

S. JONES.
Shoe-Lacers.

No. 149,315.

Patented April 7, 1874.

Fig. 1.

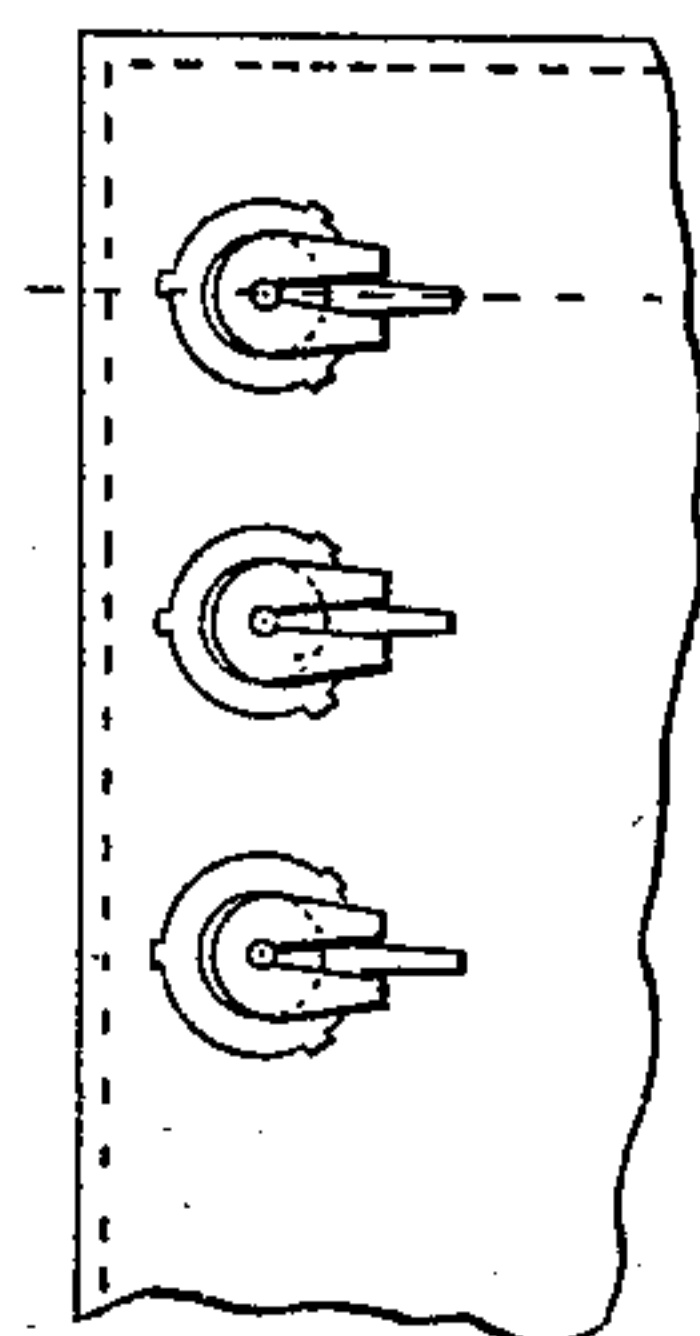


Fig. 2.

