

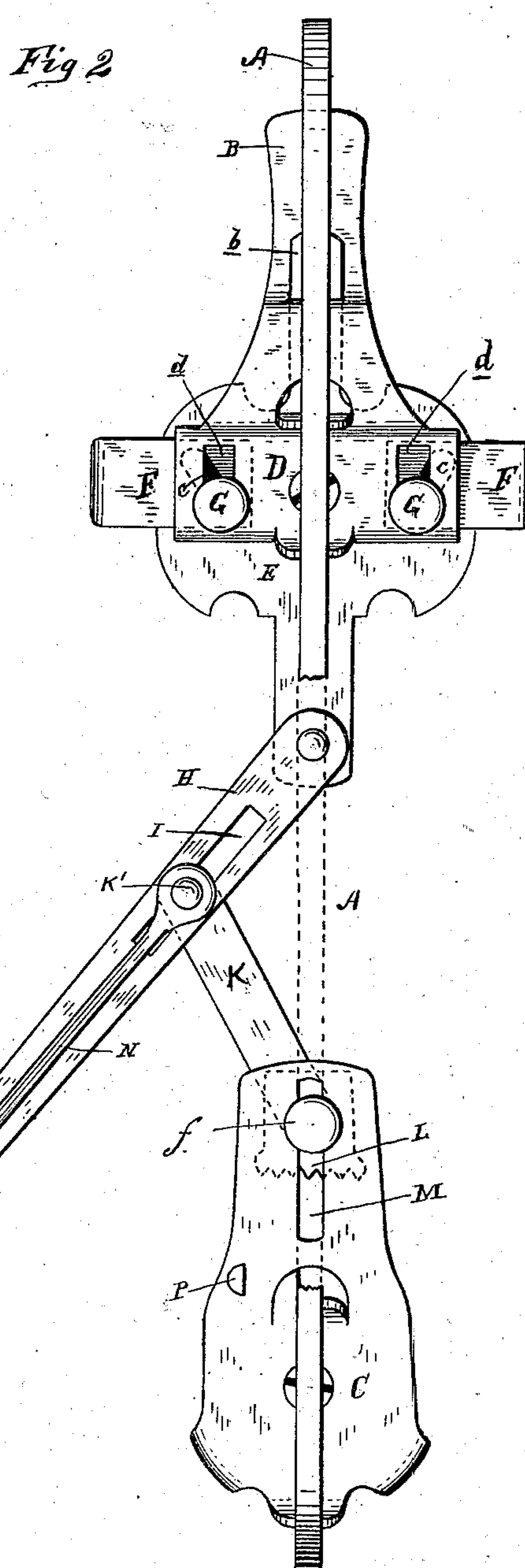
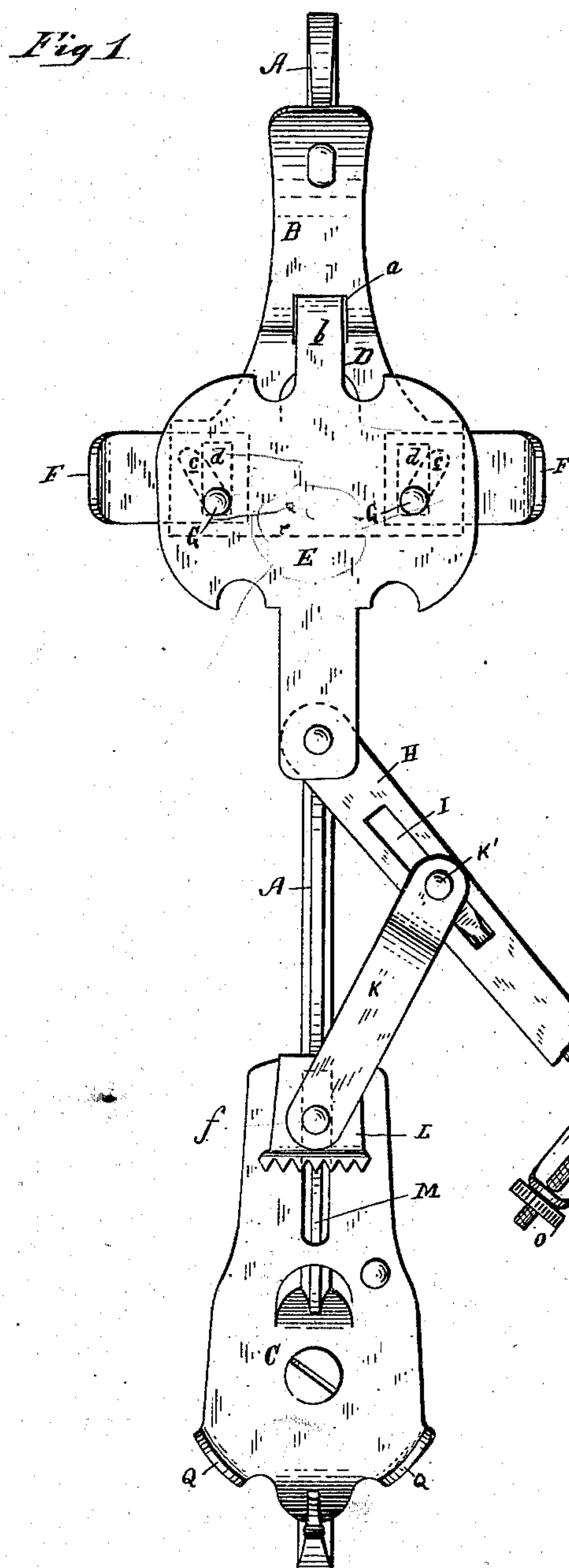
(No Model.)

