

D. Maydole,

Skate.

N^o 37,104.

Patented Dec. 9, 1862.

Fig. 1.

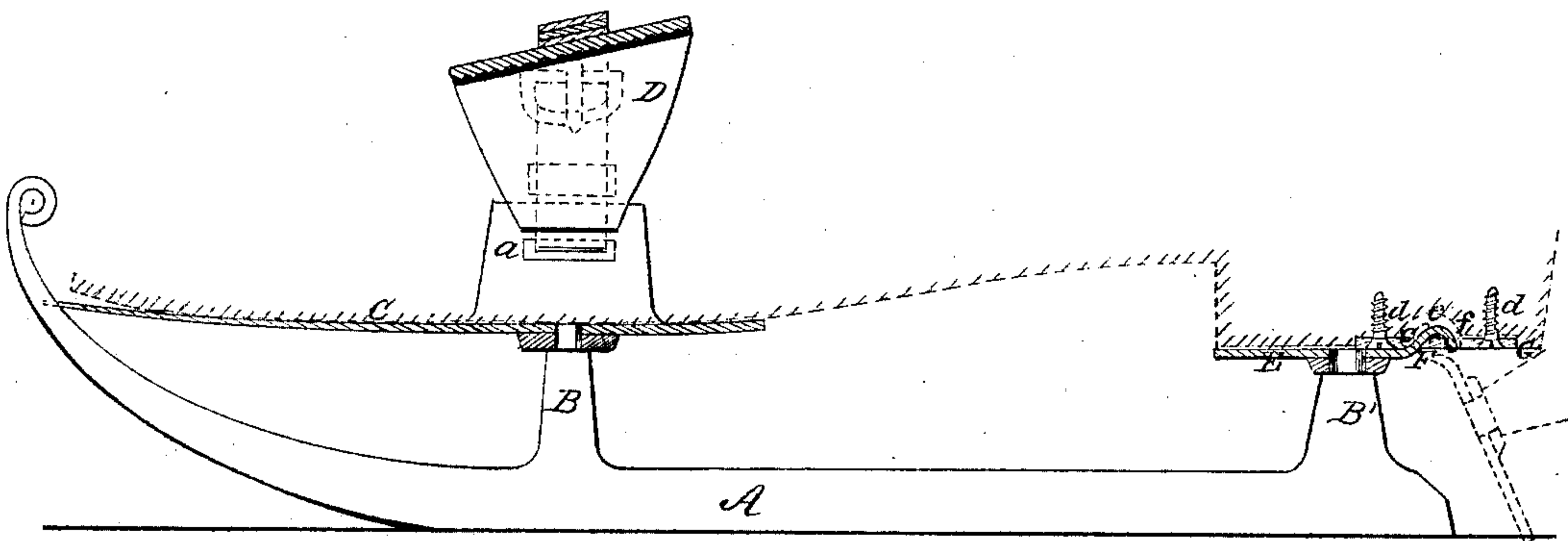
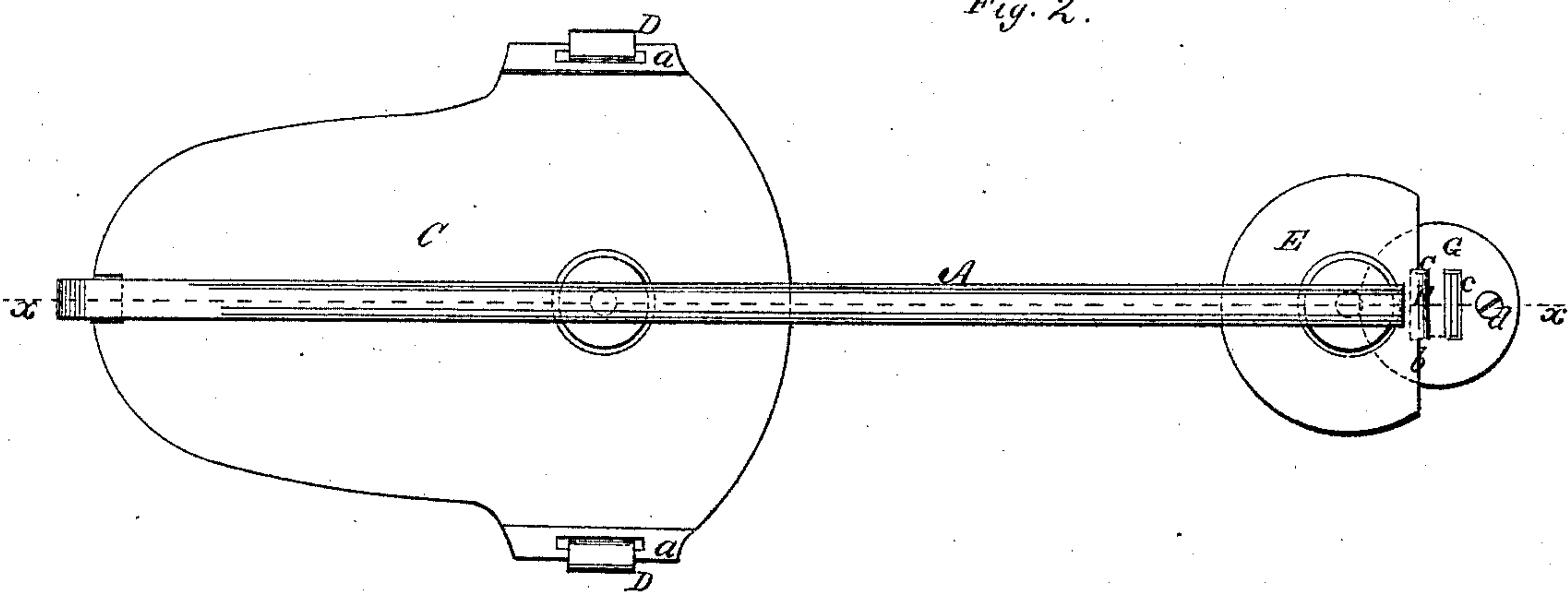


Fig. 2.



