

(No Model.)

G. D. MUSSEY.
ICE CREEPER.

No. 488,215.

Patented Dec. 20, 1892.

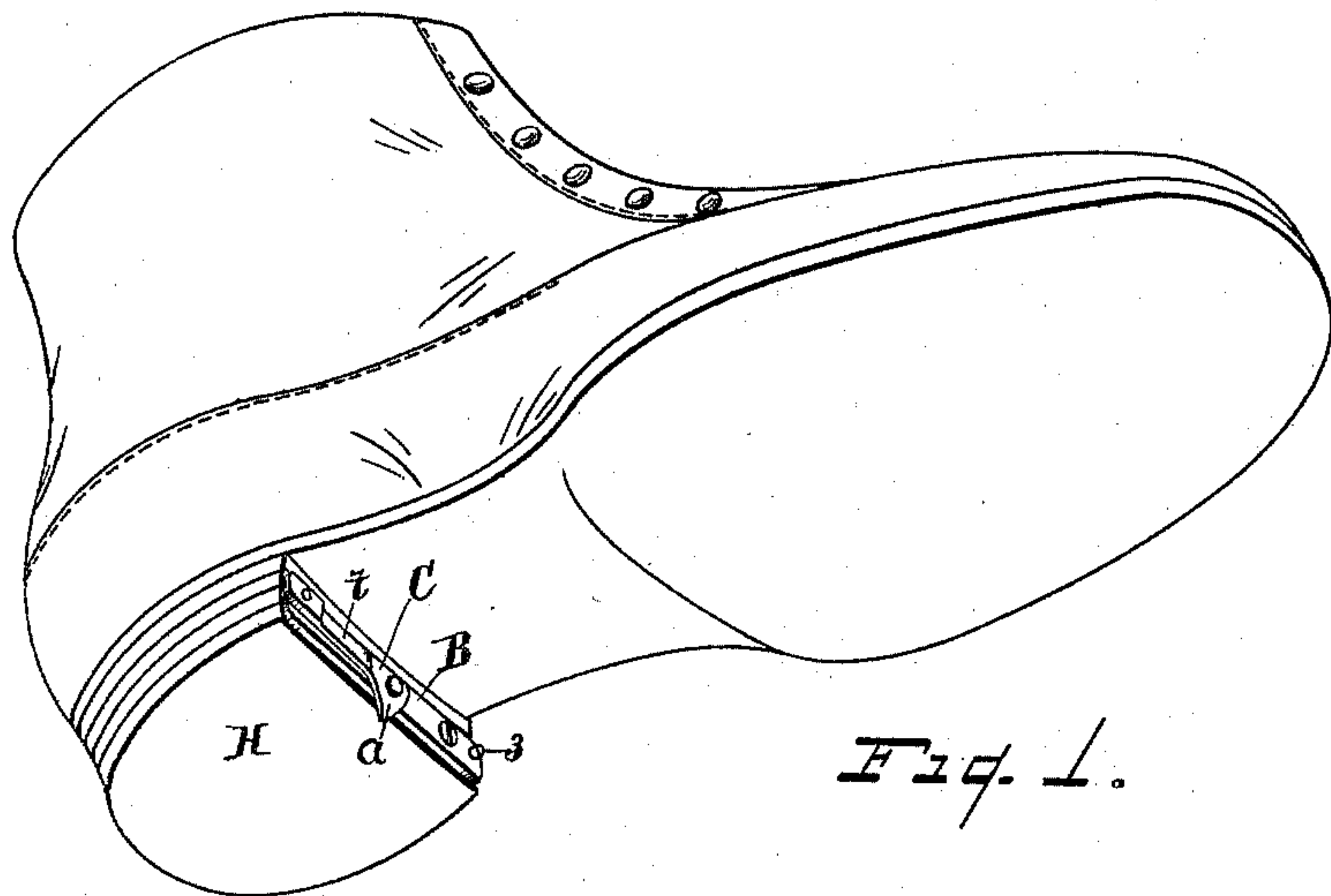


Fig. 1.

