

H. C. KLEIN.
Fasteners for Shoe and other Lacings.
No. 219,162. Patented Sept. 2, 1879.

Fig. 1.



Fig. 2.

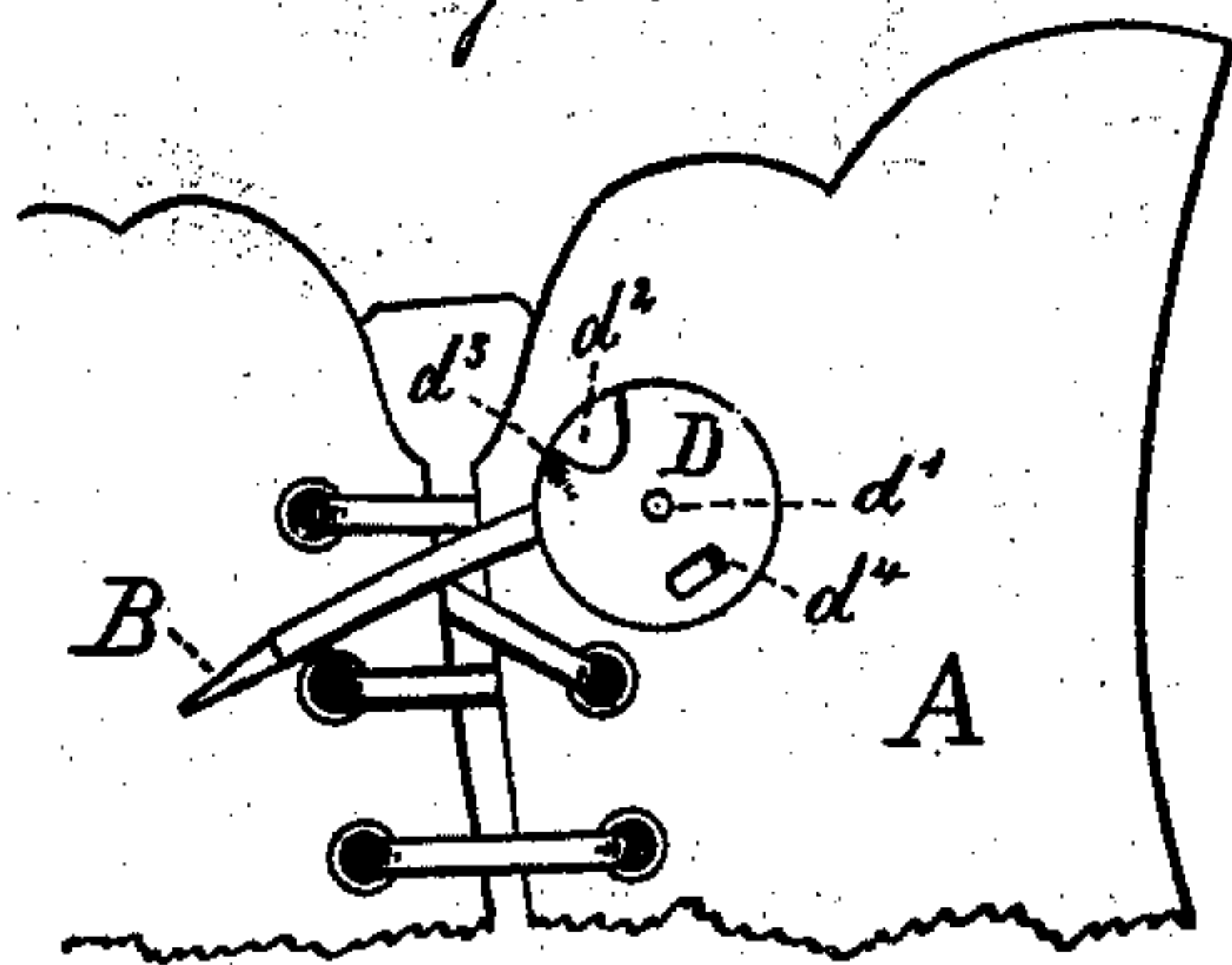


Fig. 3.

