

E. B. COLBY.

Ice-Creepers.

No. 135,629.

Patented Feb. 11, 1873.

Fig. 1.

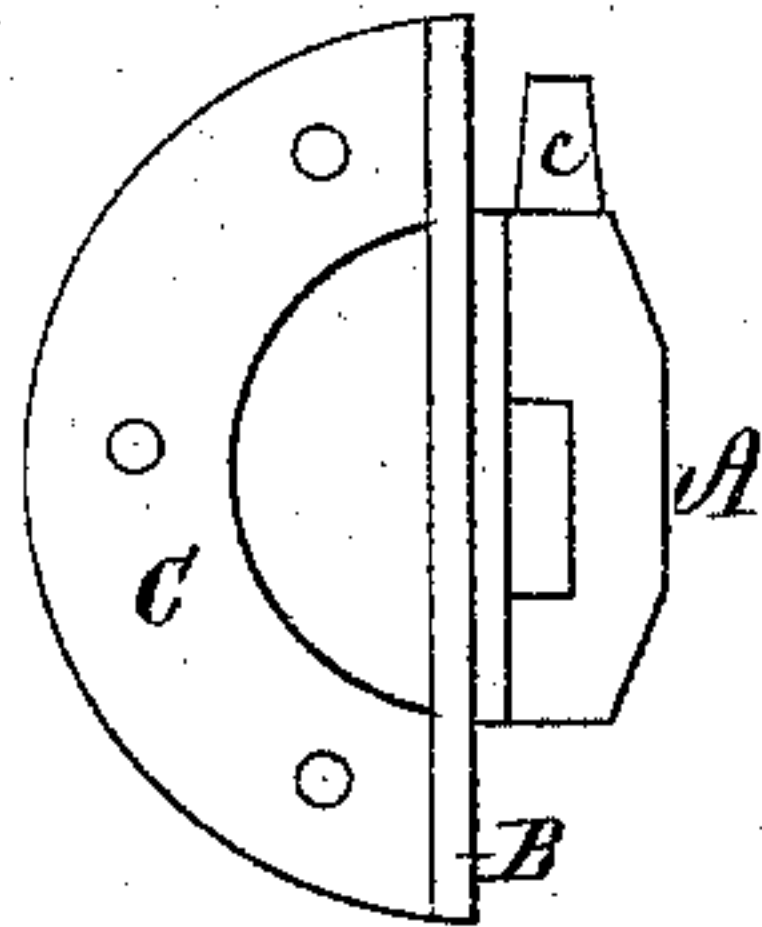


Fig. 2.

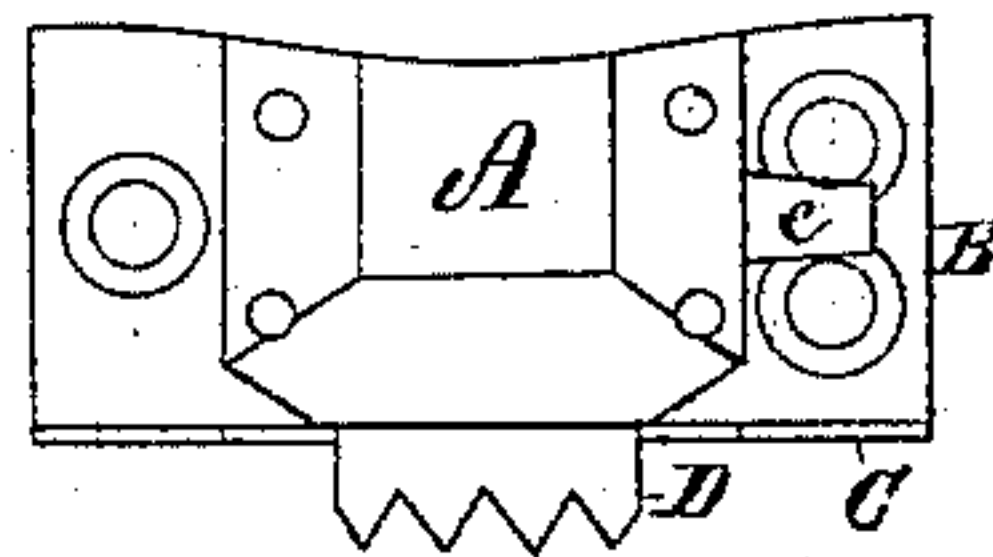


Fig. 3.

