

C. Hoeller.

Ice Creeper.

N^o 94,888.

Patented Sept. 14, 1869.

Fig. 1.

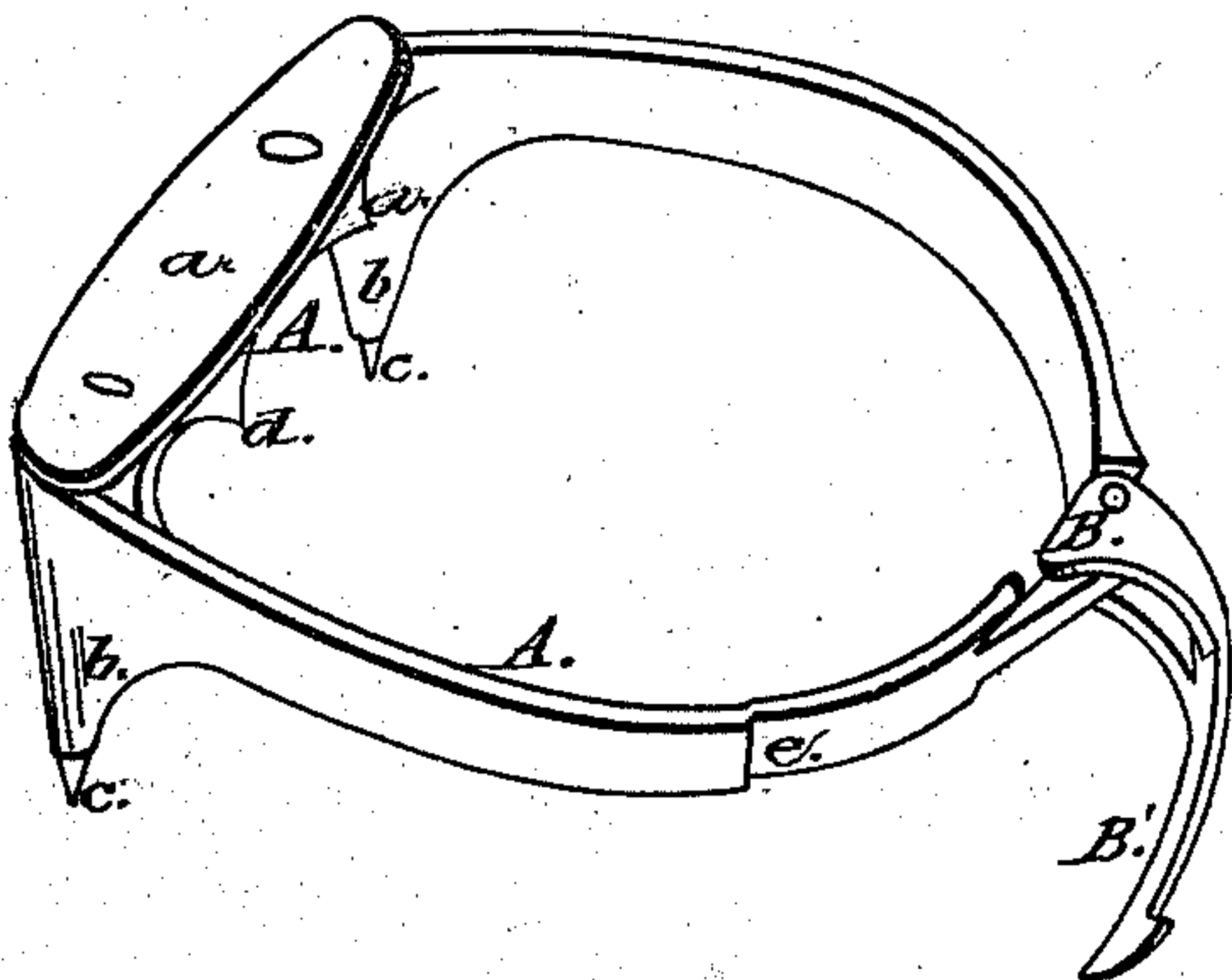


Fig. 2.

