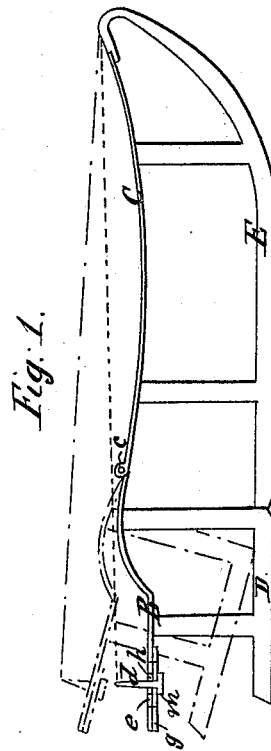
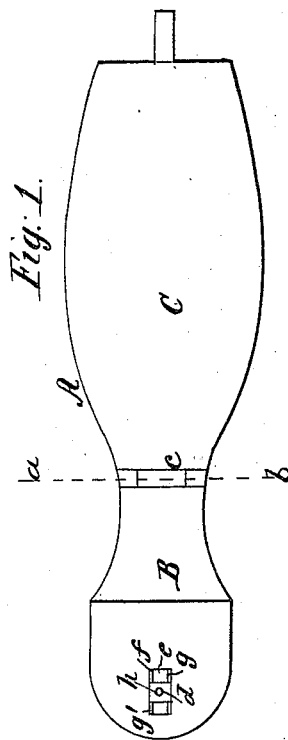


H. N. M. Smith,

Skate.

N^o 52,331.

Patented Jan. 30, 1866.



Witnesses;
Francis D. Fatorius
John Anderson

Inventor;
Harrison N. M. Smith

UNITED STATES PATENT OFFICE.

HARRISON N. M. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED SKATE.

Specification forming part of Letters Patent No. 52,331, dated January 30, 1866.

To all whom it may concern:

Be it known that I, HARRISON N. M. SMITH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented an Improved Skate; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in dividing a skate transversely into two parts, which are hinged together, and in using a sliding heel-pin.

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

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a plan view, and Fig. 2 is an elevation sectioned at the heel.

Similar letters refer to similar parts in the two views.

A is a skate, divided transversely at the line *a b*, the two parts or portions being held together by the hinge *c*, attached to the treads B and C.

There are two runners, D and E, which lie in the same longitudinal plane perpendicular to the treads B and C, one being attached to each tread. It will be observed when the two treads are in the same right line the distance between the toe of the skate and the heel-pin *d* is greater than when they are placed at an angle to each other (Fig. 2, red lines) to preserve the same distance. Whether the treads

are in the same right line or at an angle to each other, I use a sliding heel-pin, which in this case is constructed and arranged as follows: A slot or opening, *e*, is cut in the heel of the tread. Beneath this a plate, *f*, is attached, which is so slotted that its edges *g g'* shall project slightly over the edges of the opening *e*. A stand or collar, *h*, is formed on the bottom of the heel-pin, from which projects the screw *l*. The stand *h* fits snugly into the recess or opening *e* and rests upon the plate *f*, the screw projecting sufficiently to screw on a nut, *m*, which keeps the pin from lifting, and at the same time allowing it to move freely longitudinally back and forth in the opening. The use of a heel-strap is entirely dispensed with.

I do not confine myself to any particular description of a heel-pin or any method of fastening it for carrying out my invention, as it will be seen that it may be materially modified; but

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

1. A sliding heel-pin, for the purpose as is herein shown and described.

2. The combination of the sliding heel-pin *d* and the hinge or joint *c*, as is herein shown and described.

In testimony thereof I have hereunto signed my name to this specification in presence of two subscribing witnesses.

HARRISON N. M. SMITH.

Witnesses:

FRANCIS D. PASTORIUS,
W. W. DOUGHERTY.