

(No Model.)

W. G. & J. L. RAWBONE.

SKATE.

No. 244,929.

Patented July 26, 1881.

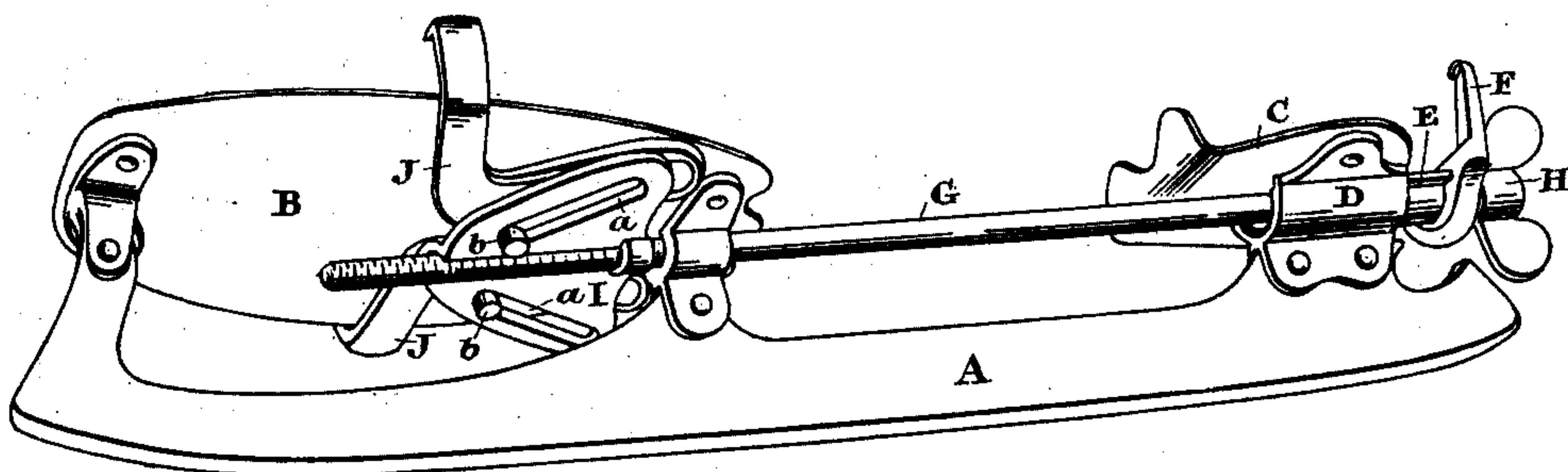


Fig 1.

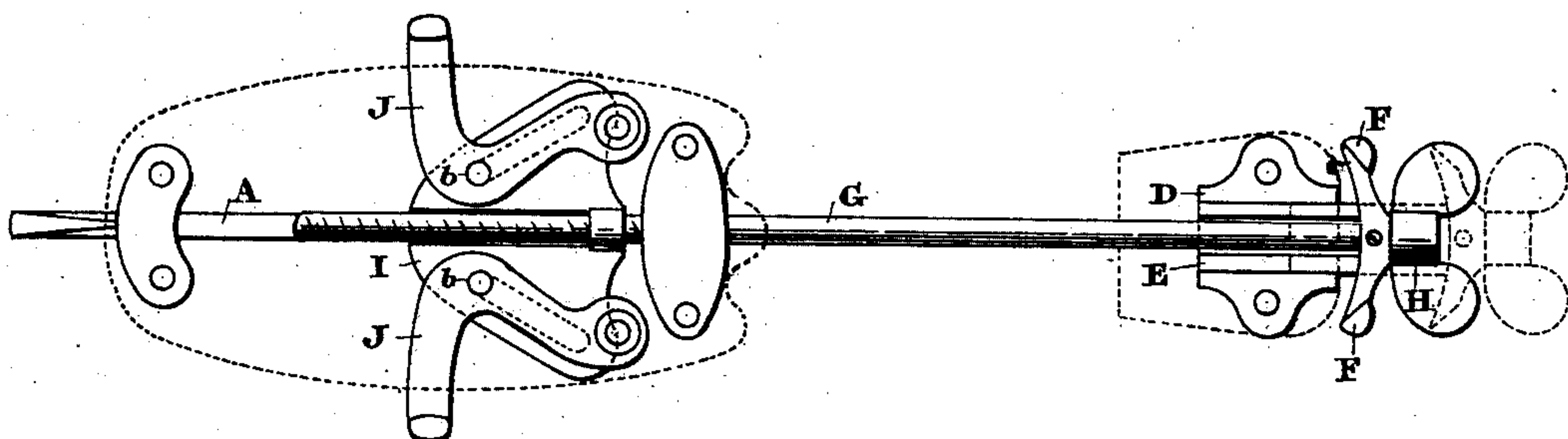


Fig. 2.

