No. 822,662. PATENTED JUNE 5, 1906.

C. FEISTER.

ICE CREEPER.

APPLICATION FILED NOV. 14, 1905.

Fig. 1.

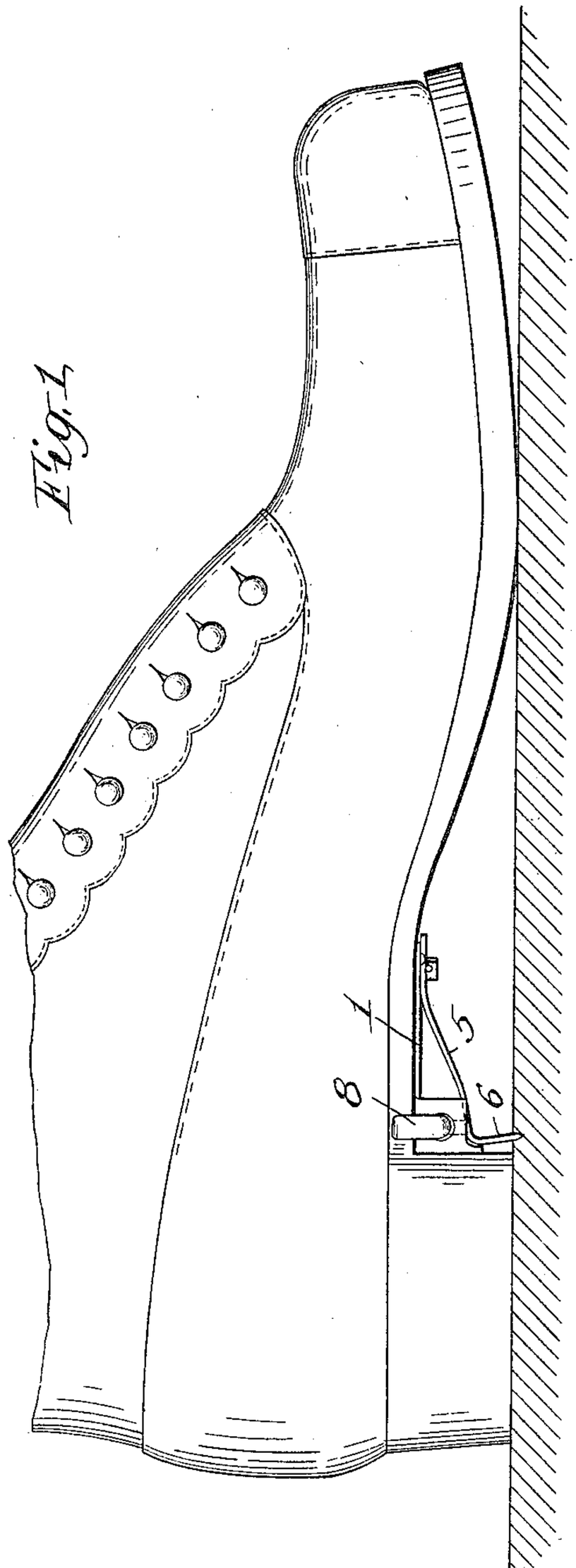


Fig. 3.

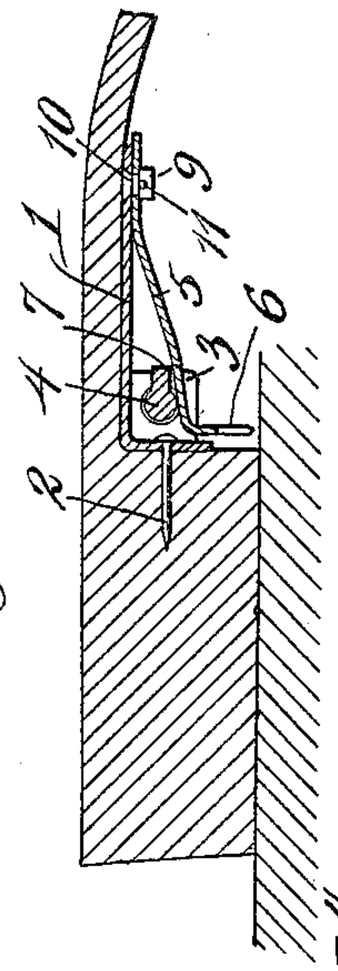


Fig. 4.

