

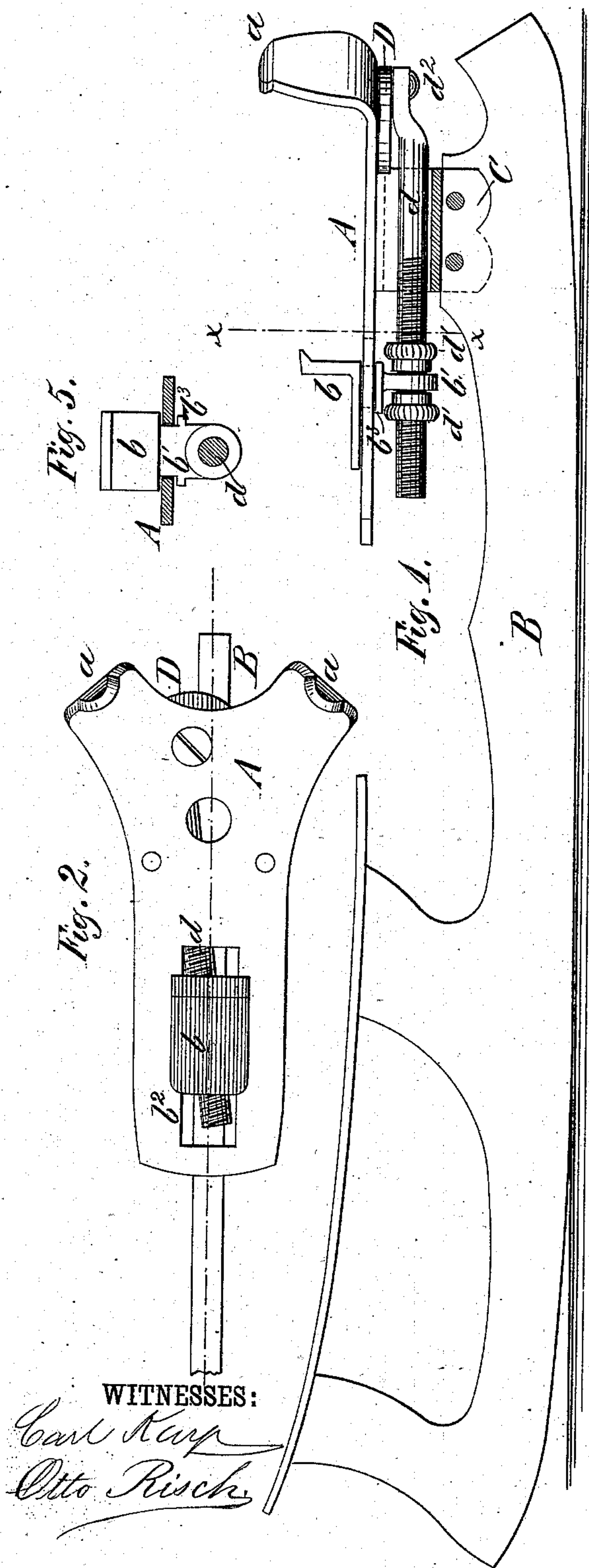
(No Model.)

W. A. SUTTON.

SKATE.

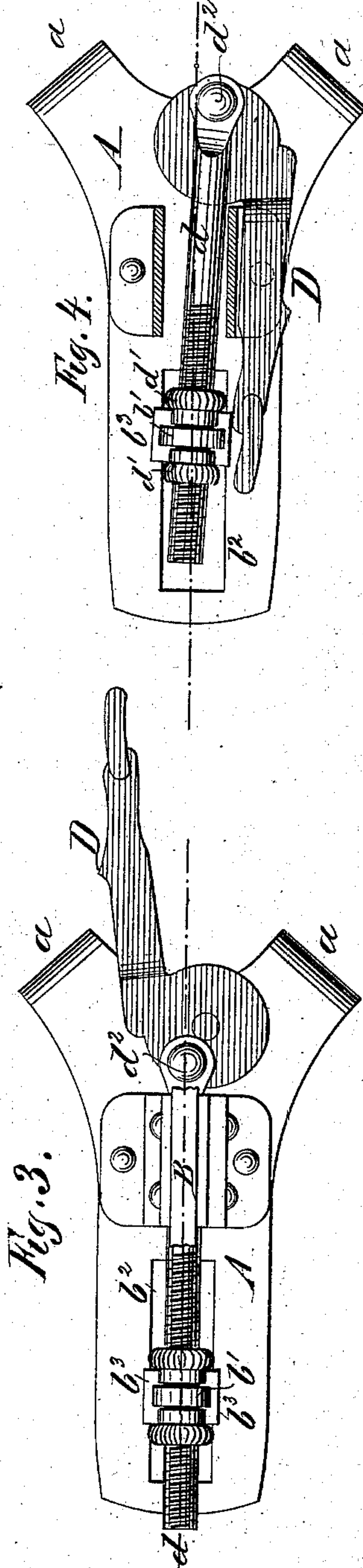
No. 293,373.

