

(No Model.)

C. M. RAYMOND.
Roller Skate.

No. 240,545.

Patented April 26, 1881.

Fig. 1.

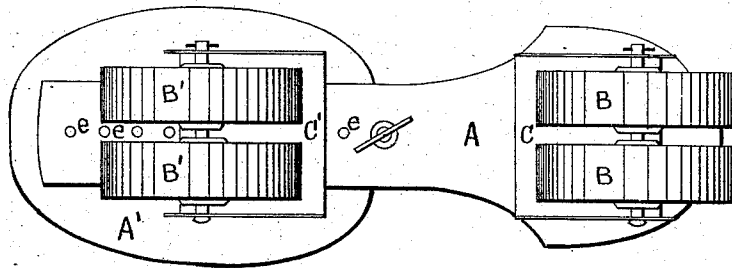


Fig. 2.

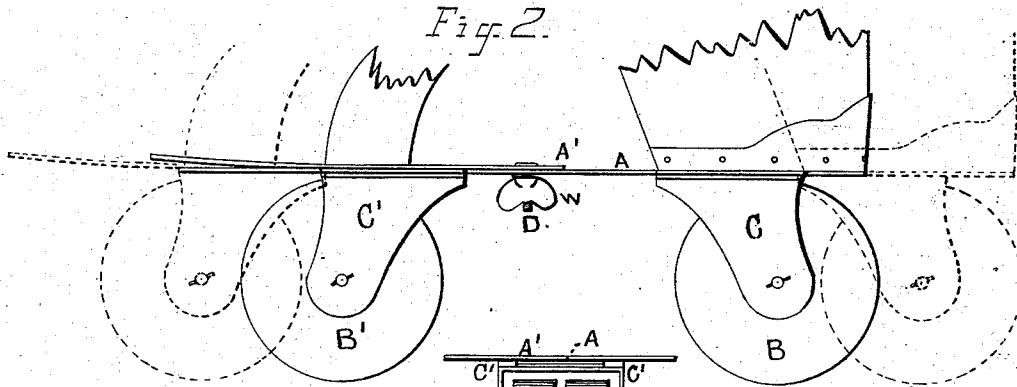
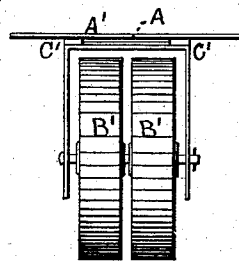


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CADWALLADER M. RAYMOND, OF BOSTON, MASSACHUSETTS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 240,545, dated April 26, 1881.

Application filed January 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, CADWALLADER M. RAYMOND, a resident of Boston, county of Suffolk, and State of Massachusetts, have invented certain new and useful Improvements in Roller-Skates; and I do hereby declare that the following is a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to a roller-skate so constructed as to admit of adjustment in its length to fit either a long or a short foot.

It consists in combining the front and rear rollers of a roller-skate with independent heel and toe plates flattened and extended to lie upon and overlap each other and beyond the rollers, and which are tied together and firmly supported by means of a transverse strap-plate secured to the one to extend over the other, and are fastened together, when adjusted, by means of a pin projecting from the upper plate to spring into apertures in the under plate.

The object of my invention is to produce with light foot-plates a firm strong joint between the adjustable plates, and also combined bearing for the two over the points of bearing upon the rollers, and thereby to furnish an adjustable or extendible skate equally as strong as the ordinary skate at a very slight difference in cost.

In the accompanying drawings, Figure 1 is a bottom view of my improved extendible roller-skate; Fig. 2, a side elevation thereof, an extension of the skate being illustrated by dotted lines; and Fig. 3 is a front view of the skate.

A A' are, respectively, the heel and toe plates of the skate. These are made flat, of thin metal, and of such length as to overlap upon each other over the front or rear wheels, even when the skate is extended to its full length, as illustrated by dotted lines in Fig. 2.

B B' are rollers arranged to rotate in the customary manner between journal plates or pedestals C C', secured to and projecting from said plates A A', as shown in Fig. 2.

The durability of the rollers may be increased by metal tires, or they may be covered with rubber or leather to render them noiseless.

The front rollers, B', are attached to the front toe-plate, A', and the hind rollers, B, to the rear or heel plate, A.

The journal-plates for the front rollers (see Figs. 2 and 3) are united to a wide transverse connecting-piece, C', Fig. 1, which is secured to the plate A' upon narrow interposed strips laid upon each side of the end of the overlapping heel-plate A. (See Fig. 3.) An opening is thus left between the connecting-piece C' and the plate A', through which the front end of the heel-plate A passes, the connecting-piece C' serving as a broad strap to confine the two plates A A' together, and which will prevent any lateral movement thereof one upon the other, and keep them in close juxtaposition, although permitting their free longitudinal movement.

When the skate is reduced to its smallest size the front end of the heel-plate A extends under the strap-piece C' to the front end of the toe-plate A', and when the skate is extended to its utmost length the front end of the heel-plate will still bear against the toe-plate under the strap C', and extend over the front rollers, B'. A firm bearing and support is thus obtained between the two plates, whatever may be the length of the skate. The plates thus fitted one upon the other are secured, when adjusted, by means of a pin, D, projecting from the under side of the upper plate, A', and which springs into one of a series of apertures, e e, pierced in the lower plate.

The elasticity of the two plates, held together by the wide strap C', allows them to spring apart sufficiently to permit a change of the pin from one hole to another in adjusting the length of the skate. When so adjusted the pin may be prevented from springing out by means of a thumb-nut, W, screwing upon the end thereof.

Instead of causing the plates to overlap at the front end over the front roller, they may be made to overlap over the rear rollers with the same result.

I do not claim, broadly, an extendible skate constructed with independent overlapping heel and toe plates.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, in an adjustable roller-skate, of independent heel and toe plates, made to overlap constantly over one set of the skate-

rollers, with one or more transverse supporting bands or straps secured to the one plate over said rollers, to pass over and tie down the other, and to prevent other than a longitudinal intermovement of the plates, substantially
5 as and for the purpose herein set forth.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

CADWALLADER M. RAYMOND.

Witnesses:

J. F. ACKER, Jr.,
IRVING DICKINSON.