Witnesses.

Lewis Tomlinson

C. M. Baldwin

Inventors.

W. G. Rawbone

J. L. Rawbone

by Richard Bird  
Attys.

# UNITED STATES PATENT OFFICE.

WILLIAM G. RAWBONE AND JOSEPH L. RAWBONE, OF TORONTO, ONTARIO,  
CANADA.

## SKATE.

SPECIFICATION forming part of Letters Patent No. 244,929, dated July 26, 1881.

Application filed May 9, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM GEORGE RAWBONE and JOSEPH LOXTON RAWBONE, both of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements on Skates, of which the following is a specification.

The object of the invention is to arrange the clamps for securing the skate to the boot in such a manner that they can be readily adjusted to suit the various sizes of boots; and it consists, essentially, of pivoted front clamps operated by angular slots in a plate adjusted by a rod passing below the supporting-plates of the skate and connected to the heel-clamp, which is attached to or forms part of a sleeve fitting into a recess below the heel-plate, the said adjusting-rod being arranged to adjust the front and heel-clamps simultaneously, as hereinafter more particularly explained.

Figure 1 is a perspective bottom view of our skate. Fig. 2 is a plan with the front and heel-plates shown in dotted lines.

In the drawings, A is the blade of the skate, and B the front plate connected to the blade, as shown.

C is a heel-plate supported on an inverted arched bracket riveted to the blade of the skate, as represented.

E is a sleeve fitting into the arched recess in the bracket D, and to which the heel-clamp F is secured.

G is the adjusting-rod, located as shown, and secured to the heel-clamp F so that it can revolve but cannot move lengthwise. A butterfly-nut, H, or thumb-screw, is secured to the rod G behind the clamp F. The other end of the rod G is screwed and passes through a nut in the plate I. This plate has angular slots *a* cut in it, as shown, to receive the pins *b*. These pins are attached to the front clamps, J, which are pivoted, as shown, upon the bottom side of the front plates, B. It will be noticed that the heel-clamp F is turned up to form a shoulder, against which the front edge of the heel of the boot butts. Owing to the manner in which the adjusting-rod G is con-

nected to the pivoted front clamps and heel-clamp, as described, the clamps can be readily adjusted to suit the different sizes of boots. The major portion of the adjustment being effected by moving the rod longitudinally with the skate, which action, owing to the angular slots in the plate I, adjusts the front clamps, while the heel-clamp is permitted to move, owing to its connection to the sleeve E, as described. When thus moved the required distance the clamps can be pressed against the boot by turning the rod G, its screw, acting in a nut on the plate I, drawing the front and rear clamps against the boot, or vice versa, as required.

We are aware that sliding-sole clamps of skates have been drawn together by a sliding plate provided with diverging slots to engage with the clamps; that similar clamps have been drawn together by diverging slots in sole-plates against which they are drawn by a screw; and we are also aware that a bar pivoted at its center to a skate-plate, and provided with an upwardly-projecting jaw at each end, has been turned on its pivot to cause its jaws to clamp a shoe-sole by a sliding rod carrying a pivot to engage with the said pivoted bar; and therefore we do not broadly claim either of the above-mentioned devices.

In our invention the sole-clamping jaws are formed on the outer ends of two bent bars, which are pivoted at their other ends, one to each side of the skate-plate, and are provided with downwardly-projecting pins which engage with diverging slots in a sliding plate under the pivoted bent angle-bars. By this construction the angle-bars are secured to the skate by a single rivet in each, and are held securely in place by the sliding plate having the diverging slots.

What we claim as our invention is—

1. In a skate, and in combination with the sole-plate B thereof, the bent right-angle clamp-bars J J, each secured by a single pivot to the sole-plate, one at each side thereof, and provided with projecting-pins *b b*, the sliding plate I, having diverging slots to receive said pins *b b*, and to operate the pivoted clamp.



bars, and the screw G, for imparting movement to the sliding plate I, substantially as and for the purpose specified.

2. In combination with the sole-plate D,  
5 right-angle clamp-bars J J, pivoted one on each side of plate D, pins *b b*, sliding plate I, having diverging slots *a a*, and screw G, the heel-plate C, having a fixed front shoulder, and provided with a sliding clamp, E F, operated

by the same screw which operates the toe- 10  
clamps, substantially as and for the purpose specified.

W. G. RAWBONE.  
J. L. RAWBONE.

Witnesses:

C. W. BALDWIN,  
H. H. WARREN.