

(No Model.)

W. A. SUTTON.

SKATE.

No. 414,089.

Patented Oct. 29, 1889.

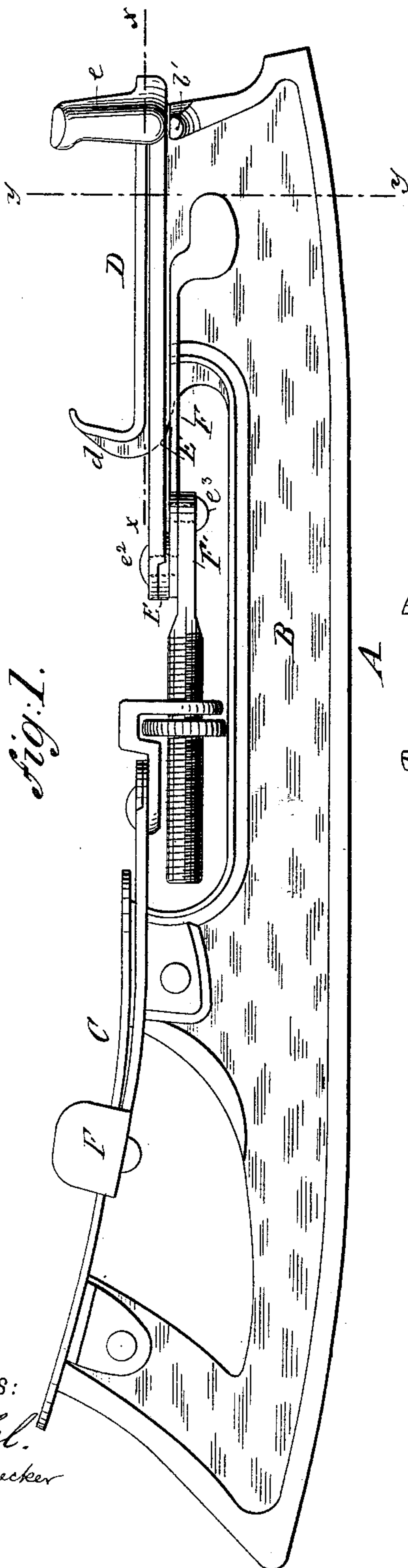


Fig.

