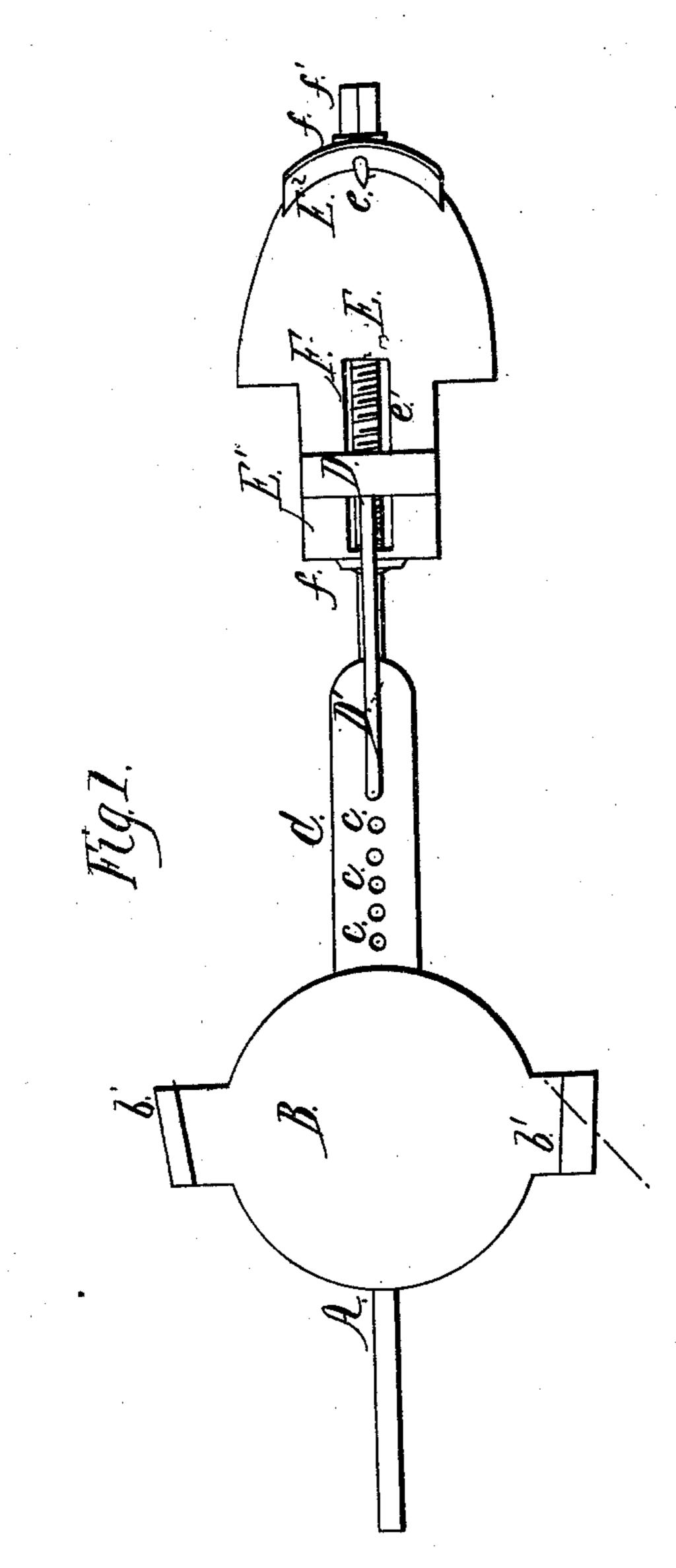
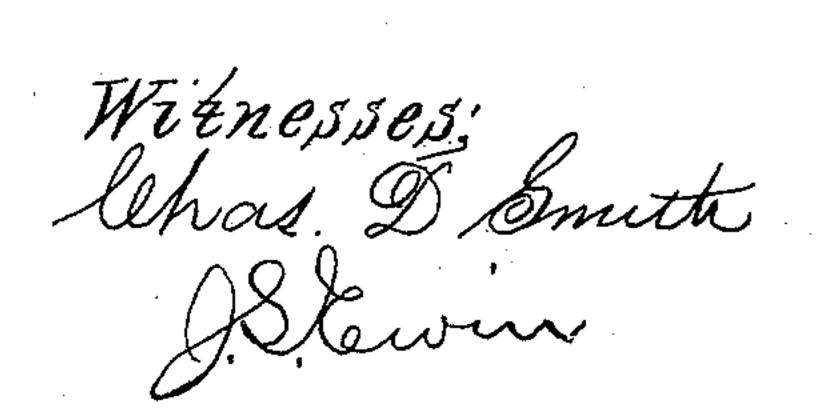
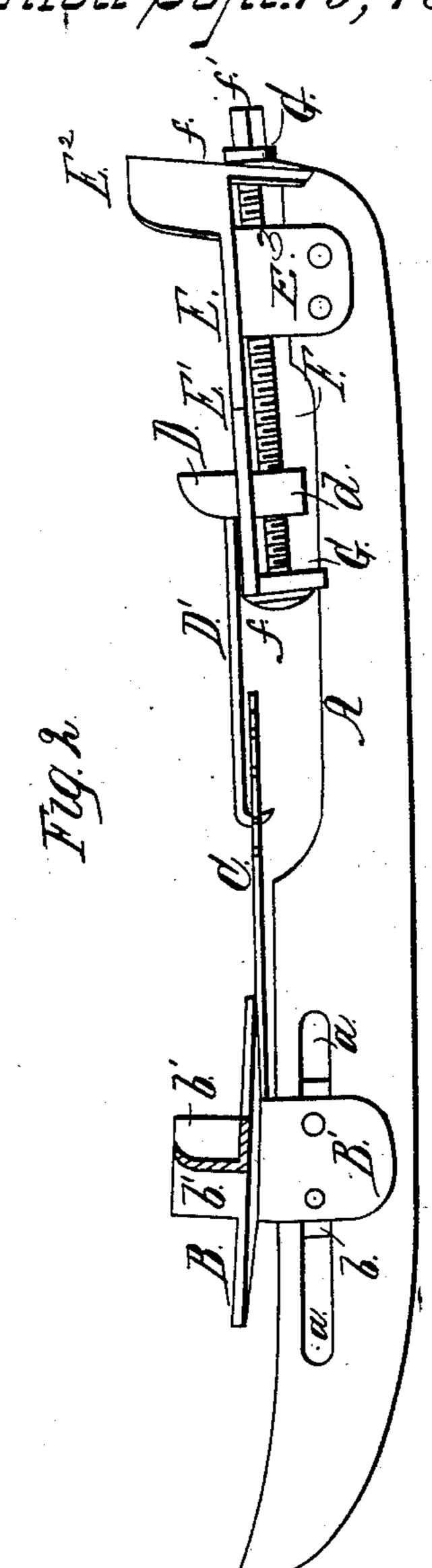
J. Bollike, Skale,

