

G. ROHR.

Heel-Plates for Boots and Shoes.

No. 143,719.

Patented Oct. 14, 1873.

Fig. 1.

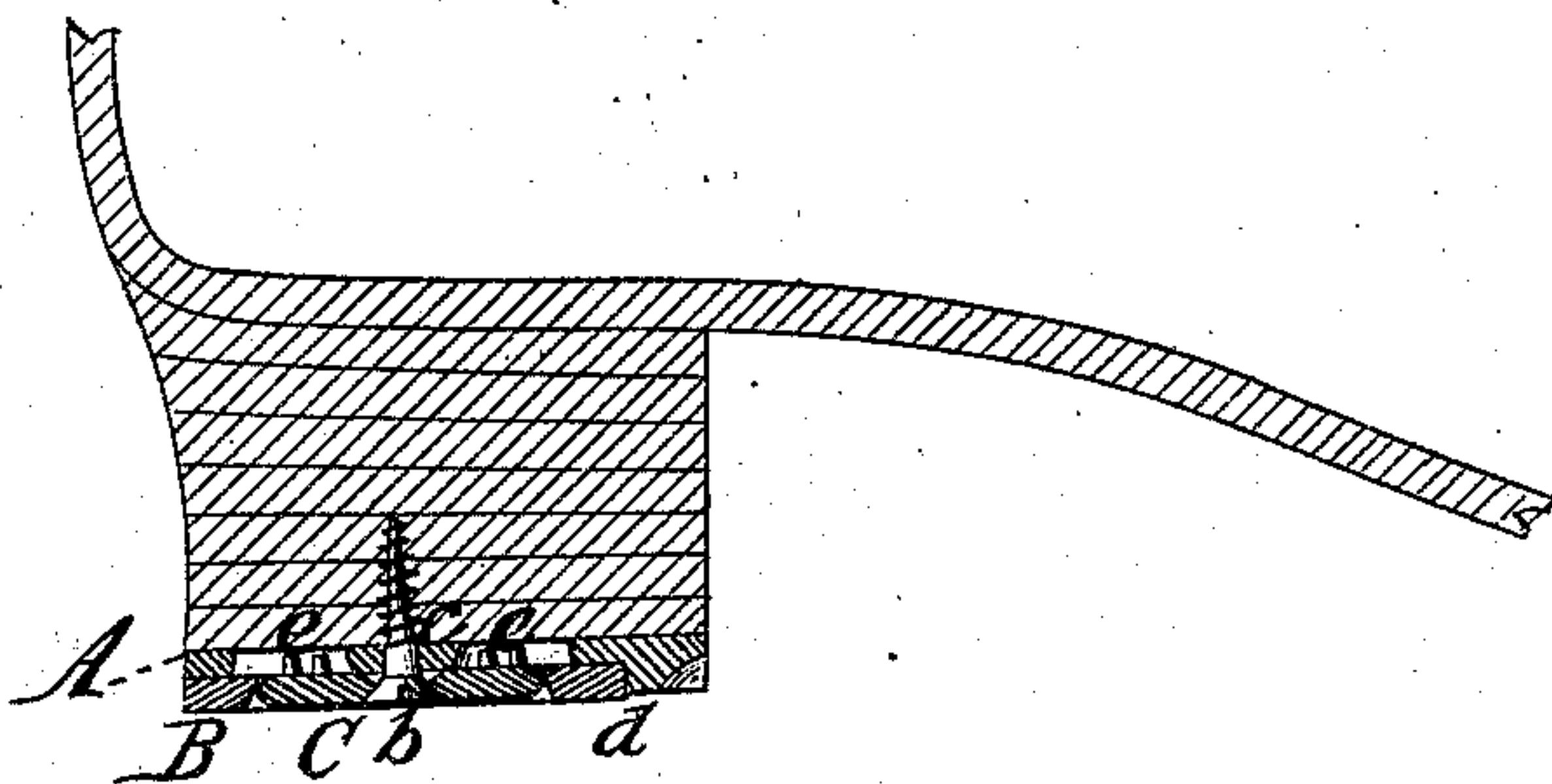


Fig. 2.