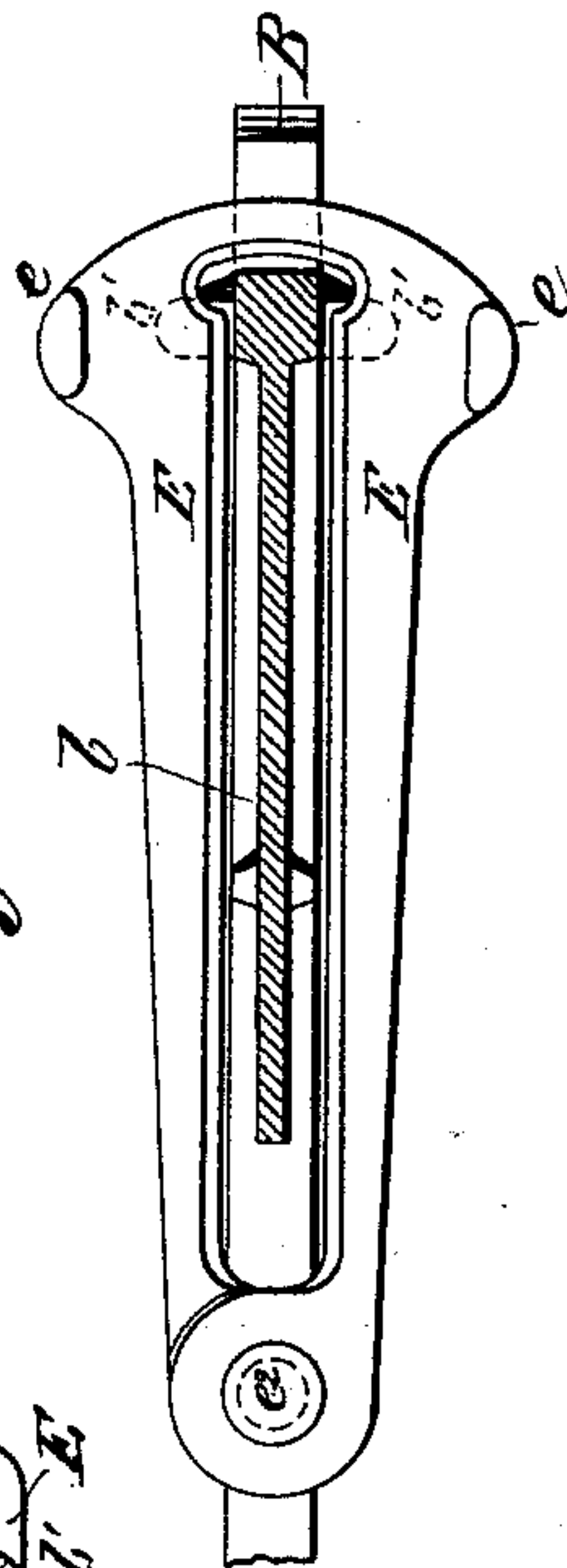
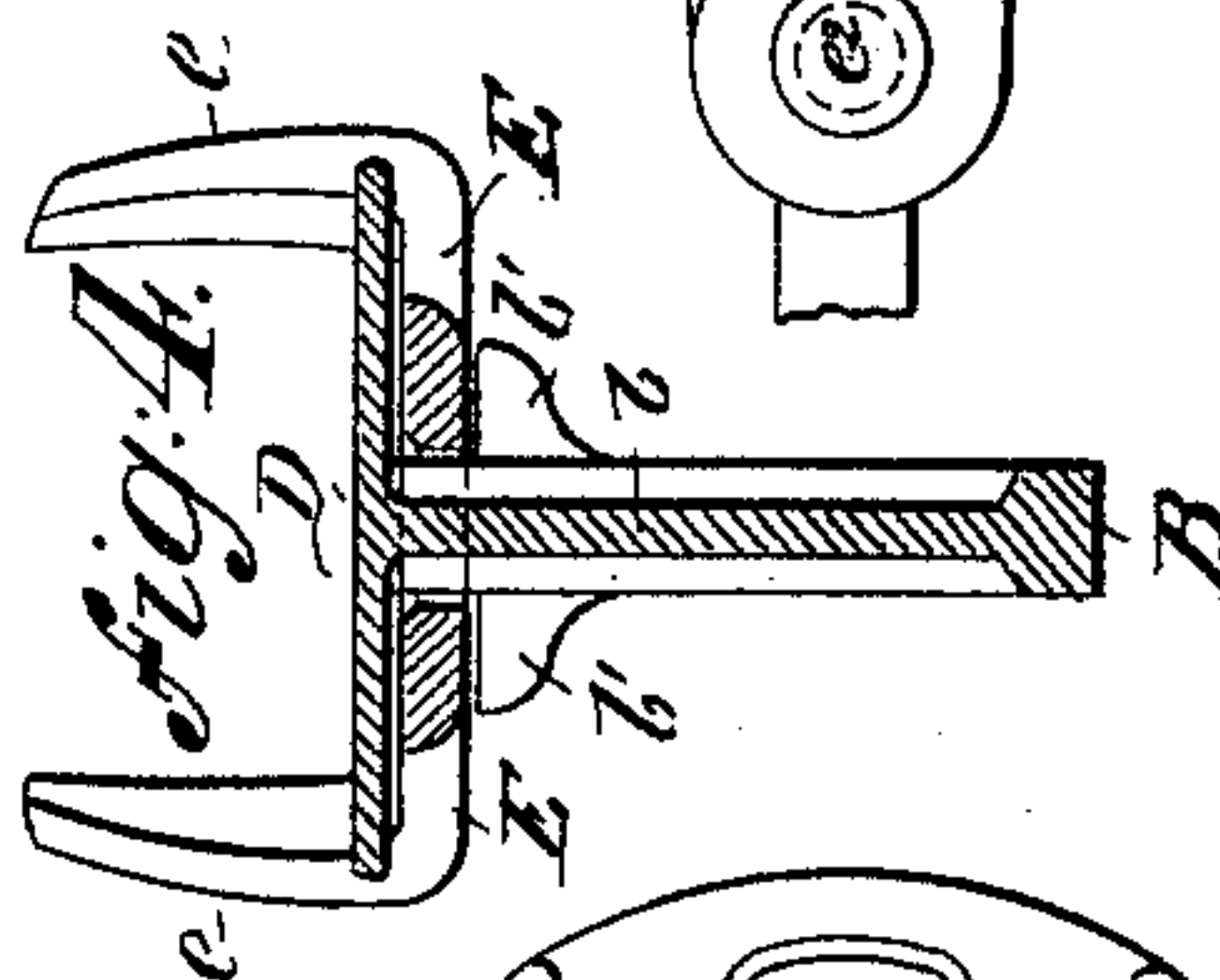


