A. SCHEMEL.

ICE CREEPER.

APPLICATION FILED MAY 29, 1920.

1,354,073. **Patented Sept. 28, 1920.**

Fig. 1.

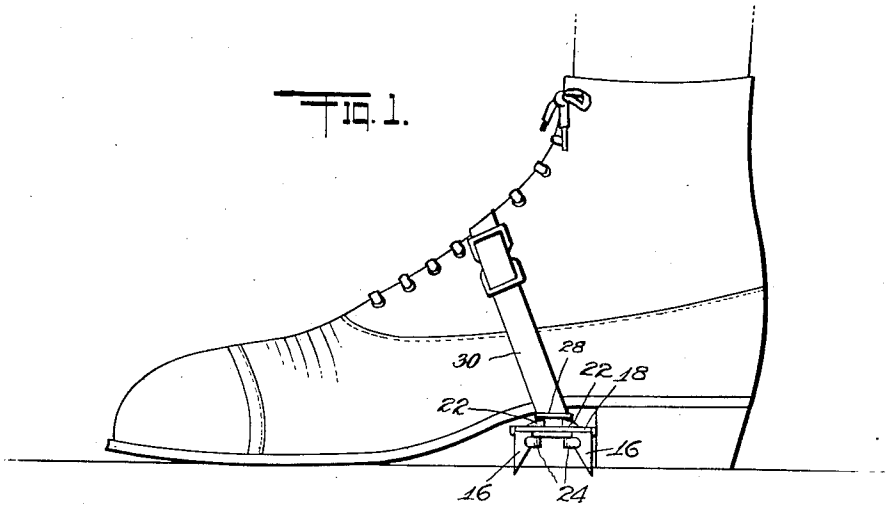


Fig. 2

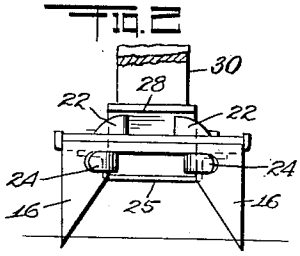


Fig. 3

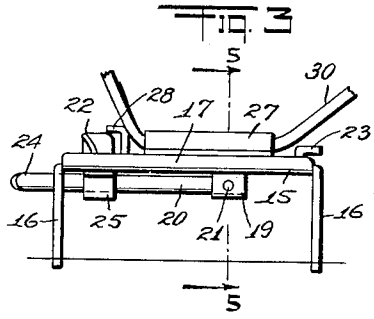


Fig. 4

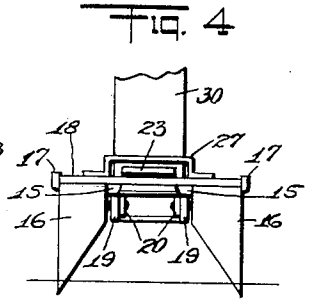


Fig. 5

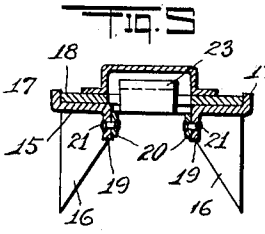


Fig. 6

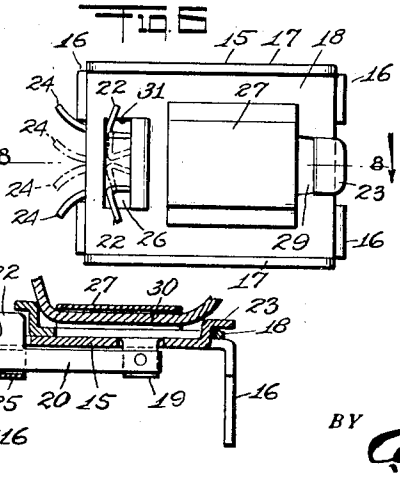


Fig. 7

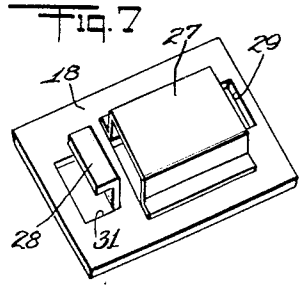


Fig. 8

WITNESS
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UNITED STATES PATENT OFFICE.

ABRAHAM SCHEMEL, OF YONKERS, NEW YORK.

ICE-CREEPER.

1,354,073. Specification of Letters Patent. Patented Sept. 28, 1920.

Application filed May 29, 1920. Serial No. 385,312.

To all whom it may concern:

Be it known that I, ABRAHAM SCHEMEL, a citizen of the United States, and a resident of Yonkers, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Ice-Creepers, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to facilitate the operation of removing the spurs from an article of the character mentioned when the same are not required, or are liable to damage floors over which the wearer of the article moves; and to simplify and cheapen the construction.

