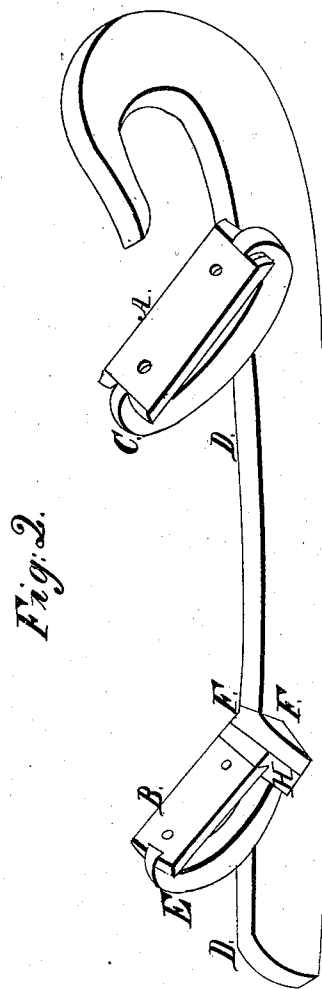
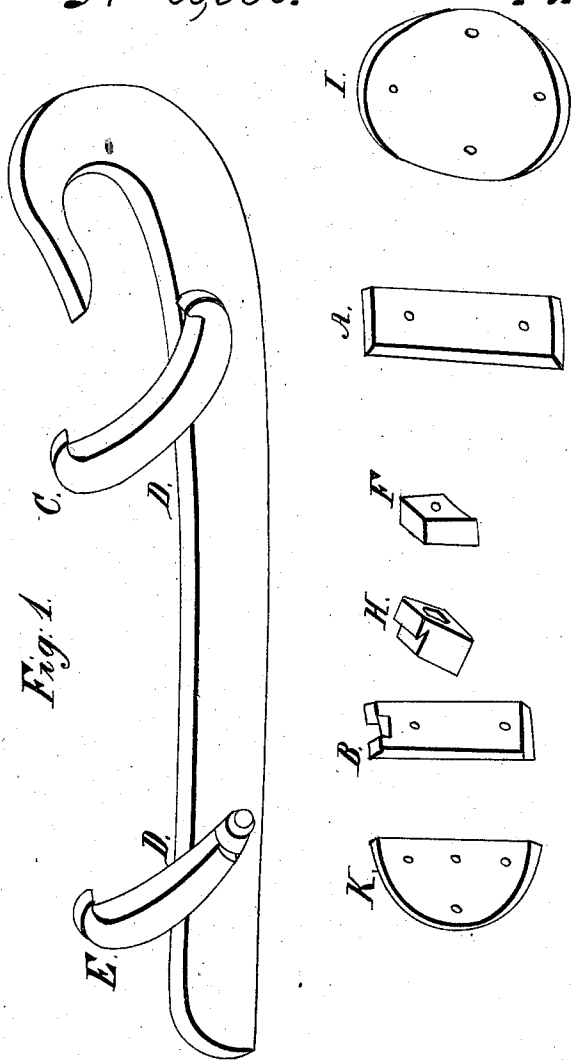


R. J. Russell,

Skate.

N^o 83665.

Patented Nov. 3 1868.



Witnesses:

James Staley
David Staley

Inventor:

R. J. Russell

United States Patent Office.

R. J. RUSSELL, OF MOUNDSVILLE, WEST VIRGINIA.

Letters Patent No. 83,665, dated November 3, 1868.

IMPROVEMENT IN SKATES.

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, R. J. RUSSELL, of Moundsville, in the county of Marshall, and State of West Virginia, have invented a new and improved Skate; 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 view of my improved skate when the slides are off, and the nut and washer off.

Figure 2 is a view thereof, when the parts are together.

Similar letters of reference indicate corresponding parts.

A is a slide, made with a bevel on each end, which bevelled ends are made parallel to each other, so as to slip through the hooked end of the bars C, and is fastened to the sole of the boot with small screws.

B is a slide, made with a bevel on one end, and a bevelled notch on the other, and is fastened to the heel of the boot.

C is a small bar, of iron or other metal, welded to the runner D, and made with a hook on each end, to fit tightly on the bevelled ends of the slide A, as seen in fig. 2.

The bar C must fit so as to hold the slide A firmly, and yet allow it to move or slip through between the hooked ends of it, (the bar C.)

E is a small bar of iron, made with a hook on one end, to fit in the bevelled notch in B, as seen in fig. 2, and a screw-thread on the other end, with a nut, F.

H is a washer, made to fit on the bar E, with a groove, to fit on the bevelled end of the slide B, so that when the nut F is screwed upon the bar E, it will force the groove, in the washer H, over the bevelled end of the slide B, so as to hold it firmly as a clamp.

By the use of this skate, the necessity of straps is obviated. As they prevent the free circulation of the blood through the feet, and are very inconvenient, they should be abolished. This skate is very convenient, for, as the slides A and B may be allowed to remain on the boot, all that is necessary is to slip the hooked ends of the bar C over the bevelled ends of the slide A, and draw the skate back until the hooked end of the bar E fits in the notch in B. The nut F then being tightened on the washer H, forces the bevelled end of the bar B into the groove in H, which fastens the skate very securely, and holds it much more firmly than straps would. The skates are made right and left, with the nut on the outside of the heel.

As a useful modification of this invention, above described, the bars C and E may be made so as to form springs, or not, as most desirable. The bar C may be made as E, if preferred. The slide A may be made as the plait J, as seen in fig. 1, with the bevelled ends oblique to each other, or in the form of a wedge, so as to prevent the skate from slipping back on the boot, in which case B may be made as K, in the form of a wedge, with the bevelled ends oblique, to keep the skate from slipping forward on the boot, and without the notch, as seen in fig. 1, if preferred.

Having thus described my invention,

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

The combination of the slides A and B with the bars C and E, and the washers H and nut F, substantially as described, the whole constructed and operating as herein set forth and shown.

R. J. RUSSELL.

Witnesses:

THOMAS FINN,
J. M. PIPES.