Fig. 3.



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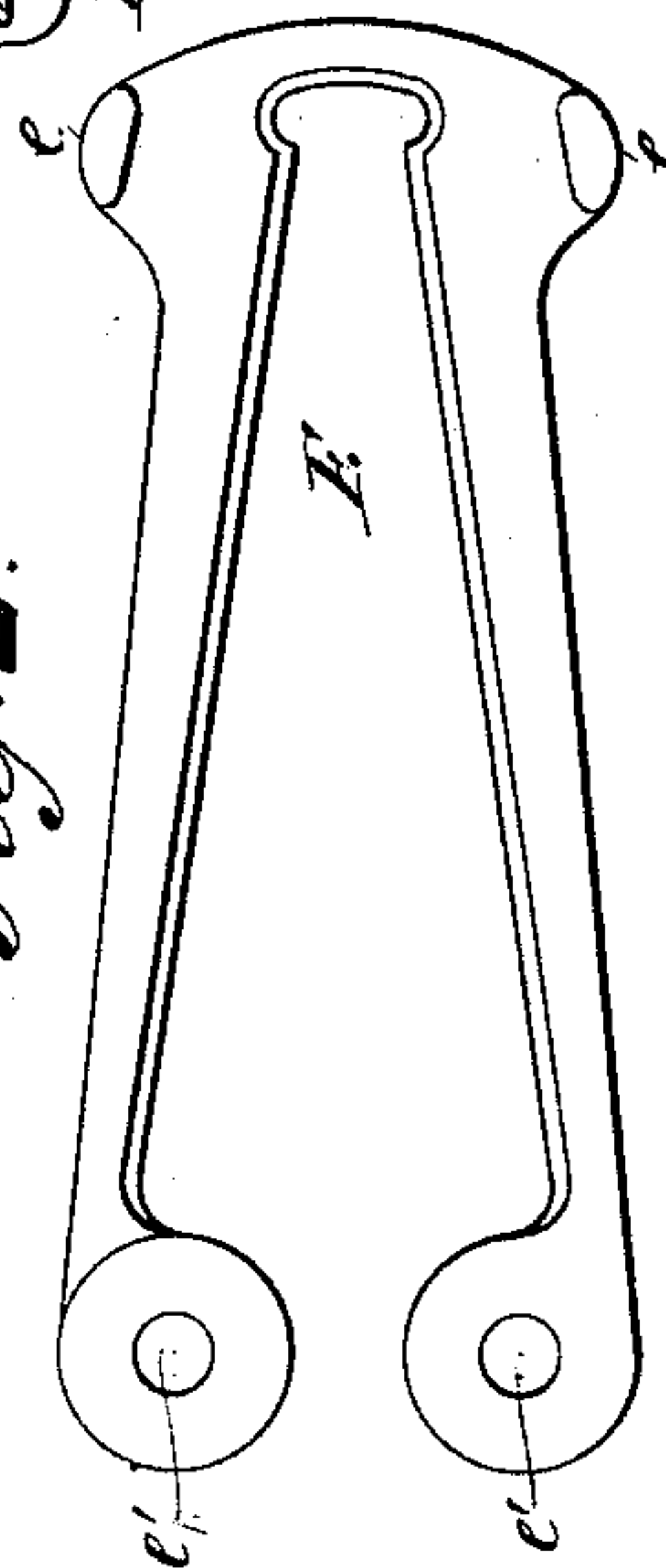


