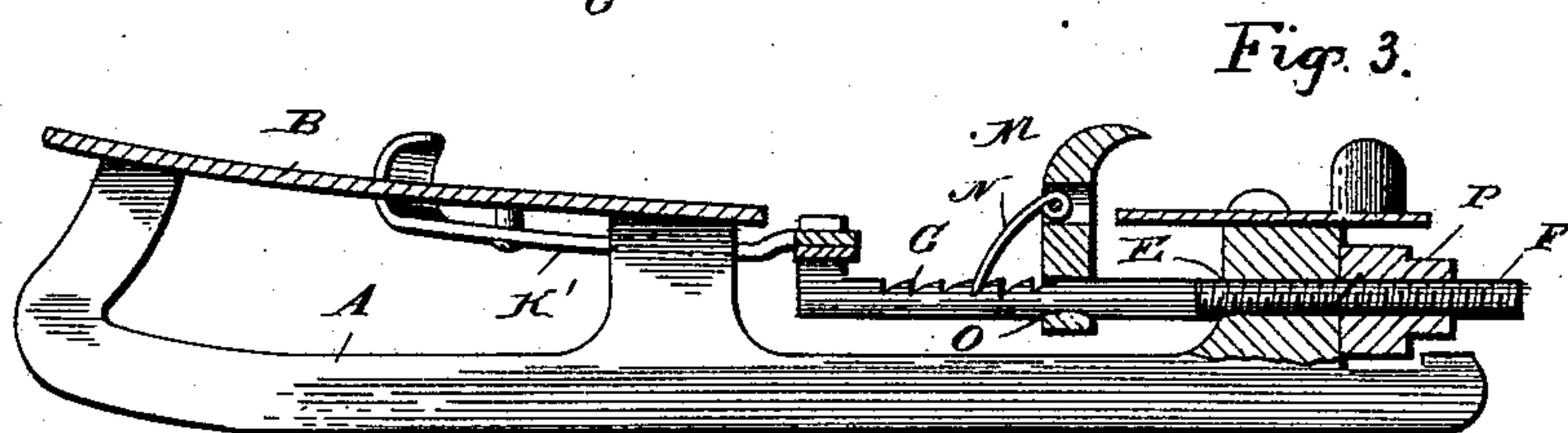
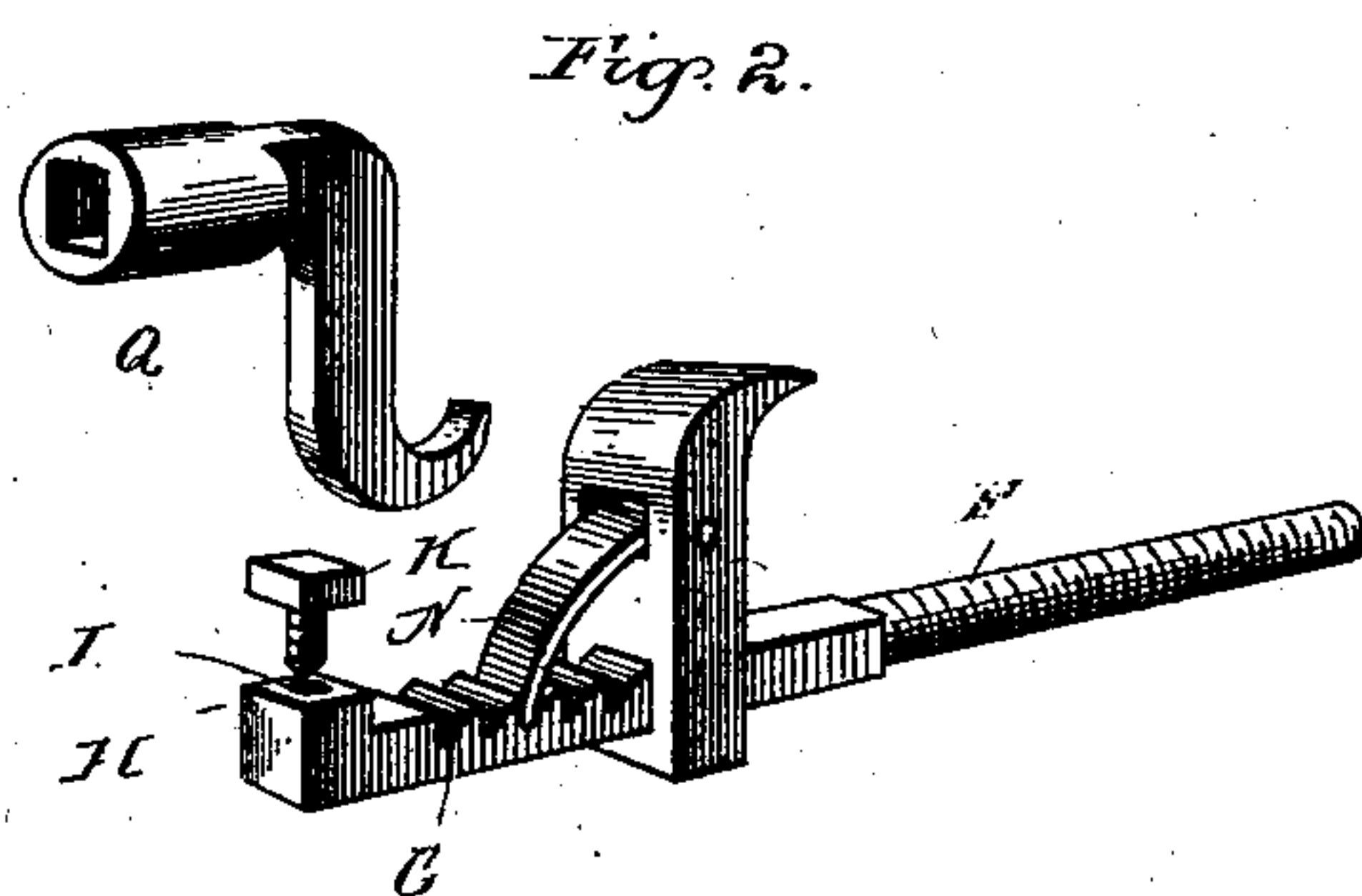
