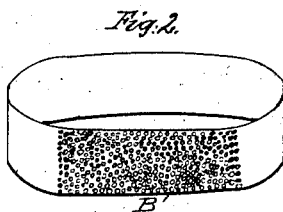
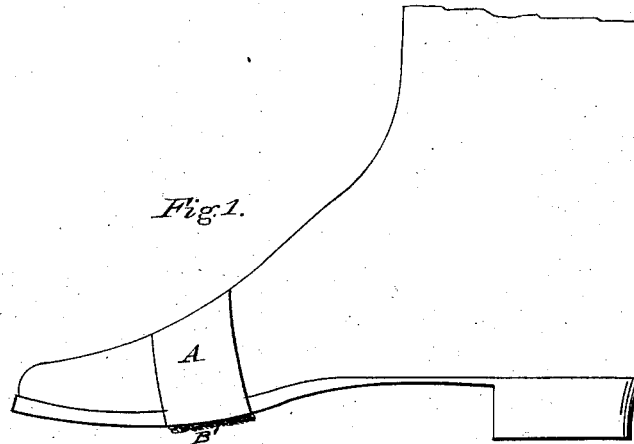


No. 44,961.

PATENTED NOV. 8, 1865.

W. R. LANDFEAR.
DEVICE TO PREVENT SLIPPING ON ICE.



Witnesses

J. J. Landfear.
George A. Boege

Inventor

W. R. Landfear

UNITED STATES PATENT OFFICE.

WILLIAM R. LANDFEAR, OF HARTFORD, CONNECTICUT.

DEVICE TO PREVENT SLIPPING ON ICE.

Specification forming part of Letters Patent No. 44,961, dated November 8, 1865.

To all whom it may concern:

Be it known that I, WILLIAM R. LANDFEAR, of Hartford, in the county of Hartford and State of Connecticut, have invented a new and Improved Mode of Preventing Slipping on Ice; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

The nature of my invention consists in the employment of an elastic band, to be worn around the boot or shoe in such a manner as that one portion of the band shall pass under the sole and rest upon the ground, that part thus passing under the sole having secured to or mingled with it some substance which shall by its frictional or gritty properties prevent the foot from slipping, when worn, upon ice.

To enable others to make and use my invention, I will proceed to describe its construction and operation:

I construct my band usually of rubber or other elastic material, of such size as to encircle the boot or shoe and clasp it firmly around that part of the foot immediately forward of the instep, as shown at A, Figure 1, in the drawing; or the band may be so applied as to be worn upon the heel or other part of the foot. To that portion of the band

which, thus applied to the boot or shoe, shall pass under the sole, and therefore in the action of walking shall come in contact with the earth, I apply coarse sand, emery, or other similar substance, B, having sharp, gritty, or frictional qualities. This gritty substance may be applied to the elastic band either by mingling it with the material of which the band is composed or by securing it by means of cement or otherwise to the surface of the band.

When this band is applied to the boot or shoe in the manner above described and worn upon icy or other smooth or slippery places, the shoe is prevented from slipping by means of the friction or resistance caused by the gritty substance connected with the band coming in contact with the ice or smooth surface.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The employment of the elastic band having connected with it the gritty or frictional substance, to be worn upon the boot or shoe, for the purpose of preventing slipping upon icy or other surfaces, as herein described and set forth.

WILLIAM R. LANDFEAR.

Witnesses:

GEORGE A. BODGE,
S. J. LANDFEAR.