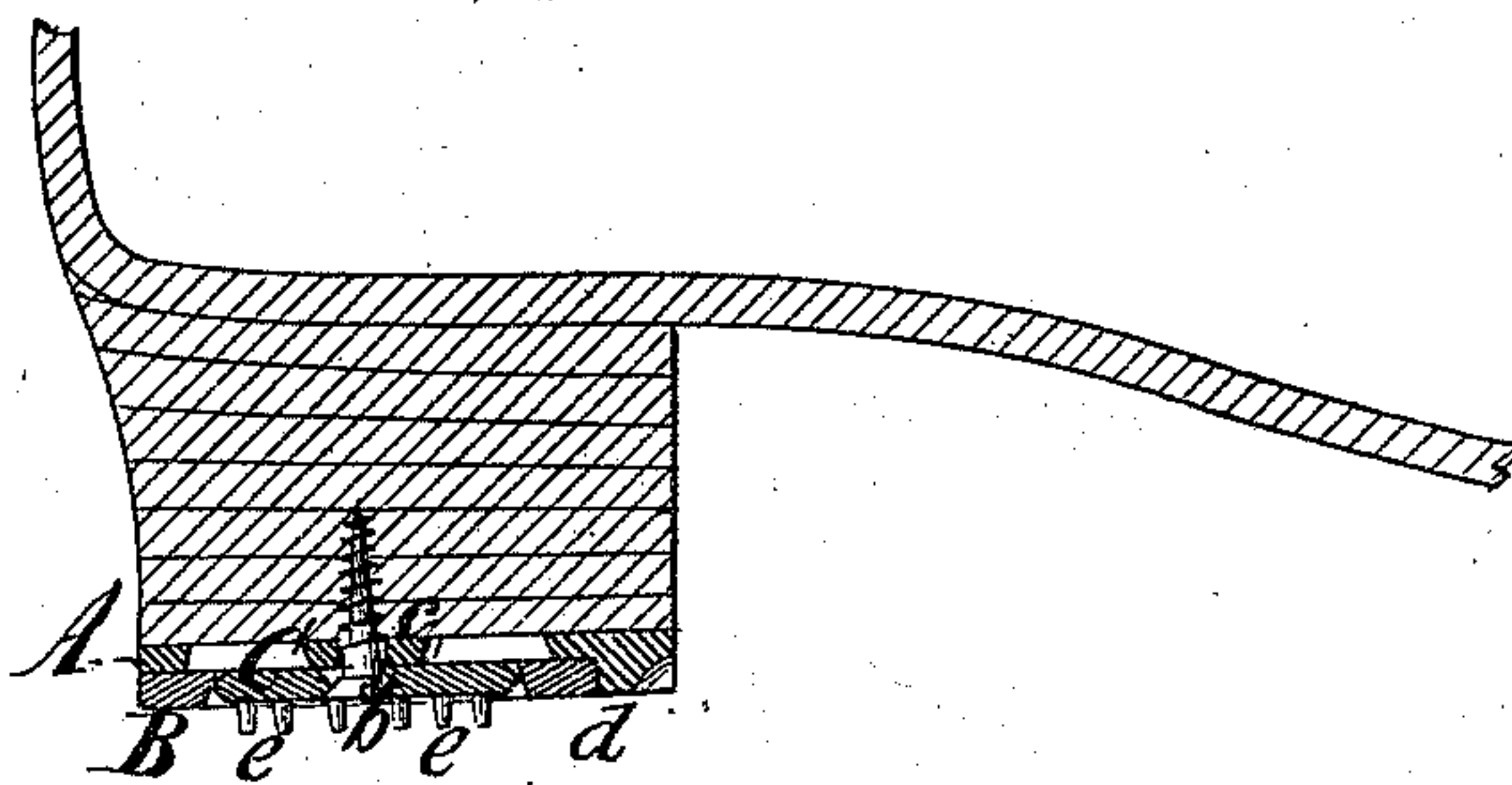
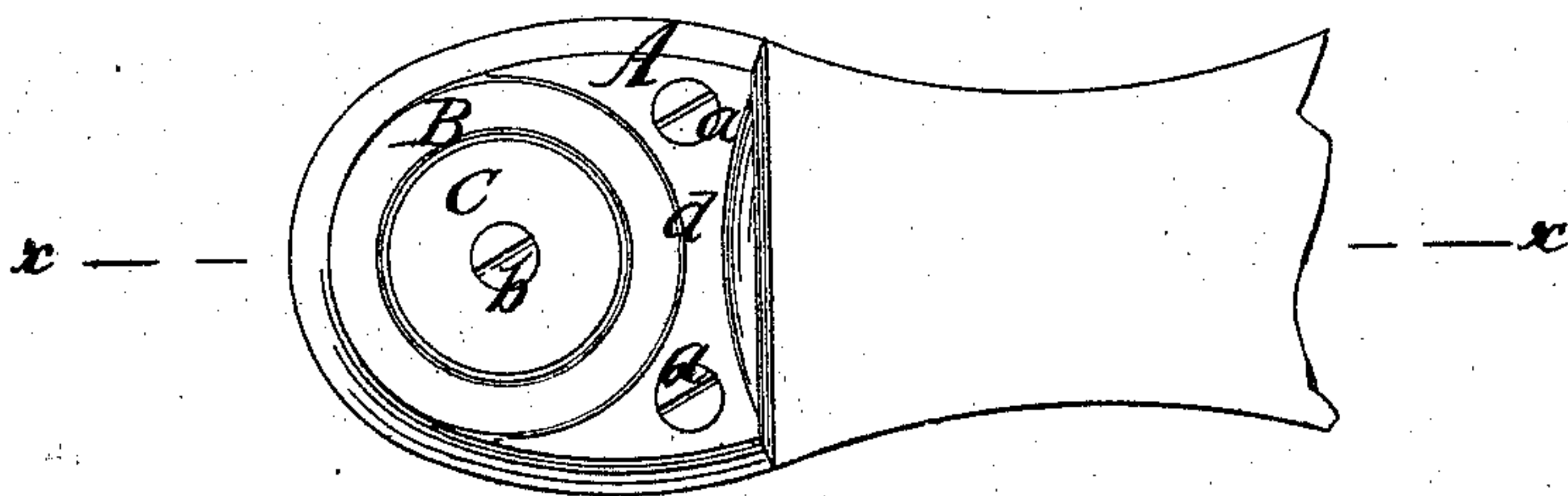