Drawings.

Figure 1 is a side view of a shoe for personal wear, having applied thereto an ice creeper constructed and arranged in accordance with the present invention;

Fig. 2 is a view of the inner side of the ice creeper;

Fig. 3 is an end view of the same;

Fig. 4 is a view of the outer side of the ice creeper;

Fig. 5 is a longitudinal section, the section being taken as on the line 5—5 in Fig. 3;

Fig. 6 is a top plan view of the device;

Fig. 7 is a perspective view of the strap plate shown as detached from the spur plate; and

Fig. 8 is a cross section, the section being taken as on the line 8—8 in Fig. 6.

Description.

The present invention is primarily an improvement on a construction disclosed in a patent granted to me the 27th day of August, 1918, for improvements in ice creepers, the patent being numbered 1,277,135, cross reference to which patent is hereby made.

In the present invention the spur plate 15 has provided at the extremities thereof down-turned spurs 16, which are over-bent, sharpened portions of the material from which the plate 15 is constructed. The plate has up-turned edge flanges 17, which form a pocket for the strap plate 18. Pendent from the plate 15, and being pressed down therefrom, are lugs 19, to which spring latches 20 are rigidly attached by rivets 21, as seen best in Fig. 5 of the drawings. The spring latches 20 are provided with heads 22 that extend over the body of the strap plate 18 in service to support, in conjunction with the flanged lug 23, the said spur plate on the strap plate. The extremities of the latches 20 are bent to form small hand grips 24, for engagement by the operator for movement from the position shown by full lines in Fig. 6 to the position shown by dotted lines in the same figure.

The latches 20 are guided and supported by the depressed loop 25, which in practice is formed by being struck down from the spur plate forming thereby the channel 26, through which the spur heads upwardly extend, as seen best in Fig. 6 of the drawings.

The strap plate 18 is provided with an upwardly extending strap loop 27, and protecting flange 28. The loop 27 and flange 28 are preferably pressed out of the material forming the plate 18, and at the same time an opening 29 is formed at the end of the opening formed by striking up the loop 27. Through the loop 27 is passed the strap 30, by which the apparatus is held in position on the shoe, as shown in Fig. 1 of the drawings.

When the wearer of the apparatus desires to enter a house, or walk over a surface which might be marred by the spurs 16, he removes the spur plate 15 by engaging the hand grips 24 and compressing the same until the latch heads 22 are contracted sufficiently to pass downward through the opening 31 in the latch plate 18. The latch plate is then rocked to an inclined position, which will permit the withdrawal of the lug 23 from the opening 29 and the complete removal of the plate 15 from the plate 18. The spur plates 15 are then placed in the pocket of the person, or other convenient disposition is made thereof, and the person is free to walk over the surface which otherwise might be damaged, as the plate 18 is held out of harm's way by the strap 30.

When the wearer again passes off of the surface to be protected, and preliminary to entering on the surface which is slippery, the plates 15 are re-adjusted by first introducing the flange lug 23 in the opening 29, and then rocking the plate 15 on the edge of the said opening until the heads 22 pass upward through the opening 31 in the plate 18, when the pressure on the hand grips 24 is relaxed, to permit the latches 20 to ex-

tend the latch heads 22 over the plates 18, for thereafter holding the plate 15 in service position.

Claims.

1. An apparatus as characterized comprising a strap plate having means rigidly formed thereon for holding a service strap for attachment to the shoe of a person; a spur plate having down-turned sharpened spur portions for engaging the ground, said spur plate having an up-turned hook lug; resilient latches mounted on said spur plate for engaging said strap plate to be supported thereby; and accessible means for moving said latches from engagement with said strap plate.

2. An apparatus as characterized comprising a strap plate having means rigidly formed thereon for holding a service strap for attachment to the shoe of a person; a spur plate having down-turned sharpened spur portions for engaging the ground, said spur plate having an up-turned hook lug; and a plurality of elongated resilient latches rigidly mounted on said spur plate to extend beyond the side thereof, for manipulation, said latches having large heads extending upwardly therefrom and adapted to engage said strap plate.

3. An apparatus as characterized comprising a strap plate having an opening in one edge thereof, and means for receiving a service strap; a spur plate having pendent sharpened members for engaging the ground; a hook member adapted for extension through said opening in said strap plate, to be supported thereby; and resilient latches mounted on said spur plate adjacent the edge thereof opposite from said hook member, said latches being adapted for extension through to engage said strap plate.

ABRAHAM SCHEMEL.