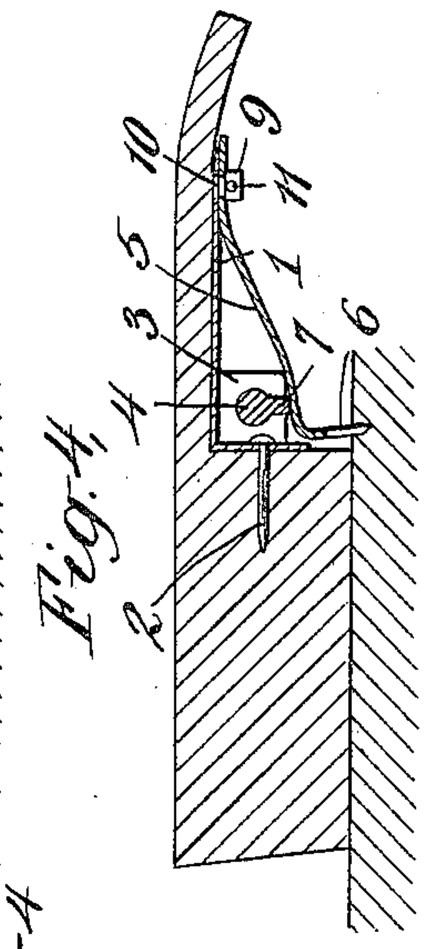
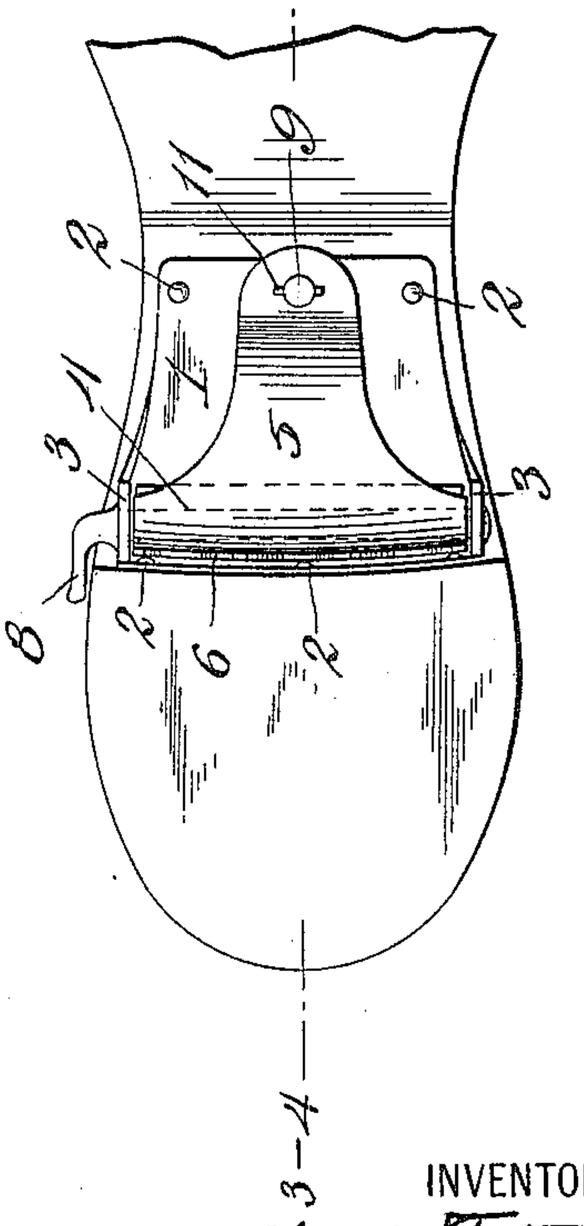


Fig. 2.