Fig. 3.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN HEEL-PLATES FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **143,719**, dated October 14, 1873; application filed April 25, 1873.

*To all whom it may concern:*

Be it known that I, GEORGE ROHR, of Williamsburg, in the county of Kings and State of New York, have invented a new and Improved Heel-Plate for Boots and Shoes; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a vertical central section of my heel-plate when arranged for common use, the line *x x*, Fig. 3, indicating the plane of section. Fig. 2 is a similar section of the same when arranged as an ice-creeper. Fig. 3 is an inverted plan of the same.

Similar letters indicate corresponding parts.

This invention relates to a heel-plate, which is composed of a supporting-frame, a ring, and a disk, the supporting-frame being provided with a recess to receive the ring, the inner edge of which is beveled off, to receive the disk, in such a manner that when the disk is screwed down the ring is retained in position, and, by releasing the disk, the ring can be turned whenever it is required; and the disk may also be turned, so as to wear the heel-plate even. From one surface of the disk projects a series of pins, which, when turned outward, give a good foothold on ice or snow.

In the drawing, the letter A designates the supporting-frame of my heel-plate, which is fastened to the heel by screws *a a*, and by a central screw, *b*, that passes through a bridge, *c*, said frame being made open, so as to make it as light as possible. Said frame is provided with a semicircular recess, *d*, to receive a ring, B, the inner edge of which is beveled off to

form a seat for the edge of a disk, C, that is secured in position by the central screw *b*. From one side of said disk project pins *e*, which can be turned in, as shown in Fig. 1, or which may be turned out, as shown in Fig. 2. When these pins are turned in, and the screw *b* is drawn up tight, both the disk and the ring are firmly retained in position; but, by releasing said screw, the ring can be turned round, and then it can again be fastened with little trouble, and thereby the surface of said ring can be made to wear down even. If it is desired to turn the disk round, the screw *b* has to be unscrewed far enough to allow the pins *e* to clear the bridge *c* of the frame, and, after the disk has been turned, it can be readily fastened in its new position. By this arrangement both the disk and the ring can be made to wear down uniformly, and at the same time the under surface of the heel-plate can be easily adjusted, so as to give to the foot an even bearing. When the disk is turned to the position shown in Fig. 2, the pins *e* give a good foothold on ice or snow, and my heel-plate is transformed into an ice-creeper.

It is obvious that the several parts of my heel-plate can be made of any desired material; but, in practice, I prefer to make them of cast or malleable iron.

What I claim as new, and desire to secure by Letters Patent, is—

The disk C, provided with pins *e*, and combined with a ring, B, and a frame, A, substantially as set forth.

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Witnesses:

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