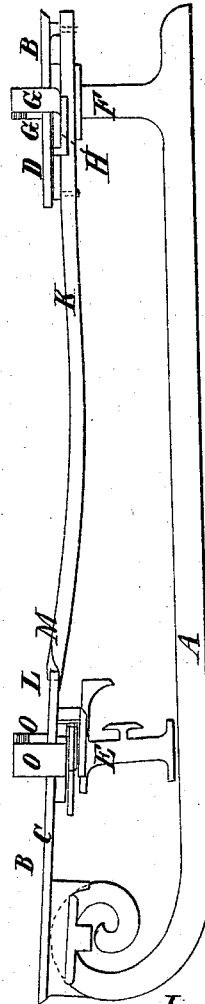
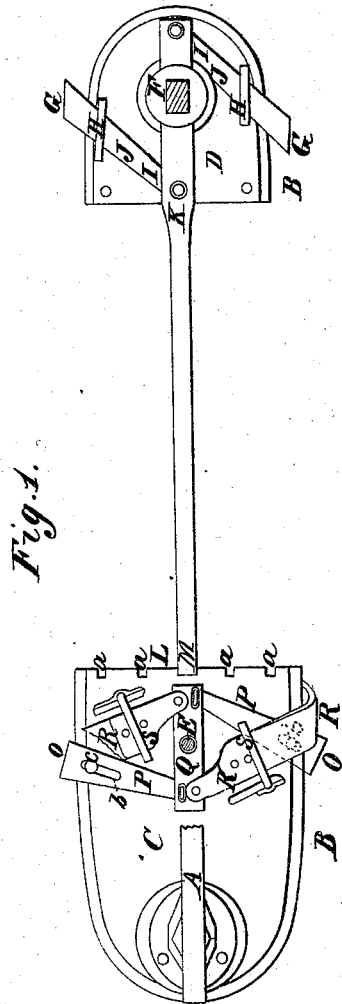


M. Fleischer,

Skate,

N^o 58,084.

Patented Sep. 18, 1866.



Witnesses

J. M. Blount
Jas. A. Service.

Inventor

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Attorneys

UNITED STATES PATENT OFFICE.

M. FLEISHER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. 58,084, dated September 18, 1866.

To all whom it may concern:

Be it known that I, M. FLEISHER, of the city and county of Philadelphia, State of Pennsylvania, have invented new and useful Improvements in Skates; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention relates to that class of skates in which the skates are secured to the soles of the boots or shoes by means of clamps brought to bear against the edges or sides of the sole and heel at suitable points thereof; and it consists in a novel arrangement of the said clamps, as will be hereinafter fully described, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a view of the under side of the foot-rest of the skate, showing my improved arrangement of clamps; and Fig. 2, a side elevation of the skate.

Similar letters of reference indicate like parts.

A in the drawings represents the runner or blade of the skate, and B the foot-rest, divided into two portions or parts, C and D, the one C for the front portion of the boot or shoe-sole, and the other, D, for the heel, the foot-rest being supported upon standards E and F, placed at suitable points between it and the runner. G G are two clamps, one upon each side of the heel-rest D, projecting above the top of the same, which clamps pass under the rest, through guides H of the same, and are pivoted by the inner ends, I, of their arms J to a common lever, K, turning upon the standard F as a fulcrum, and at equal distances from the said fulcrum, but upon opposite sides of the same, or, in other words, at points diametrically opposite to each other, so that if said lever is swung either to the right or left, as the case may be, the said clamps will be drawn in toward the edges of the heel-rest, or moved out from the same, the clamps, when drawn in toward the edges of the heel-rest, coming to a bearing against the sides of the boot or shoe heel, and thus tightly binding and holding the same be-

tween the two, as is obvious without further explanation.

The lever K extends toward the rear end, L, of the front portion, B, of the foot-rest B. This end or edge L of the rest portion E has a series of notches, *a*, formed in it, with one of which notches the end M of the lever K is interlocked, it being made with sufficient spring to cause it to be firmly held therein, from which notch, when the heel-clamps G are to be moved, the lever is disengaged by depressing it and swinging it in the proper direction, according as the heel-clamps are to be drawn inward and toward or swung outward and away from the heel, when, allowing the lever to spring upward, it will become engaged with any one of the series of notches *a*, according to the direction in which it then extends, thus firmly and tightly holding the heel-clamps in whatever position they may have been brought to by moving the lever.

O O are two clamps, one upon each side of the front portion, E, of the foot-rest, placed directly opposite to each other, and each projecting above the upper surface of the foot-rest. These clamps, by their arms P, pass under the foot-rest, moving by their slots *b*, extending in the direction of their length, upon the fixed pins or studs *c* of the same, and are both hung or pivoted by their inner ends to the opposite ends of a common swinging bar or arm, Q, turning upon the standard or support E as a center or fulcrum.

To each end of the bar Q straps R are pivoted, one to each end, which straps, passing under guides S upon the under side of the foot-rest, are brought up and over the top of the boot or shoe, where the two straps are buckled or otherwise properly fastened together, and drawn with sufficient tightness to bind and hold the skate to the boot or shoe, the straps, as they are drawn over the boot or shoe, pulling the clamps toward its sole and bringing them to a tight and close bearing against the edges or sides of the same, thereby securing the skate to the boot or shoe, to remove which it is only necessary to unfasten the straps, when the clamps are loosened from the sole, leaving it free to be detached, after having, however, first loosened the heel-clamps, as explained.

From the above description it is plain to be seen that a firm, reliable, and secure fastening for the skate to the sole of a boot or shoe is obtained with use of straps only over the front portion of the foot, and dispensing with the usual screws so common to skates having the ordinary strap-fastenings—all advantages of the utmost importance, as is obvious.

In lieu of fastening the guides for the straps to the foot-rest, they may be secured to the clamp-arms, and the clamp-arms and straps may be hung to common points of the swinging bar of the foot-rest; and, furthermore, the portions of the several clamps bearing against the boot or shoe sole and heel are serrated or roughened, so as to prevent their slipping.

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

1. The notched foot-rest C, for holding the end of the lever K, combined with the clamps J G of the heel-rest B, substantially in the manner and for the purpose represented and described.

2. The combination and arrangement of the clamps O, bar Q, straps R, notched rest C, lever K, clamps G, and heel-rest D, constructed and operating in the manner and for the purpose herein represented and described.

The above specification of my invention signed by me this 21st day of March, 1866.

MOYER FLEISHER.

Witnesses:

WM. F. MCNAMARA,
ALBERT W. BROWN.