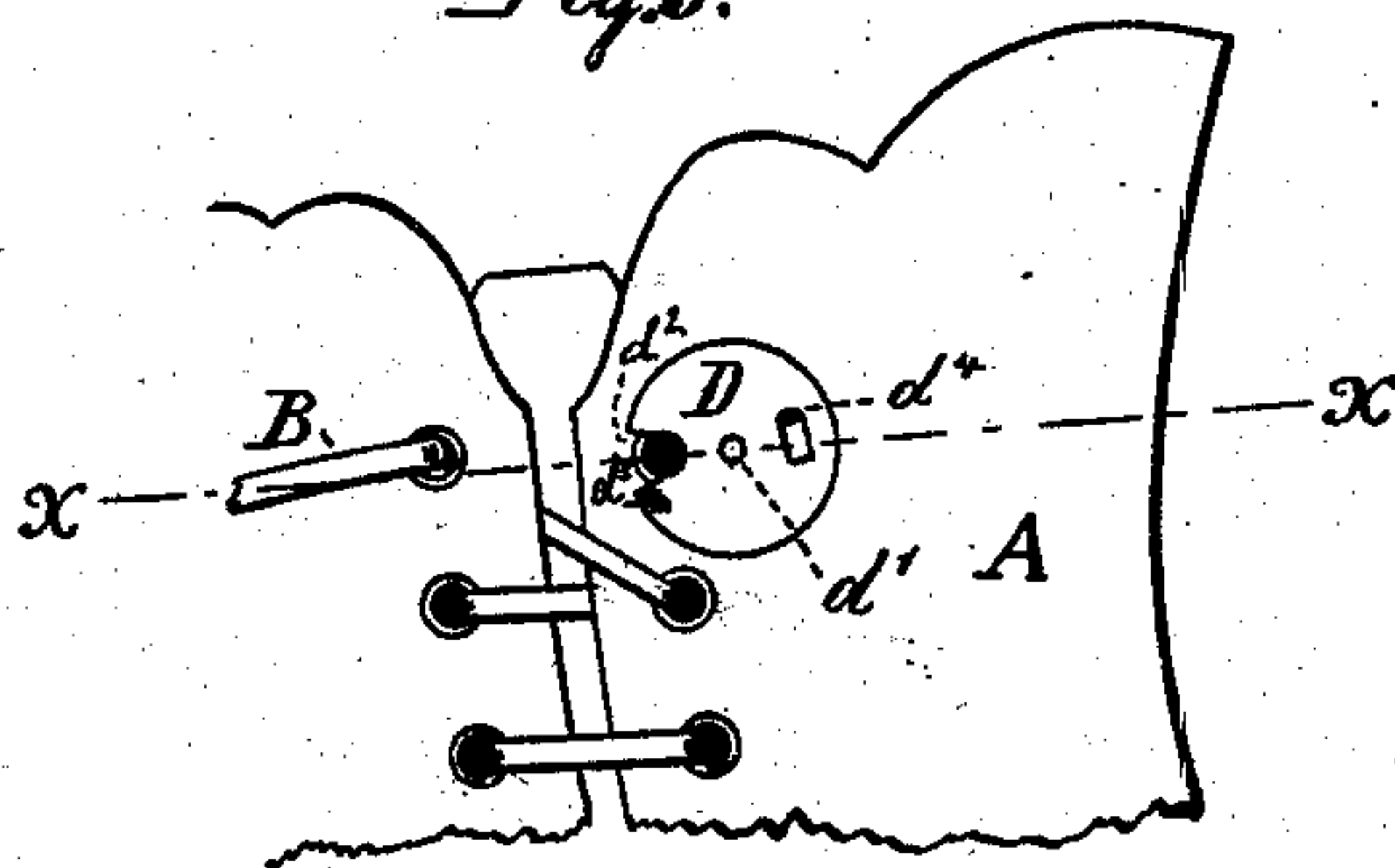


Fig. 4.

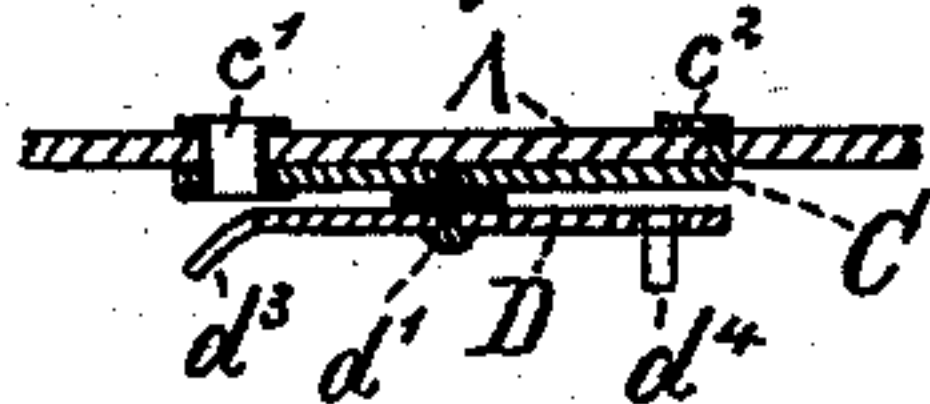
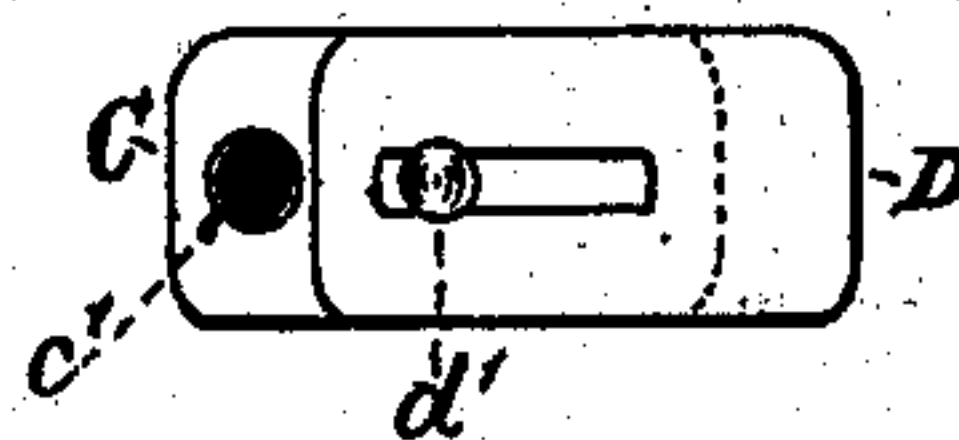