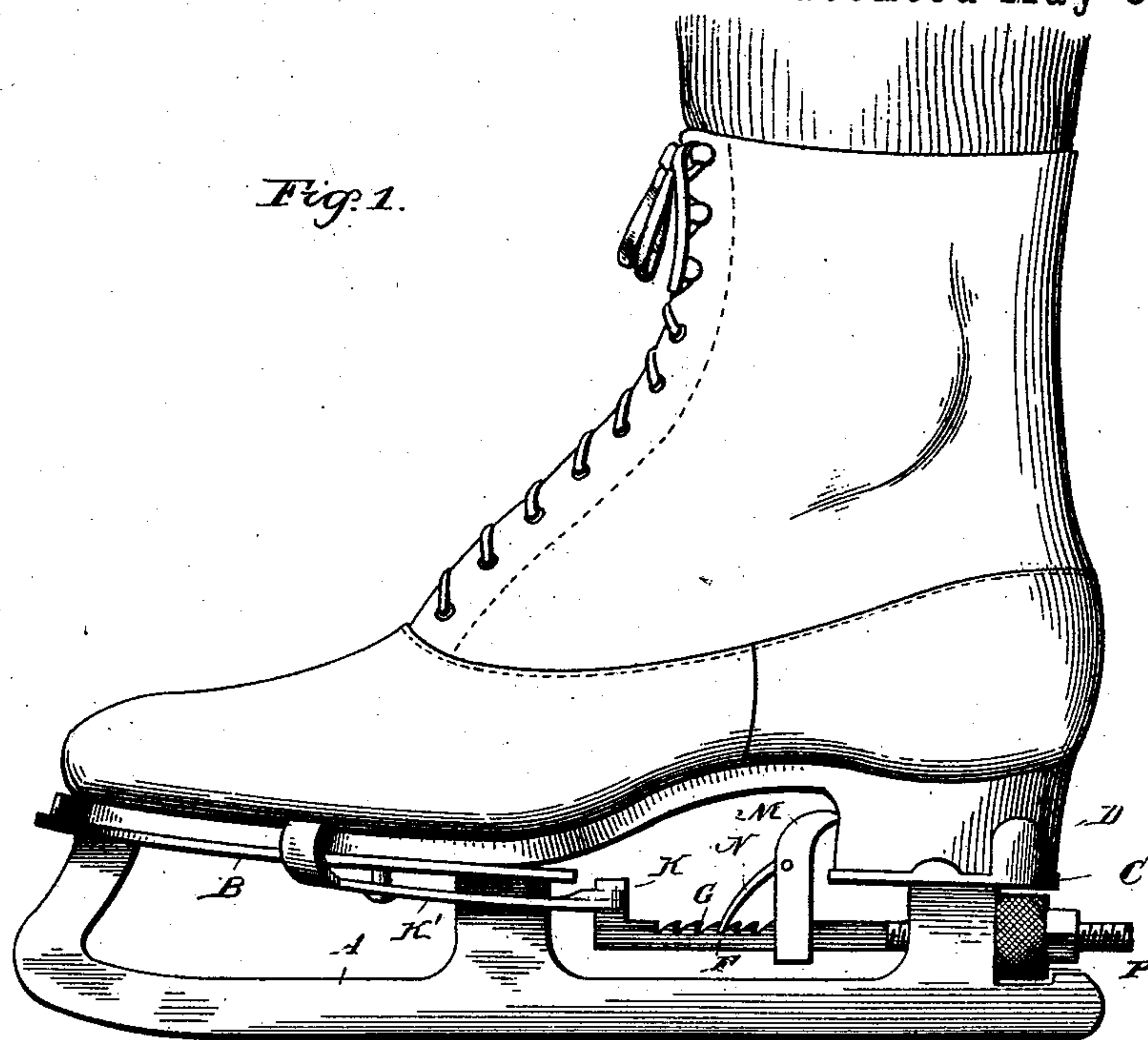


