A. MARTENSON.

ROLLER SKATE.

APPLICATION FILED APR. 20, 1915.

1,184,552.

Patented May 23, 1916.

2 SHEETS—SHEET 1.

Fig. 1

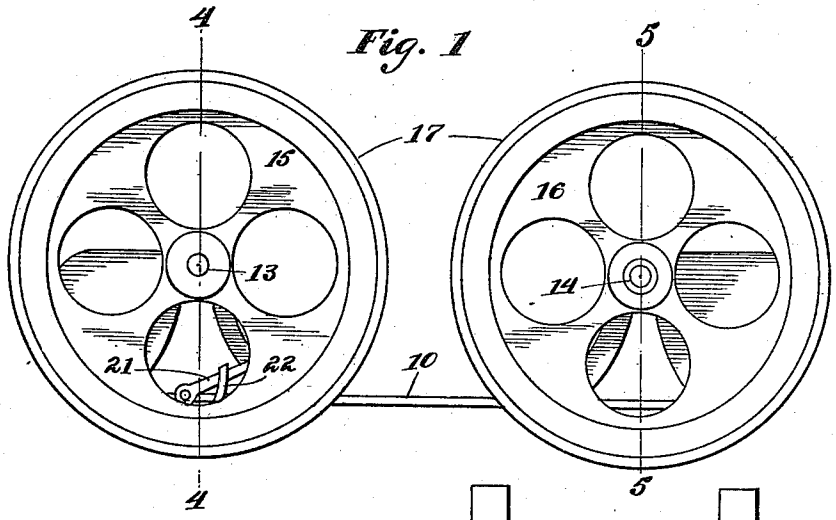
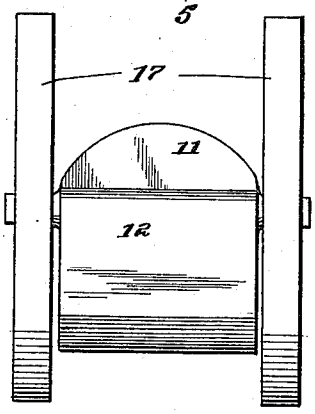


Fig. 2



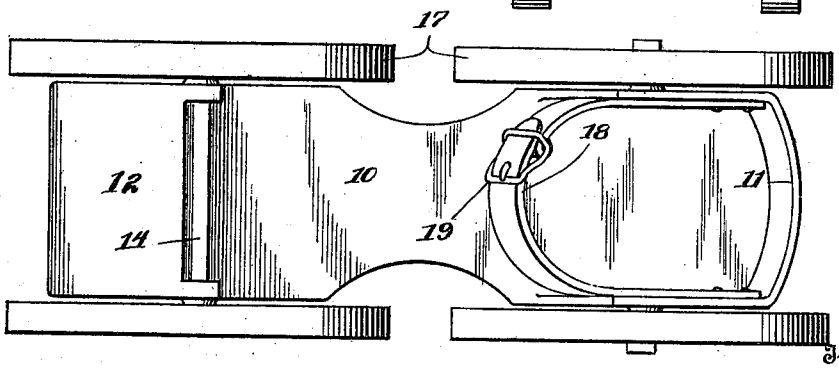


Fig. 3

Witnesses

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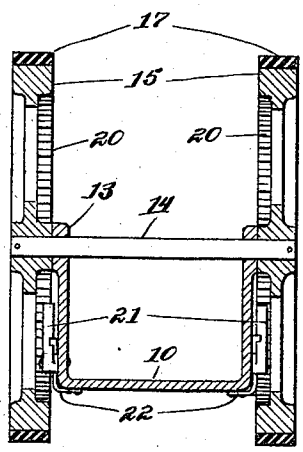