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ICE-CREEPER.

No. 822,662. Specification of Letters Patent. Patented June 5, 1906.

Application filed November 14 1905. Serial No. 287,233.

To all whom it may concern:

Be it known that I, CHARLES FEISTER, a citizen of the United States, residing in Ardsley, Westchester county, New York, have invented certain new and useful Improvements in Ice-Creepers, of which the following is a specification.

My invention relates to improvements in what are termed "ice-creepers"—that is to say, attachments for shoes to prevent the wearer from slipping on snow and ice and to give a firm foothold.

My invention consists in the novel construction of the device.

The objects of my invention are to improve and simplify ice-creepers such as described, to make the same simple, reliable, inconspicuous when in place, and easily operated to throw the teeth or blade into or out of operative position, and to make such device cheap to manufacture and easy to apply.

I will now proceed to describe my invention with reference to the accompanying drawings, illustrating one embodiment thereof, and will then point out the novel feature in the claims.

In the said drawings, Figure 1 shows a side view of a shoe with my improved ice-creeper applied thereto. Fig. 2 shows a bottom view of a portion of the shoe with the creeper in place thereon. Figs. 3 and 4 are similar longitudinal sections of the creeper in place, Fig. 3 showing the blade withdrawn out of operative position, and Fig. 4 showing the blade in operative position.

My improved ice-creeper comprises a base-plate 1, designed to be secured to the sole of the shoe and to the heel thereof by suitable means, such as nails 2, and to be located directly in front of and secured to the front side of the heel. For this purpose the end of the base-plate is bent substantially at right angles to the main portion thereof, and preferably ears 3 are likewise formed on said base-plate and bent downwardly to form bearings for the cam 4. To this base-plate is secured a spring-blade 5, guided and braced laterally by the ears 3. The cam 4 is provided with a projecting lug 7, which when horizontal permits the teeth 6 to clear the ground, while when said cam is turned so as to bring the lug downward the teeth 6 are pressed down so as to bite into the snow or ice.

For convenience in turning the cam an operating finger-piece 8 is provided. Said finger-piece is turned at right angles to the cam, so as to lie closely against the heel or against the sole of the shoe, according to its position. The blade 5 is preferably attached removably to the base-plate 1, and I have indicated for the purpose a head 9, held in place on a stem 10 by a rivet 11. When the footing is not slippery, the teeth 6 will ordinarily be in their upper position clear of the ground, and therefore entirely out of the way. When snow or ice is encountered, the finger-piece 8 is turned, therefore forcing the teeth 6 downward and bringing the device into use. Because of the location of the creeper just in front of the heel it is very inconspicuous and will scarcely be noticed. The device is easily applied to and removed from the shoe.

What I claim is—

1. In an ice-creeper the combination with a base-plate having bearings, of a spring-blade secured thereto and toothed at one end, and a rotary cam mounted in said bearings in said plate and arranged to actuate said blade.

2. In an ice-creeper the combination with a base-plate having bearings, of a spring-blade secured thereto at one end, the other end of said blade being turned at an angle and toothed, and a rotary cam mounted in said bearings in said plate and arranged to actuate said blade.

3. In an ice-creeper the combination with a base-plate adapted to be secured to the under side of the shoe-sole in front of the heel and having a right-angled portion arranged to rest against the heel and downwardly-turned ears in front of such right-angled portion and having bearings, of a spring-blade secured at one end to said base-plate and having a toothed portion working between said ears, and a rotary cam mounted in the bearings in said ears and arranged to actuate said blade.

4. In an ice-creeper the combination with a base-plate having bearings of a spring-blade secured thereto and toothed at one end

and a rotary cam mounted in the bearings in said plate and having an operating finger-piece projecting beyond the plate and turned at substantially right angles to the main portion of the cam, whereby such operating portion lies closely against the shoe in all positions when the device is in use.

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

CHARLES FEISTER.

Witnesses:
MAY I. TRIMBLE,
H. M. MARBLE.