

(No Model.)

J. V. ROWLETT.

ROLLER SKATE.

No. 362,478.

Patented May 3, 1887.

Fig. 1.

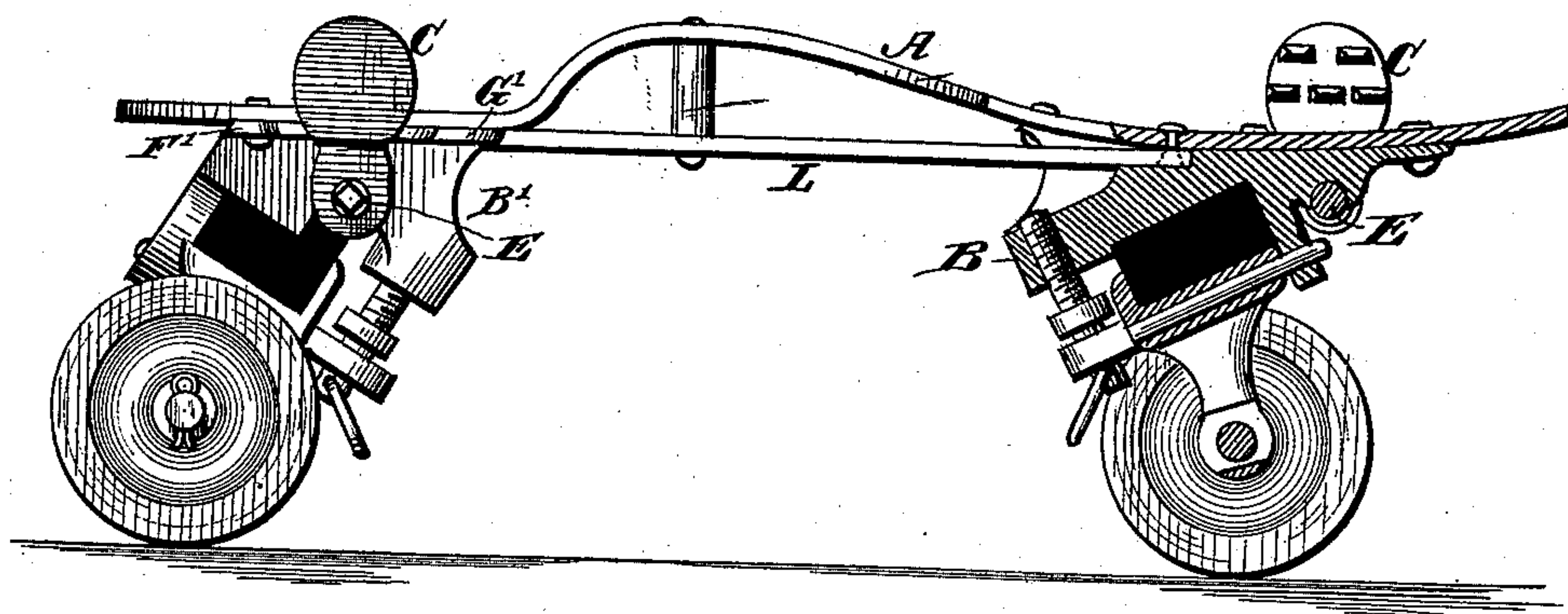


Fig. 2.

