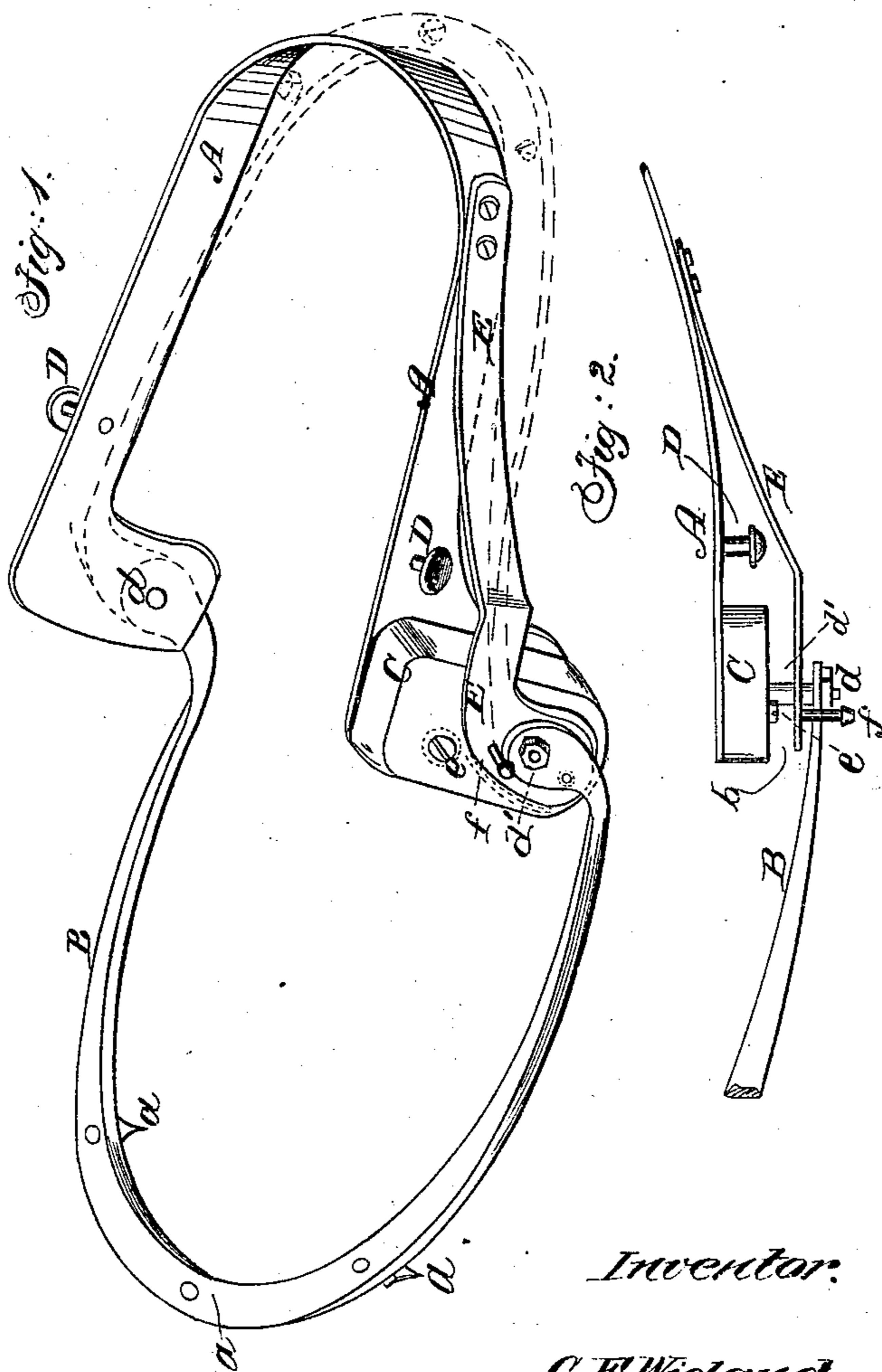


C.F. Wieland,

Ice Creeper.

No. 34,400.

Patented Nov. 24, 1868.



Inventor:

C.F. Wieland.

per 

Attorneys.

Witnesses.

Anna Morgan

Ch. L. Dietrich.

United States Patent Office.

C. F. WIELAND, OF DARMSTADT, ILLINOIS.

Letters Patent No. 84,400, dated November 24, 1868.

IMPROVED ICE-SPUR.

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, C. F. WIELAND, of Darmstadt, in the county of St. Clair, and State of Illinois, have invented a new and improved Spur for Ice and other purposes; 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.

Figure 1 is a perspective view of my invention.

Figure 2 is a detail top view, showing the catch-spring and pin.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a simple, convenient, and effective spur or creeper, so called, for walking on ice or inclined roofs of houses.

It consists, in general terms, of two U-shaped metal plates, one constituting the heel-plate, and the other, which is pivoted to it in such a manner as to fold back on the heel, or forward, under the sole of the shoe, bears pointed studs, which enter the surface walked on, and thereby prevent the wearer from slipping.

A coiled spring is arranged on one of the hinge-pintles of the movable part, and is enclosed within a case affixed to the heel-plate.

This spring keeps the movable part upon the heel, when not wanted for use, and a spring-catch device retains the movable part under the sole of the foot when in use as a creeper.

In the drawings, A is the heel-plate, and B a similar U-shaped plate, pivoted thereto by pintle-rivets *d*, one of which, *d*, is merely a headed rivet, on the heel-plate, while the other, *d'*, is a pintle, affixed to the plate or part B, and passes through the case C, turning freely in bearings afforded by the said case and the plate A.

A spiral spring is attached to the pintle *d'*, and a fixed stud, *e*, as shown by the dotted line. This spring, when free to act, holds the plate B back upon the heel, as shown in red.

When set for use, the plate B is opened forward against the tension of the spring to the position shown.

a a a are its pointed studs, for taking hold of the ice or roof.

D are buttons for an attaching-strap, which passes over the instep and holds the heel-plate to the heel.

E is a spring-plate, having a hole in which a pin, *b*, in the plate B catches when the said plate is extended forward under the sole.

f is a stud, projecting out from the spring E, and by striking this stud against any fixed object, the spring will be pressed back from the pin *b*, thus liberating the plate B, which will fly back upon the heel-plate, in obedience to the spring within the case C.

The spring E is affixed to the heel-plate, as shown, and the free end encloses the pintle *d'* loosely.

Having thus described my invention,

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

The combination, in a spur or creeper, of the two U-shaped plates, A and B, pivoted together by pintles *d* *d'*, and actuated by a spring within a case, C, with the spring-catch E, and pin *b*, all arranged and operating substantially as shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 31st day of August, 1868.

C. F. WIELAND.

Witnesses:

LEOPOLD WIESSE,
H. FRUTH.