

O. W. EVERETT.

ROLLER SKATE.

APPLICATION FILED JUNE 30, 1910.

1,021,735.

Patented Mar. 26, 1912.

2 SHEETS—SHEET 1.

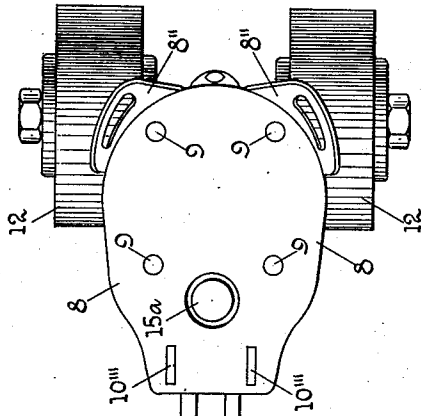


Fig. 1.

Witnesses
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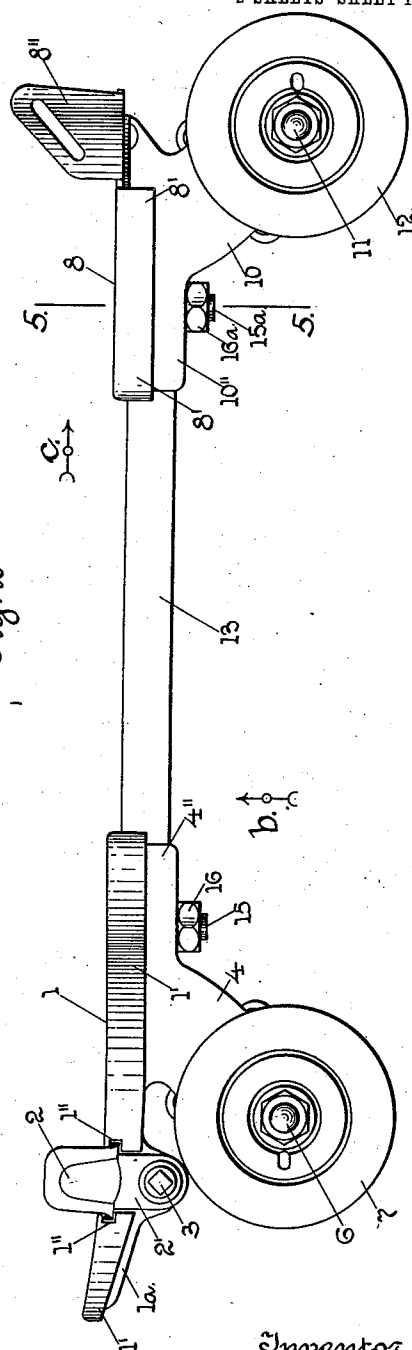


Fig. 2.

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2 SHEETS-SHEET 2.

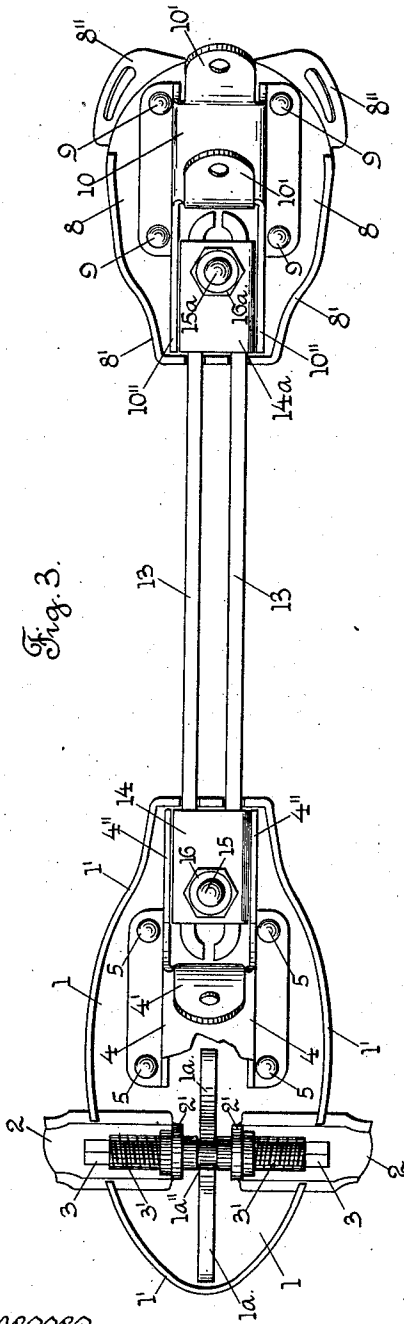


Fig. 3.

