J. MINER.

ROLLER-SKATE.

No. 191,542. Patented June 5, 1877.

Fig. 1.

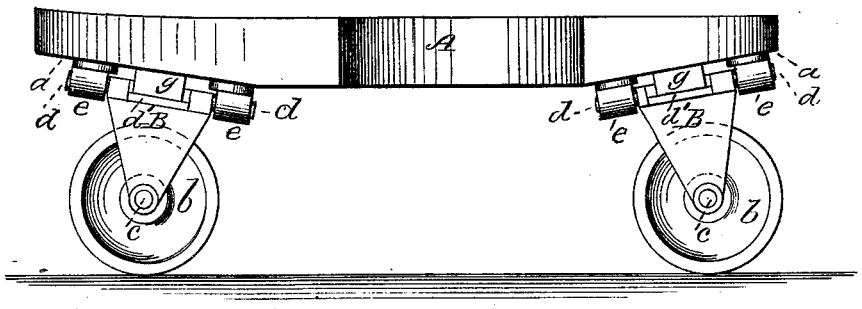


Fig. 2.

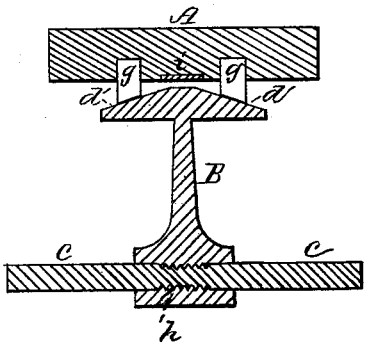
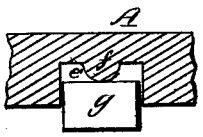


Fig. 3.



WITNESSES

Nat. E. Oliphant

Wm. J. Pearce

INVENTOR

John Miner.

per Chas. H. Fowler

Attorney.

UNITED STATES PATENT OFFICE.

JOHN MINER, OF DETROIT, MICHIGAN.

IMPROVEMENT IN ROLLER-SKATES.

Specification forming part of Letters Patent No. **191,542**, dated June 5, 1877; application filed April 16, 1877.

To all whom it may concern:

Be it known that I, JOHN MINER, of Detroit, in the county of Wayne and State of Michigan, have invented a new and valuable Improvement in Roller-Skate; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my invention. Fig. 2 is a section through the casting and heel and sole plate. Fig. 3 is a view showing the recess for the rubber spring.

This invention has relation to roller-skates; and its object and purpose are to construct a skate of the above character simple in its parts, and one that can be easily and readily governed by the skater in guiding or steering himself in such direction as he may think proper; and the invention consists in the general construction of the parts, as will be hereinafter described, and subsequently pointed out in the claims.

In the accompanying drawings, A represents the heel and sole plate, preferably of wood, and is formed upon its under side at both ends with inclines *a*, thereby allowing a greater extent of rocking motion, and enabling the skater to control the skate, and more readily and effectually guide or steer it to the direction desired.

The rollers *b* are secured upon axles *c* of the castings B, said castings being formed with journals *d*, by which they are secured to the under side of the sole and heel plate A by means of the eyes *e*.

These castings B have two incline bearing-plates, *d' d'*, and upon the under side of the heel and sole plate A are recesses *e'*, with a rib, *f*, said recesses receiving and holding a rubber spring, *g*.

The two inclines upon the bearing-plates *d' d'* of the casting B admit of the skate having a free rocking motion either way, and also act as stops and bearings, so that when brought in contact with the under surface of the heel and sole plate, and against the inclines *a*, a very firm support is obtained for the foot, and the rollers are prevented from coming in contact with the skate-wood.

The ribs *f* in the recesses *e'* prevent the rubber springs *g* from extending too far into the recesses, and thereby form a space each side of the rib, by which the rubber has room to yield, and thus allow the inclined plates *d' d'* to bear upon the under side of the wood and form a support for the plate A, while the spaces formed by the rib *f* admits of the spring *g* acting with greater force to throw back the casting from either right or left to a horizontal position.

The castings B may be formed in a single piece with the axles *c;* but as the axles should be of harder metal than that of which the castings are composed, I prefer to form the axle separate, with serrations *h* near its center, and afterward place it in a suitable mold, and pour the metal which is to form the casting B around it, the roughened surface or serrations *h* preventing the axle from working loose.

Protecting-plates *i* may be secured to the under side of the plate A, to prevent that portion of the casting between the rubber springs from coming in contact with the wood, and thereby preserving it from wear.

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

1. The castings B, formed with the laterally-inclined plates *d' d'*, in combination with the heel and sole plate A, with springs *g*, substantially as and for the purpose specified.

2. The combination, with the heel and sole plate A, formed at both ends and upon its under surface with inclines *a*, of the castings B, formed with inclined plates *d' d'* and spring *g*, substantially as and for the purpose set forth.

3. The heel and sole plate A, formed with recesses *e'* and rib *f*, for the reception of the rubber spring *g*, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN MINER.

Witnesses:
DESIRE B. WILLEMIN,
MOSES C. MINER.