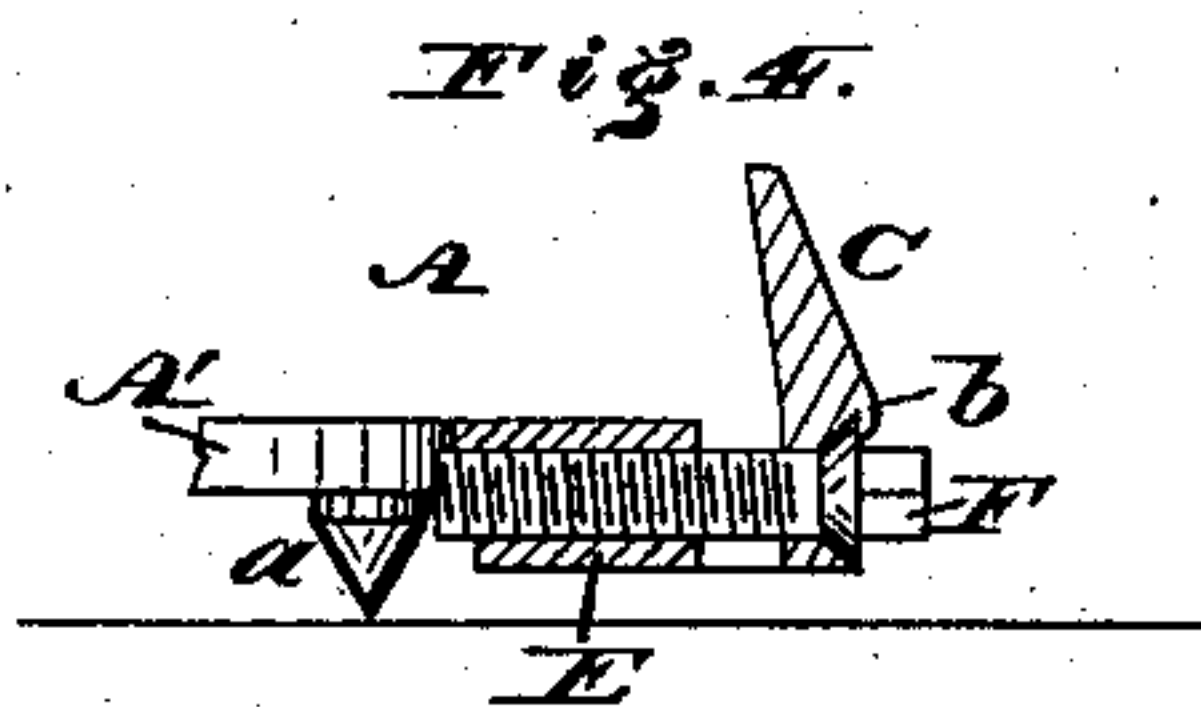
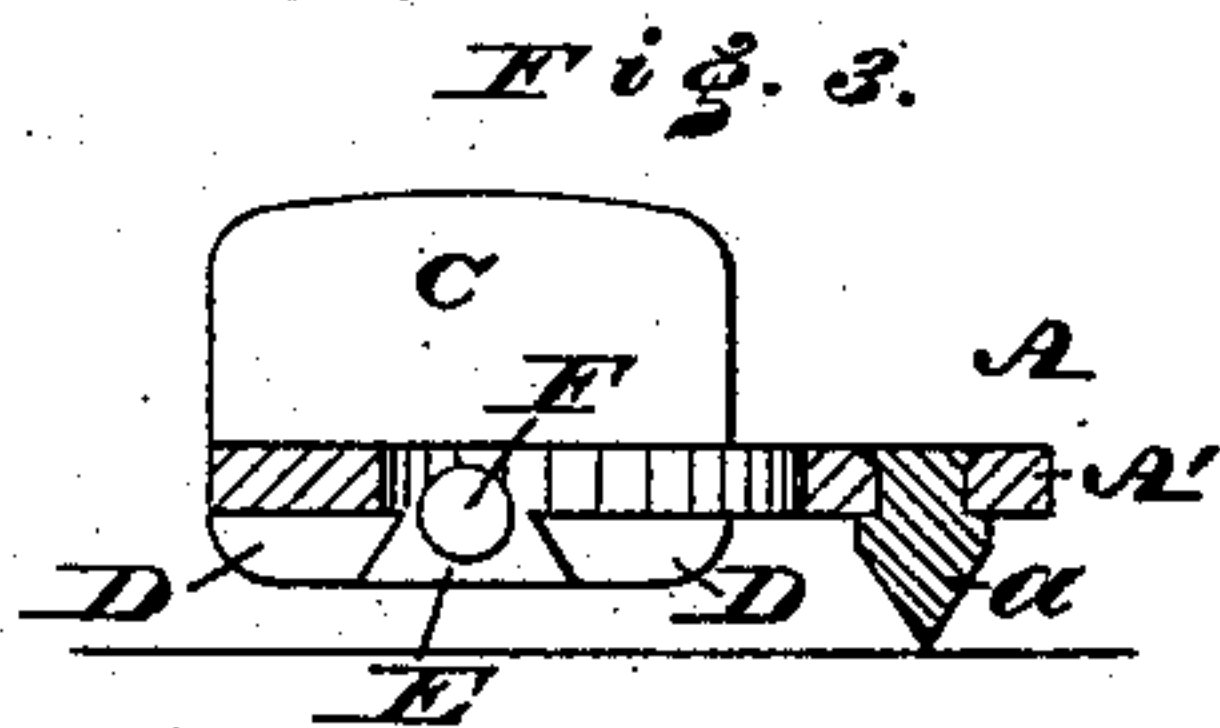