J. BARTLETT.

SKATE.

No. 258,003.

Patented May 16, 1882.



WITNESSES :

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UNITED STATES PATENT OFFICE.

JOHN BARTLETT, OF OSHAWA, ONTARIO, CANADA.

SKATE.

SPECIFICATION forming part of Letters Patent No. 258,003, dated May 16, 1882.

Application filed March 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN BARTLETT, of Oshawa, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Skates, of which the following is a full, clear, and exact description.

The object of my invention is to facilitate the attaching of skates to and detaching them from the feet.

The invention consists in a skate constructed with a longitudinally-movable sole-plate and with transversely-movable sole-clamps actuated by the sole-plate, which is connected by means of a toggle-lever with a clamp sliding on the heel-plate, whereby the clamps will be pressed against the sole and heel by pressing the levers inward, thus securing the skate to the boot or shoe.

The invention further consists in a sliding pintle connecting the two levers, which pintle is attached to an adjustable screw-rod, whereby the toggle-lever can be adjusted according to the size of the foot.

The invention further consists in a stud projecting from the bottom of the heel for holding the lever in place after being locked in the center by the toggle-joint.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of my improved skate. Fig. 2 is a plan view of the under side of the same.

The skate-runner A, of the usual construction, is attached rigidly to the toe-plate B and to the heel-plate C. The toe-plate B is provided at or near the middle with a slot, *a*, and at the rear end this toe-plate is provided with a transverse countersunk or recessed part, D. A sole-plate, E, provided at its front end with a tongue, *b*, is placed on the toe-plate B, the tongue *b* passing through the slot *a*. Two clamps, F, having their ends bent up, are placed in the countersunk part of the toe-plate B at opposite ends, which clamps are provided with diagonal slots *c*, inclined outward and toward the front of the skate. The recessed or countersunk part D is provided with two slots, *d*, parallel with the runner, one on each side of the

