

(No Model.)

F. W. COE.
ICE CREEPER.

No. 405,873.

Patented June 25, 1889.

Fig. 1.

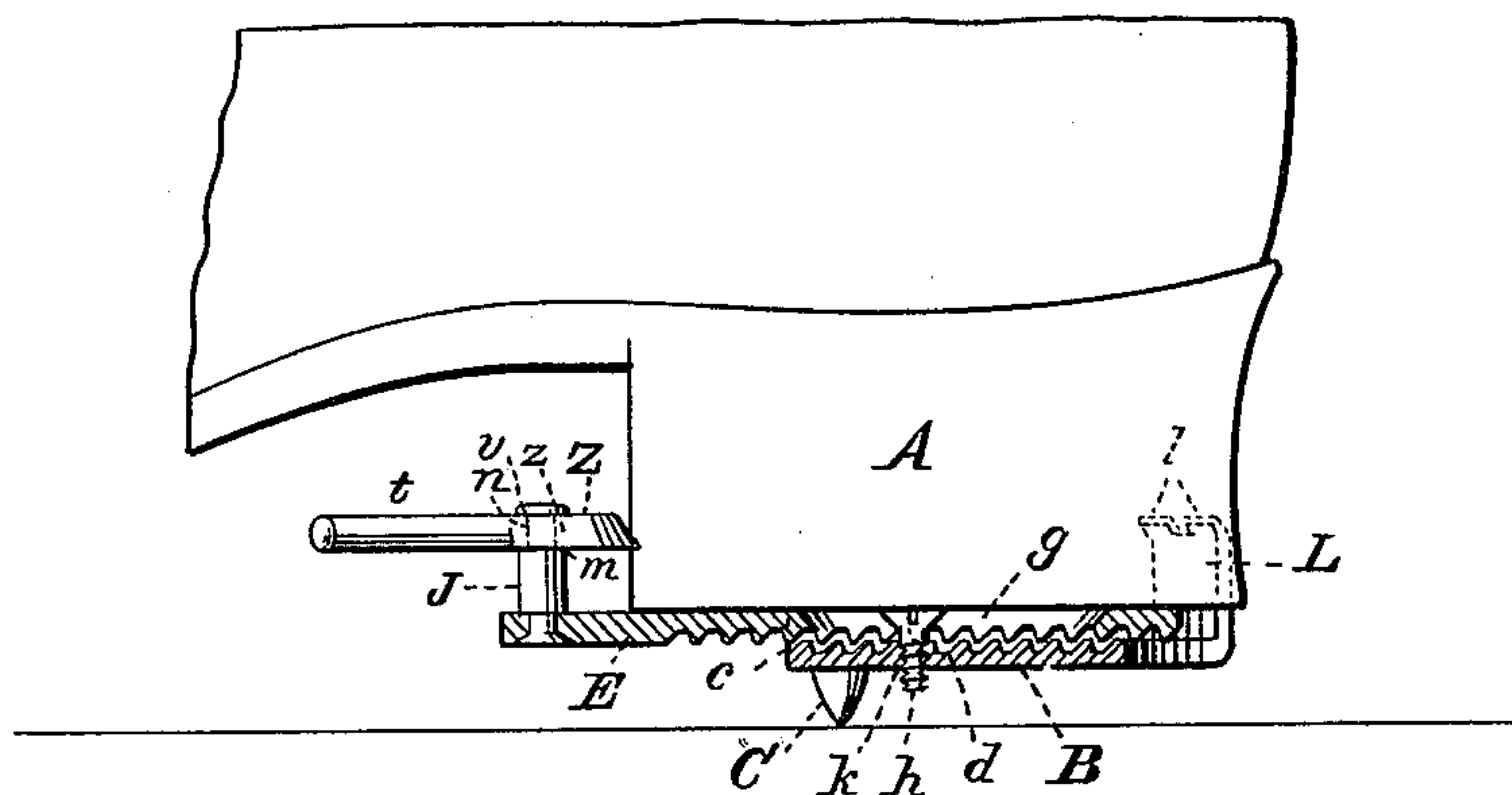


Fig. 2.