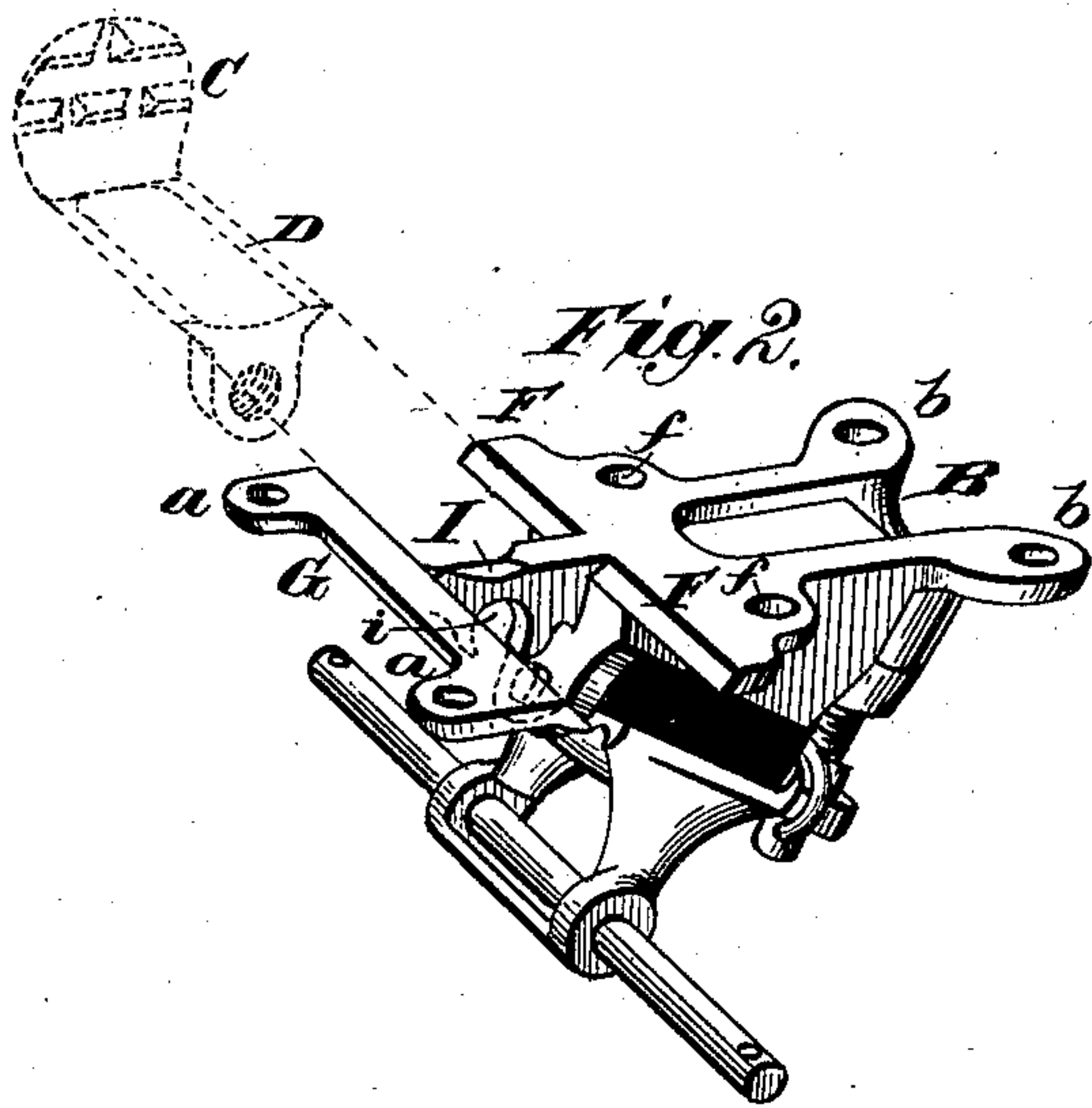
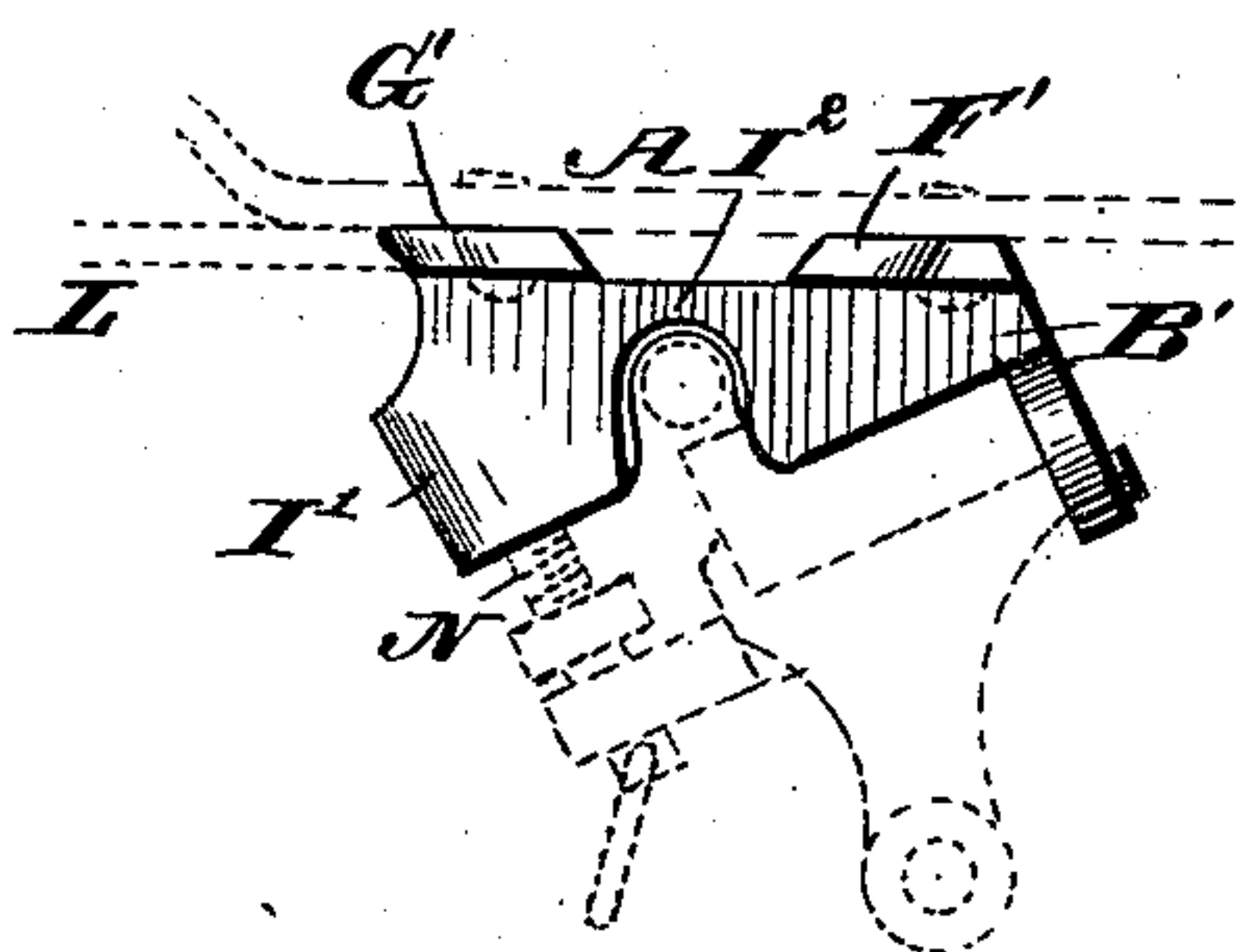


