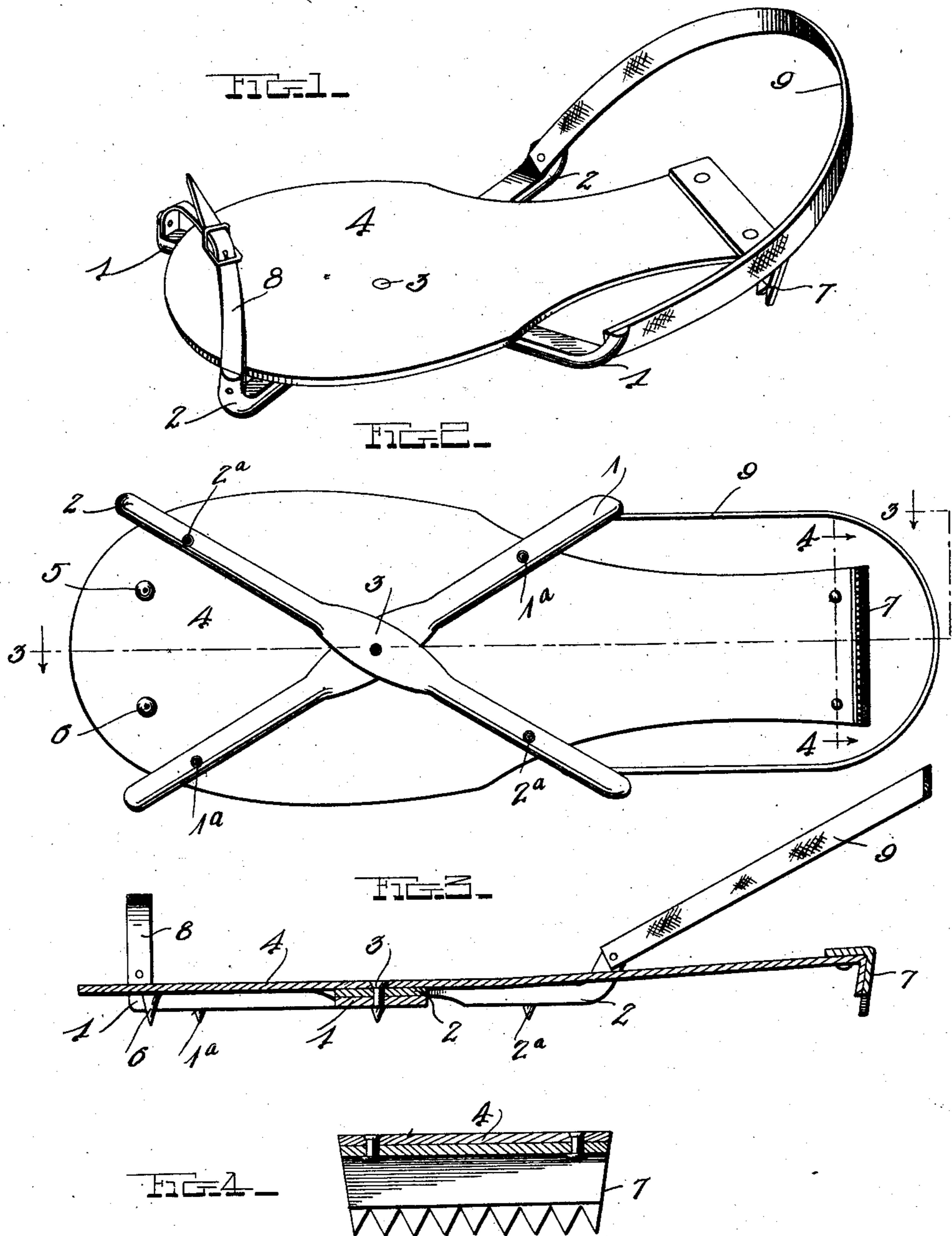


C. A. MARSHALL.
ICE CREEPER.
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ICE-CREEPER.

994,527.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES A. MARSHALL, a citizen of the United States, residing at Ripley, in the county of Brown and State of Ohio, 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.

This invention relates to an ice creeper or anti-slipping device for shoes, and more especially to anti-slipping sandals.

The object of the invention is to provide an attachment of this character which is simple in construction and may be readily applied and which affords great protection to all parts of the foot of the wearer rendering danger from falling on sleety streets almost impossible by even the most careless walker.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a perspective view of an ice creeper constructed in accordance with this invention; Fig. 2 is a bottom plan view thereof; Fig. 3 is a longitudinal vertical section taken on the line 3—3 of Fig. 2; Fig. 4 is a transverse vertical section taken on the line 4—4 of Fig. 2.

In the embodiment illustrated two spike bars 1 and 2 cross each other intermediate of their ends and are pivoted together at the point of crossing as shown at 3 the contacting surfaces of these bars being preferably flattened as shown in Fig. 2. These bars are also provided with spikes 1^a and 2^a. A metal sole 4 is formed to extend the full length of the shoe from the tip of the toe to the inner end of the shank of the shoe to which it is to be applied. This sole 4 is secured to the cross bars by the pivot 3 and is provided

near its front end with depending laterally spaced spikes 5 and 6 which are arranged between the front ends of the spike bars and afford greater protection to the foot. The free end of the shank of the sole 4 is provided with a downwardly extending right angular plate 7 which is serrated at its free edge. This plate is designed to fit snugly against the front face of the heel of the shoe with the serrated edge thereof projected below the lower face of said heel. The ends of the cross bars 1 and 2 are bent upwardly as shown and securing straps 8 and 9 are connected therewith, the heel strap 9 being preferably made of elastic and secured at its opposite ends to the rear ends of the cross bars and when applied is passed around the heel of the wearer. The toe strap 8 is preferably formed of two members adjustably connected by a buckle or other suitable means for securing the device to the toe of the wearer.

When the device is applied the elastic heel strap 9 exerts a constant pull upon the bars 1 and 2 and as these bars are pivoted together this strain tends to draw their ends together and causes the bars to serve as clamps upon the sole of the shoe.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

I claim as my invention:

An ice creeper comprising two crossed bars pivotally connected at their point of crossing and provided with a plurality of teeth or spikes, a metal sole constructed to extend from the tip of the toe to the heel of the shoe with the ball thereof connected to the pivot of said cross bars, laterally spaced spikes secured to said sole near the front

end thereof, said sole having a right angularly disposed depending plate arranged at the free end of the shank, said plate having teeth on its free edge, and means connected
5 with said cross bars for securing the device to the foot of the user.

In testimony whereof I have hereunto set

my hand in presence of two subscribing witnesses.

CHARLES A. MARSHALL.

Witnesses:

W. F. LINN,

ROBERT F. STIVERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