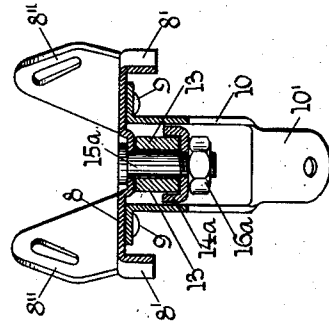


Fig. 5.

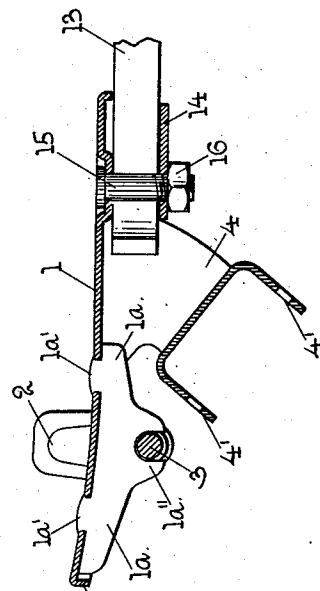


Fig. 4.

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UNITED STATES PATENT OFFICE.

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ROLLER-SKATE.

1,021,735.

Specification of Letters Patent.

Patented Mar. 26, 1912.

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To all whom it may concern:

Be it known that I, OTIS W. EVERETT, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

My invention relates to roller skates, and more particularly to an "extension" roller skate, so-termed, and the object of my invention is to improve upon this type of skates ordinarily made, and to make a stronger and more durable skate.

In my improvements, the hanger at the front of the skate, or the toe hanger, is preferably extended toward the heel or rear end of the skate, and the hanger at the rear of the skate, or the heel hanger, is preferably extended toward the toe or front end of the skate. The toe, and heel hangers are extended for the purpose of strengthening both toe and heel plates. The toe, and heel plates are preferably provided with a lip or flange made by bending over their edges at right angles, to stiffen the same, and allow of the use of lighter stock, thus making the skate lighter. The lip or flange on the toe plate is preferably used as a guide for the toe clamps, by cutting a slot or groove in said lip or flange. The toe plate is also preferably provided on its underside with a central extension or rib, which has a recess therein to hold the clamp screw in position; said rib or extension is riveted to the toe plate, and extends beyond both sides of slot, used as a guide for the clamp.

To adjust the length of the skate and make the skate an extension skate, two bars are used in connection with the toe and heel plates, which extend in the direction of the length of the skate below the toe and heel plates. Said bars are preferably made as two separate and independent bars, and are not fixedly fastened at each end to the toe and heel plates, but on loosening the adjustable attaching means, which adjustably attaches said bars to the toe and heel plates, they are free to slide together or separately in the direction of the length of the skate.

Any ordinary means for fastening the skate to the shoe may be used, and any ordinary style of roller carrier for carrying the rolls may be used.

Referring to the drawings:—Figure 1 is a

plan view of an extension roller skate embodying my improvements. Fig. 2 is a side view of the roller skate shown in Fig. 1, looking in the direction of arrow *a*, same figure. Fig. 3 is an underside view of the skate shown in Fig. 2, looking in the direction of arrow *b*, same figure. The rolls and some of the parts connected therewith are not shown in this figure. Fig. 4 is a section, on line 4, 4, Fig. 1, looking in the direction of arrow *a*, same figure. The rolls, and the parts connected therewith are not shown in this figure, and, Fig. 5 is a section, on line 5, 5, Fig. 2, looking in the direction of arrow *c*, same figure. The rolls, and parts connected therewith are not shown in this figure.

In the accompanying drawings, the toe plate 1 has preferably a lip or flange 1' extending around the edge thereof at substantially right angles to the body of the plate. Near the front end of the toe plate 1, the lip or flange 1' is cut out, as shown at 1'', Fig. 2, for the toe clamps 2, which may be of ordinary construction. The toe clamps 2 are moved toward and away from each other by the clamp screw 3, which has the threaded portions 3' to turn in threaded openings on the downward extensions 2' on the toe clamps 2, in the usual way. Extending upon the central part of the underside of the toe plate 1 is in this instance a rib or extension 1^a, which is preferably provided with lugs 1^a', which extend through openings in the toe plate 1 and are riveted or headed in said openings. The central rib or extension 1^a has a recess 1^a'' therein, see Fig. 4, to receive the clamp screw 3, and retain the clamp screw in position.

