

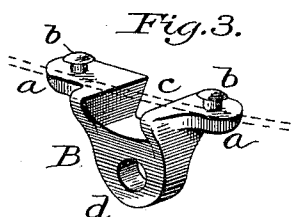
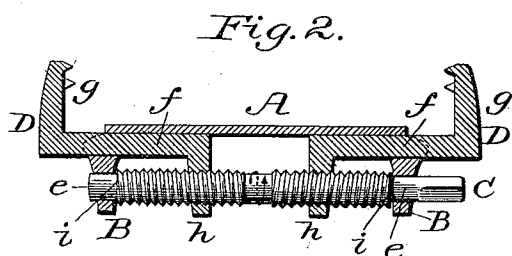
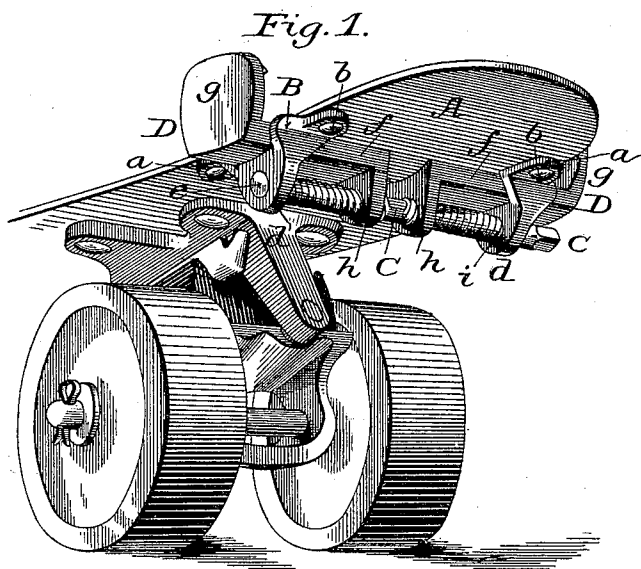
(No Model.)

M. C. HENLEY.

SKATE.

No. 320,352.

Patented June 16, 1885.



Witnesses:

Jas. F. D. Kameel
Walter A. Dodge

Inventor:

Wicajah C. Henley,
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UNITED STATES PATENT OFFICE.

MICAJAH C. HENLEY, OF RICHMOND, INDIANA.

SKATE.

SPECIFICATION forming part of Letters Patent No. 320,352, dated June 16, 1885.

Application filed November 20, 1884. (No model.) Patented in Canada February 10, 1885, No. 21,069.

To all whom it may concern:

Be it known that I, MICAJAH C. HENLEY, of Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Skates, of which the following is a specification.

My invention relates to skates; and it consists in a novel construction of the toe-clamps thereof, as hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the front end of a skate, showing my improvements applied thereto. Fig. 2 is a transverse vertical section of the same through the clamps; and Fig. 3, detached view of the hanger or support.

The objects of my invention are to provide for a wide separation of the clamps, insure an equal movement of each, prevent the outer ends from sagging or dropping down, and dispense with a central support. These objects I attain by the construction shown in the drawings, in which A indicates the sole plate of a skate, preferably made of sheet-steel cut to the proper form and struck up in a die or former to give the required shape; and B B, two brackets or hangers riveted or otherwise firmly secured to the sole-plate close to the edges thereof, and advisably projecting slightly beyond the same, as best shown in Fig. 2. These hangers are of the form shown in Fig. 3, having perforated ears *a a*, to receive the rivets *b b*, cut away between the ears to form the recess *c*, in and through which the clamps move and are guided; and, finally, provided with depending perforated lugs or plates *d*, to receive the ends of an adjusting-screw, *C*. The screw *C*, as shown in Fig. 2, is formed with a right and left hand thread on opposite sides of its center, and its ends are reduced in size and made cylindrical in form to produce journals *e* to fit and turn in the perforated lugs *d* of the hangers B B, the reduction in diameter producing shoulders *i i*, which prevent end play of the screw.

D D are the sliding clamps, of which two are employed. Each clamp consists of a horizontal sliding bar, *f*, having a wide upper face to bear against the under face of the sole-plate, an upwardly-turned outer end, *g*, roughened to secure a firm hold upon the shoe or the boot, and a downwardly-turned end, *h*, perforated and threaded to receive the screw *C*. The horizontal body *f* is of such form and size

as to fit and move easily in the recess *c* of the hanger or bracket B, as indicated in Fig. 1, and the downwardly-turned end of each clamp has its perforation for the screw threaded to correspond with the direction of the thread of that part of the screw which is to pass through it. The screw passing through the inner ends of the clamps, and their bodies being supported by the brackets or hangers B B, said clamps are sustained both at their inner ends and at their outer ends, or at a point between the inner and outer ends, and they are guided and caused to move in a straight line to or from each other, according to the direction in which the screw is turned. One end of the screw is squared to receive a key or wrench by which to turn it, or, if preferred, both ends may be thus formed.

I am aware that it is a very old idea to operate sole-clamps of skates by a right and left hand screw, and I make no claim thereto; but I am not aware that any one has ever before constructed the hangers for such a screw to form also the guides for the clamps, or that such a screw has ever before been journaled in hangers at opposite edges of the sole-plate, whereby a very wide separation of the clamps is permitted and a proper support still secured.

The improvement is equally applicable to runner and to roller skates, but it is shown applied to the latter for the reason that it is in such connection that I am now using it.

Having thus described my invention, what I claim is—

1. In combination with the sole-plate of a skate, hangers applied to the under side thereof at or near its opposite edges, sliding clamps passing through said hangers, and a right and left hand screw journaled in the hangers and passing through threaded seats in the clamps, substantially as described and shown.

2. In combination with the sole-plate A, hangers B B, provided with recesses *c* and perforated lugs *d*, clamps D D, seated in the recesses *c*, and right and left hand screw *C*, journaled in the lugs *d* of the hangers and passing through threaded seats in the clamps, all substantially as set forth.

MICAJAH C. HENLEY.

Witnesses:

BENJAMIN STRATTON,
CHAS. E. LEMON.