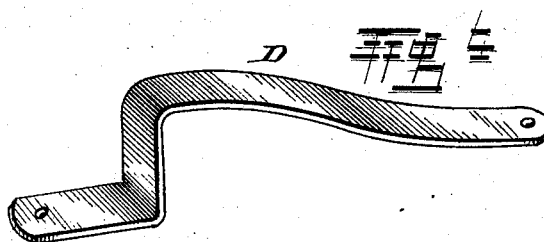
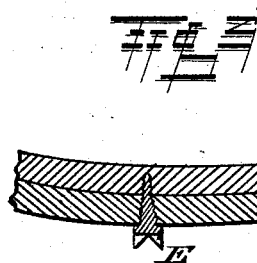
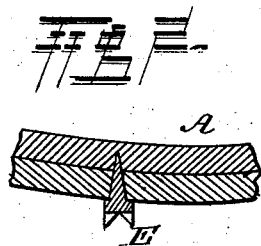
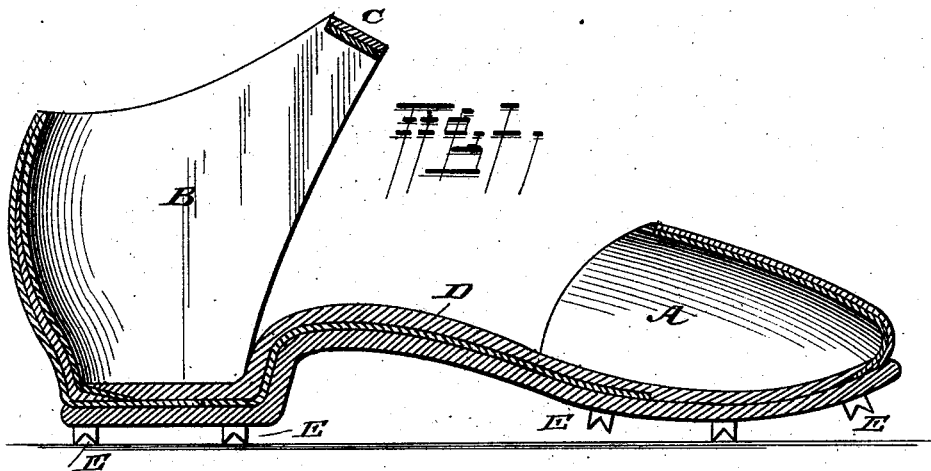


(No Model.)

M. A. IHRIG.
ICE SHOE OR CREEPER.

No. 301,818.

Patented July 8, 1884.



WITNESSES:

Fred. S. Dieterich,
B. L. Dieterich

INVENTOR.

Mary A. Ihrig
By *Breed & Herron* ATTORNEYS.

UNITED STATES PATENT OFFICE.

MARY A. IHRIG, OF SPRINGFIELD, OHIO.

ICE SHOE OR CREEPER.

SPECIFICATION forming part of Letters Patent No. 301,818, dated July 8, 1884.

Application filed March 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, MARY A. IHRIG, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Ice-Creepers or Ice-Shoes, of which the following is a specification, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the accompanying drawings, Figure 1 is a longitudinal section of my improved ice-shoe or ice-creeper. Figs. 2 and 3 are detached views of the spikes or calks. Fig. 4 is a detached view of the spring, which is riveted between the soles.

My improved ice-shoe or ice-creeper is made in the form of a sandal, with a toe-cap, A, and heel-piece B, having an instep-strap, C, provided with a buckle or button, as usual on overshoes, as shown in Fig. 1. Between the soles, and extending into the heel, is a plate-spring, D, riveted in place, the same being twice bent nearly at right angles, so as to fit the heel and hollow of the foot in the shoe, and thus keep the ice-shoe in shape and hold-

ing it firmly in position on the shoe. Both in the bottom of the heel and the tread of the half-sole a series of spikes, E, are inserted, said spikes having barbed heads or sharp points to strike into the ice, in order to prevent slipping. These spikes are made of hardened steel, and the heads thereof have four points, which are easily cut by machinery, and may be sharpened by means of a three-cornered file. The shanks of these spikes may be made smooth and driven into the sole, or they may have a screw-thread cut thereon, as seen in Fig. 3, and then screwed into the leather, so as to hold more firmly in place.

Having described my invention, what I claim is—

A shoe or an ice-creeper adapted to be worn with a shoe, provided with a sole-stiffening spring, D, and with spikes having heads with four points and a screw-shank, substantially as set forth.

MARY A. IHRIG.

Witnesses:

J. S. BOGLE,
S. C. IHRIG.