No. 607,508. Patented July 19, 1898.

K. P. DEGGE.

ICE CREEPER.

(Application filed June 9, 1897.)

(No Model.)

Fig. 1.

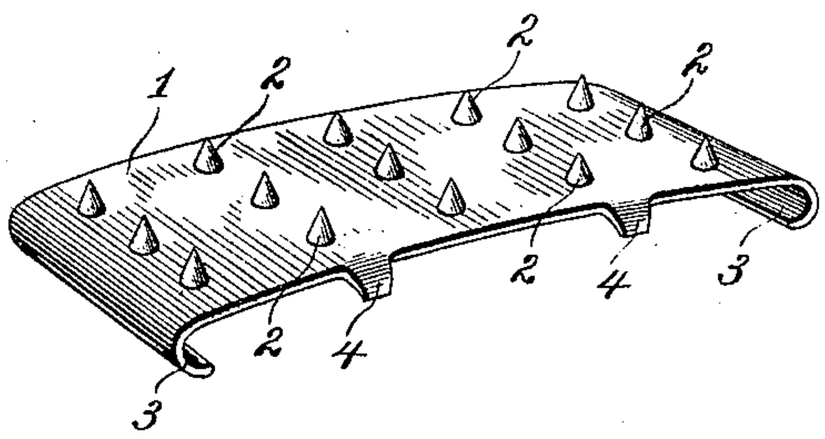


Fig. 2.

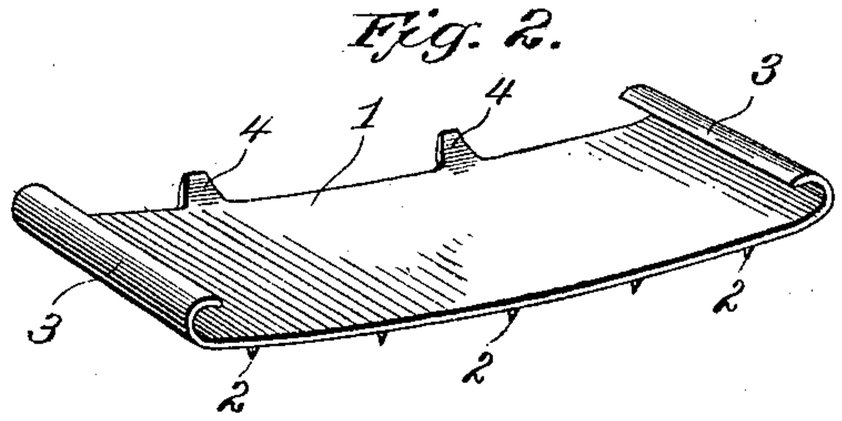


Fig. 3.

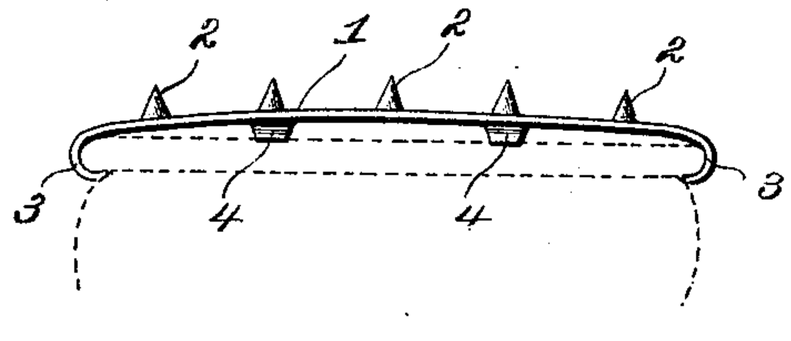


Fig. 4.

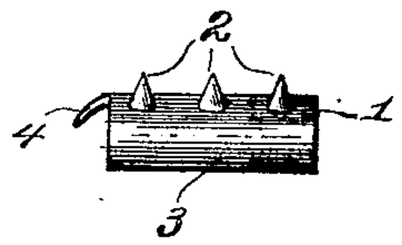
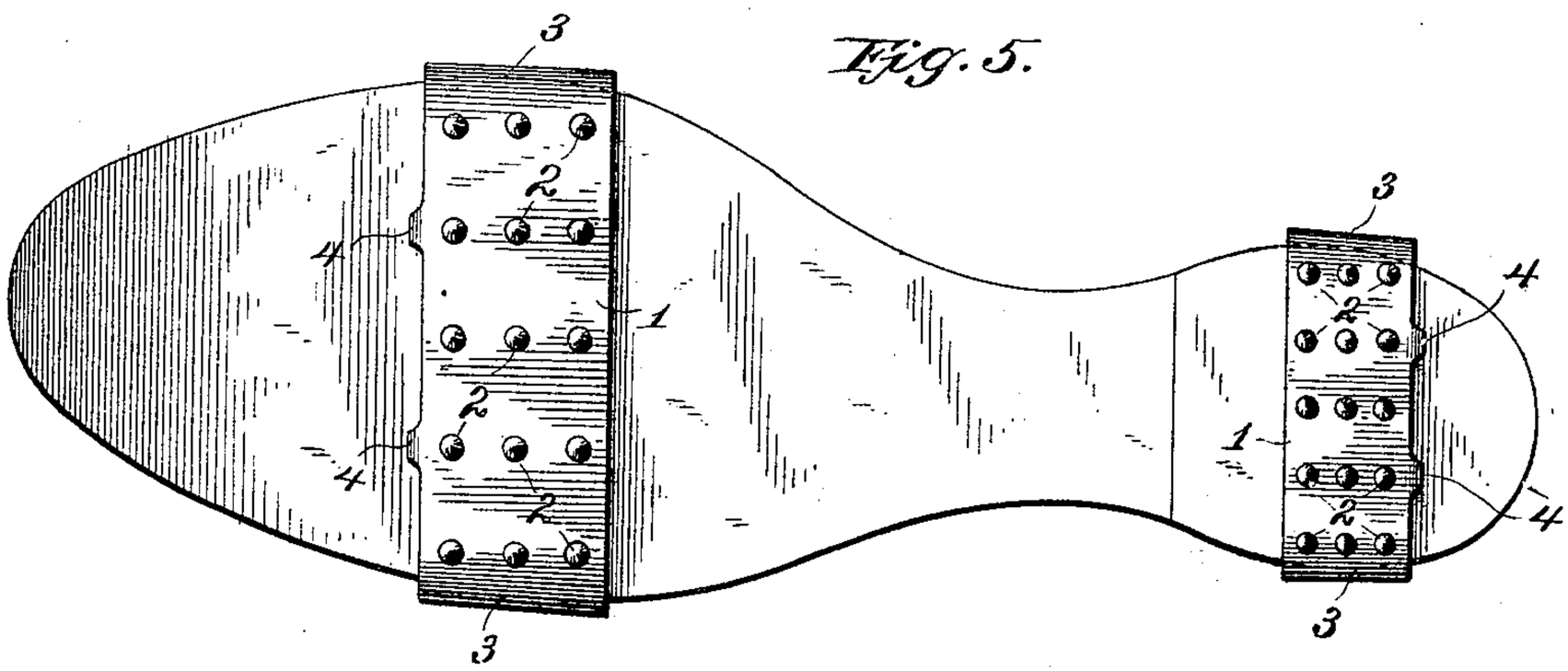