Fig. 3.



WITNESSES

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ROLLER-SKATE.

SPECIFICATION forming part of Letters Patent No. 362,478, dated May 3, 1887.

Application filed June 23, 1885. Serial No. 169,593. (No model.)

To all whom it may concern:

Be it known that I, JACOB VORE ROWLETT, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented new and useful Improvements in Roller-Skates, of which the following is a specification.

My invention relates to roller and other skates, and the purpose thereof is to provide improved means for holding and guiding the slides which carry the clamping-jaws, by which the skate is fastened to the foot.

Heretofore and prior to my invention these slides have been held and guided in various ways—as, for example, by means of separate plates fastened to the foot-plate by rivets upon each side of the slides; but nearly all this class of guides are subject to objection, for the reason that they are liable in use to work loose upon the attaching-rivets, causing the plates to turn upon their fastenings and drop the slides out of their supports. Two parallel guide-plates have also been used, extending from side to side of the foot-plate and connected by a central integral yoke-piece, which forms a seat for the reversely-threaded screw-shaft, by which the clamps are moved. With this form of construction, however, it is necessary to either set the bracket somewhat toward the center of the foot-plate to give space for the attachment of the guides or to place the clamps a little forward of the point where they properly belong. The only way of avoiding this objection is to so construct the bracket that it may partly overlie the guides; but this not only involves expense, but it seriously weakens the attachment of the bracket to the foot-plate. Moreover, in both forms of guides mentioned above a large number of openings must be drilled in the foot-plate to receive the rivets by which the brackets and the separate guides are attached. This not only adds to the labor and expense of manufacture, but it is liable to weaken the foot-plate, especially in the vicinity of the forward or toe bracket.

It is the purpose of my invention to so simplify and improve the form and construction of these parts as to materially diminish the labor and cost of manufacture, to provide a skate in which the clamp-guides shall be more strongly and permanently attached and far su-

perior in use to those heretofore employed, and by which the several objections specified shall be wholly removed.

