(No Model.)

G. W. KEYSER.

ROLLER SKATE.

No. 303,167. Patented Aug. 5, 1884.

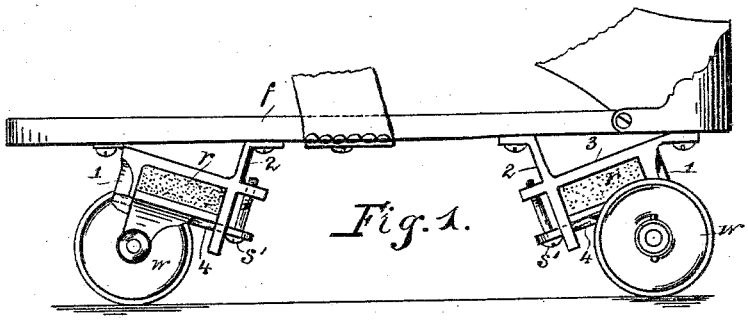


Fig. 1.

Fig. 2.

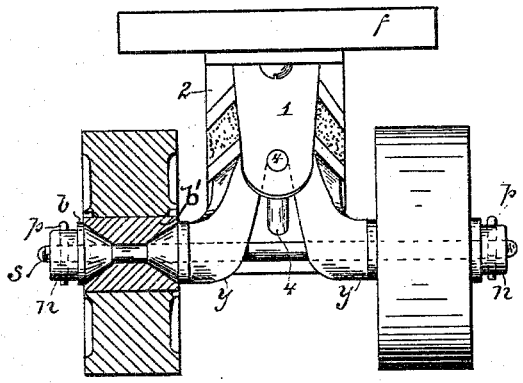


Fig. 3.

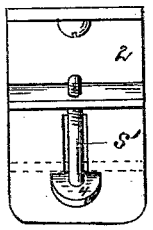
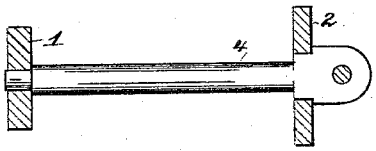


Fig. 4.



WITNESSES.

Jacob W. Loeper

W. S. [illegible]

INVENTOR.

Geo. W. Keyser

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Atty.

UNITED STATES PATENT OFFICE.

GEORGE W. KEYSER, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO BENJAMIN C. WRIGHT.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 303,167, dated August 5, 1884.

Application filed March 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. KEYSER, a resident of Indianapolis, Marion county, Indiana, have made certain new and useful Improvements in Roller-Skates, a description of which is set forth in the following specification, reference being made to the accompanying drawings, in the several figures of which like letters indicate like parts.

My invention relates to the construction of casters for what are known as "roller-skates," and will be understood from the following description.

In the drawings, Figure 1 is a side view of my device, the left front wheel being removed. Fig. 2 is a front end view of the forward caster, one of the rollers being in vertical section to show the boxings. Fig. 3 is a front end view of the rear caster; and Fig. 4 is a top view of the bar 4, with cross-sections of the end bars, 1 and 2.

In detail, *f* is the foot-piece of the skate for the wheels or rollers of the casters revolving on shaft *s*. These rollers have metal boxings *b'*, which are bored out conically on each side, and thus fitted to receive the cone-shaped pieces *b*, which fit loosely on shaft *s*. The ends of this shaft are threaded; and *n* are nuts, which work on the threads, to keep the wheels in place; and *p* are pins passing through nuts and shaft for greater security.

y is a yoke, whose arms at their ends are made cone-shaped to fit into the inner wheel-boxings, the shaft *s* passing through these arms, as shown in Fig. 2. *r* is a rubber core or spring fitted in the frame-work of the caster. This frame-work or its front 1, its rear 2, and its upper piece, 3, are all cast in one piece, while the bottom piece, 4, is a bar made in the shape shown in Fig. 4, its front end being journaled into piece 1, and its rear formed into a head, with an opening to receive the adjusting-screw *s'*, the head, back of the screw-hole, being shouldered to fit into an opening formed in rear piece, 2, this whole frame-work being inclined relative to the shaft *s*, as shown in Fig. 1. By removing screw *s'* the bar 4 may be readily withdrawn when desired. This bar 4 passes loosely through an opening in yoke *y*, before it reaches plate 1, and allows a lateral rotating movement of the whole caster on it as an axis. The plate 2 is slotted, as shown in Fig. 3, to allow an upward movement to bar 4, when the adjusting-screw is tightened. This slot also allows the movement of bar 4 on the screw when any compression of the rubber is caused by the wheels passing over uneven floors. It is thus automatic in relation to this adjustment, and the skate can be used on the sidewalk as well as on a floor.

What I claim, and desire to secure by Letters Patent, is the following:

1. The caster-frame, inclined to the wood of the skate, composed of the integral end pieces, 1 and 2, and top piece, 3, and the bar 4, the yoke-piece *y*, the screw *s'*, the rubber *r*, and the wheels and axis of a caster, all combined substantially as described.

2. The adjustable roller-bar 4, having bearing at one end in front plate of the caster-frame, and a support for the other end in the rear plate of the caster-frame, the screw for adjusting the same, the rubber *r*, and caster-frame, all combined substantially as described.

3. The combination of the yoke *y*, the axle *s*, passing its forked lower ends, the wheels *w*, connected on the axle *s*, the rocker-bar 4, and a caster-frame for supporting such bar, attached to the foot-plate of a skate at an angle, all combined substantially as described.

4. The shaft *s*, with wheels *w* and yoke *y* mounted thereon, between the wheels, a caster-frame secured to the foot-plate of a skate at an angle, as shown, and adapted to inclose a rubber cushion, *r*, the roller-truck secured to the caster-frame by means of a rocker-bar passing through the upper end of the yoke, and adjustable by means of a set-screw, so as to increase or diminish the pressure upon the rubber cushion, substantially as described.

5. A roller-skate wherein the truck-wheels are secured to the frame by means of a yoke pressing against a rubber block seated in the frame-work and a bar passing through the yoke, the other end of the bar adjustable in a slot in the caster-frame by means of a set-screw, substantially as described.

Witness my hand this 14th day of March, 1884.

GEORGE W. KEYSER.

Witnesses:
C. P. JACOBS,
BENJ. C. WRIGHT.