(No Model.)

H. A. WILBUR.

ROLLER SKATE.

No. 300,745. Patented June 17, 1884.

FIG. 1.

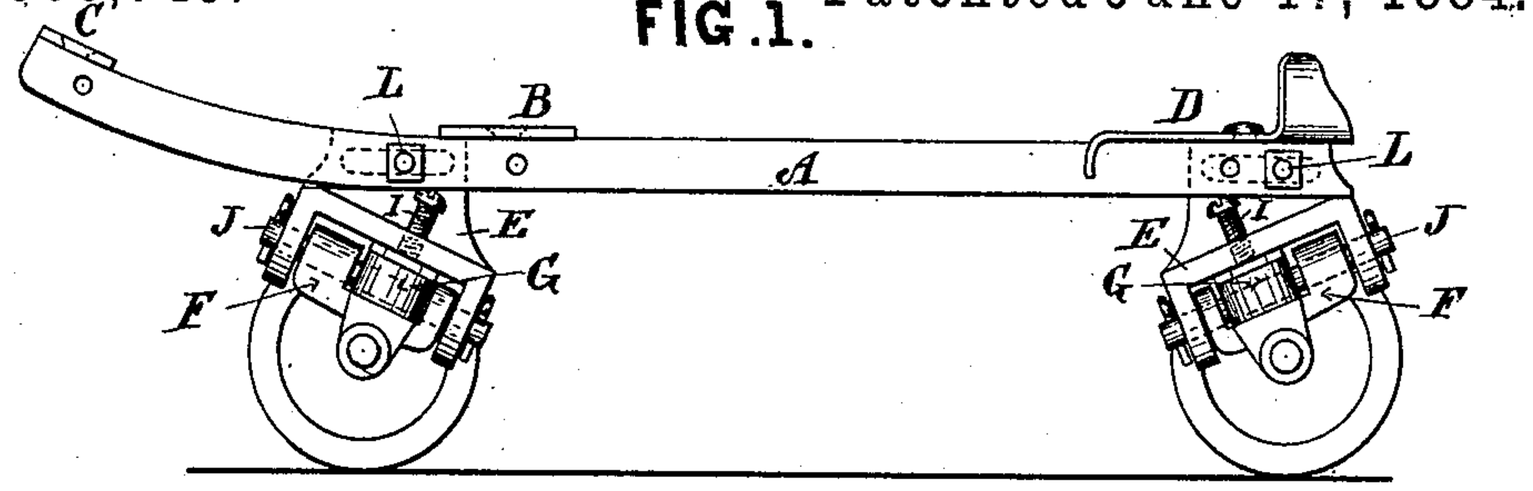


FIG. 2.

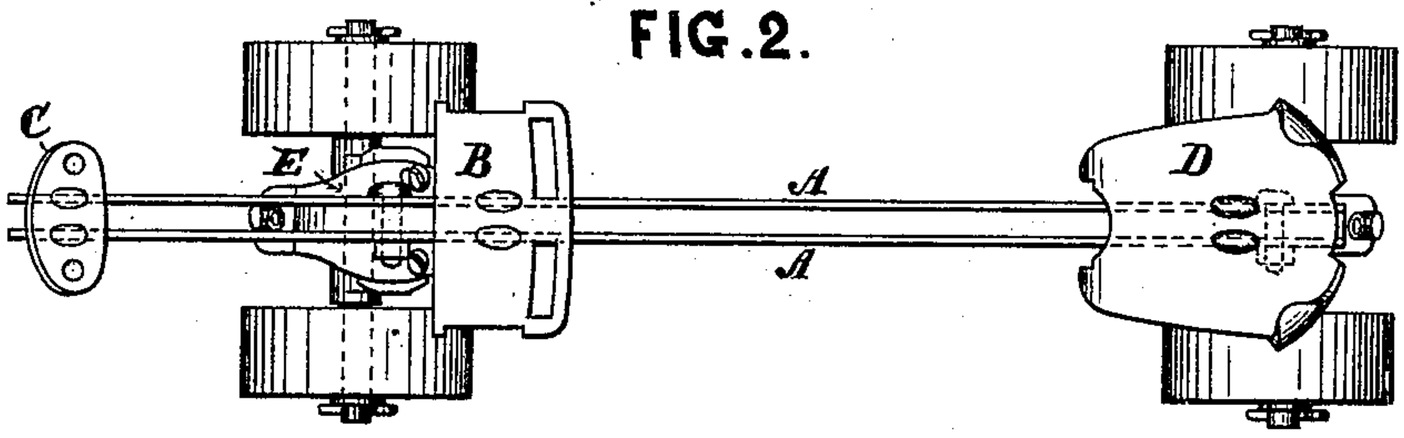


FIG. 3.

