

J. GREGORY.  
 ICE CREEPER.  
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946,543.

Patented Jan. 18, 1910.

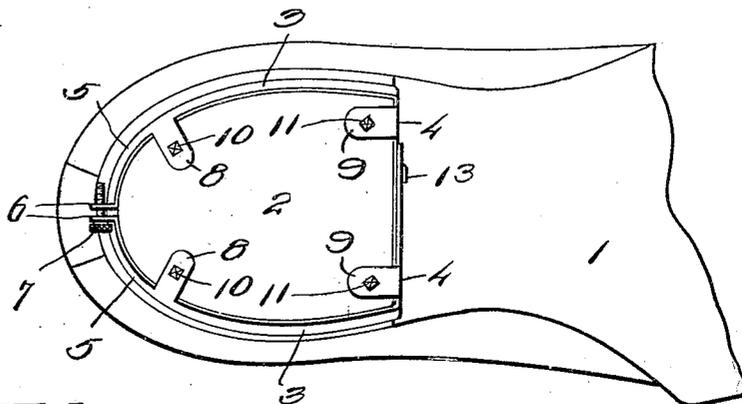


Fig. 1.

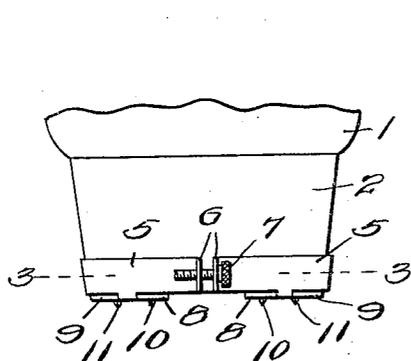


Fig. 2.

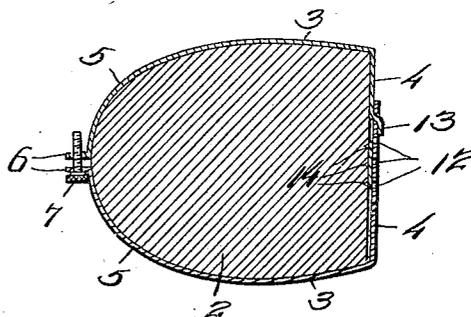


Fig. 3.

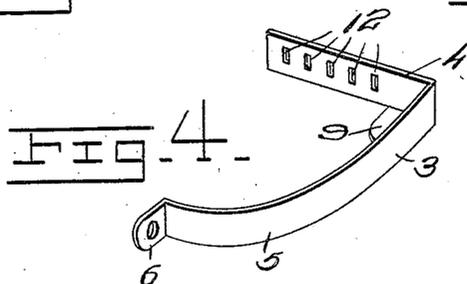


Fig. 4.

Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN GREGORY, OF HAMDEN, NEW YORK.

ICE-CREEPER.

946,543.

Specification of Letters Patent. Patented Jan. 18, 1910.

Application filed March 31, 1909. Serial No. 486,952.

*To all whom it may concern:*

Be it known that I, JOHN GREGORY, a citizen of the United States, residing at Hamden, in the county of Delaware and State of New York, have invented certain new and useful Improvements in Ice-Creepers, of which the following is a specification.

This invention relates to ice creepers, and has for its object to provide a device of this class comprising two distinct sections adjustably secured together upon a boot or shoe heel.

Another object is to provide a construction which will firmly grip the heel and which will not become easily detached therefrom.

A further object is to provide an extremely simple construction which will be light, durable in use, and inexpensive to manufacture and which will prevent the wearer from slipping and losing his equilibrium when walking upon icy surfaces.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claim, and that any suitable materials may be used without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a bottom plan view of a boot or shoe provided with my improved attachment, Fig. 2 is a rear elevation thereof, Fig. 3 is a horizontal section on the line 3—3 of Fig. 2, Fig. 4 is a detail perspective view of one of the sections.

Referring to the drawings, 1 indicates a boot or shoe of any ordinary or approved construction, to the heel 2 of which is secured my improved ice creeper.

The attachment comprises the two sheet metal sections 3, which are substantially the same in general form and proportions, and each of which are angularly bent to provide the horizontal plates 4 which are disposed upon each other and extend across the inner front edge of the heel. The remaining portions 5 of the sections 3 extend along the side and rear rounded edge of the heel, the

meeting ends being formed with the outwardly projecting ears 6 through which extends the adjusting bolt 7. The angularly disposed portions 4 and 5 of each of the sections are provided upon their lower edges with the integrally formed inwardly extending lugs 8 and 9 respectively which engage with the under surface of the heel and prevent any upward movement of the device. These lugs are formed with the downwardly projecting spurs 10 and 11 the purpose of which will be later described.

The outer horizontal plate 4 is provided with a plurality of vertical slots 12 into any one of which is adapted to be inserted the lug 13 struck up from the other of the plates 4 and bent down upon the outer surface of the outwardly positioned plate. The inner plate 4 is also provided with the spurs 14 which bite into the leather of the heel and form an additional means of securing the attachment thereon. By providing the plates 4 with the slots 12 and the lug 13, the attachment may be adjusted to heels of varying widths.

By the construction above described the device may be readily secured to the heel of a boot or shoe and securely clamped thereon by means of the adjusting bolt 9. With the attachment thus secured, icy surfaces may be walked upon with impunity as the spurs 10 and 11 will be embedded in the ice with each step taken by the wearer, preventing his falling and probably sustaining serious injuries, and greatly facilitating his progress.

The sections may be stamped out of sheet metal thus making the device very inexpensive to manufacture. It may also be readily attached and detached and is moreover very durable and highly efficient in operation.

What is claimed is:

In a device of the character described, the combination with two opposed metallic sections, the rear ends of said sections being inwardly curved toward each other and formed with ears at their extremities, of an adjusting bolt extending through said ears, the other ends of said sections being angularly bent in reverse directions and disposed upon each other, the outer angular end be-

ing provided with a plurality of vertical slots, a tongue struck up from the other of said ends adjacent to its extremity and adapted to project through any one of said  
5 slots, a plurality of spurs formed upon the extremity of the inner angular end, and inwardly extending lugs formed upon the curved and angular portions of said sections, said lugs having depending spurs formed

integral therewith, substantially as and for the purpose set forth.

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

JOHN GREGORY.

Witnesses:

JOHN H. MANNS,  
JOHN CHAMBERS.