

(No Model.)

H. S. PULLMAN.
ICE CREEPER.

No. 330,512.

Patented Nov. 17, 1885.

Fig. 1

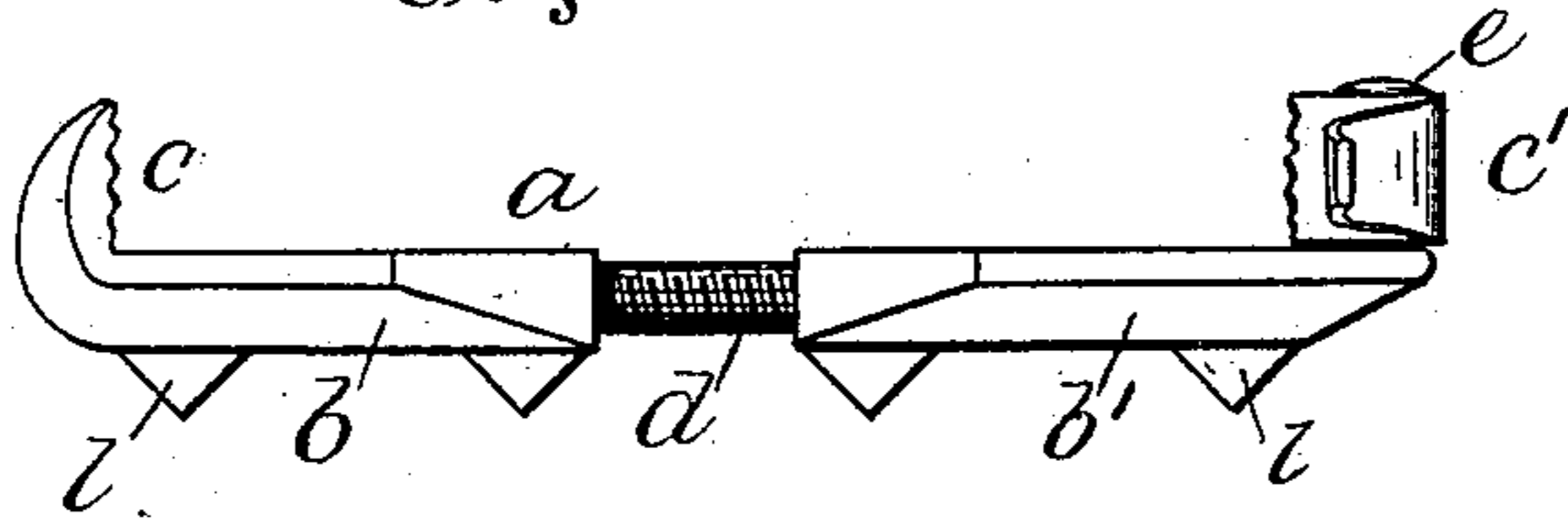


Fig. 2

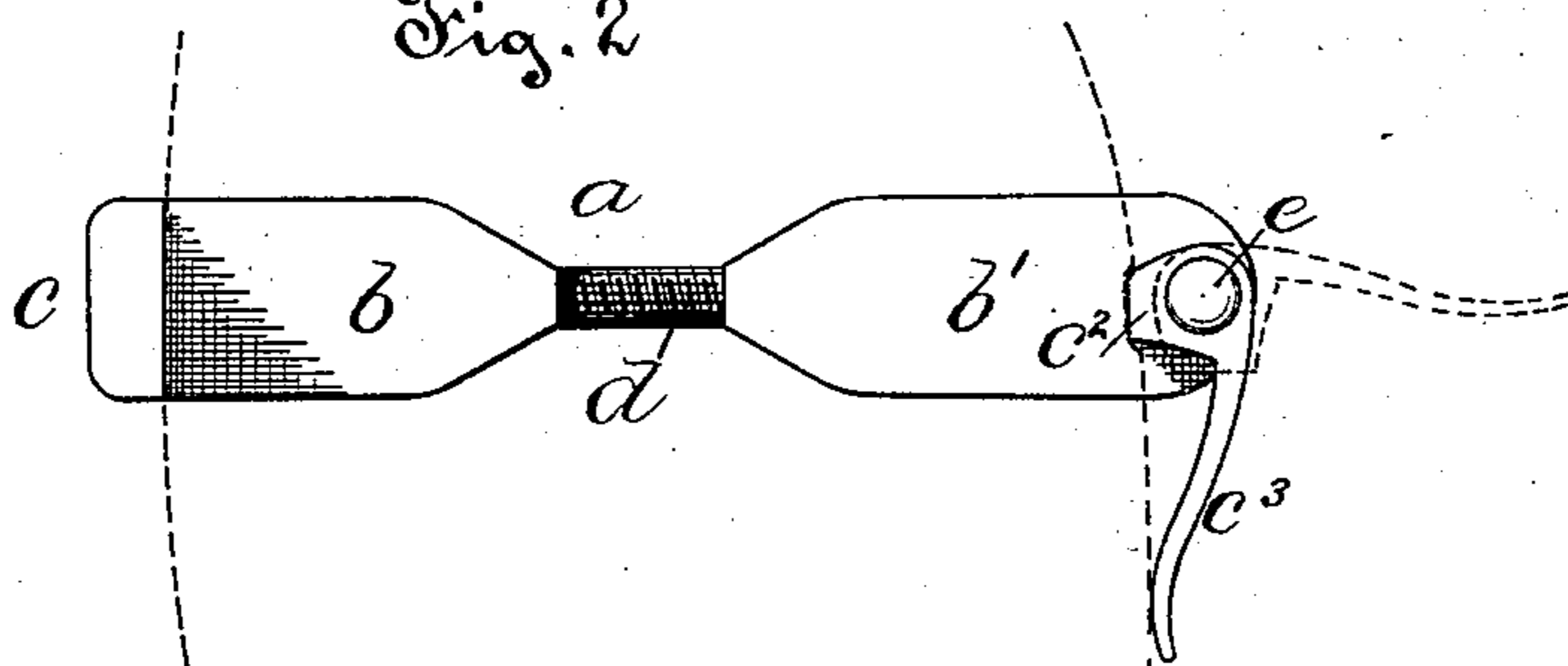
