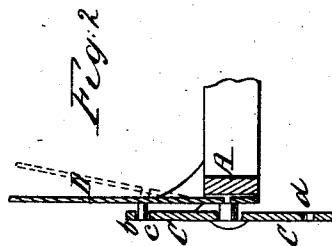
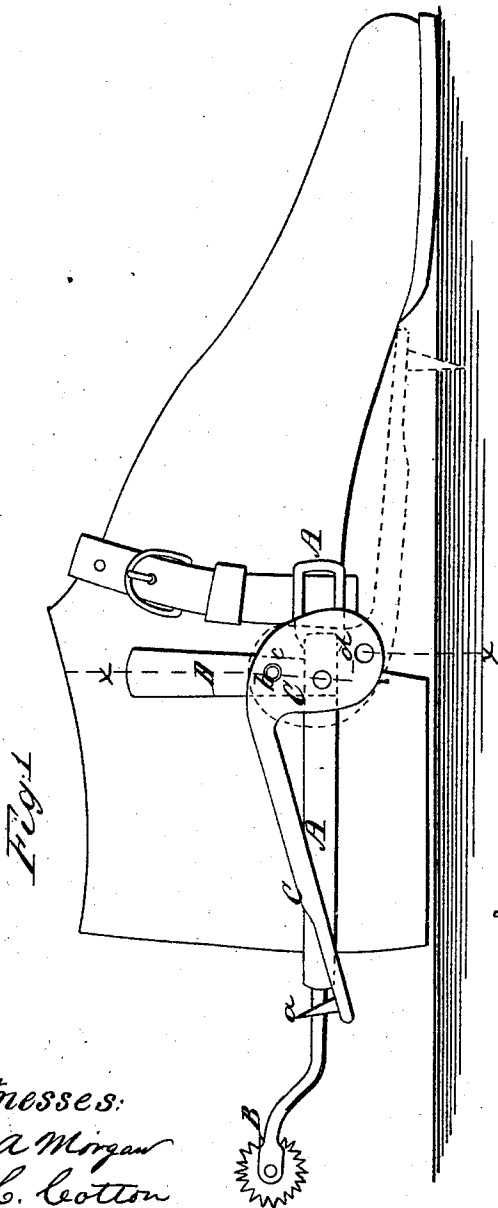


F. Mehrmann,
Ice Creeper,
No 81,925, Patented Sept. 8, 1868.



Witnesses:
Wm. A. Morgan
J. C. Cotton

Inventor:
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per Munroe
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United States Patent Office.

FERDINAND MEHRMANN, OF FOUNTAIN CITY, WISCONSIN.

Letters Patent No. 81,925, dated September 8, 1868.

IMPROVED COMBINED SPUR AND CREEPER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FERDINAND MEHRMANN, of Fountain City, in the county of Buffalo, and State of Wisconsin, have invented a new and useful Improvement in a Combined Spur and Creeper; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others 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 represents a side view of my improved ice-spur.

Figure 2 is a vertical transverse section of the same, taken on the plane of the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new instrument, which can be attached to the boot or shoe, and which can be used as an ice or mountain-creeper, and also as a spur.

The invention consists in pivoting to the sides of an ordinary or suitable spur a bow-shaped bar or plate, with teeth on one side. Said plate or bar can be either turned forward under the sole of the boot or shoe, to be used as a creeper, or it can be folded back over the heel, when it will be out of the way, the whole instrument being then only a spur. By means of a suitable fastening-device the bow can be locked to the spur in either position.

A, in the drawings, represents the bow-shaped bar of a spur, attached to a boot or shoe in any suitable manner.

B is the spur, attached to the bow A.

C is a bow-shaped bar or plate, pivoted at its ends to near the ends of the bar A. It has teeth, *a a*, projecting from one side, or has that side toothed or roughened in any suitable manner.

It can be turned under the sole of the boot or shoe, as shown in red lines in fig. 1, when it will constitute the creeper, as shown, or it can be folded back over the heel, as shown by black lines in fig. 1. In the latter case the bar C can be folded out of the way, the whole instrument being a spur.

D is a spring-plate, projecting from one portion of the bar A, and having a projecting pin, *b*, which fits into either one of two apertures, *c d*, bored or formed through a part of the plate C. The said plate or bar C will thus be locked in either position, and can only be disengaged from the lock by drawing the pin *b* out of the aperture aforesaid, in the manner indicated by red lines in fig. 2.

Any other device or means for locking the bar C may, however, be employed with equal advantage, and I do not confine myself to this particular plate D and pin *b*.

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

A combined spur and creeper, made and operating substantially as herein shown and described.

FERDINAND MEHRMANN.

Witnesses:

M. OBERMEIER,
CARL NIEMANN.