Fig. 2.

WITNESSES:

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SKATE.

SPECIFICATION forming part of Letters Patent No. 414,089, dated October 29, 1889.

Application filed August 7, 1889. Serial No. 320,050. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. SUTTON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Skates; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in skates; and it consists of a skate in which the runner and the sole and heel plates are cast in one piece, having a forked heel-clamp in combination with the well-known lever-and-clamp mechanism, said heel-clamp passing over the rear portion of the runner below the heel-plate and then riveted together.

In the accompanying drawings, Figure 1 shows a side elevation of my improved skate. Fig. 2 is a top view of the heel-clamp of the same. Fig. 3 is a longitudinal section on line $x x$, and Fig. 4 a vertical section on line $y y$, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a skate, the runner B, sole-plate C, and heel-plate D of which are cast integral in one piece. E is a fork-shaped heel-clamp, the bow-shaped part of which has two upright spurs e , which, in connection with the spur d of the heel-plate D, serve to hold the heel of the shoe on the heel-plate of the skate, and the shanks of which are provided at their terminating ends with eyes e' , as shown in Fig. 2.

The fork-shaped heel-clamp E is passed over the rear portion b of the runner B and held in position by means of the supporting-studs b' , cast in one piece with the runner. The shanks of the clamp are then pressed together, so that the eyes e' of the same form one opening, as shown in Fig. 3. Through this opening passes an ordinary rivet, by which the shanks of the heel-clamp are riveted together. By means of this rivet e^2 the well-known lever F is also riveted to the front end of the heel-clamp, consisting of the two

shanks of the same. By another ordinary rivet e^3 the lever F is riveted to the flattened end of the screw-bolt F', connecting the sole-clamps of the well-known lever-and-clamp device for skates.

In the skates now in use the heel-plates are made separate from the runners and the heel-clamp cast or stamped in one continuous piece, with an opening to pass over the rear portion of the runner from above. The heel-plate is then riveted to the runner to hold the heel-clamp in position below the heel-plate. By my construction the heel-plate can be cast in one piece with the skate, as the shanks of my fork-shaped heel-clamp are passed over the rear portion of the runner from behind and then riveted together, thereby dispensing with the riveting of the heel-plate to the runner.

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

1. The combination, in a skate, of a forked heel-clamp, the shanks of which are passed over the rear portion of the runner and then riveted together, with a heel-plate cast in one piece with the runner and sole-plate, substantially as set forth.

2. In a skate, the combination of a forked heel-clamp, the shanks of which are passed over the rear portion and then riveted together, with the lever-and-clamp device for the sole and heel plates, substantially as set forth.

3. The forked heel-clamp for skates, having shanks provided at their terminating ends with eyes, substantially as set forth.

4. In a skate, the combination of the lever, riveted with an ordinary rivet to the front end of the heel-clamp, and also riveted with an ordinary rivet to the flattened end of the screw-bolt connecting the sole-clamps, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM A. SUTTON.

Witnesses:

WM. H. DUECKER,
ALFRED GINSBERG.