

A. HEULINGS.
Ice-Creepers.

No. 139,506.

Patented June 3, 1873.

Fig. 1.

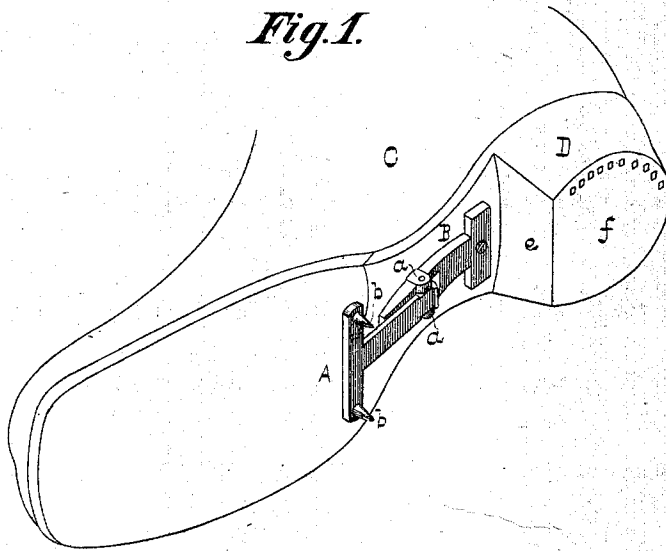


Fig. 2.

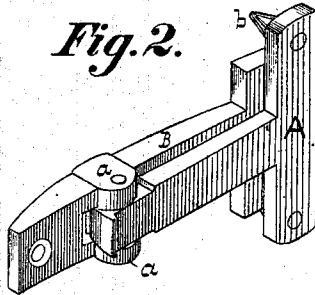
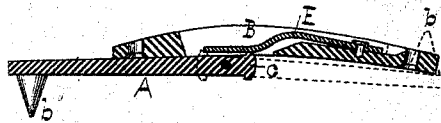


Fig. 3.



Witnesses.

A. F. Walter
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Inventor.

Abraham Heulings
by Francis D. Pastorius
his Atty in fact

UNITED STATES PATENT OFFICE.

ABRAM HEULINGS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN ICE-CREEPERS.

Specification forming part of Letters Patent No. **139,506**, dated June 3, 1873; application filed January 30, 1873.

To all whom it may concern:

Be it known that I, ABRAM HEULINGS, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improved Creeper for Boots and Shoes, of which the following is a specification:

The invention relates to an adjustable ice-creeper, to be secured to the sole of a boot or shoe. It folds or closes when not in use, and opens on the tread or sole when used for walking on ice or slippery ground.

Figure 1 is a view of the creeper applied to the sole of a boot and opened ready for use. Fig. 2 is a perspective view of the creeper when closed. Fig. 3 is a longitudinal vertical section of the creeper when opened. A is a T-arm, which turns in the jaws *a* of the sole-plate B, attached to the bottom of the boot C, at the shank. When the creeper is to be used it is thrown open, as shown at Figs. 1 and 3, the bearing-points being the tips or points *b*, and the heel D of the shoe or boot. The tips

take into the ice and thereby enable the wearer to walk easily and confidently without the slightest chance of slipping. When not in use the arm A is thrown back on the plate B, Fig. 2, which reverses the position of the tips *b*, and folds the creeper snugly against the sole of the boot to not impede walking. A spring, E, Fig. 3, bears against the end *c* of the arm A, and keeps it in place, either when opened or closed.

I claim as my invention—

A folding ice-creeper composed of the arm A, tips or points *b*, sole-plate B, jaws *a*, and the spring E, substantially as and for the purpose shown and described.

In testimony whereof I hereunto sign my name in presence of two subscribing witnesses.

ABRAM HEULINGS.

Witnesses:

E. P. COCHRAN,

FRANCIS D. PASTORIUS.