J. D. KELLOGG, Jr.

Skates.

No. 161,883. Patented April 13, 1875.

Fig. 1.

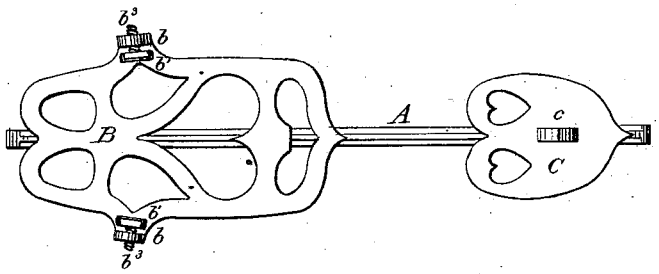


Fig. 2.

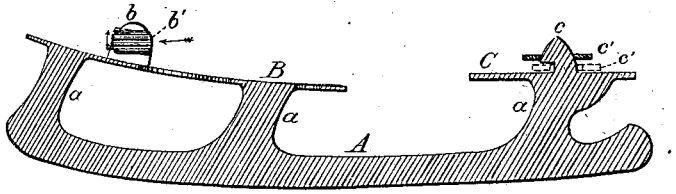


Fig. 3

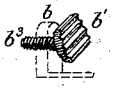


Fig. 4.

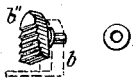
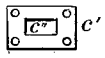


Fig. 5



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UNITED STATES PATENT OFFICE.

J. DWIGHT KELLOGG, JR., OF NORTHAMPTON, MASSACHUSETTS.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. **161,883**, dated April 13, 1875; application filed March 1, 1875.

To all whom it may concern:

Be it known that I, J. DWIGHT KELLOGG, Jr., of Northampton, in the county of Hampshire, in the State of Massachusetts, have made certain Improvements in Skates, of which the following is a specification:

The object of this invention is to produce a cheap, light, and durable skate, the devices for attaching the skate to the boot or shoe sole being easily and quickly adjusted, and very secure when so adjusted; and it consists in the construction of the parts whereby the object is attained, as will be fully hereinafter described.

In the drawings, Figure 1 represents a top view; Fig. 2, longitudinal sectional view; and Figs. 3, 4, and 5, details.

A represents the runner of the skate; *a a a*, the risers that support the foot and heel plates. B is the plate that supports the foot of the skater, and has upright ears *b b* projecting upward from each side of plate B. These ears have horizontal or nearly horizontal teeth or serrations on their inner sides, so that when they are at the right distance apart for taking hold of the edge of the sole of the boot or shoe no other device will be necessary to firmly secure the skate to the boot or shoe by forcing the sole of the boot violently forward between them. *b′ b′* are removable or adjustable screw clamp-jaws, screw-tapped into and passing horizontally or transversely through the ears by right and left hand screw-tangs, and have teeth cut into their inner faces to take hold of the edge of the boot or shoe sole, and hold the skate fast to the same.

The tangs of these clamps have screw-threads thereon to adjust the distance between them to fit the particular width of the boot-sole, and are right and left screw-cut, so that as the boot-sole is forced forward between them, the heel being raised and the teeth being inclined, as seen in Fig. 2, when the heel is forced down upon the skate the clamps will be turned and as they turn they will be forced by the screws harder against the edge of the sole of the boot, and secure it firmly thereto.

b″ b″ show removable clamp-jaws, the same as *b′*, with the exception that the tangs are not screw-threaded, but can be adjusted in the ears by placing washers on the tangs between the jaws *b″* and ears *b* to give the necessary width between them. Two or but one of jaws *b″* are used in order to give the proper width to fit the boot-sole. C is the heel-plate, fast to the rear riser on the runner. *c* is a catch or latch for the heel-plate fast to the riser *a*, and extending upward above plate C a sufficient distance. It is tapering in form in side view, as seen in Fig. 2, with a notch, X, at its base above the heel-plate on its forward edge, to receive and hold the heel-plate. C′ is the heel-plate to be securely fastened to the heel of the boot of the skater, and has a slot, *c″*, therein to go easily over the catch *c* and take into the notch X and hold the heel of the boot fast to the skate.

The whole skate, excepting the adjustable clamps *b′* and *b″*, are cast in a single piece; hence a light and durable skate with all the means of adjustment and attachment to the boot is produced at a much less cost than where the parts are of wrought metal and in several pieces.

A skate constructed as described, and the clamping-jaws *b′* adjusted to the width of the sole of the boot, and the teeth on the jaws a little elevated at their rear edges, the foot of the skater is forced in between them, while the heel of the boot is raised. The heel, with the plate *c′* firmly attached, is now pressed down, with the shank of the boot raised a little until the plate *c′* is down upon plate C, when the weight of the skater is fully brought upon the foot, forcing the plate on the heel back into the notch of catch *c*, when the skate is securely fast upon the boot of the skater.

Having thus described my invention, what I claim is—

1. A skate composed of the runner A, risers *a*, plate B, with ears *b*, and plate C, with

catch c, all cast in a single piece, substantially as described.

2. The adjustable clamp-jaws b' b', having a toothed or serrated face and tangs, b^3, one having a right and the other a left hand screw-thread cut thereon, in combination with the screw-tapped ears b, substantially as and for the purposes described.

3. The removable and adjustable clamp-jaws b'' b'', having the serrated or toothed faces and smooth tangs, in combination with the fixed ears b, substantially as and for the purposes described.

J. DWIGHT KELLOGG, JR.

Witnesses:
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