(No Model.)

J. R. STEELE.
SKATE.

No. 603,435.

Patented May 3, 1898.



Witnesses
Victor J. Evans.
Chas. E. Brock

Inventor
John R. Steele,
By *Wm. H. H. H.*
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UNITED STATES PATENT OFFICE.

JOHN R. STEELE, OF SANDY VALLEY, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO MATHEW SMITH, OF SAME PLACE.

SKATE.

SPECIFICATION forming part of Letters Patent No. 603,435, dated May 3, 1898.

Application filed March 13, 1897. Renewed January 29, 1898. Serial No. 668,497. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. STEELE, residing at Sandy Valley, in the county of Jefferson and State of Pennsylvania, have invented
5 a new and useful Skate, of which the following is a specification.

This invention relates to certain improvements in skates, and more particularly to an improved ice-skate.

10 An object of the invention is to provide an ice-skate having the usual blade or runner, with improved means whereby the skate can be lengthened or shortened, and at the same time provide means so as to adjust the heel
15 and toe clamps in the desired position.

With this object in view my invention consists in certain novel features of construction and in combinations and arrangements of parts more fully described hereinafter and
20 particularly pointed out in the claim.

Referring to the accompanying drawings, illustrating my invention, Figure 1 is a side elevation of an ice-skate, showing the practical operation of my device. Fig. 2 is a perspective view of the locking device, a wrench
25 also being shown; and Fig. 3 is a longitudinal section through the skate.

In carrying out my invention I have shown a shoe secured to the skate, the skate being
30 formed of the body portion A, having the upward extensions to which the toe and heel plates B C are rigidly secured, the heel portion C having the upwardly-extending arms or clamps D formed integral with the same.

35 E represents an opening extending through the rear end of the skate, a rod F, having the screw-threaded rear portion, being inserted therein. This rod has the notched or toothed front portion G and an upwardly-projecting
40 part H, preferably provided with a central opening I to receive a set-screw K, which is adapted to secure the rear end of a bar K', carrying a clamp at its front end, embracing the sole of the shoe, so that such rear end
45 can be securely attached to the extended or upwardly-projecting part H.

M represents a heel-clamp having a flat curved spring N secured in the face thereof, the upper part of the clamp being curved

rearwardly to engage the inner side of the
50 heel of the shoe when the skate is locked to the foot. This heel-clamp has a lower opening O, so as to be freely movable on the rod F, the bottom portion of the curved flat spring working in the notches or teeth G. 55

P indicates a nut adapted to be screwed onto the rear end of the rod F, so as to bear against the rear extension carried by the runner or blade, as clearly shown.

From the foregoing it will be readily seen 60 that I can at any time adjust and secure a skate to a foot, as a suitable wrench, such as Q, can be utilized to turn the nut on the rod F, thereby easily loosening and tightening the same. The heel-clamping plate carrying 65 the curved spring can be moved back and forth over the teeth on the bar or rod F, and when adjusted in the desired position the upwardly-curved portion will impinge against the inner surface or front face of the heel, 70 while the pressure of the heel against the same will prevent the lower portion of the spring being forced from the teeth of the bar or rod F, thereby firmly securing the skate to the shoe. 75

Various slight changes might be made in the forms, constructions, and arrangements of the parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the exact construction herein set forth. 80

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

In a skate, the combination of the heel- 85 piece, the threaded rod passing through the same having adjusted nut behind the heel-piece and rack-teeth in front of the heel-piece, the toe-clamp secured to the front end of the threaded bar, the slidable upright bar on the 90 threaded rod having its point engaging the front of the heel, and the pawl pivoted in said upright bar and engaging the rack-teeth of the threaded bar, all substantially as set forth.

JOHN R. STEELE.

Witnesses:

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R. A. HILDEBRAND.