C. W. SALADEE.

PARLOR-SKATES.

No. 177,567 Patented May 16, 1876.

Fig. 1.

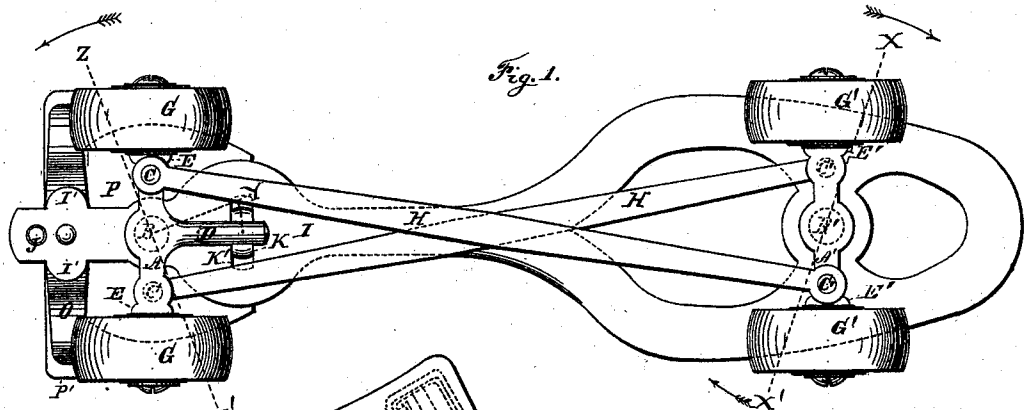


Fig. 4.

Fig. 2.

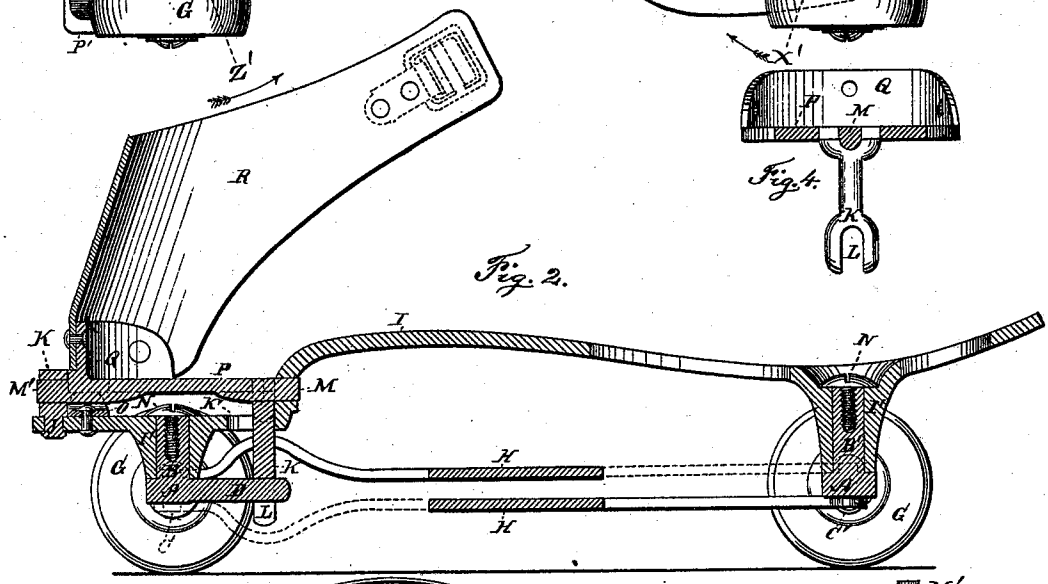


Fig. 3.

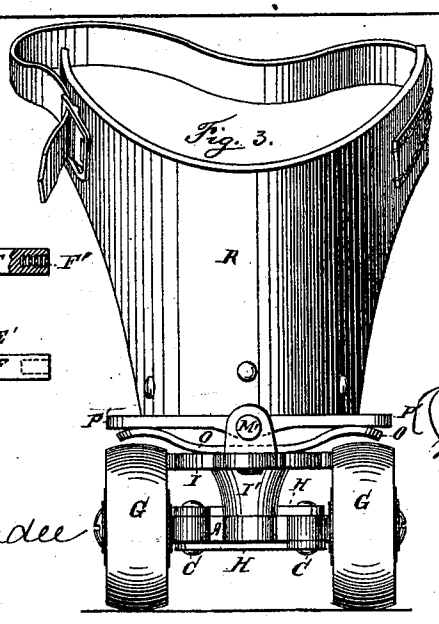


Fig. 6.

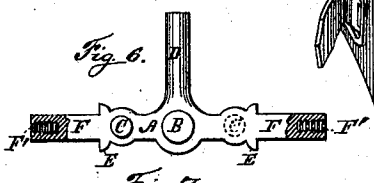
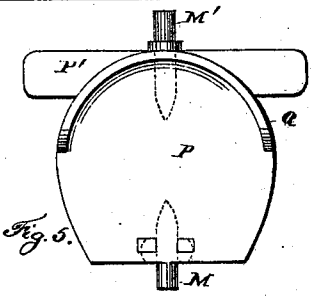


Fig. 7.