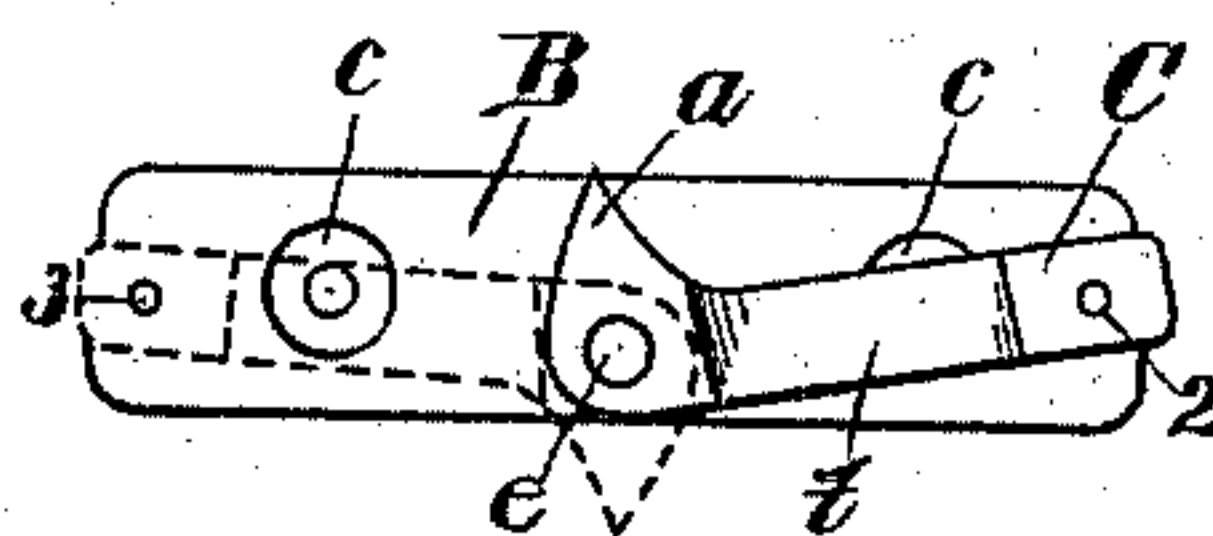


Fig. 2.



Fig. 3.

WITNESSES.

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GEORGE D. MUSSEY, OF DETROIT, MICHIGAN.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 488,215, dated December 20, 1892.

Application filed August 24, 1891. Serial No. 403,626. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. MUSSEY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, 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 will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in ice-creepers; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out particularly in the claims.

The object of the invention is to provide a simple and effective device, adapted to be secured to the heel of a shoe, that will prevent slipping on the ice, and in which the arrangement is such that the engaging-spur may be readily projected or withdrawn, when desired, without removing the device from the heel. This object is attained by the construction illustrated in the accompanying drawings, in which;

Figure 1 is a perspective view of a shoe, showing my improved device attached to the heel thereof. Fig. 2 is an enlarged plan view of the device. Fig. 3 is longitudinal section through Fig. 2.

Referring to the letters and figures of reference B designates the oblong metal base-plate, which is provided with the countersunk holes *c* that receive the screws for attaching it to the heel.

C designates an elongated spring-plate or arm provided at one end with the spur-head *a*, which is eccentrically pivoted to the plate B at the longitudinal center of said plate, by means of the pivot *e*. The opposite end of said arm being provided with a hole 2 that receives the pins 3 set in the plate B at each end, whereby said arm is locked in position when adjusted, the spring portion *t* of said arm yielding sufficiently to permit the free end thereof to spring outward so as to ride over the end of said pin until it enters the hole 2 in said arm, when the tension of said spring will securely retain said parts in the locked position.

The plate B is secured to the front vertical face of the heel H, so that its lower edge will stand flush with the bottom of said heel, as clearly shown in Fig. 1. In which position, by throwing the pivoted spring-arm C to the left, and locking it as before described, the spur-point *a* will be thrown down or projected beyond the bottom of the heel, clearly shown in Fig. 1, and by dotted lines in Fig. 2, and securely held in that position. When said spur will engage in the ice and prevent slipping, as will be readily understood. To withdraw the spur, the arm C is unlocked and swung outward to the right, whereby the spur-point is turned upward, as shown in Fig. 2, and by locking the arm C over the pin 3, the spur is secured in that position, where it is entirely out of the way, and in no manner interferes with walking.

Instead of one spur-point, two or more points may be employed, as desired.

It will now be apparent, that this improved device is simple and inexpensive, and that when secured to the heel, the spur may be quickly and easily projected or withdrawn, when desired.

Having thus fully set forth my invention, what I claim as new and desire to secure by Letters Patent, is;

1. In an ice-creeper, the combination with the base-plate, said plate having a projection at each end thereof, of the swinging spring-arm having a spurred head at one end, said head being pivoted to the longitudinal center of said base-plate, the free end of said arm being adapted to spring over and engage the projections on the base plate to lock it in position.

2. In an ice-creeper, the combination with the base-plate having means for attachment to the shoe and provided with a pin at each end projecting from the face of said plate, of the swinging-arm eccentrically pivoted at one end to said plate, said arm having a spur at its pivoted end, and a hole in its free end that receives the pins of the base-plate, as and for the purposes specified.

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

GEORGE D. MUSSEY.

Witnesses:

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