The front hanger, or toe hanger 4, is riveted on the underside of the toe plate 1, in this instance by four rivets 5, in the usual way, and has the downward extensions 4', see Fig. 4, for the rocking roller carrier, which may be of the ordinary construction, and carries an axle 6, on which the rolls 7 are loosely mounted in the usual way. The front hanger, or toe hanger 4 has in this instance the rear end thereof extended, as shown at 4''. Said extension extends in this instance to the rear end of the toe plate 1, and is riveted thereto, as shown at 4''' in Fig. 1.

The heel plate 8 has preferably a lip or flange 8' on the sides and front end thereof,

extending at substantially right angles to the body of the plate. Extending up from the heel plate 8, in the ordinary way, are extensions 8" for the heel straps. Upon the underside of the heel plate 8 is secured, in this instance by four rivets 9, the rear hanger or heel hanger 10, which has the downward extension 10' for the rocking roller carrier, which may be of the ordinary construction, and an axle 11, on which the rear rolls 12 are loosely mounted in the usual way. The rear hanger or heel hanger 10 is in this instance extended as shown at 10" to the front end of the heel plate 8, and is riveted thereto, as shown at 10", Fig. 1.

Combined with the toe plate 1, and the heel plate 8, are two bars 13, which in this instance extend edgewise, in the direction of the length of the skate. The bars 13 are preferably made separate, as two independent bars, and are not fixedly connected to the toe and heel plates, but one or both of said bars may be moved longitudinally independently of said plates. The bars 13 extend below the toe and heel plates, and are preferably adjustably secured to both the toe and heel plates, so that either the toe, or the heel plate, or both the toe and the heel plates, may be moved in the direction of the length of said bars, to lengthen or shorten the skate, and make an extension skate thereof, to be fitted to different length shoes. In this instance the bars 13 extend in slots or openings made in the lip or flange 1' on the toe plate 1, and in the lip or flange 8' on the heel plate 8, as shown in Fig. 3, and are in this instance held in these slots or openings by a clamp plate 14, which is connected with the toe plate 1 by a bolt 15 having its head extending in a countersunk hole in the plate 1 and a nut 16 on the threaded end of said bolt; and to the heel plate 8 in this instance by a clamp plate 14^a, and a bolt 15^a, see Fig. 5, which has its head extending in a countersunk hole in the heel plate 8, and a nut 16^a on the threaded end of said bolt. The inner ends of the bars 13 are preferably bent inwardly, as shown in Fig. 3, or they may be connected at one end to prevent their being drawn out, by the bolts 15, and 15^a, in moving apart the toe and heel plates, for adjusting the length of the skate.

In order to adjust the length of the skate constructed as described, and as shown in the drawings, the nuts 16 and 16^a are loosened on the bolts 15 and 15^a to release the pressure of the clamp plates 14 and 14^a on the lower edges of the bars 13, the toe and

heel plates are then moved apart, or toward each other, until the skate is of the desired length. The nuts 16 and 16^a are then turned on the bolts 15 and 15^a, to securely clamp the bars 13 between the clamp plates 14 and 14^a, and the inner ends of the slots or recesses in the lips or flanges 1' and 8', on the toe plate 1, and the heel plate 8.

In connection with my improvements, any ordinary means for fastening the skate to the shoe of the wearer may be used, as my improvements relate to the novel construction, and particularly to the two bars extending below the toe and heel plates, and adjustably attached thereto, to form means for adjusting the length of the skate, and also for strengthening the skate.

It will be understood that the details of construction of my improvements may be varied if desired.

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

1. In an extension roller skate, the combination with the toe plate, and the heel plate, made separate, of two bars, made separate from said plates, and extending below said plates, and adjustably secured thereto at each end.

2. In an extension roller skate, the combination with the toe plate, and the heel plate, made separate, of two bars, curved or bent inwardly at one or both ends, and made separate from said plates, and extending below said plates, and adjustably secured thereto at each end, to allow of the adjustment of the toe plate and the heel plate on said bars.

3. In an extension roller skate, the combination with the toe plate, and the heel plate, made separate, of two bars, made separate from said plates, and extending between said plates, and guided in slots in downward lips or flanges on said plates, and adjustably secured at each end to the toe plate, and to the heel plate.

4. In an extension roller skate, the combination with the toe plate, and the heel plate, made separate, of two bars, made separate from said plates, and extending between said plates, and guided in slots in downward lips or flanges on said plates, and adjustably secured at each end in the toe plate, and to the heel plate by a clamp plate, and a bolt, and a nut.

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Witnesses:

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