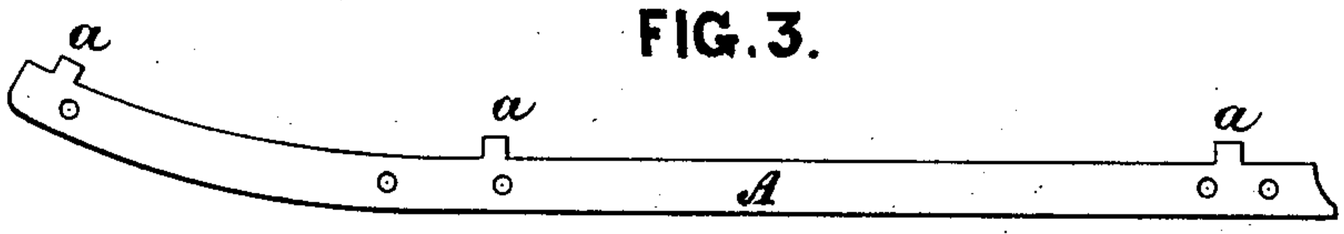


FIG. 4.

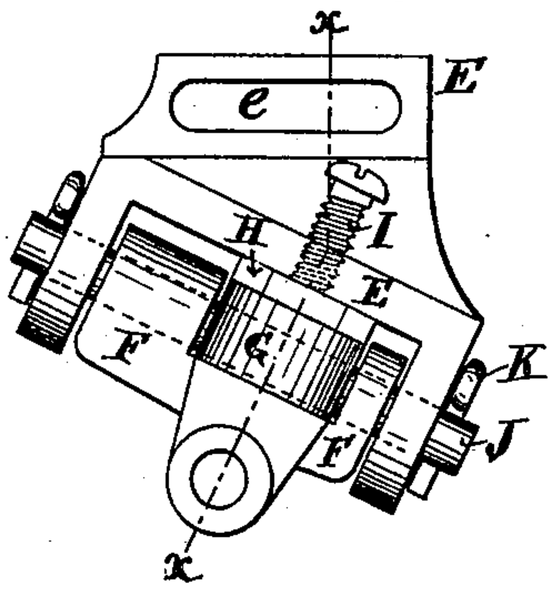


FIG. 5.

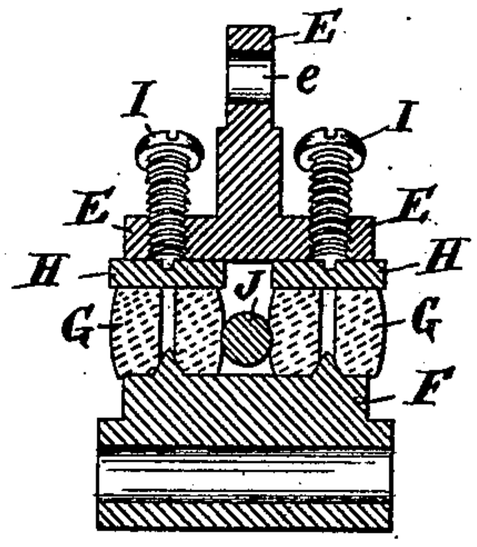


FIG. 6.

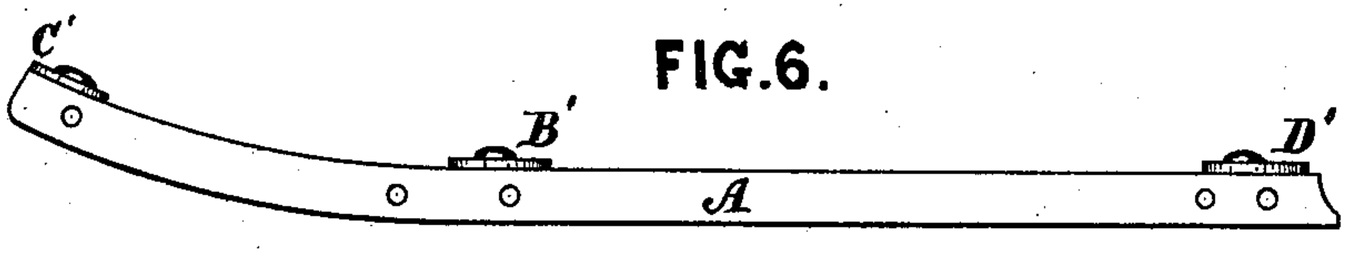


FIG. 7.