Patented Feb. 12, 1884.



WITNESSES:

Carl Karp
Otto Risch



INVENTOR

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BY

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UNITED STATES PATENT OFFICE.

WILLIAM A. SUTTON, OF NEW YORK, N. Y.

SKATE.

SPECIFICATION forming part of Letters Patent No. 293,373, dated February 12, 1884.

Application filed February 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. SUTTON, of the city, county, and State of New York, have invented certain new and useful Improvements in Skates, of which the following is a specification.

This invention has reference to an improved heel-clamp for skates; and it consists of a heel-plate having fixed rear clamps and a movable front clamp, which latter is actuated by a connecting-rod that is secured adjustably to the lower part of the front clamp, and eccentrically pivoted at its rear end to the operating-lever that is pivoted to the rear part of the heel-plate at one side of the longitudinal axis of the same, so as to throw the connecting-rod to one side of the axis, and cause thereby the rigid locking of the lever and other devices hereinafter specified, and combined as set forth in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of a skate, with my improved heel-clamp partly in section. Fig. 2 is a plan. Figs. 3 and 4 are bottom views of the same, showing it respectively in position before and after it is applied to the heel; and Fig. 5 is a detail vertical transverse section on line $x x$, Fig. 1, of the movable front clamp of the heel-plate.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the heel-plate, which is secured to the runner B by a yoke-shaped bracket-piece, C, that is rigidly riveted to the heel-plate and runner. The heel-plate A is provided with fixed rear clamps, $a a$, and with a movable front clamp, b , the shank b' of which is guided in a longitudinal slot, b^2 , of the heel-plate by means of laterally-extending projections b^3 . (Shown clearly in Fig. 5.)

Through the lower end of the shank b' of the front clamp, b , is passed a threaded connecting-rod, d , on which the front clamp, b , is adjusted by means of screw-nuts $d' d'$, one at each side of the shank b' , as required by the size of the heel. When the front clamp,

b , has been properly adjusted, the additional clamping-pressure for attaching it to the heel is imparted thereto by a pivoted operating-lever, D, to which the connecting-rod is eccentrically pivoted at d^2 . The lever D is pivoted to the rear end of the heel-plate A somewhat to one side of the longitudinal axis of the same, as shown clearly in Fig. 2, and adapted to be swung bodily below the heel-plate when applying the clamp b to the heel. By thus pivoting the lever D to one side of the longitudinal axis of the heel-plate the lever D is securely retained in locked position, when the clamps are applied to the heel, as the connecting-rod is thrown to one side of and beyond the longitudinal axis of the heel-plate. The front clamp, b , can therefore not be accidentally released, but is rigidly retained on the heel by the locking action of the lever. When the lever is thrown back, the front clamp is carried away from the heel, and thereby the heel-plate released from the heel.

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

1. As an improvement in skates, the lever D, having a disk pivoted at its center to the rear part of the heel-plate on one side of the longitudinal axis of said heel-plate, in combination with the connecting-rod d , the rear end of which is pivoted to the disk of the lever D between the central pivot of said lever and the outer edge of said disk, and threaded at the front end, which engages the shank b' of the front clamp, b , and the adjusting screw-nuts $d' d'$, substantially as described.

2. The combination of the centrally-pivoted lever D, the connecting-rod d , the front clamp, b , the adjusting screw-nuts $d' d'$, the heel-plate A, and the fixed clamps $a a$, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

WILLIAM A. SUTTON.

Witnesses:

CARL KARP,
SIDNEY MANN.