

(No Model.)

E. H. BARNEY.

SKATE.

No. 378,424.

Patented Feb. 28, 1888.

Fig. 1.

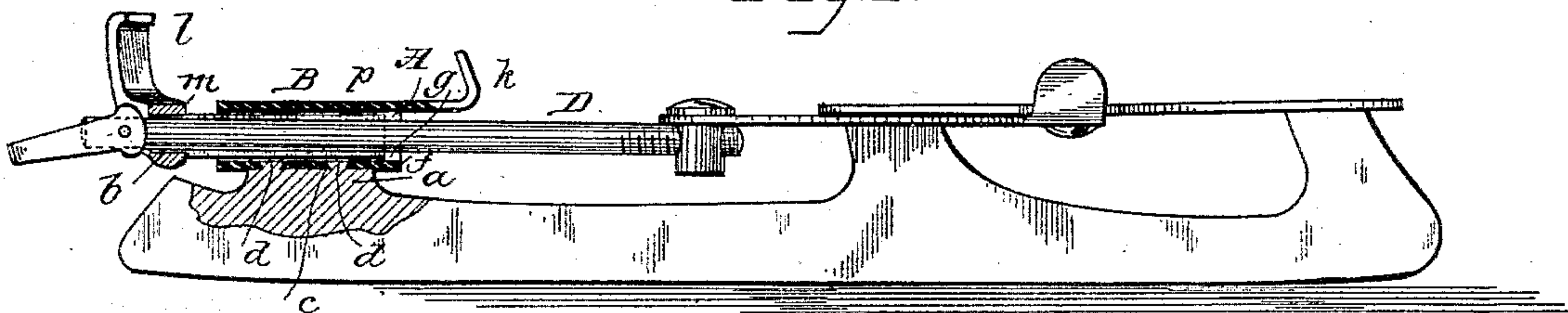


Fig. 2.