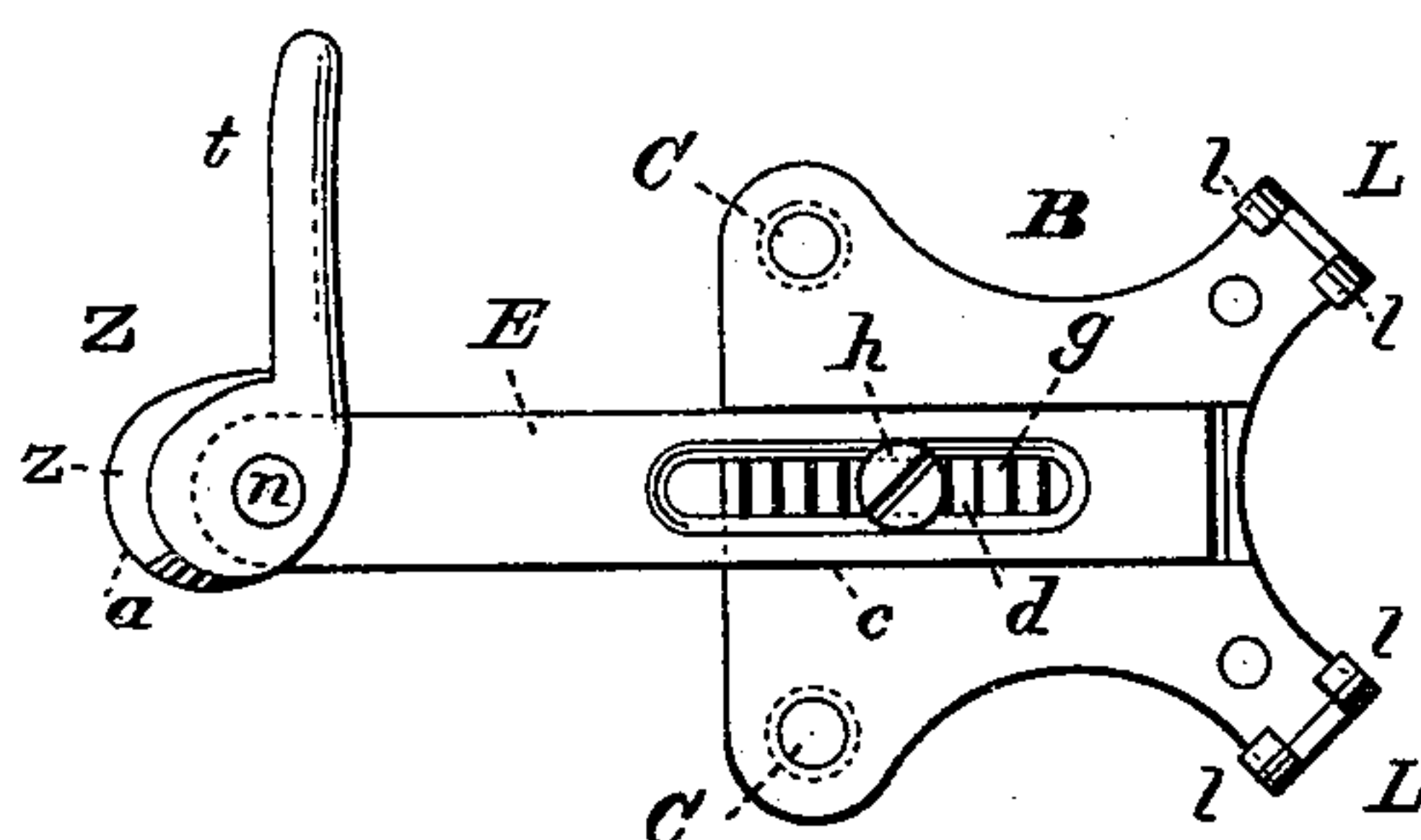
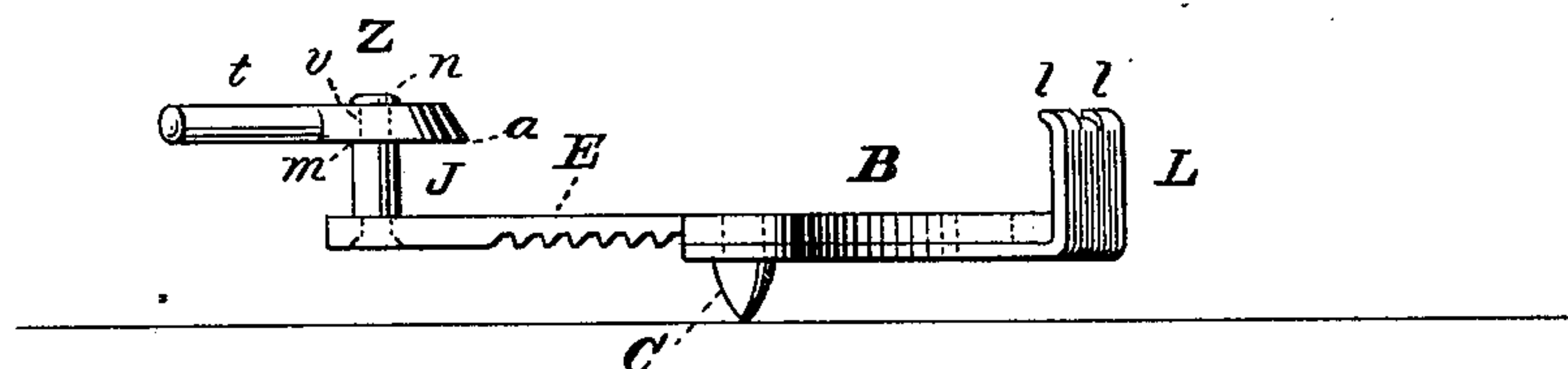