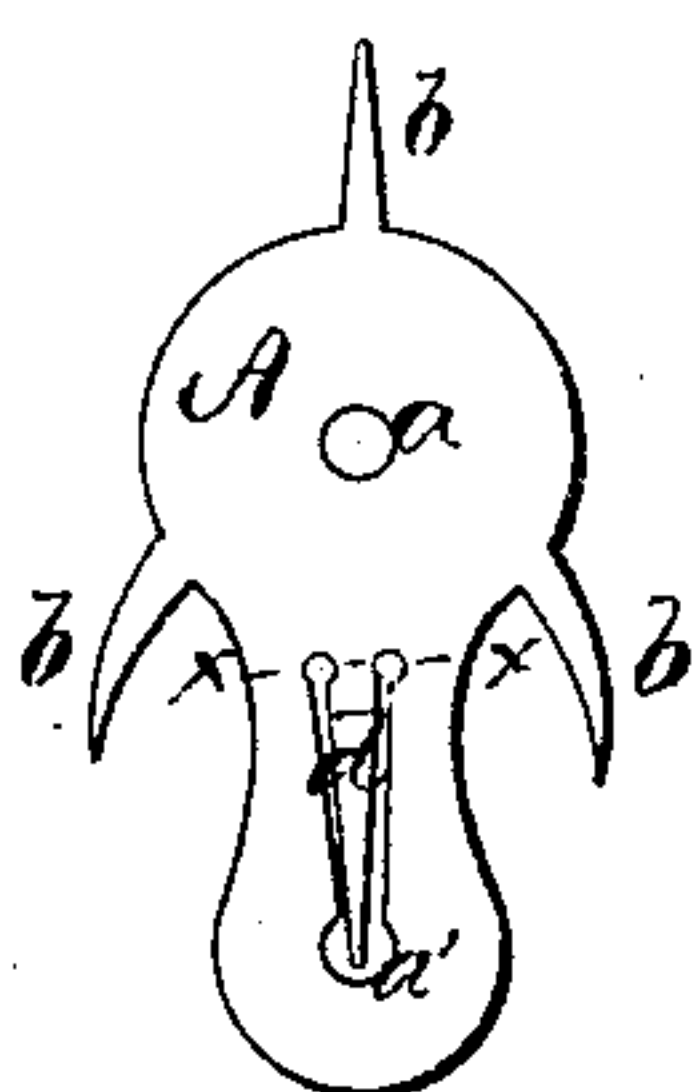
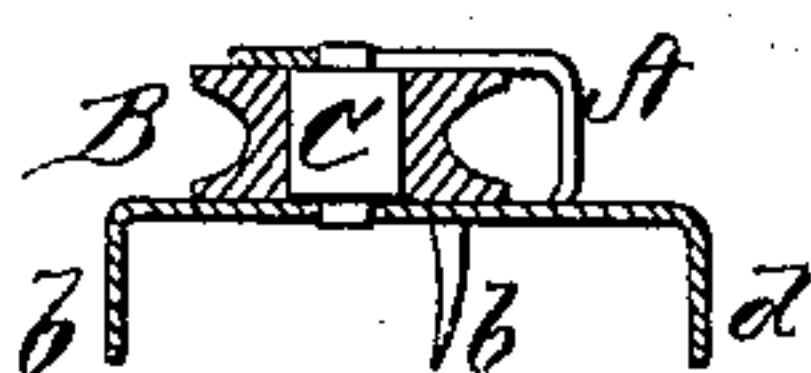


Fig. 3.



Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN SHOE-LACERS.

Specification forming part of Letters Patent No. **149,315**, dated April 7, 1874; application filed September 15, 1873.

To all whom it may concern :

Be it known that I, SAMUEL JONES, of Lincoln, in the county of Logan and in the State of Illinois, have invented certain new and useful Improvements in Shoe-Lacer; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a device to be attached to shoes, for the purpose of lacing the same, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 represents a piece of leather with my shoe-laces attached. Figs. 2 and 3 are detached views of the parts of which the lacer is composed, and Fig. 4 is a longitudinal section of the lacer put together and ready to be attached to the shoe.

A represents a plate, forming, when bent in proper position, the frame for holding the roller B. This plate A is stamped or cut out by dies, or other suitable means, in the form shown in Fig. 2, with holes *a a'* and four teeth *b, b, b,* and *d*. The teeth *b* project from the edge of the plate, while the tooth *d* is cut out of the plate, the point of said tooth being in

the hole *a'*, and when this tooth is bent downward it leaves a slot or opening in the plate. The roller B is grooved circumferentially, as shown in Fig. 3, and revolves upon a rivet, C, which has upon each end a small tenon or journal, *i*, of suitable size to fit in the holes *a a'* of the plate A. The teeth *b* and *d* of the plate A are all bent downward at right angles, and the plate then bent at the line *x x*, after which the upward-bent portion of the plate is bent forward, so that the hole *a'* will be directly over the hole *a*. The roller B is now placed on the rivet C and inserted in the frame formed of the plate A, the tenons or journals *i i* of the rivet being passed through the holes *a a'* and riveted on the outside. The lacer is now complete, and is attached to the shoe by passing the teeth *b d* through the leather and clinching them on the under side.

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

The combination of the plate A, bent as described, and provided with holes *a a'* and teeth *b d*, the circumferentially-grooved roller B and rivet C, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 16th day of August, 1873.

SAML. JONES.

Witnesses:

R. M. BEARD,
G. W. ALLEE.