(No Model.)

# J. W. KING.

## SKATE FASTENING.

No. 343,664. Patented June 15, 1886.

Fig. 1

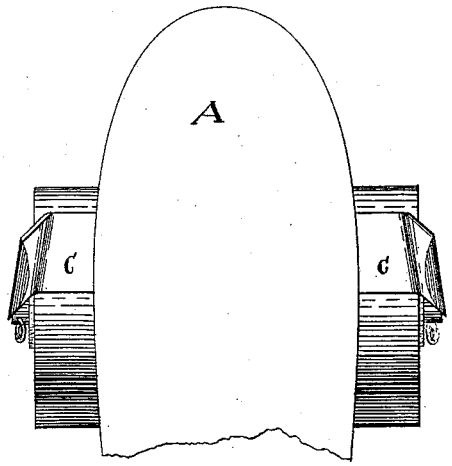



Fig 2

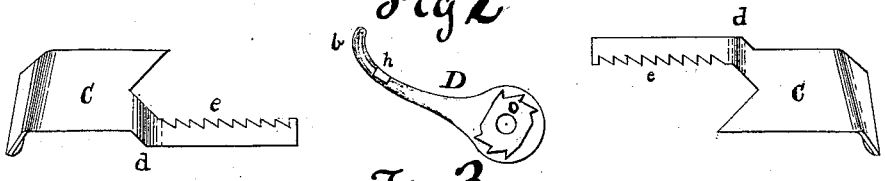
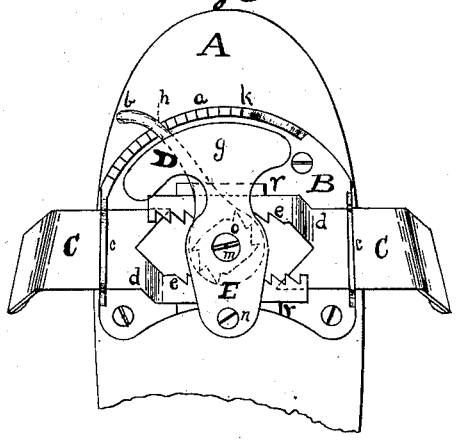



Fig 3




WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## SKATE-FASTENING.

SPECIFICATION forming part of Letters Patent No. 343,664, dated June 15, 1886.

Application filed October 3, 1885. Serial No. 178,887. (No mode'.)

*To all whom it may concern:*

Be it known that I, JOHN W. KING, a citizen of the United States, residing at Hoboken, in the county of Hudson, State of New Jersey, have invented certain new and useful Improvements in Skate-Fastenings, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a simple and easily-operated fastening for ice or roller skates.

Heretofore skates have been secured to shoes by straps, or by clamps that require adjusting to the different sizes of shoes by means of screws and other devices, and which secure the skate in only one position on the shoe.

By the use of my invention the clamp can be adjusted directly by pressure, and the skate can be secured on either side or in the middle of the sole of the shoe, as may be desired.

My invention relates to clamps used to secure ice or roller skates to the shoe, reference being had to the accompanying drawings.

Figure 1 is a top view of a portion of a skate with the clamp. Fig. 2 is a view of the clamp and lever detached. Fig. 3 is a view of a portion of the bottom of a skate with the clamp attached.

A is a portion of the body of a skate.

B is a main plate, to which all the parts are attached. It is fastened to the skate by screws or rivets, as shown in Fig. 3, and has on it the rack *a*, with ratchet-teeth, the slotted guides *c c*, the projections *r r*, all being formed in one piece.

C C is a clamp made in two parts, each part having its outer end turned up backward and over to grasp the shoe, as shown in Fig. 1. For part of their length they are reduced in width sufficiently to allow the toothed portion of lever D to be placed between them. The narrow portions are offset, *d d*, to permit them to pass over each other, and are provided with teeth on their inner edges.

D is a lever, pivoted on screw *m*, with a handle, *b*, a spur, *h*, to engage teeth on rack *a* and a portion of a toothed wheel, all made in one piece, as shown in Fig. 2.

E is a cap to hold all the parts in place. It is fastened to plate B by screws *m* and *n*, and has an extension, *g*, shaped as shown in Fig. 3, which acts as a spring to retain lever D in contact with teeth on rack *a*.

Pinions serving relatively to two-part clamps are not new.

I deem it important in my invention that in one position of the lever D *o* the clamps may be moved freely in either direction. The clamps are not confined arbitrarily to one path, but the path may be changed to suit different wearers. One wearer may desire to adjust the toe of his skate inside the center of the sole and another wearer upon the outer side of such center. My clamps allow such adjustment by being bodily movable, and the lever D *o* completes and locks the engagement.

My design may be so modified as to use a cam in place of the toothed portion of the lever.

The clamp is made in two parts—the outer ends shaped as shown in Fig. 1, the inner ends suitably formed to be operated by this means.

The operation of my clamp is as follows: When the lever is against the stop *k*, the teeth on the portion of a wheel, *o*, do not engage with the teeth *e e*, but allow the clamp to slide freely in the guides *c c r r* and permit the skate to be placed in any desired position on the sole of the shoe, the clamp then being free to be adjusted. By turning the lever the teeth *o* engage the teeth *e e*, drawing the clamp tighter on the shoe and clasping it firmly. The spur *h* (engaging with the teeth on rack *a*) is held in position by the pressure of spring *g* on handle *b*.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a skate, substantially as described, the combination, with a two-part clamp, each part having teeth, of a lever having teeth upon opposite sides, arranged in one position of the lever to allow free adjustment of the clamp, and in another position to engage and lock the clamp, as set forth.

2. The combination, with a skate-body, and with two-part clamps having teeth, of a lever having alternate teeth and plane surfaces,

whereby in one position of the lever the clamp has freedom, and in another position the teeth are engaged, as and for the purposes set forth.

3. The two-part clamp C, having each teeth *e* and capable of independent adjustment, combined with the plate B, having rack *a*, stop *k*, and guides *c c*, the wheel *o*, having flattened sides and engaging teeth, and the spring-lever D, all arranged and adapted to operate with relation to the skate A as and for the purposes specified.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOHN W. KING.

Witnesses:
GEO. D. SEYMOUR,
LEWIS B. CLARK.