

(No Model.)

C. M. RAYMOND.

ROLLER SKATE.

No. 316,660.

Patented Apr. 28, 1885.

FIG. 1.

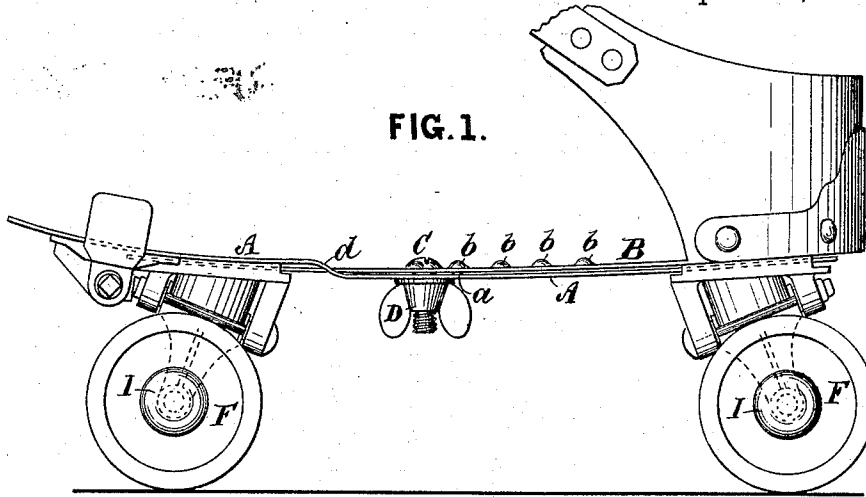


FIG. 2.

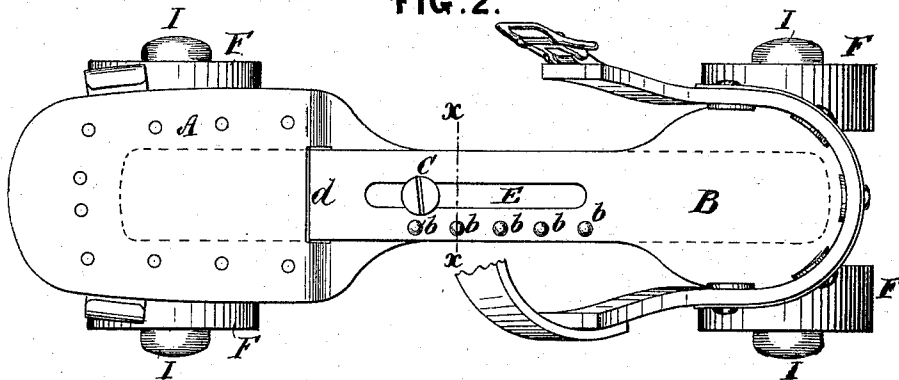


FIG. 3.

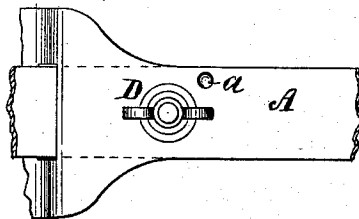


FIG. 5.

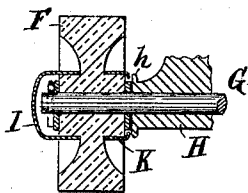
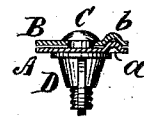


FIG. 4.



Witnesses.

E. Blanta

Thos. F. Currier

Inventor.

C. M. Raymond

by J. H. Adams
Attorney.

UNITED STATES PATENT OFFICE.

CADWALLADER M. RAYMOND, OF BOSTON, MASSACHUSETTS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 316,660, dated April 28, 1885.

Application filed July 30, 1884. (No model.)

To all whom it may concern:

Be it known that I, CADWALLADER M. RAYMOND, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

The object of my invention is to provide a means for preventing the heel and toe plates of an extensible roller-skate from slipping one upon the other after being adjusted to the foot and secured together by the usual nut and screw, and also to obviate the difficulty caused by the oil used in lubricating the axles getting upon the dress or clothes of the wearer.

My invention consists in the construction and combination, as hereinafter described, and pointed out in the claim.

Referring to the accompanying drawings, Figure 1 is a side view of a roller-skate embodying my invention. Fig. 2 is a top view of the same. Fig. 3 is a view of a portion of the under side of the toe-plate, and Fig. 4 is a section on the line *xx* of Fig. 2. Fig. 5 is a section of the roller and connecting parts.

A represents the toe-plate, and B the heel-plate, of an extensible skate, the forward portion of the heel-plate B passing through a slot at the point *d* in a bent portion of the toe-plate A, as shown.

E is a slot in the heel-plate B, through which and through a hole in the toe-plate passes a screw, C, which is held in place by the thumb-nut D.

At one side of the heel-plate B is a series of projections, *b b*, formed by punching or striking up depressions on the under side of the plate, and on the upper side of the toe-plate A is a similar projection, *a*, (shown in Figs. 1 and 3;) or more than one may be made, if required. The projection *a* is made to fit into

any one of the depressions *b* on the under side of the heel-plate B, accordingly as the heel and toe plates are adjusted to the size of the foot of the wearer. When properly adjusted, the toe and heel plates are firmly clamped together by means of the screw and nut C and D. It will thus be seen that the slipping of the toe and heel plates upon each other is effectually prevented. It is evident that the depressions may be made on the upper instead of the under side of the heel-plate and corresponding depressions in the toe-plate.

On the outer hub of the roller F is placed a cap or cover, I, which may be secured to the hub by indenting the sides of the cap, or by other suitable means, and on the inside hub is placed a collar, K, having its edge turned down a short distance over the hub, as seen in Fig. 5.

On the end of the bearing H of the axle G is an upwardly-extending rim, *h*, which overlaps but does not touch the turned-over edge of the collar K. By these means the lubricating-oil is retained in the cap I as a reservoir until used, thus preventing waste, and the oil is prevented from soiling the dress or clothes of the wearer.

What I claim as my invention is—

The combination of the toe-plate A, provided with the projection *a*, the slotted heel-plate B, provided with the depressions *b b*, and the clamping screw and nut C and D, the forward end of heel-plate B passing through a slot at the bent portion of the toe-plate A, substantially as 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. H. ADAMS,
J. C. SALMON.