runner. A pintle, G, with a large head, is passed through the slots *c* and *d*, with the head resting against the under side of the recessed part of the toe-plate. The upper ends of the pintles G are riveted on the sole-plate E. A lever or arm, H, provided with a longitudinal slot, I, and having its end J turned downward, is pivoted to the rear end of the sole-plate E. An arm or lever, K, is pivoted at one end on a pintle, K', passing through the slot I in the lever H, and the opposite end of this arm or lever K is pivoted to a heel-clamp plate, L, guided in a longitudinal slot, M, in the heel-plate C by the pintle or pivot *f*. The pintle K' passes through levers K H, and is secured to the inner end of a rod, N, below the lever H. The opposite end of the rod N is threaded, passes through the downwardly-bent end J of the lever H, and has a milled or winged nut, O, screwed on its outer end. The heel-plate is provided on the under surface and on that side toward which the double lever H K opens with a stud or projection, P, which has its outer edge beveled. The distance from the inner edge of this stud P to the adjoining surface of the runner A should be about equal to the width of the arm or lever H.

The operation is as follows: The end of the lever H is pulled outward, thereby separating the clamps F and drawing the heel-clamp L toward the front end of the heel-plate C. The foot is then placed on the skate and the end of the lever H is passed inward, whereby the rear of the heel will be pressed against the rear lugs, Q, of the heel-plate C, and the clamp L will be pressed against and into the front of the heel. Then the line of pressure will be parallel with the runner and the sole-plate E will be moved forward, thereby pressing the clamps F against the edges or sides of the sole, and thus holding the skate firmly on the boot or shoe. The parts are locked in this position by passing the lever H into the space between the stud P and the runner. The distance between the rear end of the sole-plate and the pintle K' can be adjusted by means of the nut O, as by turning the same the pintle K' will be moved forward and backward in the slot I by turning the nut O in one direction or the other, according to the size of the foot.

Having thus fully described my invention,

I claim as new and desire to secure by Letters Patent—

1. An improved skate having its sole and heel plates connected to a slotted lever carrying an adjustable screw-rod, substantially as herein shown and described, whereby the said sole and heel plates are adjusted simultaneously, as set forth.
2. In a skate, the combination, with the runner A, the toe-plate B, and the heel-plate C, of the longitudinally-movable sole-plate E, the transversely-movable sole-clamps F, and devices for moving and locking the sole-plate, substantially as herein shown and described, and for the purpose set forth.
3. In a skate, the combination, with the runner A, the toe-plate B, provided with slots *d*, and the heel-plate C, of the longitudinally-movable sole-plate E, the transversely-movable sole-clamps F, provided with diagonal slots *e*, the pintles G, attached to the sole-plate E and passing through the slots *e* and *d*, and of devices for moving and locking the sole-plate E, substantially as herein shown and described, and for the purpose set forth.
4. The combination, in a skate, of a longitudinally-movable sole-plate, E, with the lever H, pivoted to the rear end of the same, and the lever K, pivoted to the lever H and to the sliding heel-clamp L, substantially as herein shown and described, and for the purpose set forth.

5. The combination, with a skate, of the longitudinally-movable sole-plate E, the clamps F, the longitudinally-slotted lever H, the lever K, the pintle K', the screw-rod N, and the nut O, substantially as herein shown and described, and for the purpose set forth.

6. The combination, with a skate, of the movable sole-plate E, the lever H, having its end J bent downward, the clamps F, the lever K, the pintle K', the screw-rod N, and the nut O, substantially as herein shown and described, and for the purpose set forth.

7. The combination, with a skate, of the movable sole-plate E, the clamps F, the levers H K, and the stud P, projecting from the bottom of the heel-plate C, substantially as herein shown and described, and for the purpose set forth.

8. In a skate, the combination, with the runner A, the toe-plate B, provided with a slot, *a*, and the heel-plate C, of the longitudinally-movable sole-plate E, provided with a tongue, *b*, the clamps F, and the levers H K, substantially as herein shown and described, and for the purpose set forth.

JOHN BARTLETT.

Witnesses:

SPENCE H. BETTS,
T. WILLS GIBBS.