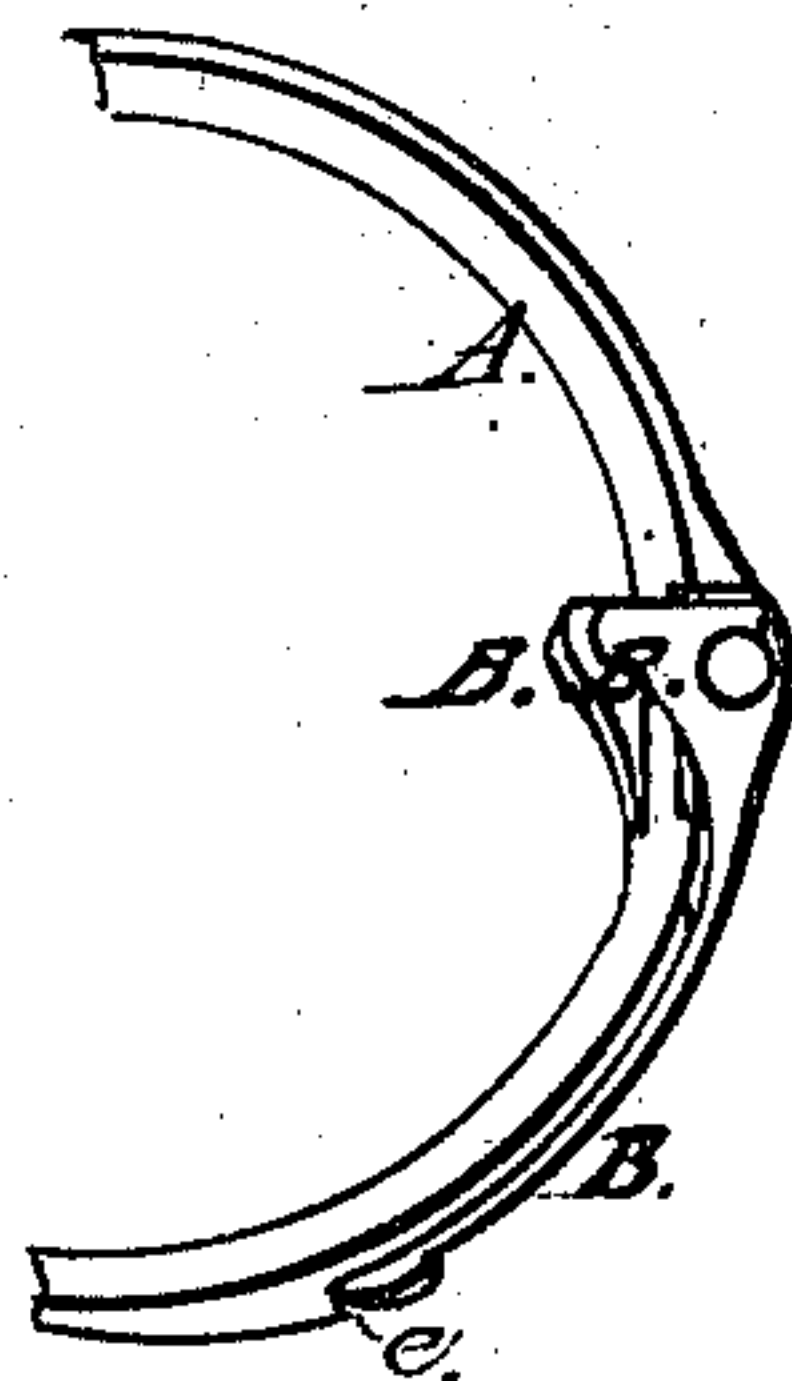
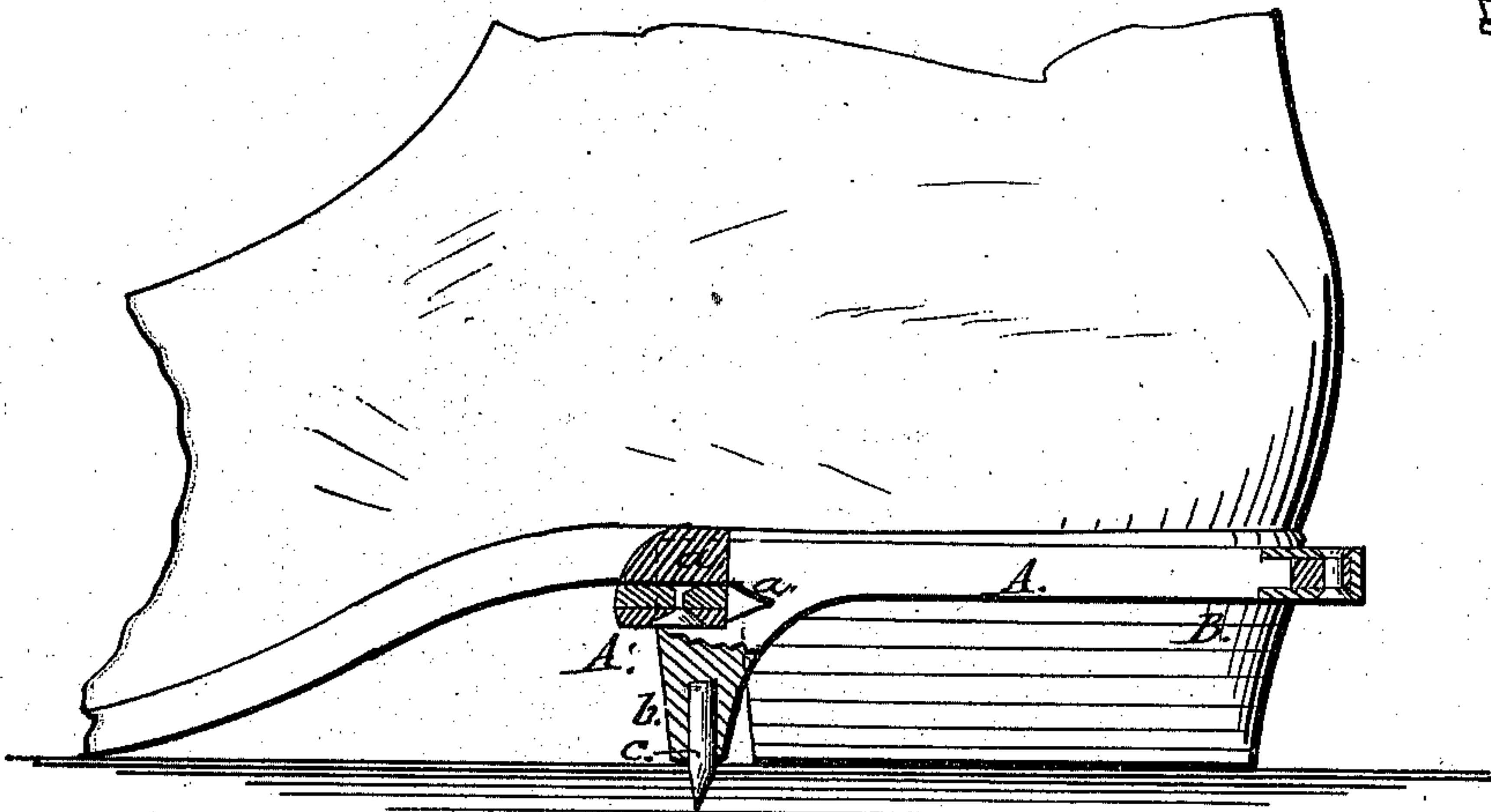