Nº282,201,

Pritented Sent. 15, 1868.







J. Burke By Knightorn Attyj.

Anited States Patent Pffice.

JOSEPH BOURKE, OF CURRAGHLEAGH, IRELAND.

Letters Patent No. 82,201, dated September 15, 1868.

SKATE.

The Schedule referred to in these Netters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, Joseph Bourke, of Curraghleagh, in the county of Mayo, in that part of the United Kingdom of Great Britain and Ireland, called Ireland, Esquire, have invented a new and useful Improvement in Skates; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which are made a part of this specification.

The subject of this invention is a skate in which the sole-clamp and heel-clamp are connected together, at any desired distance asunder, by means of a hook and a perforated plate, which adapts the skate for ready adjustment to suit feet of various sizes.

Figure 1 is a plan or top view of a skate illustrating my invention.

Figure 2 is a side elevation of the same, partially sectional.

Similar letters of reference indicate corresponding parts in the two figures.

In the drawings, A is the runner, which may have any desired form. B is the sole-plate, or the plate upon which the sole of the foot is supported, the same having a rigid downward-projecting shank, B', which, being divided from the bottom upward to a point near its top, embraces the runners, and is capable of sliding backward and forward, to change the position of the sole-plate longitudinally upon the runner. A guide-bar, b, riveted within the shank B', and fitted to slide within a slot, a, in the runner, confines said shank to a rectilinear path. The sole-plate B, whether circular, as represented, or of other suitable shape, is provided at its opposite sides with lips b' b'.

C is a connecting-piece or plate, having more or less elasticity, and an axial range of perforations, c c c. D' is a hooked rod, clinched or otherwise securely fastened to the heel-clamp D, and hooking into either of the holes c. The heel-clamp D is supported, in any position to which it may be moved, by the forward prolongation E¹ of the heel-plate E, which supports the heel when the skate is applied to the foot. The shank d of the heel-clamp D is tapped, to receive the screw F, which is mounted so as to rotate in the lugs G G. The collars ff prevent the screw F from moving longitudinally, so that, when the screw is rotated, by means of a key applied to its square head, f', the clamp D, together with the sole-plate B and its appendages, is drawn backward, so as to tighten the skate upon the foot. The heel-clamp D is held constantly athwart the skate, and confined to a longitudinal motion, in consequence of its square shank d occupying the slot e' in the prolongation E¹ of the heel-plate E. The curved plate E², rising from the rear edge of the heel-plate E, serves, conjunctively with the heel-clamp D, to secure the rear part of the skate to the foot, said plate E² embracing and hugging the back of the heel, while the clamp D bears against the front thereof. The plate E² has a horizontal spur, e, which, penetrating the heel at the back, prevents it from rising off the skate.

The heel-plate E, with its described appendages, is secured upon the runner by its riveted shank, E³, aided

in this office by the lugs G G.

The operation will be readily understood. To prepare the skate for application to the foot, the perforated plate C is disengaged, by a downward pressure, from the hooked rod D'. The sole-plate B, with its appurtenances, is then slidden forward sufficiently to admit the foot, the heel-clamp D having been properly adjusted to accommodate the heel. The foot being placed upon the skate, the hooked rod D' is connected with the plate C, such hole c being engaged as will insure the clamp D and sole-plate B coming to their tightening-positions or proper terminations of adjustment at the same time. The screw F being then rotated by a key applied to f', the effect is to draw backward the sole-plate B till its lips b' firmly grasp the broad part of the sole, and at the same time to draw backward the clamp D till it firmly bears against the front of the heel, this action serving to effectively embed the spur into the back of the heel. The hooked form of the lips b' at top adapts them to firmly hold the sole down upon the plate B.

Having thus described my invention, what I claim as new herein, and desire to secure by Letters Patent, is—
The combination of the perforated plate C and hooked rod D' with the movable sole-plate B, lips b' b', and

JOSEPH BOURKE.

heel-plates E E2, all arranged to operate substantially as and for the purpose herein described.

Witnesses:

O. KNIGHT,

F. G. Hellen, of the City of Toronto, in the County of York, Canada, Student-at-Law.