

(No Model.)

G. A. RENTSCHLER.
CASTER.

No. 310,083.

Patented Dec. 30, 1884.

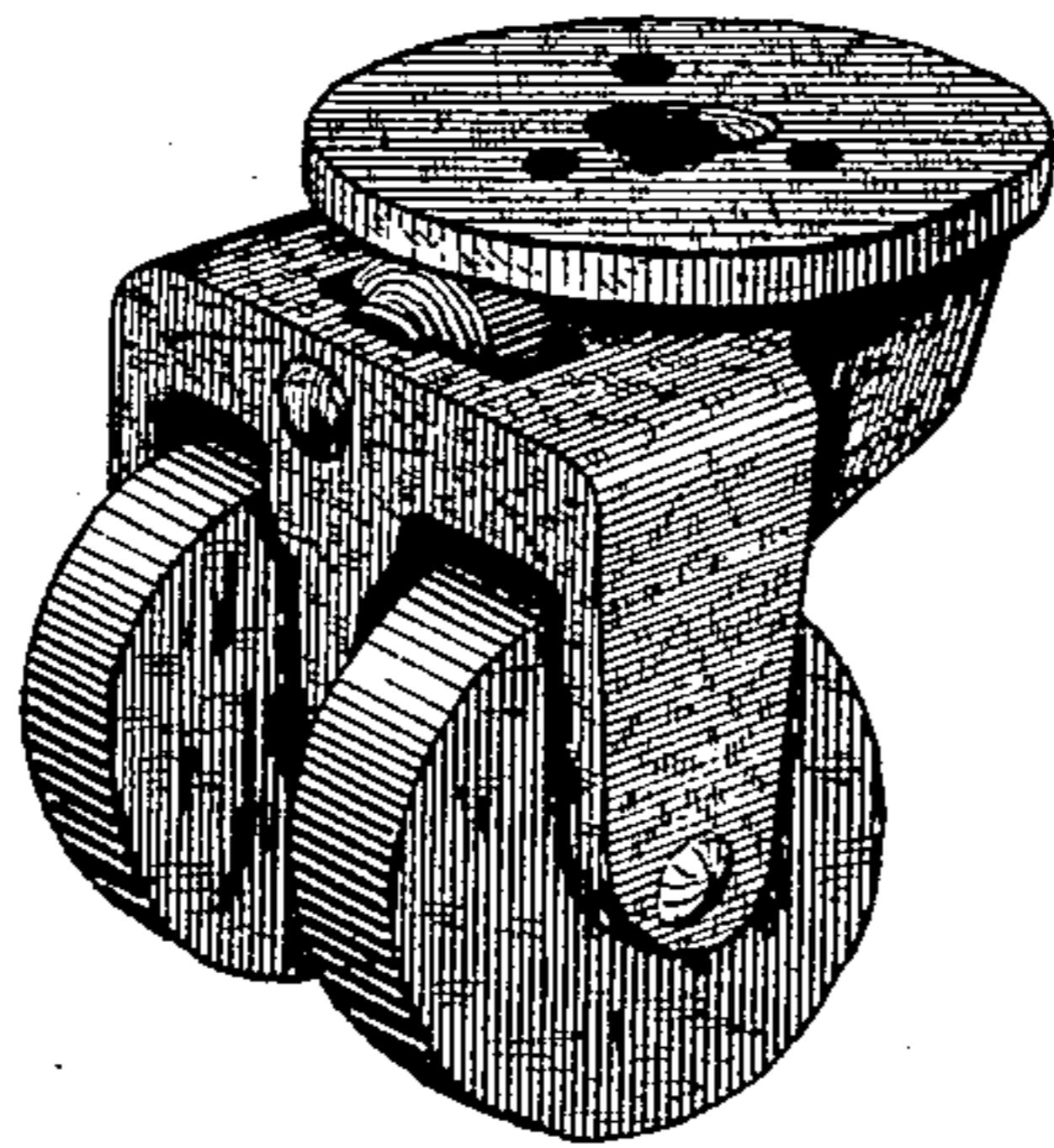


Fig 1