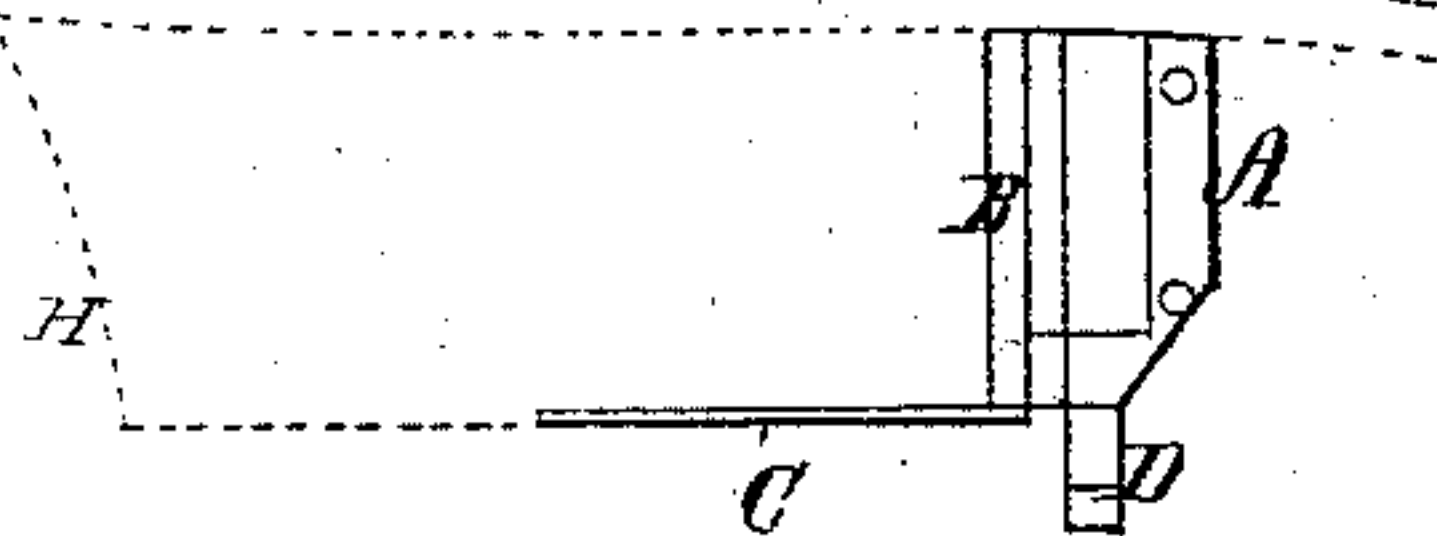


Fig. 4.

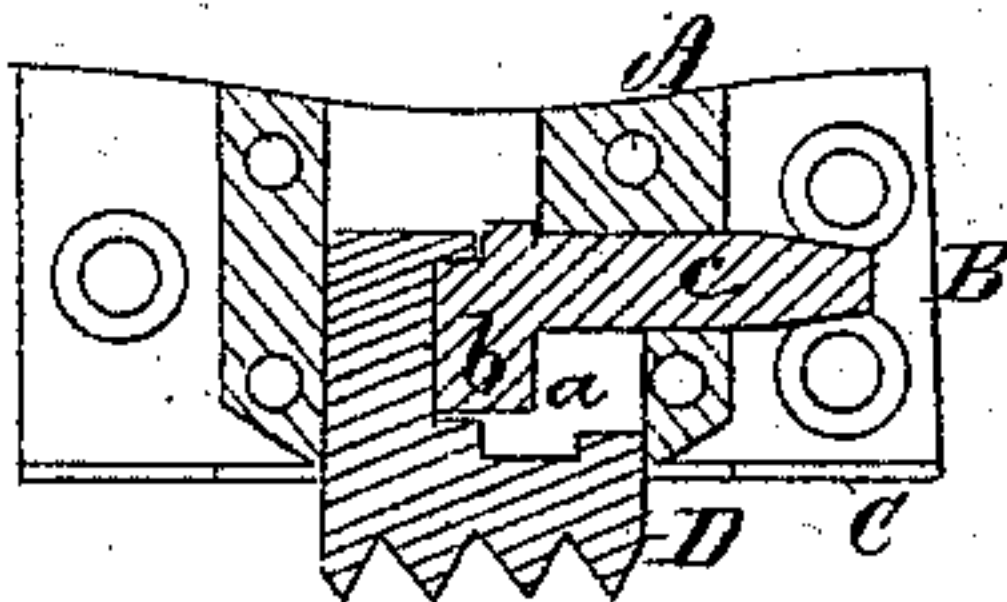


Fig. 5.

