(No Model.)

E. H. BARNEY.

SKATE.

No. 378,424. Patented Feb. 28, 1888.

Fig. 1.

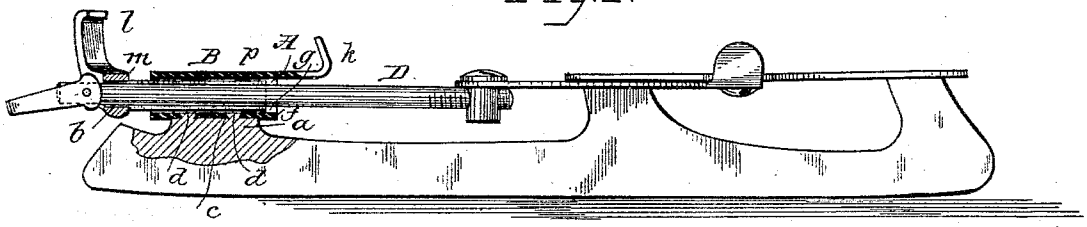


Fig. 2.

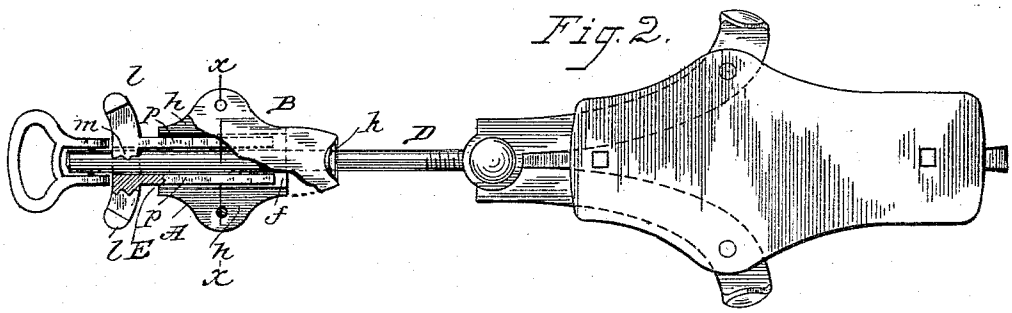


Fig. 3.

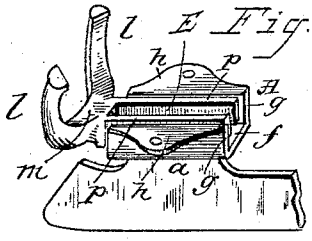
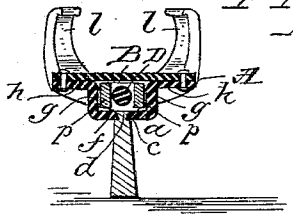


Fig. 4.



Witnesses:—

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UNITED STATES PATENT OFFICE.

EVERETT H. BARNEY, OF SPRINGFIELD, MASSACHUSETTS.

SKATE.

SPECIFICATION forming part of Letters Patent No. 378,424, dated February 28, 1888.

Application filed December 21, 1887. Serial No. 258,569. (No model.)

To all whom it may concern:

Be it known that I, EVERETT H. BARNEY, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Skates, of which the following is a specification.

This invention relates to that class of skates in which the sole-clamps and heel-clamp, when properly adjusted by the turning of a screw-rod which engages with said clamps to approximately fit the sole and heel, are set to firmly grip and bind the sole and heel by the operation of a cam pivoted to the end portion of said screw-clamp rod, the swinging of which in a manner to bear by its one edge against the rear of said heel-clamp will draw the said clamp-rod slightly rearwardly and the sole-clamps inwardly, and also at the same time force the said heel slightly forward; and the invention consists in the construction and combination of the heel-clamp and the parts of and about the heel-plate for the support and guiding of the heel-clamp, all substantially as will be hereinafter more fully described, and set forth in the claims.

In the accompanying drawings the present invention is illustrated, Figure 1 being a side elevation of a skate constructed in accordance therewith, with parts at the heel portion in central vertical section. Fig. 2 is a plan view of same with a portion of the heel-plate broken away for better illustration. Fig. 3 is a perspective view of the heel-plate bracket with the heel-plate removed and the heel-clamp in position thereon. Fig. 4 is a cross-section on line *x x*.

The bracket A is to be formed of trough shape transversely and in one piece, and is attached to the rear runner-standard, *a*, in any suitable manner, and is preferably struck up from a single blank of suitable metal—as wrought or malleable iron or other metal having similar ductile properties—and, as particularly shown, the said bracket consists of an intermediate bottom or base, *f*, apertured, as at *c*, for the reception of the studs of the top of the rear runner-standard for its attachment thereto, risers or side plates *g g*, and laterally-extending wings or bracket-plates *h h*, all integrally formed; and resting upon and secured to said bracket-wings is the separately-formed heel-plate B, provided with the forward abutment, *k*.

The heel-clamp C is provided with the rear abutments, *l l*, rising from a common transverse web, *m*, through the central portion of which an aperture, *b*, is formed to permit the slide of the clamp-rod D, and said clamp-web is provided with a forwardly-projecting tongue, E, either made as one extension of the web *m*, bored or channeled to secure a continuation of the passage for the free movement of the clamp-rod D, or, preferably, and for the purposes of increased lightness and greater compactness, as particularly shown, formed with a dividing-space between the outer prongs or legs *p p*, thereby formed.

The formation of a bracket integrally of trough shape in cross-section, substantially as described, for the guiding of the forward heel-clamp extension E, assures simplicity, ease, accuracy, and cheapness of construction, combined with the advantages of lightness and durability.

What I claim as my invention is—

1. In a skate of the character substantially as described, the combination, with the rear runner-standard provided with the studs *d*, of a heel-plate bracket of trough shape in cross-section, provided with the lateral wings *h h*, integrally formed and struck up from a single metal blank, the separately-formed heel-plate secured to said bracket, and the heel-clamp comprising the rear abutments, *l l*, the apertured web *m*, and the forked arms *p p*, extending forwardly therefrom, all substantially as shown, and for the purpose described.

2. In combination with the rear runner-standard of a skate, provided with the studs *d*, an integrally-formed heel-plate bracket of trough shape in cross-section, struck up from a single metal blank, and provided with the apertures *c*, all substantially as and for the purpose described.

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Witnesses:
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