Fig. 3.



WITNESSES:

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FREDERICK W. COE, OF VERGENNES, VERMONT.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 405,873, dated June 25, 1889.

Application filed March 20, 1889. Serial No. 304,000. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. COE, a citizen of the United States, and a resident of Vergennes, in the county of Addison and State of Vermont, have invented certain new and useful Improvements in Ice-Creepers; and I do declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a longitudinal section. Fig. 2 is a top view. Fig. 3 is a side view.

This invention relates to ice-creepers designed to be worn on the surface of the heel of a boot or shoe and having raised spurs to prevent the foot from slipping on the ice, and it refers particularly to the devices for practically attaching the creeper to and detaching it from the heel, said devices being adjustable, so that the creeper can be quickly fitted to a heel of any ordinary size.

In the accompanying drawings, the letter A designates the heel, and B the heel-plate provided with ice-spurs C. The plate is channeled in its upper surface longitudinally and centrally, as at *c*, and the floor of the channel (indicated at *d*) is preferably corrugated or ribbed transversely to engage the slotted adjustable clamp-bar E, which is seated in the said channel, its upper surface being flush with the surface of the plate B. The bar E is slotted at *g*, and through said slot extends the clamp-screw *h*, which engages a threaded perforation *k* in the floor of the channel of the plate B. When this screw is loosened, the bar E can be adjusted longitudinally, and it is fastened after adjustment

by means of said screw. The rear portion of the creeper-plate is provided with the raised clamp-lugs L, which have the forward bent teeth *l* at the upper ends designed to engage the rear surface of the heel.

The front end of the bar E is provided with a post J, which rises therefrom and is shouldered near its upper end, as at *m*, around the pivot portion *n*, which receives the turning catch Z. This catch usually consists of a cam-shaped head *z*, perforated at *v* to form a bearing for the pivot *n* of the post and provided with an arm *t*, which extends tangentially from its body portion. The eccentric fastening edge of the cam is beveled downward and outward, so that its lower angular edge *a* is acute.

The sliding bar E having been adjusted to suit the size of the heel, the creeper is applied thereto by placing it under the heel with its rear lugs in engagement with the back of the same. Then the cam-lever catch is turned, causing its acute eccentric edge to engage forcibly the front of the heel, so that the creeper is firmly secured thereto. To detach the creeper, the cam-lever is turned away from the front of the heel, loosening the eccentric-catch.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The ice-creeper consisting of the heel-plate having the rear clamp-lugs and the corrugated middle channel, the slotted adjustable serrated bar, its fastening-screw, and the cam-lever catch connected to the front end of said bar, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK W. COE.

Witnesses:

D. H. LEWIS,
SPENCER W. HINDES.