O. EDWARDS.

Skates.

No. 154,176. Patented Aug. 18, 1874.

Fig. 1.

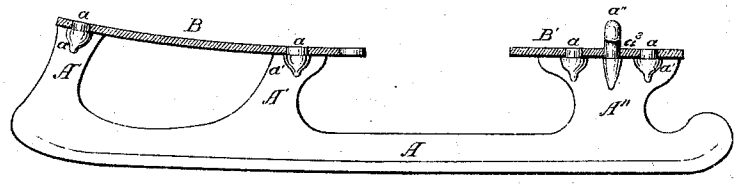


Fig. 2.

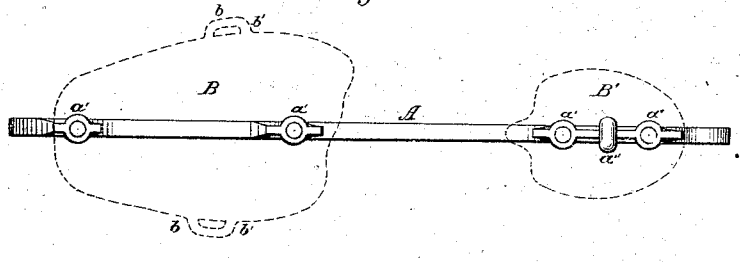
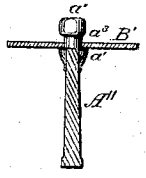


Fig. 3.



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UNITED STATES PATENT OFFICE.

OLIVER EDWARDS, OF FLORENCE, MASSACHUSETTS.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. **154,176**, dated August 18, 1874; application filed July 22, 1874.

CASE B.

To all whom it may concern:

Be it known that I, OLIVER EDWARDS, of Florence, in the county of Hampshire, in the State of Massachusetts, have made certain Improvements in Skates, of which the following is the specification:

The object of this invention is to produce a cheap, durable, and simple skate; and it consists in the construction of the same, as will be fully hereinafter described.

In the drawings, Figure 1 represents a side view of the skate, with the heel and foot plates in section; Fig. 2, a top view of the same, and Fig. 3 a rear upright sectional view through the button or stud that attaches the heel of the skate to the heel of the boot.

A represents the runner of the skate, of the usual form and conditions, with the risers A′ A′ A″, to receive the foot rests or plates. *a a a a* are rivets extending upward from the risers A′ A″ far enough to go through the foot rests or plates, and be riveted fast thereto, and then smoothed off on the top even with the plates. *a′ a′* are enlargements of the bases of the rivets, which give an additional amount of bearing surface or support laterally to the foot rests or plates without increasing to any considerable extent the weight of the runner. *a″* is the button or stud, that rises above the heel-plate by passing through it, with a neck, a^3, while the button on the top is of a greater diameter transversely with the runner than longitudinally therewith, the neck a^3 being round. This runner is made by casting in molds from any suitable metal of which the runners of skates are cast, or they may be cut or stamped from plates and formed in suitable dies, the leading object being to form the rivets *a* and the bases *a′* to the rivets, and the stud or button with its base, in the same metal that the runner and risers are, so that there will be no chance of separation or breakage in use; in other words, the runner, risers, rivets, and button or stud are all one piece of metal. B is the toe or ball of the foot-rest, is riveted fast to the runner A by the rivets *a a* on the risers A′ of the runner. *b b* are projections on either side of the plate B, and have loop-holes *b′* therein to secure proper straps therein, to fasten the fore part of the skate to the foot. B′ is the heel rest or plate, made fast to the runner A by the rivets *a a* on the riser under the heel, and allowing the button or stud *a″* to pass through it, as seen in Figs. 1 and 3.

By this construction, a skate is formed from and has but three pieces in it, and by having less pieces, and consequently fewer parts and joints, the strength and durability of the skate are increased, is less liable to break or get out of order, and decreases the price.

What I claim as new is—

1. The skate-runner A, with its risers A′ A″, rivets *a*, button or stud *a″*, and their enlarged bases *a′*, in one piece of metal, in the manner and for the purposes described.

2. The skate-runner A, having the rivets *a*, stud *a″*, with their enlarged bases *a′*, in combination with the plates B and B′, substantially as and for the purposes described.

OLIVER EDWARDS.

Witnesses:

CALVIN PORTER,

E. V. TANNER.