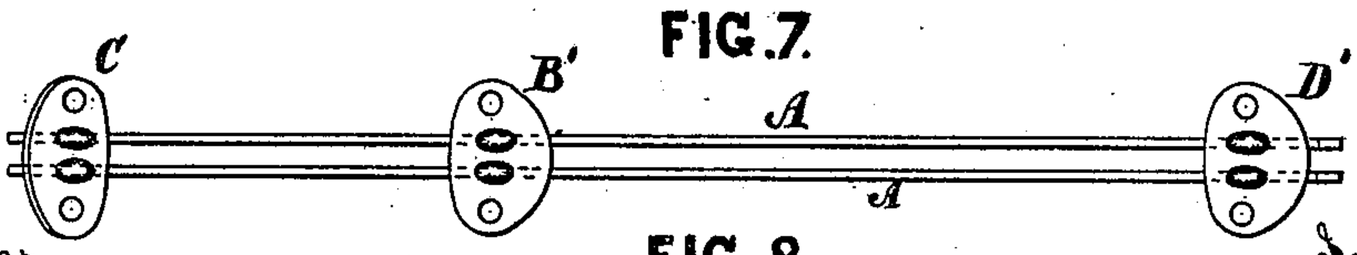
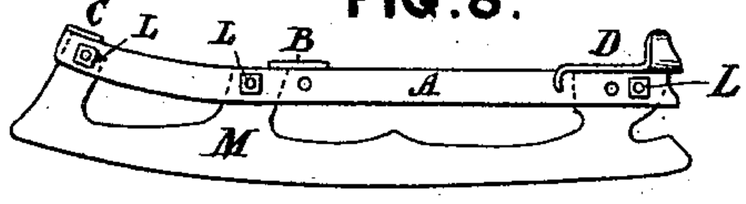


FIG. 8.



Witnesses.
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Attorney

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

HENRY A. WILBUR, OF WEST SOMERVILLE, ASSIGNOR OF ONE-HALF TO FRANK W. LOWE, OF BOSTON, MASSACHUSETTS.

ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 300,745, dated June 17, 1884.

Application filed April 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. WILBUR, a citizen of the United States, residing at West Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Roller-Skates, of which the following is a specification.

My invention relates to an improved means for adapting the frame of a roller-skate to an ice-skate, and also to a means for adjusting the elastic bearings, so as to compensate for the wear of the rollers in roller-skates.

Referring to the accompanying drawings, Figure 1 is a side view of a roller-skate embodying my invention. Fig. 2 is a top or plan view of the same. Fig. 3 shows one of the sides of the frame as cut or cast. Fig. 4 is a side view of the hanger and bearings. Fig. 5 is a section of the same on the line *x x*. Figs. 6 and 7 show a means for adapting the frame to a wooden bottom of an ice or roller skate. Fig. 8 shows the frame as adapted to an ice-runner.

A A represent the frame, composed of two plates of metal cut out from a sheet, or cast, as shown in Fig. 3, with the tangs *a a a*.

B is a bridge-plate for supporting the sole-plate, and C is a toe-plate bracket, each being firmly secured to the frame A A, and D is the heel-plate attached to the frame A A.

E is a hanger in which is supported the journal-bearing and the elastic springs G G. In the upper part of the hanger E is a slot, *e*, as shown. The hanger E is inserted in the space between the two plates A A, and is secured therein by means of a bolt and nut, as shown at L. By means of the slot *e* the hanger E, together with the rollers and their bearings, may be adjusted to boots or shoes of different sizes to the extent of the length of the slot. Within the hanger E is hung, by means of a pin, J, the journal-bearing F, that carries the axles of the rollers. In a recess in the bearing F are placed two rubber blocks, G G, on the upper ends of which are placed washers H H.

I I are screws which pass through projecting sides of the hanger E and bear upon the washers H, by which means either of the rubber blocks may be more or less compressed as required to compensate for the wear of the rollers.

In the use of roller-skates in skating-rinks it is found that the rollers on one side of the skate are liable to become much more worn away than those on the other side, owing to various causes. In such case the rollers become useless and new rollers have to be provided. By means of compressing either of the rubber blocks or springs, as above described, I obviate the difficulty occasioned by the wearing away of the rollers on one side of the skate by evening up or depressing one side, to compensate for the wear.

The springs G G, instead of being made of rubber, as shown, may be of coiled wire or any other suitable elastic material.

More than two parallel bars, A A, may be employed, if found desirable.

The toe-plate bracket C, bridge-plate B, and heel-plate D are secured to the plates or frame A A by means of the tangs *a a a*, which are riveted to the said plates.

When an ice-skate is required, it is only necessary to take out the bolts L and remove the hangers E E, and then insert the projections on upper edge of the skate-iron M, using the same bolts and nuts as employed in the roller-skate, as indicated in Fig. 8.

What I claim as my invention is—

1. The frame A A, composed of two metal plates having a space between, in combination with a hanger capable of being adjusted lengthwise of the frame, as and for the purpose set forth.

2. The adjustable springs G G, arranged one on either side of the hangers E, in combination with the bearings F, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY A. WILBUR.

Witnesses:
JOSEPH H. ADAMS,
E. PLANTA.