Fig. 5.



Witnesses
E. C. Wurdeman
Victor J. Evans

Inventor
Kate P. Degge
by John Wedderburn
Attorney

UNITED STATES PATENT OFFICE.

KATE PHILIP DEGGE, OF ST. LOUIS, MISSOURI.

ICE-CREEPER.

SPECIFICATION forming part of Letters Patent No. 607,508, dated July 19, 1898.

Application filed June 9, 1897. Serial No. 640,085. (No model.)

To all whom it may concern:

Be it known that I, KATE PHILIP DEGGE, of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Ice-Creepers; and I do hereby 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.

The invention relates to an ice-creeper adapted to be easily and quickly applied to the sole of the shoe for preventing slipping on the ice and to be as quickly and easily removed when not required for the purpose stated.

It consists in a plate provided with points or spurs on its lower or wearing face and with upturned hook-shaped ends adapted to engage the opposing edges of the shoe-sole and with springs for pressing said ends into engagement with the sole of the shoe and preventing accidental displacement of the creeper, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the improved creeper, looking at the lower face thereof. Fig. 2 is a similar view looking at the upper face. Fig. 3 is a front elevation. Fig. 4 is a side elevation of the same. Fig. 5 shows the creeper applied to the sole and heel of a shoe.

1 indicates the creeper-plate, provided on its lower face with a series of sharpened points 2 2, formed integrally with said plate 1 and from any suitable light metal, preferably slightly elastic, for adapting its upturned hook-shaped flanges 3 to snugly grasp the opposite side edges of the sole of the shoe. In order that said plates may be as light as practicable, they may be formed of aluminium, with the spurs 2 and the upturned and incurved side lips 3 formed integral therewith. The forward edge of the plate is provided with light upturned lips 4 4, which may be sufficiently elastic to press the plate 1 downward for causing the lips or hooks 3 to engage snugly the upper faces of the projecting edges of the shoe-sole in a manner that will be readily understood, the spring-lips 4 projecting upward and forward and pressing against the lower face of the sole of the shoe in such manner as to press the plate 1 slightly outward therefrom, thereby holding the lips 3 always firmly in engagement with the sole of the shoe and preventing accidental displacement of the creeper from the shoe. Any desired form may be given to the spring-arms 4; but they, like the hook ends 3 and the spurs 2, are preferably formed integrally with the plate 1, so that the entire creeper is made in a single piece and can be readily attached to or detached from the shoe.

In Fig. 5 I have shown the creeper applied to the heel of the shoe, with the spring extensions 4 applied to the rear edge thereof, the creeper being preferably applied from the heel end of the shoe and the springs 4 serving to engage the lower face of the heel to prevent accidental displacement of the creeper.

By the construction described a very light, simple, and effective ice-creeper is provided, one which can be readily applied and as readily removed. They may be made, of course, of different sizes to adapt them to the different-sized shoes upon the market.

The ice-creeper for the sole of the shoe will be passed over the toe of the sole and pushed back until the upturned hook-flanges snugly engage and clamp the sole between them, and the heel-creepers will be applied by passing them forward over the rounded heel of the shoe until the hook-flanges engage the heel in like manner. The little arms or springs 4 will press against the sole and prevent the creeper from slipping thereon.

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

An ice-creeper consisting of a body-plate with attaching-flanges for interlocking with the edges of the sole or heel, spurs or points on its under face, and outwardly and upwardly projecting spring-arms to engage with their free ends or points the lower face of the sole or heel, press the body-plate away from the sole, and thereby hold the attaching-flanges in engagement with the sole, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

KATE PHILIP DEGGE.

Witnesses:

M. D. DEGGE,

MARIA V. DEGGE.