

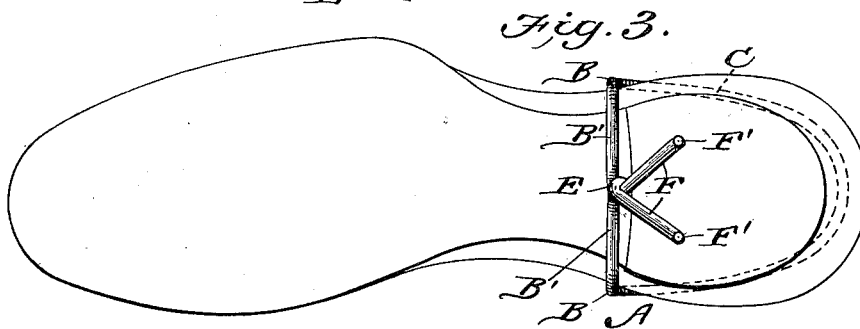
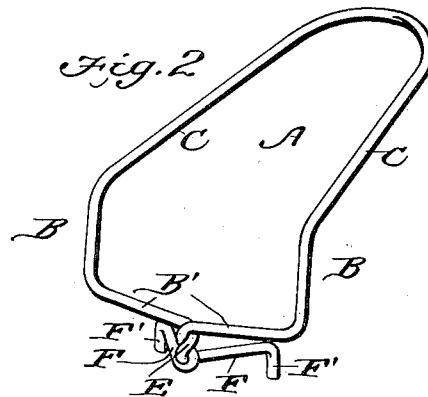
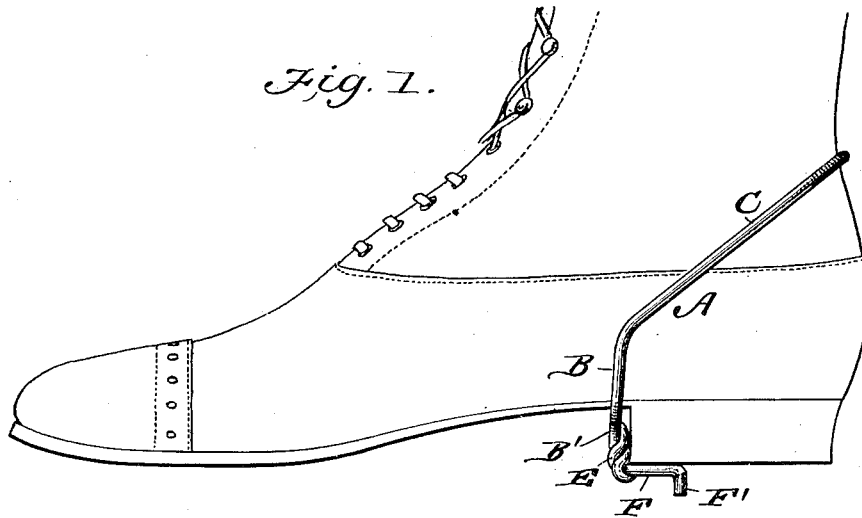
No. 649,370.

Patented May 8, 1900.

R. C. SNOWDEN.
ICE CREEPER.

(Application filed July 14, 1899.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT C. SNOWDEN, OF DUQUESNE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JOHN S. YOUNGBLOOD, OF SAME PLACE.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 649,370, dated May 8, 1900.

Application filed July 14, 1899. Serial No. 723,786. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. SNOWDEN, a citizen of the United States, residing at Duquesne, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Ice-Creepers, of which the following is a specification.

My invention is an improvement in ice-creepers seeking to provide a simple construction which can be cheaply made, will be light and self-retaining in use, and will efficiently serve its purpose; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a side view of my invention as in use. Fig. 2 is a detail perspective view of the ice-creeper detached, and Fig. 3 is a bottom plan view of the creeper as in use.

The ice-creeper is composed of a length of suitable wire, which is bent to form the spring-clamp adapted to clamp or embrace the ball of the heel and the spur or spurs for biting into the ice or sleet.

The clamp A extends upwardly and rearwardly to properly embrace the ball of the heel, having its side bars formed with the upright portions B and the upwardly and rearwardly inclined portions C, leading from the upper ends of the upright portions B and terminating at their upper meeting ends in a bow which fits around the rear of the foot. When applied to the foot, the lower ends of the upright portions B lie about on the level of the under side of the instep or the hollow of the foot, and arms B' extend inwardly from such lower ends of the portions B to a point midway between said portions, where the wire is twisted to form the shank E, which extends down to the bottom of the heel, the ends of the wire extending thence rearwardly, forming the diverging bars F, which lie below the heel and have their ends bent, forming the spurs F', which project downward, as shown.

The creeper is made of spring-wire which possesses sufficient elasticity to permit it to be sprung in operation to the position for use shown in Fig. 1 and also adapts it to be self-retaining when in such position. The elasticity of the clamp also permits the fitting

thereof to feet of different sizes, as well as the slight adjustment necessary to fit different sizes or heights of heel.

The inwardly-extending arms B' serve to unite the portions supporting the spurs, so the latter cannot spread apart, the tension of the clamp by which it grips the foot being secured in a large measure by the band or angle between the upright portions B and the inclined portions C of the side bars of the clamp.

The devices are light and can be readily carried in the pocket and conveniently applied for use when necessary.

The creeper may be formed of any suitable wire and may be enameled, nickeled, or otherwise finished to suit the taste of the purchaser.

The spurs are arranged to project vertically downward when in use, and they will ordinarily operate to prevent slipping if flat or blunted; but where desired they may be beveled off or otherwise sharpened to suit.

When applied for use as shown in Fig. 1, the creeper does not in any way affect the free movement of the foot and cannot become accidentally displaced.

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

1. An ice-creeper composed of a length of wire bent forming the upwardly and rearwardly inclined spring clamping-loop adapted to embrace the ball of the heel, and the spur or spurs, substantially as set forth.

2. An ice-creeper composed of a length of wire bent forming the heel-clamping loop, and the inwardly-extended arms at the lower end of said clamping-loop, such arms being connected at their inner ends, and the spur or spurs, substantially as set forth.

3. An ice-creeper composed of a length of wire bent forming the heel-clamping loop whose side bars are formed with the upright and the inclined portions adjoining each other, and the spur or spurs substantially as set forth.

4. An ice-creeper composed of a length of wire bent forming the clamping-loop and having its ends extended forming spurs, the wire being twisted together forming a shank in

advance of the spurs, substantially as set forth.

5 5. The herein-described ice-creeper composed of a length of wire bent forming the heel-clamping loop whose side bars are composed of the upright and inclined portions whereby it fits and clamps the ball of the heel, the inwardly-extended arms, the depending twisted shank at the inner ends of

such arms, and the rearwardly-projecting diverging bars having the spurs substantially as set forth. 10

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Witnesses:

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