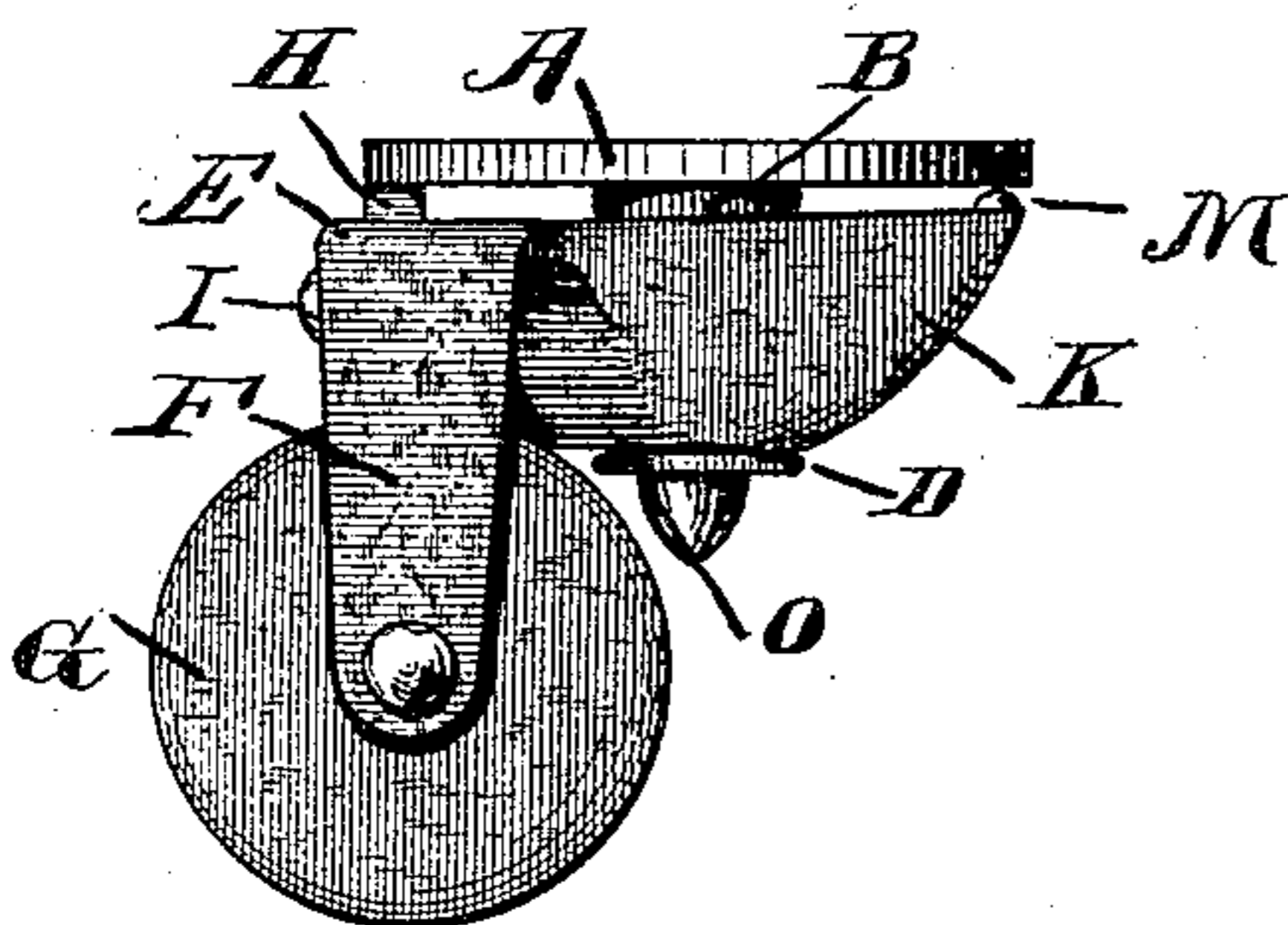


Fig 2

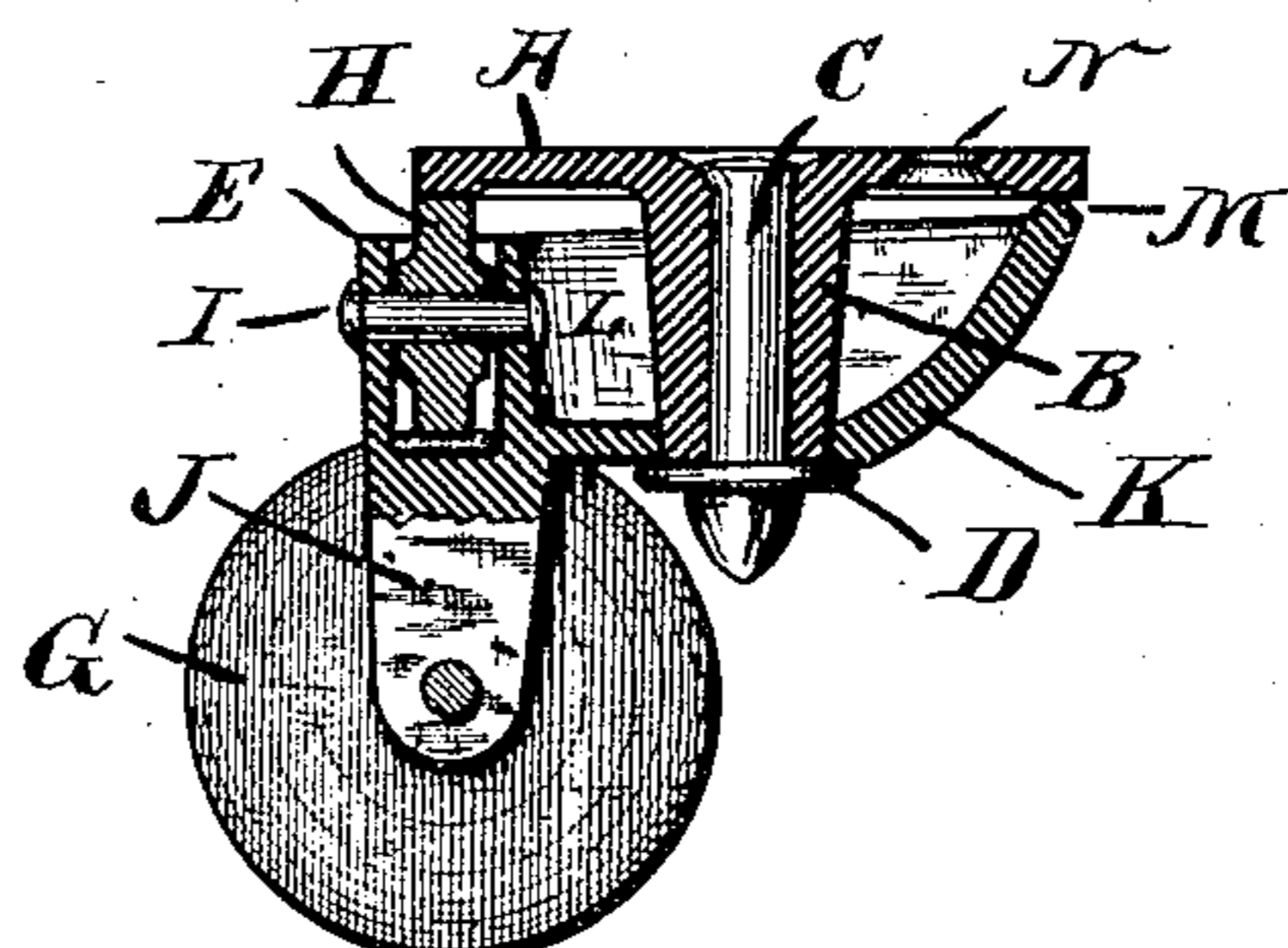