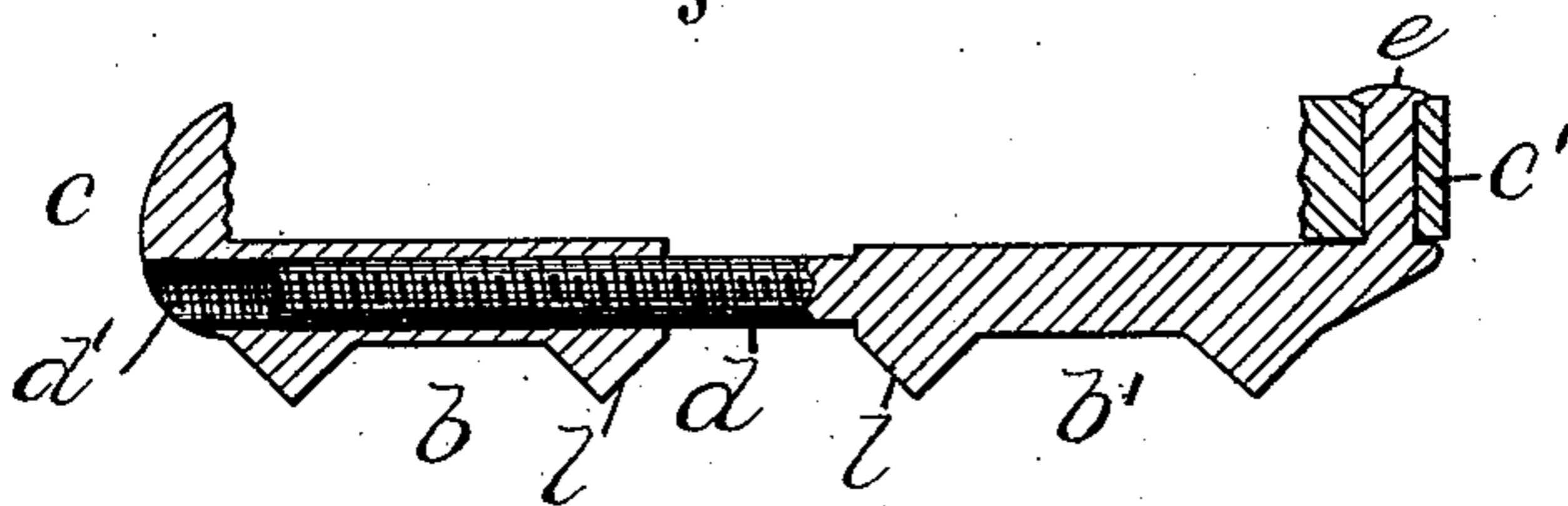


Fig. 3



Witnesses:
H. R. Williams.
A. C. Tanner

Inventor -
Herbert S. Pullman,
By Simonds & Bunnett,
Atty.