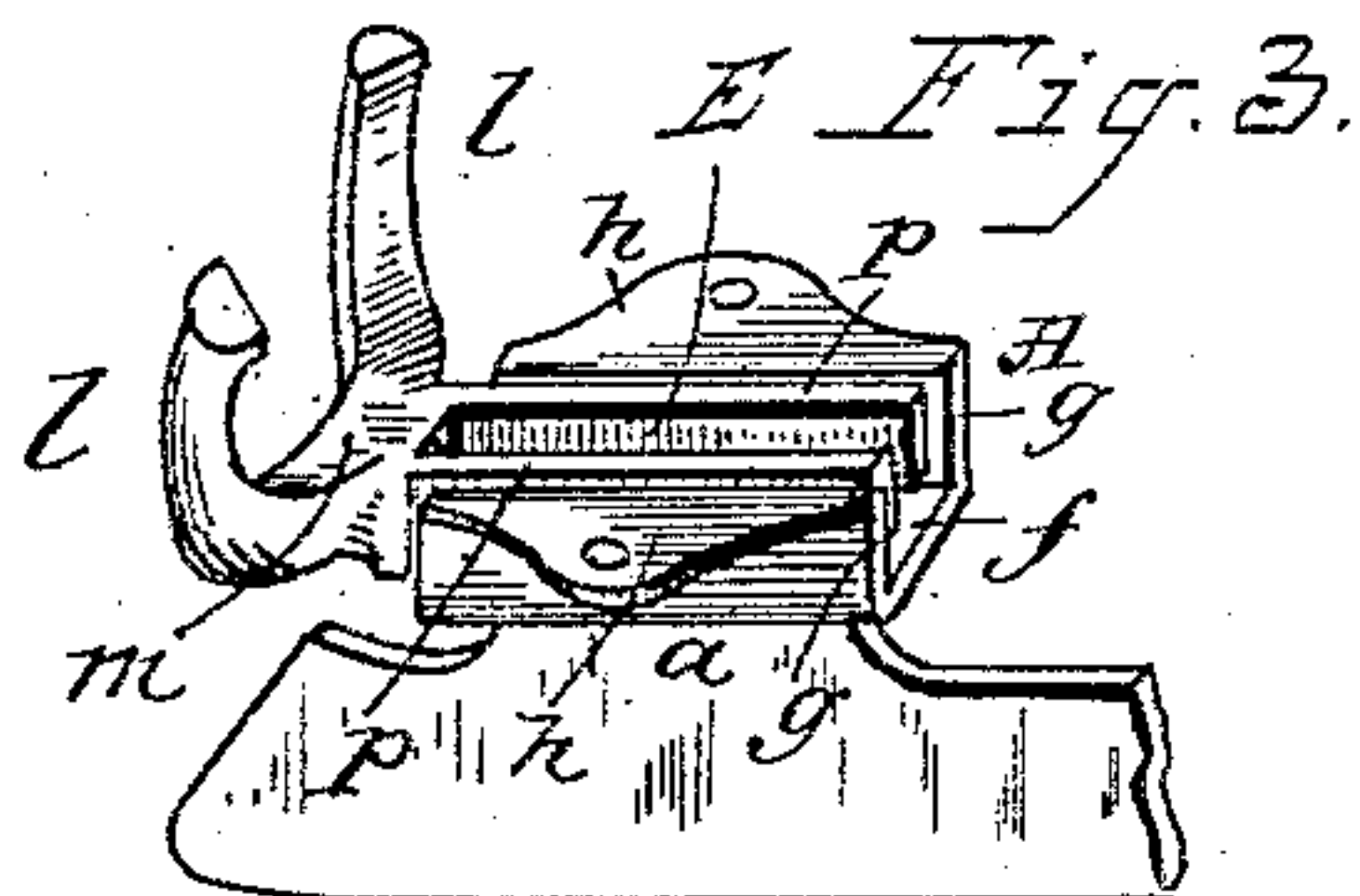
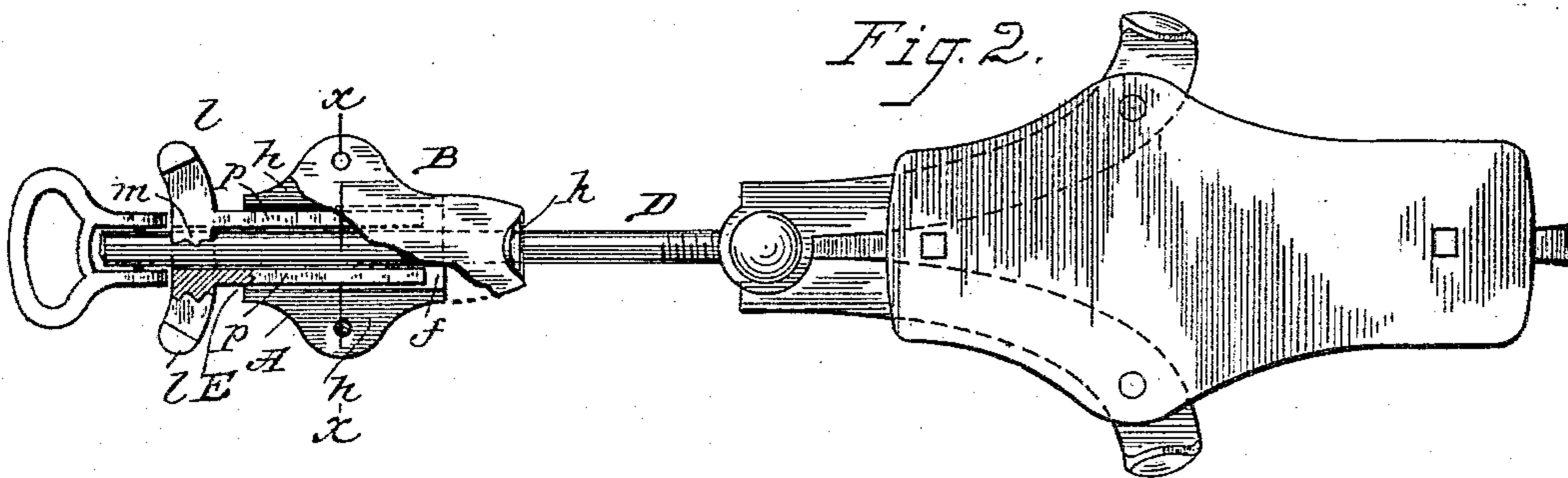
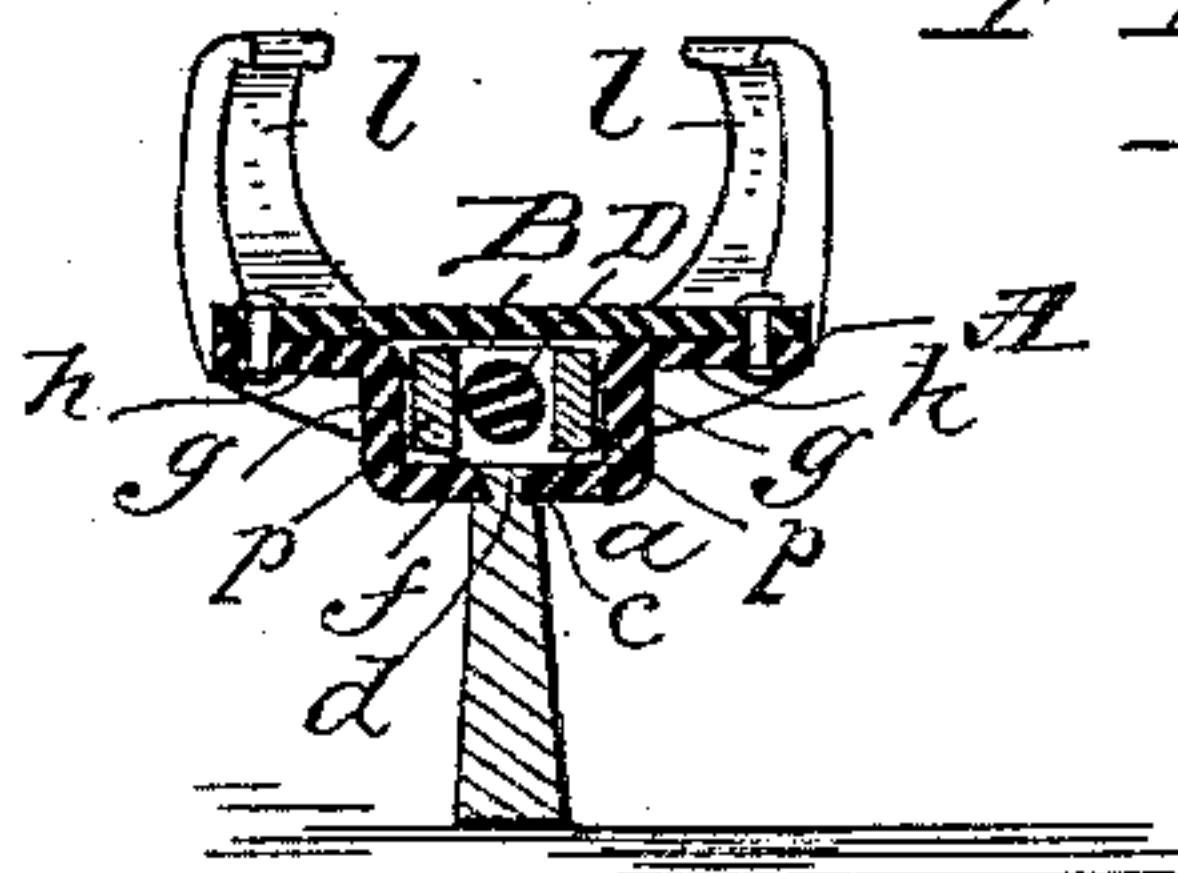


Fig. 4.



Witnesses:—

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Everett H. Barney,

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UNITED STATES PATENT OFFICE.

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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 in-

tegrally 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.

EVERETT H. BARNEY.

Witnesses:

H. A. CHAPIN,

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