Fig. 3.



Witnesses:
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United States Patent Office.

C. HOELLER, OF CINCINNATI, OHIO.

Letters Patent No. 94,888, dated September 14, 1869.

IMPROVED ICE-CREEPER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, C. HOELLER, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and useful Improvement in Ice-Spurs, for Boots and Shoes, of which the following is a full, and clear description, reference being had to the accompanying drawings, making part of this specification.

My invention consists in a stirrup-shaped frame of metal, armed with spurs, and provided with prominent and eccentrically-pivoted knife-edges, which are designed to enter the heel of the boot or shoe, when the metallic frame is adjusted upon it.

The object of this device is to prevent slipping, where the pedestrian passes over icy surfaces.

Figure 1 is a perspective view of my improved ice-spur, as it appears before being applied to the heel of the boot.

Figure 2 is a plan of the rear section of the ice-spur, the eccentrically-pivoted knife-edges projecting within the frame of the ice-spur.

Figure 3 is a longitudinal section of the same, and a section of one of the spurs.

A is the frame of the ice-spur, constructed of metal, and having the shape of a stirrup.

A' is the bridge-piece secured to the ends of the curved frame A; is concave on the upper face, and is provided with a cushion of leather, *a*, or other suitable material, riveted to bridge A.

The bosses *b* project down from angle-point of union of the frame A and the bridge A'. In length they are at least twice that of the depth of the frame A.

Steel points *c* project from the extreme ends of the bosses *b*, to which they are securely attached, being either tapped in or, which is more economical, and to be preferred, bedded in the metal when cast.

d are knife-edges, projecting rearward from the bridge A', of which they are a part.

The two eccentric knife-edges B, attached to the handle B', are pivoted to the frame A, directly opposite the centre of the bridge A'.

e is a recess in the side of the frame A, adapted to receive the end *f* of the handle B', when the knife-edges are caused to enter the heel, having been rotated through about the one-fourth of a complete circle.

When it is desired to adjust the ice-spur to the heel, the handle B' is withdrawn from the frame A, as exhibited in fig. 1. The knife-edges B no longer projecting within the frame A, the heel may be inserted.

When the cushion *a* is in close contact with the sole of the shoe or boot, the handle B is pressed in toward the frame A, until the eccentric knife-edges shall have entered the heel at the rear. At the same time the prominent knife-edges *d* are forced into the front face of the heel, and the ice-spur is secured to the boot, as exhibited in the section, fig. 3.

For equestrians I design substituting a pointed set-screw in the centre of the rear of the frame A, in place of the eccentrically-placed knife-edges. The set-screw will be provided with an ordinary spur, which will serve the purpose of securing the set-screw in the heel.

The ice-spur herein described is both novel and simple in construction.

What I claim as new, and desire to secure by Letters Patent, is—

The frame A, the bridge A', provided with a series of knife-edges, the bosses *b*, armed with steel-points, the cushion *a*, and eccentric knife edges B, or their equivalent, when the same are constructed and arranged substantially as and for the purpose specified.

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Witnesses:

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