Fig. 4

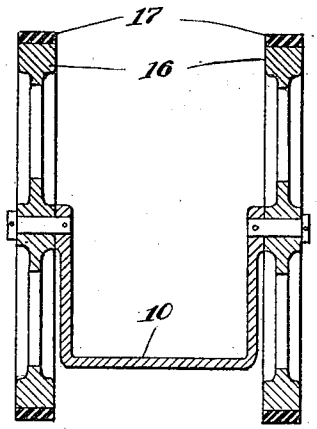


Fig. 5

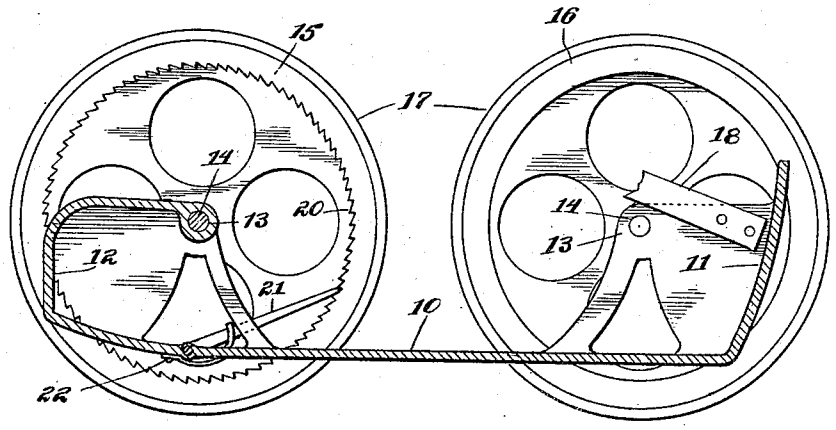


Fig. 6

Witnesses
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UNITED STATES PATENT OFFICE.

ADOLPH MARTENSON, OF WASECA, MINNESOTA.

ROLLER-SKATE.

1,184,552. Specification of Letters Patent. Patented May 23, 1916.

Application filed April 20, 1915. Serial No. 22,661.

To all whom it may concern:

Be it known that I, ADOLPH MARTENSON, a citizen of the United States, residing at Waseca, in the county of Waseca and State of Minnesota, have invented new and useful Improvements in Roller-Skates, of which the following is a specification.

The invention relates to skates, and more particularly to the class of roller skates.

The primary object of the invention is the provision of a skate wherein the front wheels thereof are locked against backward movement in a novel manner so that the user of the skate is assured a positive hold upon the surface on which the skates travel and is prevented from falling backward while in the act of skating or when stopping.

Another object of the invention is the provision of a skate of this character which is simple in construction, strong, durable, reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

In the drawings:—Figure 1 is a side elevation of a skate constructed in accordance with the invention. Fig. 2 is a front elevation thereof. Fig. 3 is a top plan view. Fig. 4 is a sectional view on the line 4—4 of Fig. 1. Fig. 5 is a sectional view on the line 5—5 of Fig. 1. Fig. 6 is a vertical longitudinal sectional view through the skate.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawings in detail, the skate comprises a foot support 10 formed with a heel receiving portion 11 and a toe receiving portion 12, the latter being extended upwardly and rearwardly to accommodate the toe portion of a shoe, and at the toe and heel portions on opposite sides of the foot support 10 are bearings 13 in which are journaled axles 14 carrying rotatable front and rear wheels 15 and 16, respectively. The front and rear wheels 15 and 16 each carries a resilient tire 17 which is secured thereto in any suitable manner.

Secured to the heel portion 11 of the foot support 10 is a strap 18 which is provided with a buckle 19 for adjustably securing the foot of the user of the skate upon the support as usual.

Each front wheel 15 is formed with internal ratchet teeth 20 with which engages a ratchet pawl 21, the same being fixed to leaf springs 22 which are riveted thereto and also riveted to the under face of the foot support 10 so that the ratchet pawl 21 is disposed at one side thereof to engage with any one of the ratchet teeth 20 to lock each front wheel 15 against backward rotation, yet the said wheel is free for forward rotation as the ratchet pawl 21 rides over the ratchet teeth 20 during this movement.

The skate may obviously be used in the ordinary well-known manner, that is to say, similar to the ordinary roller skate, and the front wheels thereof will be automatically locked against backward movement under the action of the pawls 21 so that a firm hold can be had upon the surface on which the skate is traveling to render the task of impelling the skate easier and avoiding the possibility of falling backward while the skates are in use.

What is claimed is:—

1. In a roller skate, a foot support, front and rear supporting wheels therefor, internal ratchet teeth formed on the front wheels, the said foot support being disposed below the center of the wheels, ratchet pawls engageable with the ratchet teeth and mounted on opposite edges from the foot support, and leaf springs fixed to the foot support and the said pawls to resiliently hold the ratchet pawls.

2. In a roller skate, a foot support, front and rear wheels journaled upon opposite sides of said support, said support having its forward end bent rearwardly, the end of the rearwardly bent portion being mounted upon the axle for the front wheel, internal ratchet teeth formed on the front wheels, pawls mounted upon the longitudinal edges of said foot support and engageable with the ratchet teeth, and leaf springs

fixed to the foot support and the said pawls to resiliently hold the said ratchet pawls.

3. In a roller skate, a foot support, vertically extending bearings at one end of the support to provide a heel receiving portion, wheels journaled in said bearings, the forward end of said support being bent upwardly and rearwardly, bearings formed on the free end of the rearwardly bent portion, an axle through said bearings, wheels journaled on the opposite extremities of said axles.

In testimony whereof I affix my signature in presence of two witnesses.

ADOLPH MARTENSON.

Witnesses:

HENRY APPULDORN,

JAMES IVERSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."