Fig. 5.



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UNITED STATES PATENT OFFICE.

CYRUS W. SALADEE, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN PARLOR-SKATES.

Specification forming part of Letters Patent No. **177,567**, dated May 16, 1876; application filed April 28, 1876.

To all whom it may concern:

Be it known that I, CYRUS W. SALADEE, of Washington city, in the District of Columbia, have invented certain Improvements in Parlor-Skates, of which the following is a specification:

To enable others skilled in the art to make and use my invention, I herewith submit the following description:

A skate constructed with rollers that cramp, by attaching or applying the same to the stock or foot-stand in such manner that said rollers will be "turned," "cramped," or "adjusted" so as to run the skate in a curved line to the right or left, by turning, rocking, canting, or oscillating the stock or foot-stand upon a jointed intermediate mechanism connecting the stock to the running-gear of the skate, is no part of my invention.

My invention consists, first, in the attachment of a heel-support pivoted to the stock or foot-stand of a parlor-skate, and otherwise suitably connected to the axle or gearing below, in such manner that a rocking or oscillating motion is imparted to the heel-support by a slight pressure of the heel of the skater's boot to one side or the other, thereby directing the rollers to run the skate in curved lines to the right or left, while the stock or foot-stand remains in its fixed lateral or horizontal position parallel with the floor; also, securing to the rear axle a steering-bar, which is acted upon by a swinging standard suspended from the overlying heel-support, by which the rocking motion imparted to the latter causes the axle to be turned upon its center-pin and the skate directed in curved lines to the right or left, as already described; also, applying to the oscillating heel-support the requisite fastening to secure the heel of the boot thereon, thereby leaving the instep of the foot free to move laterally on either side of the center line of the stock or foot-stand when running the skate in curved lines.

In the drawings, Figure 1 is a bottom-plan view of a skate embodying my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a rear view. Fig. 4 is a detached front view of the oscillating heel-support. Fig. 5 is a top view of the same. Fig. 6 is a detached top view of the rear axle and steering-bar combined, and Fig. 7 is a detached top view of the front axle.

In this skate I construct the stock or foot-stand I and the sockets I′ by casting the same in one piece of metal, the top of the foot-stand being pierced and made skeleton in shape. The front axle A′ has its center-pin B′ formed upon its upper surface, which pin is fitted to operate in its corresponding socket formed upon the bottom of the foot-stand. The front rollers G′ are secured upon the axle-spindles F. The rear axle A has, in like manner, its center-pin B formed upon its upper surface, with the steering-bar D secured to the front side, in a position at right angles to the center-pin. The center-pin is secured in its corresponding socket I′, as clearly shown in Fig. 2. The oscillating heel-support P has a narrow rim, Q, raised upon its rear edge the better to support the heel of the boot, and also as a means to secure the leather fastening R, for the support of the heel and instep of the foot. To the front edge of the heel-support P is secured the swinging standard K, the lower end of which is forked. The prongs of this fork pass down over the steering-bar D, as seen in Figs. 1 and 2; or the swinging standard K may be shaped like D, and work in a slot formed in the steering-bar D. The heel-support P is pivoted to the stock I at M and M′. The leather fastening R is riveted to the outside of the raised rim Q. The front and rear axles are connected by the diagonally-arranged equalizing-bars H and H′.

Supposing the skate to be in position on the foot of the skater, its operation is as follows, viz: The stock I and the front part of the foot remain in their fixed lateral or horizontal position, parallel with the floor, while the heel, by a slight pressure, on one side or the other, upon the heel-support P, will depress that side, and thus produce a rocking or oscillating motion on its pivoted centers M M′. By such motion the lower end of the swinging standard K will be swung in the opposite direction, carrying with it the front end of the steering-bar D, thereby throwing the hind axle into the position shown by the dotted line Z Z′. In taking this position a corresponding motion is instantly transmitted to the front axle through the diagonally-arranged bars H H′.

The axles of the rollers thus take a position radial to the curve which it is desired the skate should take.

I do not here claim the diagonal bars H and H′, they forming the subject of another pending application of mine.

I have described the stock or foot-stand I as being cast, and as having the sockets I′ formed thereupon as part of the same. But with a view of making the complete skate as light as possible, the stock may, by appropriate dies and drops, be punched out and struck up of sheet metal, and the sockets I′ riveted thereto, as shown and described in another application of mine; and, if preferred, the usual wood stock may be used, and the heel-support hinged thereto by piercing a slot through it at the point where the swing-standard K passes down to connect with the steering-bar, and which will answer the purpose in the cheaper class of skates I intend manufacturing.

I claim—

1. In a parlor-skate, the rocking heel-plate P, in combination with the swinging axle A, and mechanism by which the oscillation of said heel-plate will turn said axle, substantially as and for the purpose set forth.

2. In a parlor-skate, the steering-bar D, in combination with the rear axle, the swinging standard K, and the oscillating heel-support P, substantially as and for the purpose herein set forth.

3. In a parlor-skate, the oscillating heel-support P, in combination with a suitable fastening to secure it to the foot, substantially as herein set forth.

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Witnesses:
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