UNITED STATES PATENT OFFICE.

HERBERT S. PULLMAN, OF ROCKVILLE, CONNECTICUT, ASSIGNOR OF ONE-HALF TO JOSEPH C. HAMMOND, JR., OF SAME PLACE.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 330,512, dated November 17, 1885.

Application filed July 6, 1885. Serial No. 170,675. (No model.)

To all whom it may concern:

Be it known that I, HERBERT S. PULLMAN, of Rockville, in the county of Tolland and State of Connecticut, have invented certain
5 new and useful Improvements in Ice-Creepers, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a side view of the creeper. Fig. 10 2 is a top view. Fig. 3 is a view in central-vertical longitudinal section of the device.

My invention relates to the class of devices that are applied to the foot of a person to prevent slipping on smooth surfaces—as ice; and
15 it consists of an adjustable base-plate with an ear or stationary clamp on one end and a cam-clamp on the other end, whereby the device can be attached to or detached from the bottom of the boot or shoe of the user, as the
20 need be, the base-plate having lugs or calks projecting downward to prevent the slipping.

In the accompanying drawings, the letter *a* denotes the creeper as a whole; *b b'*, the base-plate with the ear or stationary clamp *c* on the
25 part *b*, and *c'* the cam-clamp on the part *b'* of the base-plate, the inner faces of the clamps being preferably roughened in order to prevent them from slipping on the edge of the sole of the shoe to which the clamp is secured. The bearing-
30 faces of these clamps are preferably at right angles to the base-plate, so that the sole of the boot or shoe may be readily grasped and held between them when it is desired to use the device. Integral with the part *b'* of
35 the base-plate is the screw *d*, which fits in a threaded socket, *d'*, in the part *b*. By means of this construction the two parts of the base-plate *b b'*, bearing the clamps, can be screwed together or unscrewed in order to adjust the
40 clamps at any distance to fit any width of shoe.

This device is more particularly adapted for use on the sole of a boot or shoe, and after the base-plate has been adjusted to about the width of the sole it is placed on the latter, the

handle of the clamp *c'* being thrown outward, 45 and when the bearing-faces are opposite the edges of the sole the handle of the lever is turned inward to the position shown in full lines in Fig. 2, and the device thereby firmly
50 clamped to the shoe. The cam-clamp *c'* is pivoted to the part *b'* of the base-plate on the pin or stud *e*, and it consists of the cam *c''*, with the roughened holding-face and the handle *c'''*, by means of which the cam is operated. When
55 the handle is closed against the sole of a boot or shoe, as illustrated in Fig. 2 in full lines, the device is held firmly in place, and it may be readily removed from the sole by simply
60 swinging the handle of the cam outward to the position shown in dotted outline.

From the bottom of the base-plate project any number of calks or projections, *l*, preferably cast integral with the plate, which serve to prevent slipping—as on ice.

I claim as my invention— 65

1. In an adjustable ice-creeper, in combination, the extensible base-plate joined in the direction of its length by the threaded stem on the one part fitted into the threaded socket in the other part, one body part, *b*, bearing 70 the fixed clamp *c*, and the other part, *b'*, bearing the cam-clamp *c'*, with the lever-handle, and swinging on a pivot, *e*, on the base-plate, all substantially as described.

2. In combination, the base-plate formed in 75 parts *b b'*, with calks *l* on the under surface, and bearing on the outer ends, respectively, the fixed clamp *c*, and the cam-clamp *c'*, the parts of the base-plate being joined by the threaded stem *d*, that fits within the threaded 80 socket *d'* in the opposite part, whereby the several clamps may be set at varying distances, all substantially as described.

HERBERT S. PULLMAN.

Witnesses:

A. C. TANNER,
H. R. WILLIAMS.