

J. A. WHELPLEY.

SKATES.

No. 179,243.

Patented June 27, 1876.

Fig. 1.

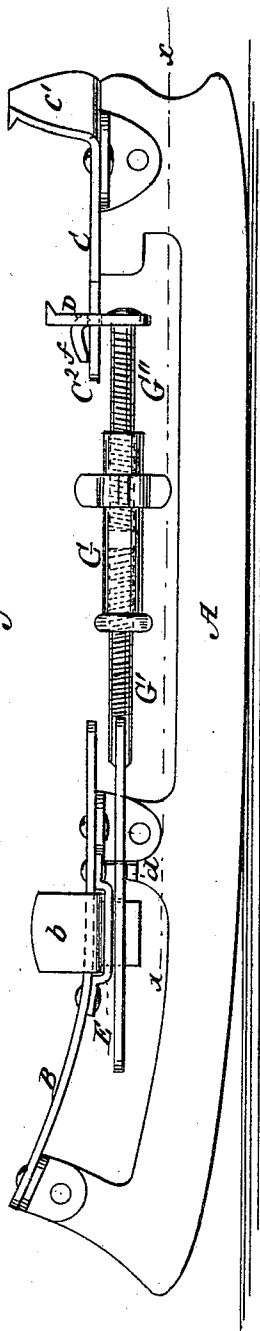
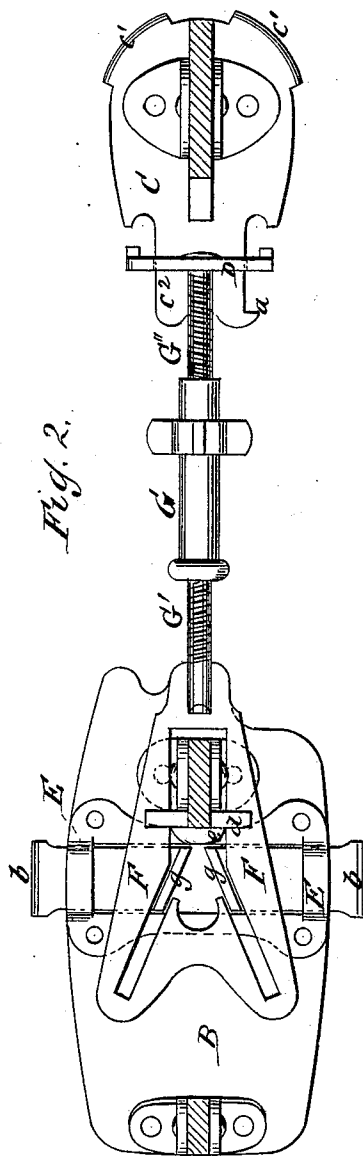


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES A. WHELPLEY, OF GREENWICH, ASSIGNOR TO EUREKA SKATE COMPANY, OF ST. JOHN, NEW BRUNSWICK, CANADA.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. **179,243**, dated June 27, 1876; application filed April 10, 1876.

To all whom it may concern:

Be it known that I, JAMES ALBERT WHELPLEY, of Greenwich, in the Province of New Brunswick, Canada, have invented a new and Improved Skate, of which the following is a specification:

This invention consists of an improved device for adjusting the skate transversely upon the foot, and also an improved construction of the heel-clamp, as hereinafter described.

Figure 1 is a side elevation of my improved skate; and Fig. 2 is a horizontal section on line *xx* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the runner; B, the sole-plate; C, the heel-plate, having ears C¹ turned up at the after end to receive the back part of the boot-heel, and projecting in front at c² for the heel-dog D to slide upon. There is a small boss, *a*, at the end to prevent the heel-dog from slipping entirely off. The sole and heel plates are attached to the runner by brackets in the ordinary way. Upon the under side of the sole-plate, and riveted to it, is the frame E with raised bars at either end to admit of the lugs or toe-clamps *b b* passing freely between them and the sole-plate. The clamps *b b* are turned up diagonally at their inner ends *g* to enter converging slots in the lug-tightener F. There is a small piece of metal or stud, *e*, which is keyed in a recess in the runner by the small key *d*. Said key also prevents the lug-tightener F from falling out of place. The stud *e* enters a longitudinal slot in the lug-tightener F, by which the latter is guided. By slacking the key *d*, the stud *e* may be moved to the right or left, carrying with it the clamp-tightener F, and also the clamp. Thus the skater may change the relative position of the skate to the boot at will. The longitudinal mortise in the clamp-tightener F is made broad, so that the bracket will not prevent this transverse movement. The nut G is tapped right and left handed to fit the right and left screws G¹ G², by which the toe-clamps and heel-clamps

are operated. There may be a milled wheel in place of the arms on said nut. The nut is also squared at one end to receive a wrench if required, or there may be holes drilled in in the arms or rim of the wheel, forming a capstan-head, to admit a small wire-bar; but, as may be seen, the skate may be clamped to the boot sufficiently secure for ordinary use by means of the short arms or milled wheel only.

The heel-dog D has the middle portion turned down on a line with the upper part of the mortise in the same. This is to sustain the pressure of the boot-heel upon the dog the same as if the said dog were made of thicker and heavier metal.

It will be perceived that the toe-clamp adjusting-plate F is provided with a Y-shaped slot, the straight portion of which is made wider than the brace or knee of the runner passing through said slot, so as to enable the skate to be adjusted transversely on the boot.

The invention is applicable, and I propose to use it in connection with roller-skates of all kinds.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the sliding plate F, having Y-shaped slot, with the runner knee or brace, adjustable toe-clamps *b*, and adjustable stud *e* for adjusting the skate transversely on the foot, substantially as described.

2. The adjustable stud *e*, in combination with the key *d*, for adjusting the skate transversely on the boot, substantially as set forth.

3. The combination of the sliding heel-clamp D, having the brace *f* formed integral therewith, and provided with an opening, with the heel-plate C, having guide-extension c² and stop *a*, substantially as herein set forth.

JAMES ALBERT WHELPLEY.

Witnesses:

WARWICK W. STREET,
B. WALKER FRINK.