

W. L. Gregory,

Skate,

No 34,611,

Patented Mar. 4, 1862.

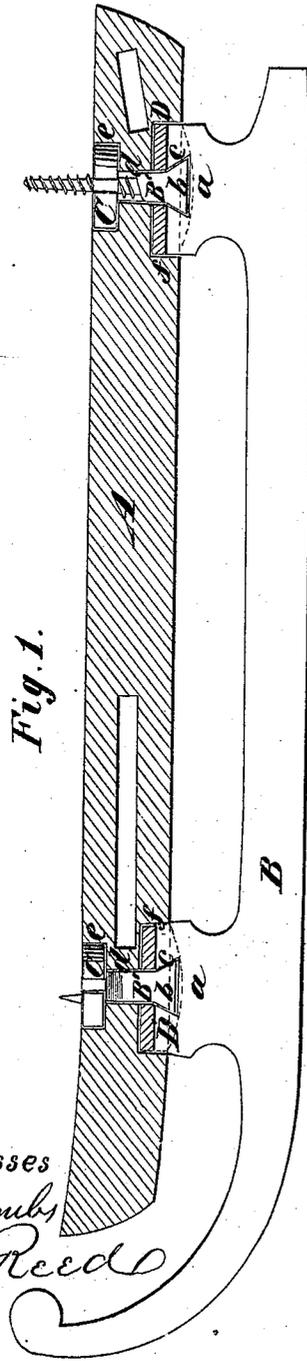
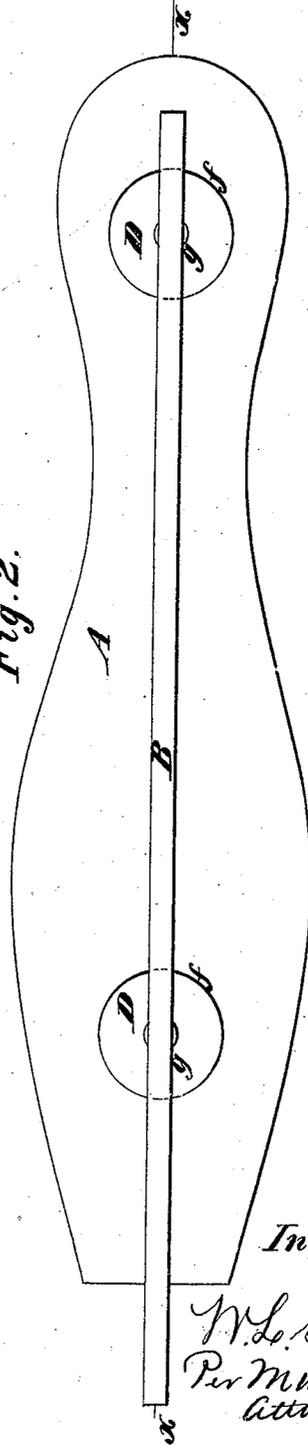


Fig. 1.

Fig. 2.



Witnesses  
J. W. Coombs  
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# UNITED STATES PATENT OFFICE.

WILLIS L. GREGORY, OF AMSTERDAM, NEW YORK, ASSIGNOR TO HIMSELF  
AND GARDNER LANDON, JR., OF SAME PLACE.

## IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. 34,611, dated March 4, 1862.

*To all whom it may concern:*

Be it known that I, WILLIS L. GREGORY, of Amsterdam, in the county of Montgomery and State of New York, have invented a new and useful Improvement in the Construction of Skates; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my invention, taken in the line *xx*, Fig. 2; Fig. 2 a bottom view of same.

Similar letters of reference indicate corresponding parts in the two figures.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the stock of the skate, which may be of wood, and B the runner, of metal, steel being the preferable material. This runner has two knees *a a*, one near the front and the other near the back end. These knees may be of the usual form, and each has a wood-screw *B'* fitted in it, the heads *b* of the screws being formed with parallel sides and fitted in V-shaped recesses *c* in the tops of the knees. By this arrangement it will be seen that the screws are attached to the knees by a dovetail connection, and the screws pass through openings *d* in the stock and have nuts *C* on them, which fit in circular recesses *e* in the upper surface of the stock, the nuts being flush therewith, as shown in Fig. 1.

In the under surface of the stock A there are circular recesses *f*, which are concentric with the openings *d* and receive circular metal plates D, which have each a recess or groove *g* in them, and these recesses or grooves receive the upper ends of the knees *a a* and the heads *b* of the screws *B'*, the screws passing through the centers of the plates. These plates D therefore are sockets, and serve to retain the heads *b* of the screws in the knees, and also serve as firm bearings for the upper ends of the knees.

The nuts C, by being screwed down in the recesses *e*, draw the upper ends of the knees *a a* snugly into the sockets D. The screw *B'* at the back part of the skate is made sufficiently long to project above the stock A and serve as a spur to enter the heel of the boot or shoe. The front screw *B'* is cut or filed off flush with the upper surface of the stock A.

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

The combination of the screws *B' B'* with the runner-knees, caps D D, nuts C C, and stock A, in the manner herein shown and described.

WILLIS L. GREGORY.

Witnesses:

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