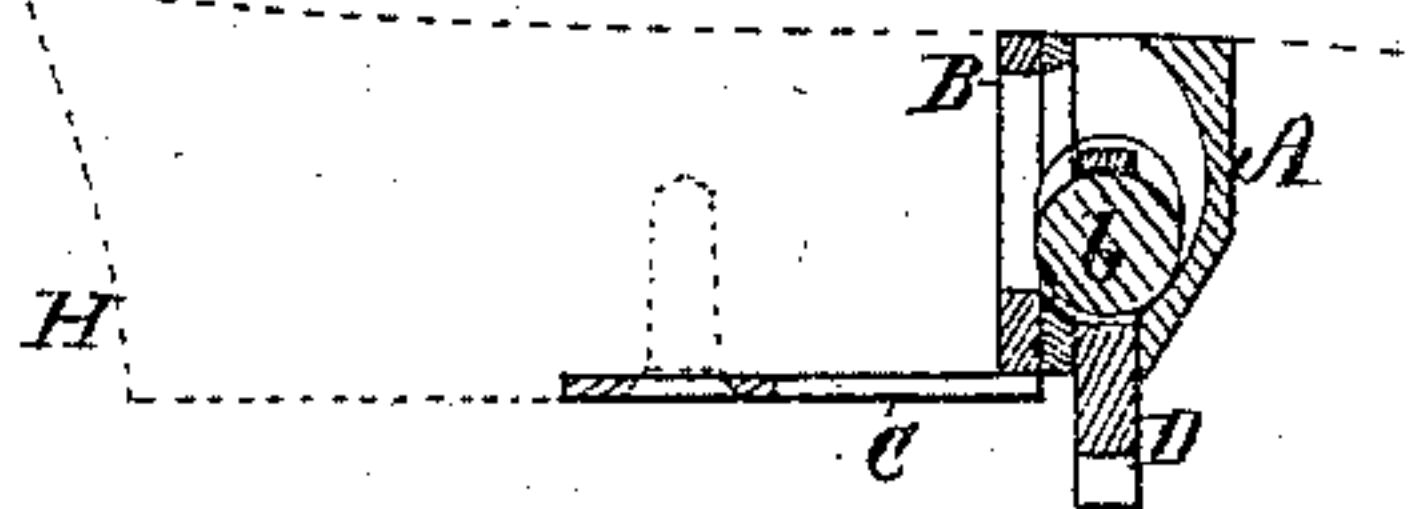
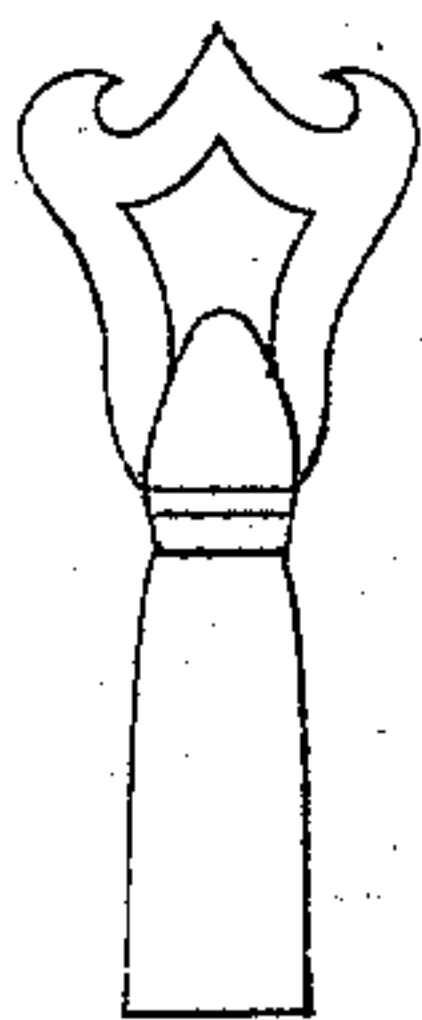


Fig. 6.



Fig. 7.



Witnesses

S. W. Piper.

L. N. Höller.

Ebenezer B. Colby.

by his attorney

R. H. Eddy

# UNITED STATES PATENT OFFICE.

EBENEZER B. COLBY, OF FRANKLIN, NEW HAMPSHIRE.

## IMPROVEMENT IN ICE-CREEPERS.

Specification forming part of Letters Patent No. **135,629**, dated February 11, 1873.

*To all whom it may concern:*

Be it known that I, EBENEZER B. COLBY, of Franklin, of the county of Merrimack and State of New Hampshire, have invented a new and useful "Creeper" or apparatus to be applied to a shoe or boot to prevent the wearer from falling or slipping on ice or in ascending or descending a hill or declivity; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view, Fig. 2 a front elevation, Fig. 3 an end view, Fig. 4 a transverse section, and Fig. 5 a longitudinal section, of it.

It is to be applied to the heel of a shoe or boot, to be arranged therewith in manner as shown in some of the above-mentioned figures, wherein the heel is exhibited at H by dotted lines, it being fastened in place by screws going through holes in the sustaining-lips and screwed into the heel.

In the drawing, A denotes a case or box fixed to the upper of two sustaining-lips, B C, fastened together and arranged at a right angle to one another, the lower of such lips being, in form, an arc of a circular annulus. The box A is open at bottom, and contains a movable serrated or saw-toothed spur, D, formed as shown in the drawing and particu-

larly in side view in Fig. 6, it being chambered, as represented at *a*, to receive a cam, *b*, fixed on the end of an arbor, *c*, the said arbor being arranged in and so as to project from the box in manner as exhibited. The part of the arbor which projects from the box should be prismatic to enter a key such as shown in Fig. 7. On revolving the arbor by means of the said key the spur may be either drawn in to the box or caused to project from it, the cam holding the spur in either position.

From the above it will be seen that when the spur extends out of the box and below the heel it (the spur) will serve to prevent a person from slipping while walking or standing on ice or frozen ground, or going up or down a declivity; but when the spur is wholly within the box such spur will be protected from wear or injury.

I claim—

In an ice-creeper, the combination of either or both the lips B C with the box or case A and the serrated spur D, provided with mechanism for operating it, as described.

EBENEZER B. COLBY.

Witnesses:

ISAAC N. BLODGETT.

FRANK D. PURRIN.