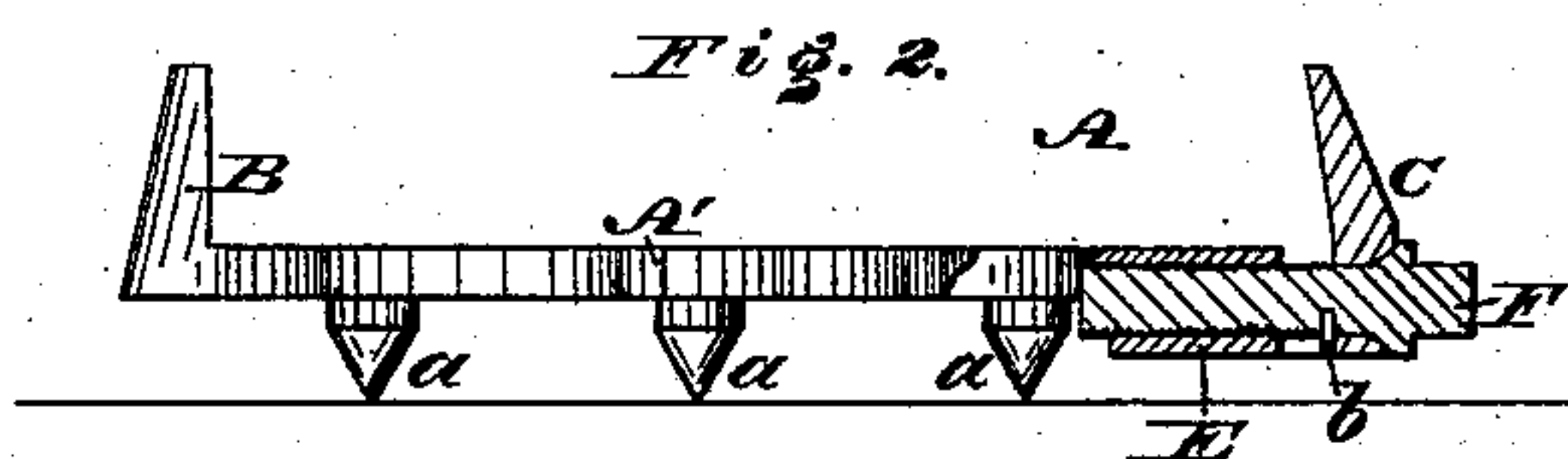
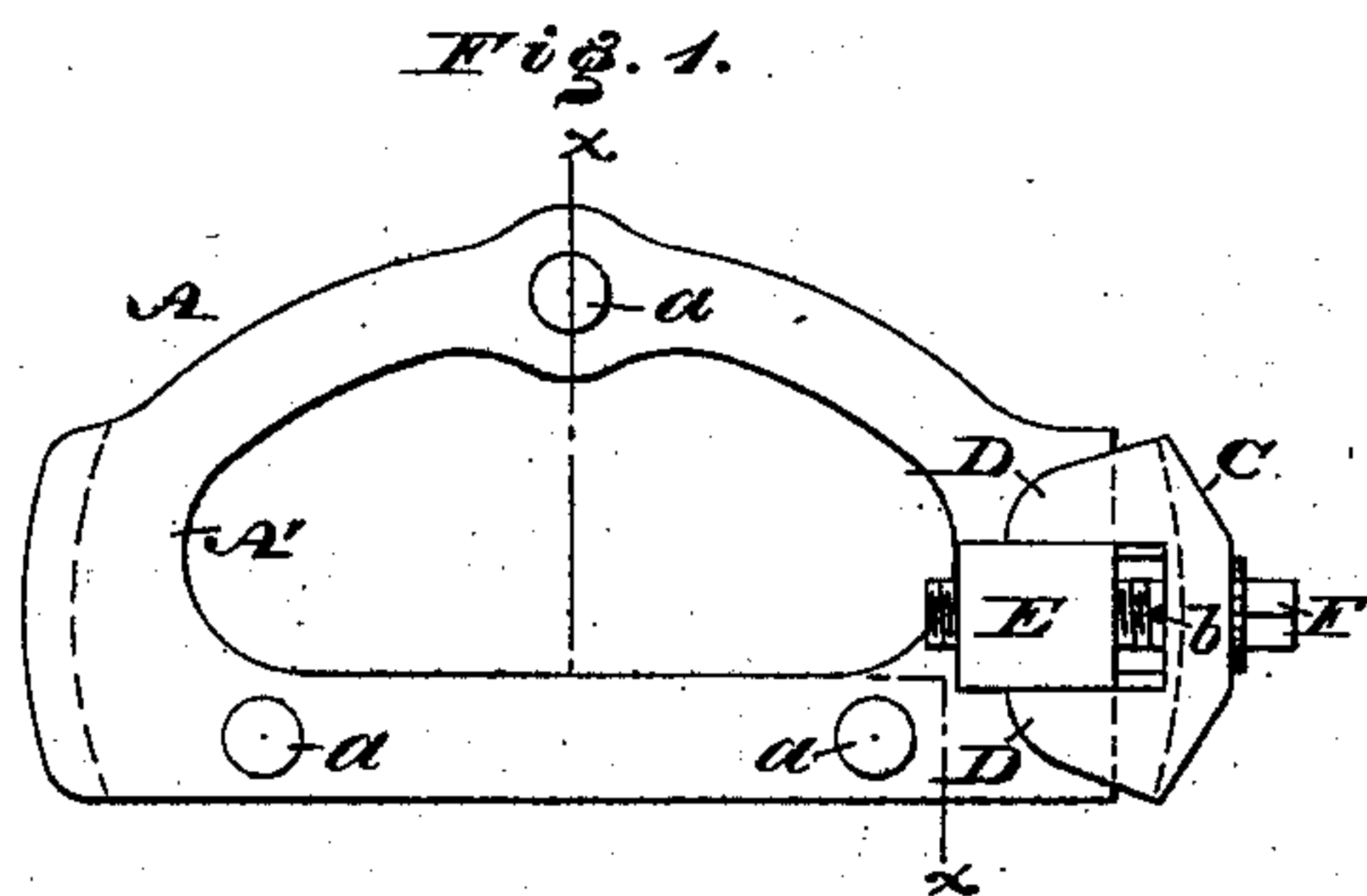


