

(No Model.)

J. A. WHELPLEY.

SKATE.

No. 296,714.

Patented Apr. 8, 1884.

FIG. 1.

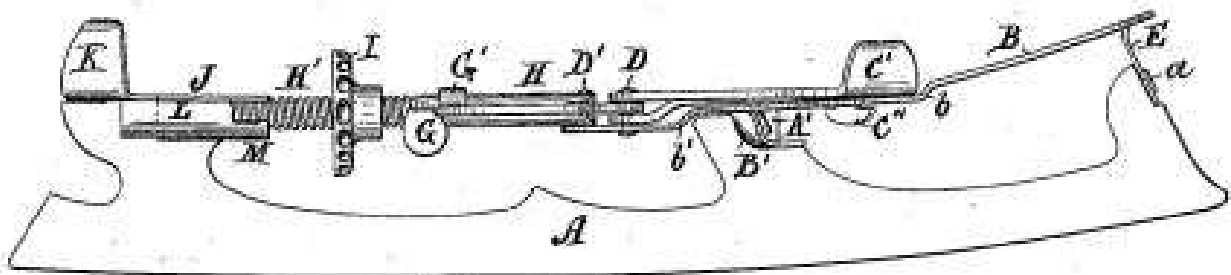


FIG. 2.

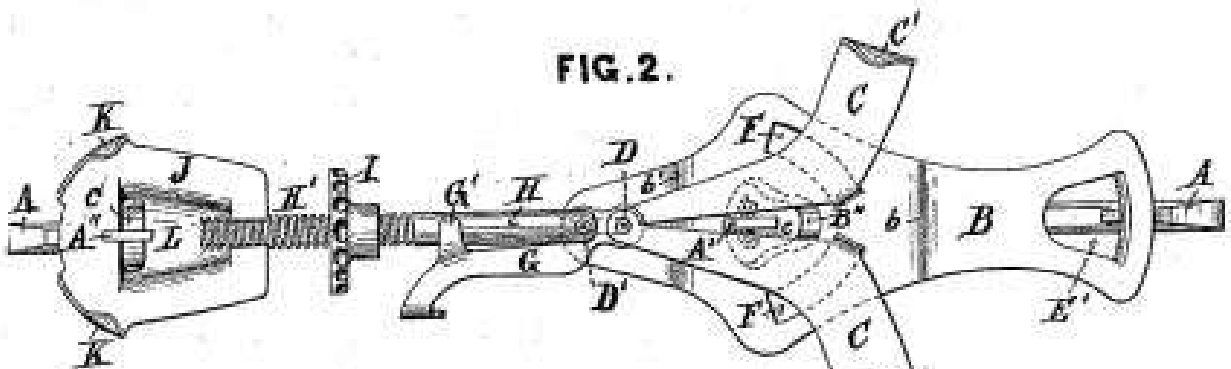


FIG. 4.



FIG. 3.

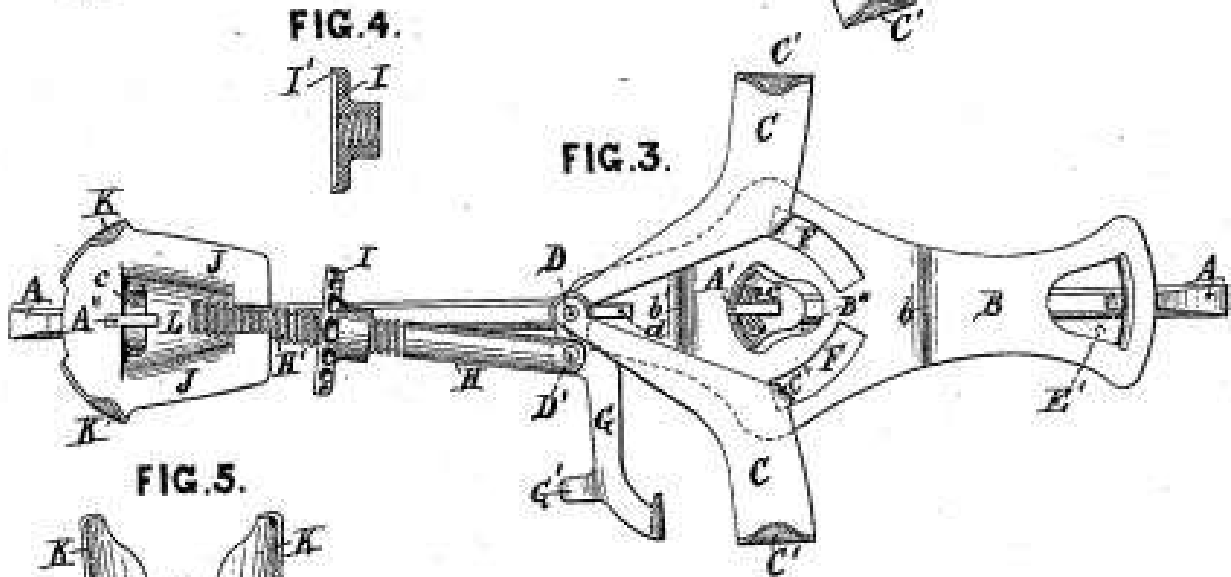


FIG. 5.



FIG. 8.

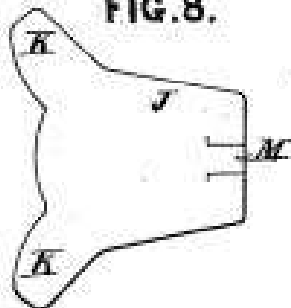


FIG. 6.



