

(No Model.)

H. A. WILBUR.

SKATE.

No. 301,415.

Patented July 1, 1884.

FIG. 1.

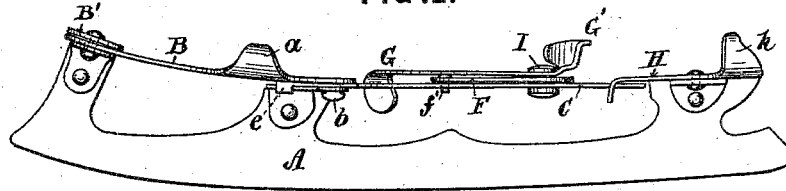


FIG. 2.

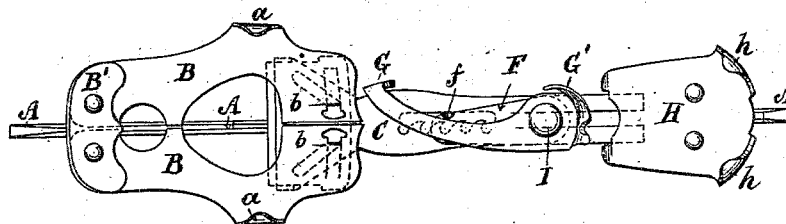


FIG. 3.

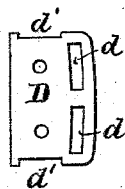


FIG. 4.

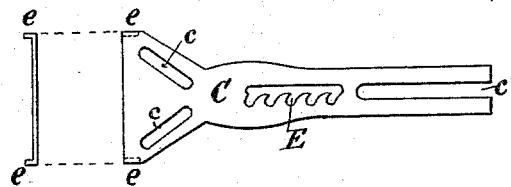


FIG. 5.

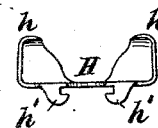


FIG. 7.

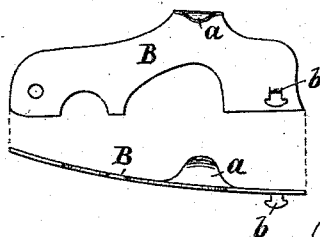


FIG. 6.

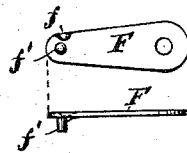


FIG. 8.

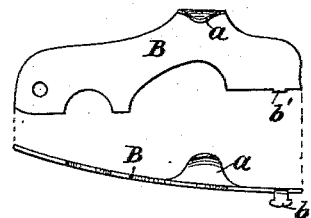
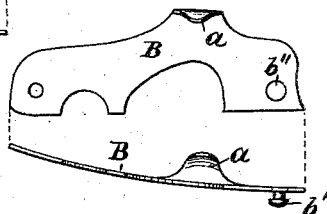


FIG. 9.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY A. WILBUR, OF WEST SOMERVILLE, ASSIGNOR OF ONE-HALF TO
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SKATE.

SPECIFICATION forming part of Letters Patent No. 301,415, dated July 1, 1884.

Application filed April 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. WILBUR, a citizen of the United States, residing at West Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Skates; of which the following is a specification.

The nature of my invention consists in the peculiar construction and arrangement of the plates which constitute the sole-clamps in relation to the adjusting and tightening devices, so that the sole of the boot or shoe will rest directly upon the sole-clamps without the intervention of the adjusting device or any projections, such as rivet-heads, &c., whereby the boot or shoe can be more firmly secured to the skate, and any snow or ice be prevented from getting between the sole-clamp plates and the boot or shoe sole.

The invention further consists in the peculiar construction of the adjustable locking device in connection with the clamping-lever.

Referring to the accompanying drawings, Figure 1 is a side view of a skate embodying my invention. Fig. 2 is a top or plan view of the same. Figs. 3 to 9 are enlarged views in detail of the several parts, to be more fully described.

A is the skate-runner. B B are the sole-clamps provided with the curved ears or clamps *a a*, and pivoted at their forward ends to the toe clamp or plate B'. The rear ends of sole-clamps B B are provided with headed tangs *b b*, which are designed to be struck down from the plates, as shown in Fig. 7, at a short distance from the edge; or they may be struck down at the edge, as shown at G' in Fig. 8. An equivalent device is shown in Fig. 9, at *b''*, the same being a stud riveted to the plate B.

Underneath the rear portions of the sole-clamps B B, and upon which they rest, is a sliding plate, C, having the radial slots *c c* at its forward end, in which the tangs *b b* of the plates B B move.

At the central portion of the plate C is a slot having on one side a series of curved teeth, as shown at E, and at the rear end is an elongated slot, *e'*, in which the rivet I, which holds the lever G, slides.

D is a plate or bridge, arranged underneath

the forward end of the plate C, and secured to knees attached to the runner A. In the plate D are two slightly-curved slots, *d d*, through which pass the tangs *b b*.

In the outer edges of the plate D are recesses *d' d'*, in which slide the turned-down edges *e e* of the plate C, and which prevent any lateral or unsteady motion.

It will be seen that the tangs *b b* of plates B B pass down through the radial slots *c c* of plate C and the slots *d d* of plate D, which latter is stationary, so that as the sliding plate C is moved forward or back, the sole-clamps B B will be brought together to clamp the boot or shoe sole, or separated, as desired, to release the said sole. It will also be seen that the boot or shoe sole rests directly upon the sole-clamp plates B B, thereby preventing the entrance and accumulation of ice or snow between the sole and the bearing-plate, a difficulty that is liable to occur in skates of this character where the adjusting device or rivet-heads project above the surface of the sole-plates.

To the headed pin which connects the lever G' to the slotted plate C, and between the two, is pivoted a rigid adjustable locking-plate, F, provided with a turned-down ear or projection, *f*, and also with a projection or stop, *f'*. The ear *f* serves to hold the locking-plate in position when the stop *f'* engages with any one of the teeth E, the said ear *f* engaging with the straight side of the slot opposite the teeth. When the stop *f'* is to change its position in adjusting the locking-plate, the ear *f* is raised up from connection with the side of the slot, so as to allow the locking-plate to be moved forward or back, as required.

His the heel-plate provided with the turned-over ears or clamps *h h*, and having on its under side the guides *h' h'*, between which the rear slotted end of the plate C moves. The sole-clamp plates B B, and the plate C' being adjusted to the size of the boot or shoe, they are held in position by means of the locking-plate F, when the lever G is moved to bring the curved end G' against the front of the heel and the skate is firmly secured upon the boot or shoe.

I am aware that a spring-latch combined

with an eccentric lever and a perforated and furcated slide is not new, the same being shown in Patents No. 239,996 and 262,712. These I do not claim; but

5 What I claim as my invention is—

1. The combination of the sole-clamp plates B B, provided with the headed tangs *bb*, the sliding plate C, having the radial slots *cc*, and turned-down edges *ee*, and the slotted plate
10 D, having the recesses *dd*, the plates C and D being arranged underneath the clamp-plates B B, as and for the purpose set forth.

2. The sliding plate C, having the ratcheted slot E, in combination with the adjusting-plate
15 F, provided with the ear *f*, and pin *f'*, and the lever G, as and for the purpose specified.

3. The combination of the sliding plate C, having the radial slots *cc*, the ratcheted slot E, and the turned edges *ee*, the slotted plate D, provided with the recesses *dd*, the sole- 20 clamp plates B B, the adjusting-plate F, and lever G, all arranged for joint action, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two sub- 25 scribing witnesses.

HENRY A. WILBUR.

Witnesses:

JOS. H. ADAMS,
E. PLANTA.