My invention consists in the several novel features of construction and combinations of parts, hereinafter fully set forth, and definitely pointed out in the claims annexed to this specification.

Referring to the drawings forming part of this application, Figure 1 is a view partly in central vertical section and partly in side elevation. Fig. 2 is a perspective view of the forward bracket and clamp-plates or clamp-guides removed from the foot-plate. Fig. 3 is a side elevation of the heel-bracket shown in Fig. 1, with its connected parts.

In the said drawings, the reference-letter A designates the foot-plate of a roller-skate having brackets B and B' at the toe and heel thereof, respectively, said brackets carrying the hangers, upon which the roller-journals are supported. Projecting above each side of the foot-plate are clamping-jaws C, which are mounted or formed upon the ends of slide-plates D, each having a boss upon its end, which engages with a double-ended reversely-threaded screw, E, by the revolution of which the clamps are moved in either direction. The slides D are beveled upon their parallel edges to give them a holding engagement with the clamp-guides, and the construction of these parts is not substantially different from that already known.

Formed integral with the forward bracket, B, are plates F, extending laterally therefrom, and having their straight edges in the same transverse line relatively to the foot-plate and adjacent to the forward end of the bracket. These edges are beveled off, as shown in Fig. 2, to fit the oppositely-beveled edges of the slides D.

The reference-letter G designates a metallic plate, co-extensive laterally with the plates F and parallel therewith. This plate G is connected with the plates F and with the bracket B by a central yoke-piece, I, cast or otherwise formed integral with said parts, and having a bifurcation, i, which receives the central portion of the screw E, thereby centering the latter and giving equal movement to the slides D. The edge of the plate G which lies adjacent to

the beveled edges of the plates F has an oppositely-inclined bevel, by which the slides are sustained.

Apertures *f* are formed in the plates F to receive the attaching-rivets, and similar apertures are formed in ears *a* upon the plate G and in lugs *b* upon the rear end of the bracket. By this construction the rivets, which are used to attach the clamp-guides, also hold the bracket, giving great strength and rigidity to all the parts.

A similar construction may be applied to the heel-bracket B', as shown in Fig. 3. In this bracket the clamp-guides F' are cast upon the sides of the bracket, in the manner already described in connection with Figs. 1 and 2. The parallel guide-plate G' is also formed in a manner very similar to the plate G, the principal difference being that the central portion of the plate is slightly raised to permit the end of the truss-brace L to pass beneath it, and that a boss, I', is formed upon the raised central portion to receive the tension screw N.

The plates G' are connected with the plates F' and with the bracket B' by means of integral central plates, I², in which may be formed a seat for the clamp-actuating screw, as shown. The guide-plates G and G' may be cast separately from the brackets; but this form of construction is shown, described, and claimed in a separate application.

The advantages resulting from my invention will be readily apparent. The clamp-guides are brought close up to and may, if desired, be brought partly under the bracket, thereby giving the roller-supports and the clamping-jaws their proper positions relatively to the foot of the wearer. The number of parts is diminished, saving at least two rivets at each end of the foot-plate, or eight rivets for each pair. This economy in time and labor is a material consideration in the expense of manufacture. By making the clamp-guides integral with the brackets great

strength, firmness, and durability are imparted to the several parts, as well as to the clamping-jaws. The parts may be made lighter, their appearance is improved, rattling and looseness of the skate upon the foot are avoided, and the skate is held much more firmly and rigidly than has been possible hitherto.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a roller or other skate, clamp guides for the slides carrying the clamping-jaws, said guides being formed integral with the bracket, substantially as specified.

2. In a roller or other skate, holding and guiding plates for the slides carrying the clamps, said plates being formed integral with the bracket or brackets and being drilled to receive rivets, whereby both bracket and plates are secured to the foot-plate, substantially as specified.

3. In a roller or other skate, the combination, with a bracket having clamp-guides formed integrally therewith, of a central yoke-piece integral with and connecting said guides, a screw-shaft centered in said yoke-piece, and slides engaging with the screw, substantially as specified.

4. In a roller or other skate, the combination, with a bracket having laterally-extending plates cast thereon and adapted to lie flat upon the under surface of the foot-plate, of a plate parallel therewith, a central portion integral with said plate and with the bracket, and a foot-plate, to which the structure is fastened by rivets passing through openings in said plates and through lugs upon the rear end of the bracket, substantially as specified.

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

JACOB VORE ROWLETT.

Witnesses:

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