FIG. 7.



Witnesses.

E. Blanta

W. Simmons

Inventor.

James A. Whelpley  
by J. H. Adams  
Att'y.

# UNITED STATES PATENT OFFICE.

JAMES A. WHELPLEY, OF GREENWICH, NEW BRUNSWICK, CANADA.

## SKATE.

SPECIFICATION forming part of Letters Patent No. 296,714, dated April 8, 1884.

Application filed September 13, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES ALBERT WHELPLEY, a citizen of Canada, residing at Greenwich, in the county of Kings and Province of New Brunswick, Canada, have invented a certain new and useful Improvement in Skates, of which the following is a specification.

My invention relates to an improvement in that class of skates in which clamps are employed to secure the skate to the boot or shoe without the aid of straps; and the invention consists in certain details of construction, hereinafter fully described and set forth.

Referring to the accompanying drawings, Figure 1 is an elevation of a skate embodying my improvements. Fig. 2 is a top or plan view of the same, with the clamps and actuating-lever in a closed position. Fig. 3 is a similar view, showing the clamps and lever in an open position. Figs. 4 to 8 are views in detail of certain portions of the skate.

A represents the skate-runner.

B is the sole-plate, formed of a thin piece of metal plate, and bent in the shape shown in section in Fig. 6. At the toe portion a piece of metal is cut or punched, except at the front end, leaving an opening, as indicated by E, the punched part E being bent downward, as shown in Figs. 1 and 6, and forming a brace or support for the front end of the skate-runner A. A projection, a, Fig. 1, of the skate-runner passes through a hole or slot, c, Fig. 6, in the bent-down portion E, forming a rivet by which the parts are secured together. Toward the rear of the plate B a portion, B', is cut or punched, and bent downward and curved, as indicated in Figs. 1 and 6, leaving an opening, B'', as shown. In the bent-down portion B is a slot, through which passes a projection of the runner, A', and secured in the slot by a wedge or fastening, c, passing through a hole in the projection A'. At the rear end of the sole-plate B is a slot, d, in which slides the pin that connects the clamps and lever.

b and b' are offsets or curves formed in the sole-plate B. Near the center of the sole-plate B are two curved slots, F F.

C C are the clamps, which are pivoted together at D. These clamps are each made of a single piece of metal plate having a button, C'', struck out, and which is bent downward, as shown in Fig. 7, the outer ends, C', being

bent upward and curved inward at the edge. The buttons C'' are inserted in the curved slots F F before the inner ends of the clamps C C are pivoted together, and when in place the buttons are at right angles, or nearly so, with the curves, and serve to hold the clamps to the sole-plate, and allow them to move freely outward and inward. The clamps C C, it will be seen, are placed above the sole-plate, the shape of the sole-plate allowing of their free movement under the soles of the boot or shoe. This method admits of the greatest strength with the least weight of stock, as the clamps have heretofore been placed under the sole-plate, and are slotted to receive a rivet or screw. It will be seen that by my plan, as the strain comes against the outer ends of the clamps they are brought over the full width of the sole-piece.

G is a lever, which is pivoted with the ends of the clamps C C, and is also pivoted to the partially screw-threaded bar H H'.

Near the outer end of the lever G is a curved projection, G', which turns downward, and when the lever is turned inward the said projection passes over bar H, and, serving as a catch, holds the lever in place.

On the threaded portion H' of the bar H is a screw-threaded circular dog, I, which is serrated on its outer edge, and is recessed on its rear side, so as to form a projecting edge, I', which engages with the inner edge of the boot or shoe heel to hold it firmly in place. The dog I is shown in section in Fig. 4.

The heel-plate J is formed of a single plate of metal, as shown in Fig. 8. The rear edges, K K, are turned upward and inward to clamp the boot or shoe heel. At the front end of the heel-plate slits are cut to form an opening, the width of which is a little less than the diameter of the screw-threaded bar H'. The central portion, as indicated by L, is then punched or stamped downward, carrying the slitted portion, which latter then forms a bearing or support, M, for the screw H, which is held in place by the upper part of the slotted portion of the heel-plate, the screw H being allowed to pass freely, both in a straight and an angular line, as shown by Figs. 2 and 3, into the curved stamped portion L of the heel-plate. A projecting portion, A'', of the heel-plate passes up through a slot in the rear of the curved stamped

portion L, and through a recess in the face of the heel-plate, as shown in Figs. 2 and 3, and is secured by a wedge or other fastening, *e*, passed through a slot or opening in the projection A" of the skate-runner.

I have shown and described my invention as applied to an ice-skate runner, but the main features of adjustment and fastening are equally applicable to roller-skates.

10 What I claim as my invention is—

1. The sole-plate B, formed of a single plate, with the stamped-out portions E and B' at the front and rear, for attachment to a skate-runner, A, substantially as shown and described.

15 2. The clamps C C, constructed with the buttons C" and bent edges C', in combination with the lever G and the slotted sole-plate B, when the said clamps are placed above the sole-plate, substantially as set forth.

3. The heel-plate J, constructed as described, with the depression L and projecting piece M, and adapted for attachment to a skate, substantially as set forth. 20

4. The combination of the heel-plate J, constructed as described, the screw-rod H H', the dog I, and lever G, as and for the purpose set forth. 25

5. The combination of the heel-plate J, the screw-rod H, the dog I, lever G, clamps C C, and sole-plate B, all substantially as set forth. 30

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

JAMES A. WHELPLEY.

Witnesses:

GEO. F. BAIRD,  
GEORGE W. ALLEN.