Fig. 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY C. KLEIN, OF MUNCIE, INDIANA, ASSIGNOR TO ARMSTEAD M. KLEIN
AND WILLIAM C. KLEIN, OF SAME PLACE, ONE-FOURTH TO EACH.

IMPROVEMENT IN FASTENERS FOR SHOE AND OTHER LACINGS.

Specification forming part of Letters Patent No. **219,162**, dated September 2, 1879; application filed
July 21, 1879.

To all whom it may concern:

Be it known that I, HENRY C. KLEIN, of the city of Muncie, county of Delaware, and State of Indiana, have invented certain new and useful Improvements in Fasteners for Shoe and other Lacings, of which the following is a specification, reference being had to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts.

Figure 1 is a side elevation of a shoe upon which my improved fastener is employed. Fig. 2 is a side elevation of the fastener itself, on a larger scale, with the parts in the position which they occupy when the lacing is fastened. Fig. 3 is a similar view to Fig. 2, except that the parts are in the position they occupy when the lacing is loosened, or before it is inserted. Fig. 4 is a transverse horizontal section on the dotted line $x x$ in Fig. 3. Fig. 5 is a view of an alternate construction, in which the top plate slides instead of rotating.

In said drawings, the portion marked A represents the material forming the top of an ordinary shoe; B, a common shoe-lacing; C, a plate attached to the part A by suitable fastenings, (in the drawings, the eyelet c^1 forms one of these fastenings, and the lug c^2 , formed on the plate itself, the other;) and D, a second plate, pivoted to the first by the pivot d^1 , and having a notch, d^2 , at one side, corresponding to the eyelet-hole in the plate C. This plate has also, preferably, a projection, d^4 , forming a handle, by which it is operated, said projection being usually formed by stamping up a portion of the metal forming the plate in the manner shown.

The object of my said invention is to provide a simple and cheap fastening for the lacings of shoes, gaiters, corsets, and other articles which are fastened by a string and eyelets or studs, or other analogous devices, and is accomplished by the two disks constructed as described, and operating in the following manner:

A single lacing, B, is run through eyelets or around studs, in the ordinary manner, until it reaches the place where it is desired to fasten it, when, instead of tying a knot, as is ordinarily done, it is run through the eyelet

c^1 and the notch d^2 in the two plates of my device, (they being placed in the position illustrated by Fig. 3,) and turned back. The plate D is then revolved partly around, as shown in Fig. 2, which clamps the string or lacing firmly between the two plates, and holds it securely until the operation is reversed, when the lacing is released and can be withdrawn.

In order that the plate or disk D shall pass easily over the lacing, the point or part of the disk which forms one side of the notch d^3 is turned slightly up, as shown.

If it is desired, the plate C can be located on the under side of the material composing the shoe-top or other article to which my device is applied, and the lacing may come in direct contact with said material; or, if the material is stiff enough to afford the requisite clamping pressure, the plate C may be dispensed with altogether.

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

1. An improved fastening for shoe and other lacings, consisting of a base-plate provided with an eyelet-hole, and a rotating or sliding plate provided with an edge-notch adapted to be brought into relation with the eyelet-hole, or moved away from it, thus to release or clamp and hold the lacing, substantially as set forth.

2. In a lacing-fastening, the base-plate adapted to be attached to the shoe or other article, provided with an eyelet-hole, and a sliding or rotating plate having an edge-notch provided with raised point or points, substantially as shown and specified.

3. In combination with a base-plate, C, as described, having an eyelet, c^1 , a rotating or sliding top plate, for the purpose of clamping and holding the string or lacing which may pass through said eyelet-hole, substantially as specified.

In witness whereof I have hereunto set my hand and seal at Indianapolis, Indiana, this 15th day of July, A. D. 1879.

HENRY C. KLEIN. [L. S.]

In presence of—

C. BRADFORD,
A. E. LEMON.