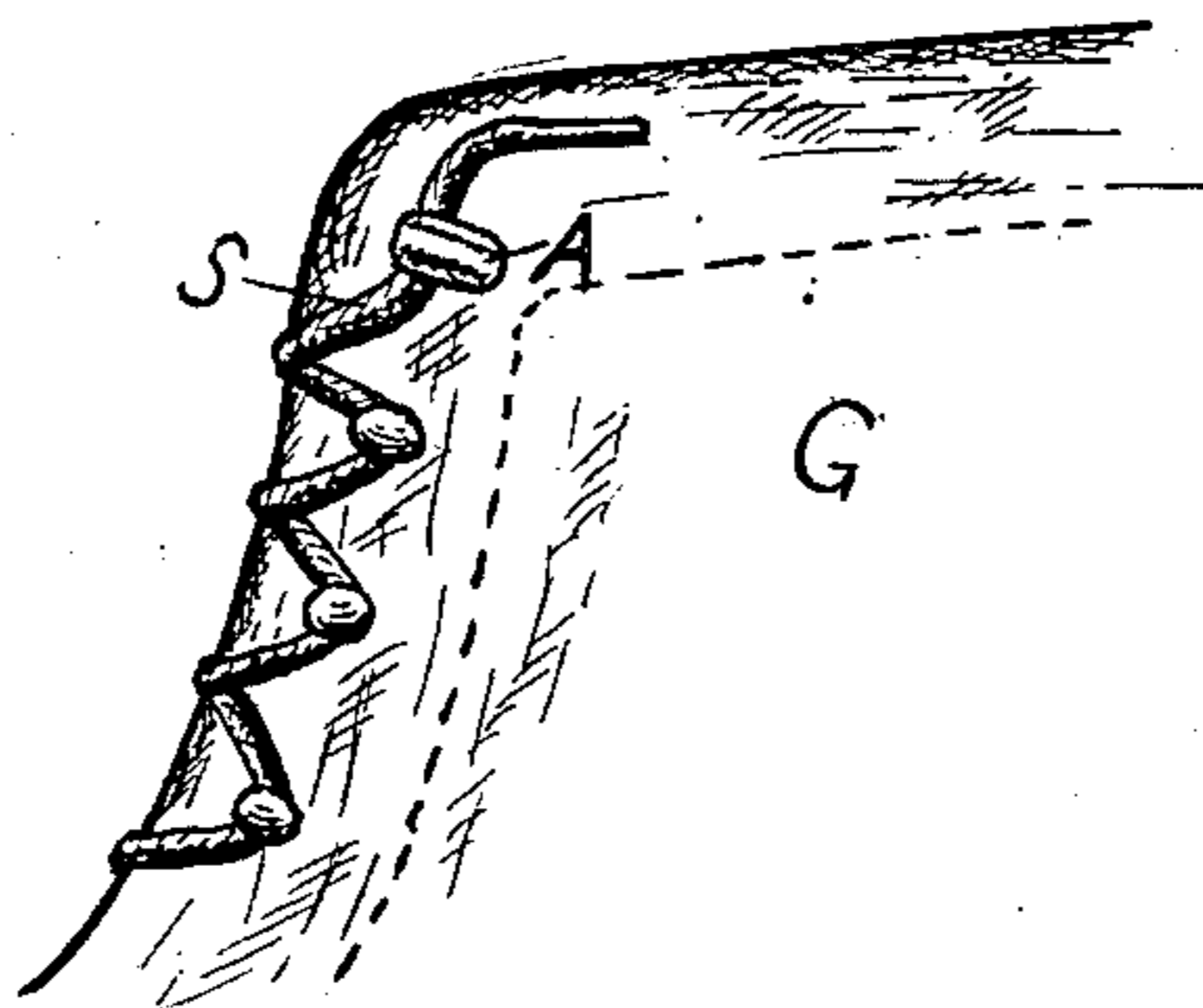


Fig. VIII.



Witnesses.

James B. Davies.

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# UNITED STATES PATENT OFFICE.

LOUIS J. BUCHSIEB, OF GRAND RAPIDS, MICHIGAN.

## LACING HOOK AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 660,945, dated October 30, 1900.

Application filed July 12, 1900. Serial No. 23,407. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS J. BUCHSIEB, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Lacing Hooks and Fasteners, of which the following is a specification.

This invention relates to a new and improved lacing hook and fastener to be used in connection with laced shoes and other analogous goods; and the invention consists in the construction and combination of parts hereinafter described.

The objects of my invention are, first, to form a cheap and efficient means for retaining a lacing-cord in position without the necessity of tying the cord, and, second, to provide a lacing-hook which will retain the cord securely in position and at the same time allow of ready detachment from the hook. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a sectional view on line *xx* of Fig. 2. Fig. 2 shows a front elevation of the outer shell or framework which supports a lever which engages with and retains the lacing-string in position. Fig. 3 shows a side elevation of the tube to which the lever is attached, dotted lines showing the position of the pivot on which the lever swings. Fig. 4 shows an end view of the tube and pivot. Fig. 5 shows a transverse sectional view on line *yy* of Fig. 7. Fig. 6 shows a front view of the hook and fastener with the lever bearing upon the lacing-string. Fig. 7 shows a side elevation of the complete hook and fastener without the lacing-string, and Fig. 8 shows the position of one of my fastener-hooks and fastener with my lacing-string in position.

Similar letters refer to similar parts throughout the several views.

A represents the metallic shell or case which supports the lever and its operating mechanism.

B shows the lever.

C shows the pivot, which passes through the holes F F of the shell A.

D shows the tube, which surrounds the pivot C and turns freely thereon. The lever is secured rigidly to the shell or tube D. The lower end of the lever B is provided with a projection B', as shown in Fig. 7. Surrounding the tube D is a spring. One end of the spring bears against the casing, as shown by E', and the other end bears against the lever, as shown by E, the spring having a tendency at all times to hold the lever down upon the lacing-string S.

G shows a portion of a shoe to which my lacing-hook is fastened. As shown in Fig. 8, there are a series of hooks of the ordinary construction and one hook and fastener at the top for retaining the lacing-strip.

In the drawings all parts are shown enlarged excepting the shell A, shown in Fig. 8.

The operation of my device is as follows: The lacing-string S is drawn under the lever B, so as to pass beneath the projection B', as shown in Fig. 6, the spring holding the lacing-string in position so that it cannot be drawn in one direction, but can be easily moved in the other direction, the lever B being held down upon the lacing-string by means of the spring, as above described. By pulling the string outwardly it will readily release itself from the hook.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

In a lacing hook and fastener, a casing, a pivot connected thereto, a tube loosely mounted thereon, a lever rigidly secured at one end to said tube and at its opposite end provided with a projection, and a spring surrounding said tube and having one end engage said casing and its other end engage said lever for keeping the latter normally in a lowered position, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

LOUIS J. BUCHSIEB.

Witnesses:

EDWARD TAGGART,  
JAMES B. DAVIES.