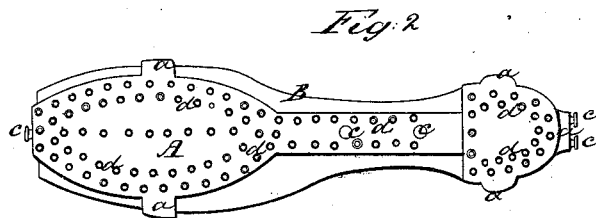
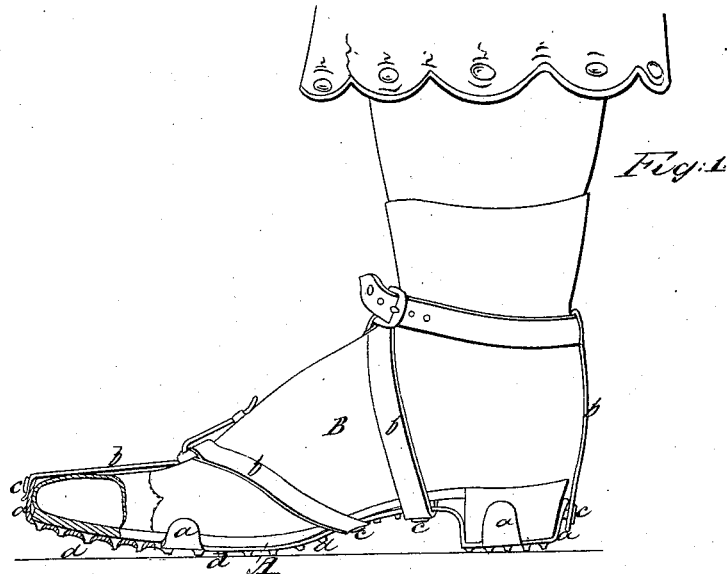


T. J. Linton,

Ice Creeper,

N^o 46,682.

Patented Mar. 7/1865.



Witnesses
C. L. Topliff
Theo. Lusk

Inventor
T. J. Linton
By Munn & Co.
Attys.

UNITED STATES PATENT OFFICE.

THOMAS J. LINTON, OF PROVIDENCE, RHODE ISLAND.

IMPROVED ICE-SANDAL.

Specification forming part of Letters Patent No. 46,682, dated March 7, 1885.

To all whom it may concern:

Be it known that I, THOMAS J. LINTON, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Ice-Sandal; and I do hereby declare that the following is 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 drawings, forming part of this specification, in which—

Figure 1 is a side elevation of this invention, partly in section, showing its application to a shoe. Fig. 2 is an inverted plan of the same.

Similar letters of reference indicate like parts.

This invention consists in a sandal stamped or otherwise produced out of sheet metal to fit the formation of the sole of a boot or shoe, and provided with a large number of holes punched in, so as to form barbs on the outer surface similar to that of an ordinary grater, in combination with the lugs or ears catching over the edges of the heel and sole, and with a series of leather straps or other suitable fastening in such a manner that the sandal can be readily and easily attached to the sole of a boot or shoe to which it had been fitted, and that by the action of the grater-surface a firm foothold is obtained on ice or snow.

A represents a plate of sheet metal stamped or otherwise formed so as to fit the sole of a boot or shoe, B, as clearly shown in Fig. 1. Said plate extends from the toes back under the heel, and it is provided with a series of lugs or ears, *a*, which are turned up to catch over the edges of the sole and of the heel, and when the sandal is attached to the boot or shoe it is held in place and prevented from slipping off laterally by the action of said lugs.

Suitable straps, *b*, of leather or other suitable material, serve to secure the sandal to the foot, and in order to attach these straps to the plate A said plate is provided with buttons *c*, projecting from the lugs, which project over the

toe part of the sole in front and over the edge of the heel in the rear and from the surface of the plate itself, or in the cavity of the foot, so that the straps can be readily secured in the desired spots and the sandal fastened to the foot without trouble. It is obvious, however, that instead of straps and buttons other suitable fastenings might be employed, such, for instance, as now used for attaching skates, and I do not wish to confine myself to any one peculiar fastening, but reserve the right to change the same, as may be deemed desirable.

The plate A is perforated with a large number of holes, *d*, punched in so as to produce barbs on the lower or outer surface, thus giving to the plate a surface similar to that of an ordinary nutmeg-grater. This grater-surface can be produced with very little trouble or loss of time, and by its action a firm foothold is obtained on ice or snow. In practice, this sandal will be made of sheet-steel, and it is found that when my sandal is used in snow the spaces between the holes will not fill up with snow, as might be expected, and the plate will always preserve its rough surface until the beards of the holes are worn off. In that case the roughness can be renewed by slightly enlarging the holes. A cheap, desirable, and effective ice sandal can thus be produced, and, if desired, some holes may be punched in the plate, so as to produce a barb on the inner surface and prevent the sandal from slipping or becoming disarranged.

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

An ice sandal stamped or otherwise produced out of sheet metal to fit the sole of a boot or shoe, and provided with a grater-surface and lugs, and with a suitable fastening by which it can be secured to the foot, substantially as and for the purpose set forth.

THOS. J. LINTON.

Witnesses:

FRANCIS CASSELS,
CHARLES H. WARNER.