(No Model.)

J. REIST.
ICE CREEPER.

No. 292,509.

Patented Jan. 29, 1884.



WITNESSES:

L. Douville
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INVENTOR:

BY

John Reist,
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UNITED STATES PATENT OFFICE.

JOHN REIST, OF PHILADELPHIA, PENNSYLVANIA.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 292,509, dated January 29, 1884.

Application filed October 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN REIST, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Ice-Creepers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a bottom plan view of an ice-creeper embodying my invention. Fig. 2 is a partial side elevation and partial vertical section thereof. Fig. 3 is a vertical section in line *x x*, Fig. 1. Fig. 4 is a sectional view of a portion, showing a modification.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of an ice-creeper which is simple and inexpensive in construction and quickly applied, the features being hereinafter fully described and definitely claimed.

Referring to the drawings, A represents the body of the creeper, formed of a plate, A', of metal, with spurs *a*, and a fixed clip, B, the latter being cast with or secured to the plate at one side thereof.

C represents a movable clip, which is located on the side of the plate A' opposite to the clip B, and formed at its bottom with a slot, forming two lips, D, which extend horizontally inward, producing an angle, and are separated, so as to engage with a lug, E, which is cast with or secured to the under side of the plate A', the contiguous sides of the lips and lug being dovetailed or otherwise tongued and grooved.

F represents a screw, which is swiveled to the clip C, and engages with a threaded opening in the lug E. Said screw may, however, be swiveled to the lug E, and engage with a threaded opening in the clip C, so that in

either case said clip may be readily moved in or out by proper operation of the screw, it being noticed that the lug E is adapted both for engagement of the connecting-screw of the movable clip and the guidance of the lips D of said clip.

The creeper is fitted to the sole of the boot or shoe of the wearer so that the clips B C are at the sides thereof. The screw F is then rotated, whereby the clip C is moved inwardly or toward the fixed clip B, the effect whereof is to clamp the clips on the sole and hold the creeper securely in position. By rotating the screw in the opposite direction the clips are separated, thus releasing their hold and permitting the displacement of the creeper.

It will be seen that by the present construction a short screw is employed, and the same is not liable to be lost. The movable clip is strengthened at bottom by the lips D and the lug E, and said lips D provide a strong connection of the movable clip with the plate.

For convenience of operating the screw its head end is squared, and projects sufficiently to be engaged by a key or other suitable implement.

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

An improved ice-creeper consisting of a plate with a fixed clip at one side and a fixed perforated lug at the other side, a movable slotted clip fitted to said lug, and a screw which passes through the movable clip and engages with the perforated lug, substantially as described.

J. REIST.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.