Witnesses
Edw M Hodgson
Ryawley

Inventor
David Maydole

UNITED STATES PATENT OFFICE.

DAVID MAYDOLE, OF NORWICH, NEW YORK.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. 37,104, dated December 9, 1862.

To all whom it may concern:

Be it known that I, DAVID MAYDOLE, of Norwich, in the county of Chenango and State of New York, have invented a new and useful Improvement in Skate-Fastenings designed more especially for Men's Skates; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of a skate with my invention applied to it; Fig. 2 an inverted plan of the same.

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

This invention relates to a new and improved mode of attaching the back part of the skate to the heel of the boot or shoe; and it consists in having a hook at the back part of a heel-plate attached to the skate, and a plate provided with two parallel slots attached to the heel of the boot or shoe, the parts being so arranged that the hook on the skate may be passed through the slots in the plate which is attached to the heel of the boot or shoe, and a perfect lock obtained.

The heel-fastening of a skate is the principal one. If the back part of the skate be firmly attached to the heel of the boot or shoe, a very simple fastening will secure the front part, for in skating the skate is raised from the ice with the ball of the foot pressing down on the front part of the skate, the heel of the boot or shoe and back part of the skate at the same time rising, the front part of the skate leaving the ice at the last of the movement. The heel-fastening therefore is subjected to a considerable strain, and a very secure fastening is required, and it is desirable to have not only a secure fastening, but one which will admit of the skate being readily attached to the boot or shoe and readily detached from it, an end which, it is believed, is fully attained by this invention.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the runner of a skate, which may be of the usual form, and B B' are the two posts or knees, B being the front and B' the back post.

To the upper end of the front post, B, there

is attached a plate, C, on which the front part of the boot or shoe rests, and is secured thereto by a strap, D, the ends of which are attached to eyes or loops *a a*, one at each side of plate C. I do not, however, confine myself to this nor to any other fastening for securing the front part of the skate to the boot or shoe. Any suitable fastening may be made for the purpose.

To the upper end of the back heel-post, B', there is attached a horizontal plate, E, on which the heel of the boot or shoe rests. This plate E may be of circular or other form. In this case its front part is circular, with a straight back edge, *b*, at right angles with the runner A, the whole plate forming rather more than a semicircle. (See Fig. 2.)

At the center of the back edge, *b*, of the plate E there is a hook, F, which may be made separately and attached to plate E, or be bent up and formed of a part thereof, a projection being left on the plate for that purpose. This hook may be of any desirable width, and its convex surface is its upper surface, as shown clearly in Fig. 1.

G is a plate, of circular or other form, which has two parallel slots, *c c*, made in it at a suitable distance apart, to form what may be termed a "staple" for the hook F to pass entirely through—that is to say, up through the innermost slot and down through the other or outermost one, as shown more clearly in Fig. 1. This plate G is secured by screws *d* to the bottom of the heel of the boot or shoe, and is let into the heel, so that its under surface or face will be flush with it, and a recess, *e*, is made in the bottom of the heel of the boot or shoe to admit of the hook being passed through the slots *c c*, as shown in red in Fig. 1. The back part of the skate is of course first secured to the heel of the boot or shoe, and this is accomplished by holding the skate in an inclined position, as shown in red in Fig. 1, and passing the end of the hook first through the innermost slot *c* of plate G, and then turning the skate forward toward the sole to let the hook pass down through the outermost slot *c*. By this means a perfect lock is obtained. The skate at its back part is secured vertically to the boot or shoe, and is also prevented from moving or shifting either longitudinally or vertically.

I am aware that in some skate-fastenings

dovetail projections have been attached to skates to fit in similar-shaped sockets attached to the sole or heel of the boot or shoe; but such fastenings differ essentially from mine, as the former require a pressure given them by a screw or other means to force the dovetail projection into the socket, and also to retain it therein. Such fastenings also are attended with considerable embarrassment, as the sockets, having one opening only, are liable to become filled with dirt and the latter compacted therein, in which case it must be picked out—a rather tedious operation—to leave the socket perfectly clean to receive the dovetail projection on the skate.

It will be seen that in my invention if the recess *e* in the heel should become filled with dirt it may be readily cleaned out, for the slots *c c* form openings at both ends of said recess, and a pick can readily be forced entirely through the recess; or the latter cleaned out by the insertion of the hook itself.

I would remark that in lieu of the double slotted plate *G* a simple plate or bar might be

employed and attached to the boot-heel with a recess, *e*, made in the heel, directly over said plate or bar for the hook *F* to pass over. This, however, would be an inferior arrangement, and be liable to be affected by wear. Such modification, however, would be an equivalent to the double-slotted plate, as a staple is formed for the hook in both cases.

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

The hook *F*, attached to or formed on the plate *E* at the back part of the skate, in combination with the plate *G*, attached to the heel of the boot or shoe, and provided with parallel slots *c c*, or any equivalent staple, to receive the hook *F*, when used in connection with any suitable fastening for holding the front of the skate against the sole of the boot or shoe, substantially as and for the purpose specified.

DAVID MAYDOLE.

Witnesses:

R. GAWLEY,
G. W. REED.