Fig 3

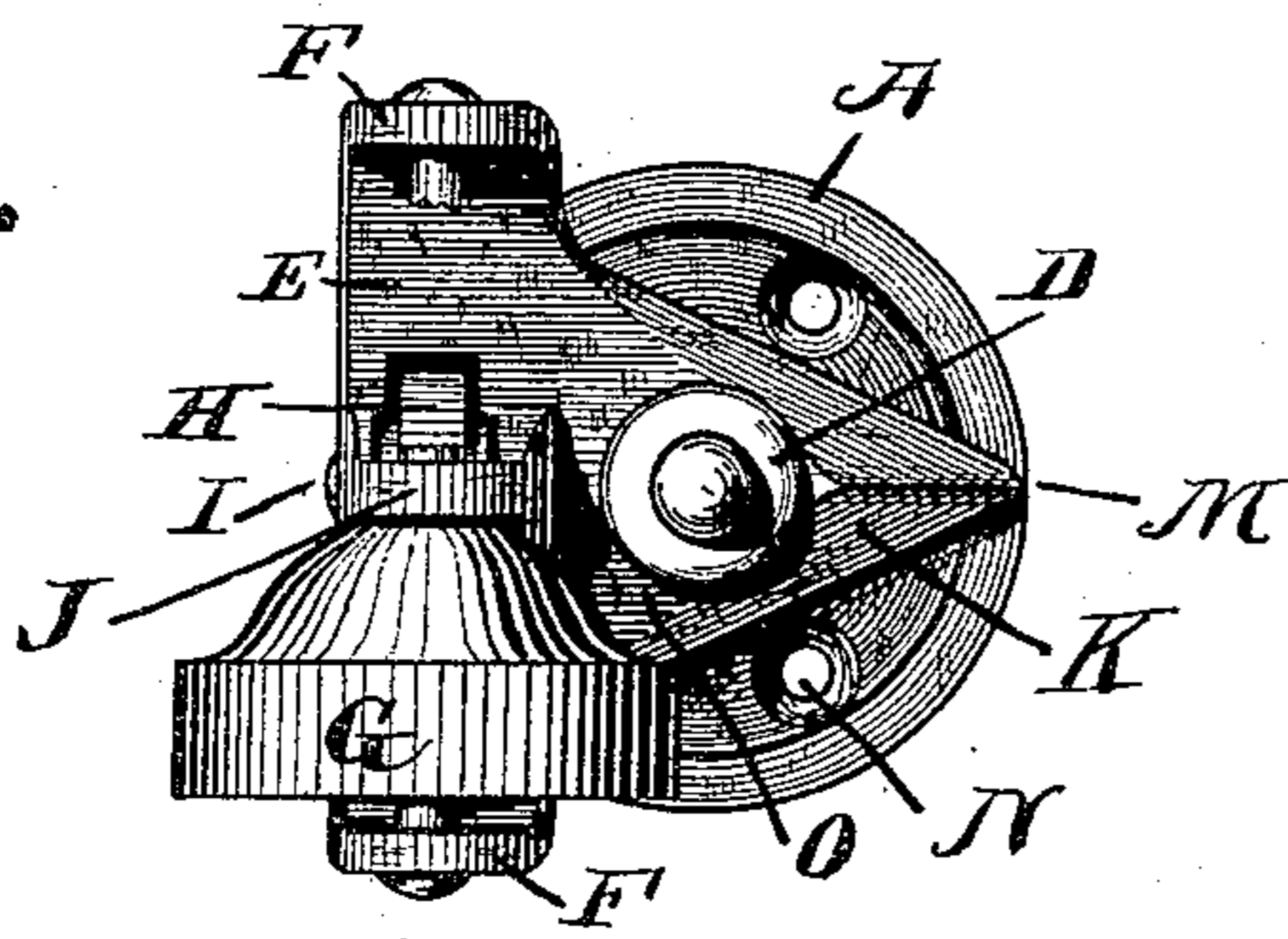


Fig 4

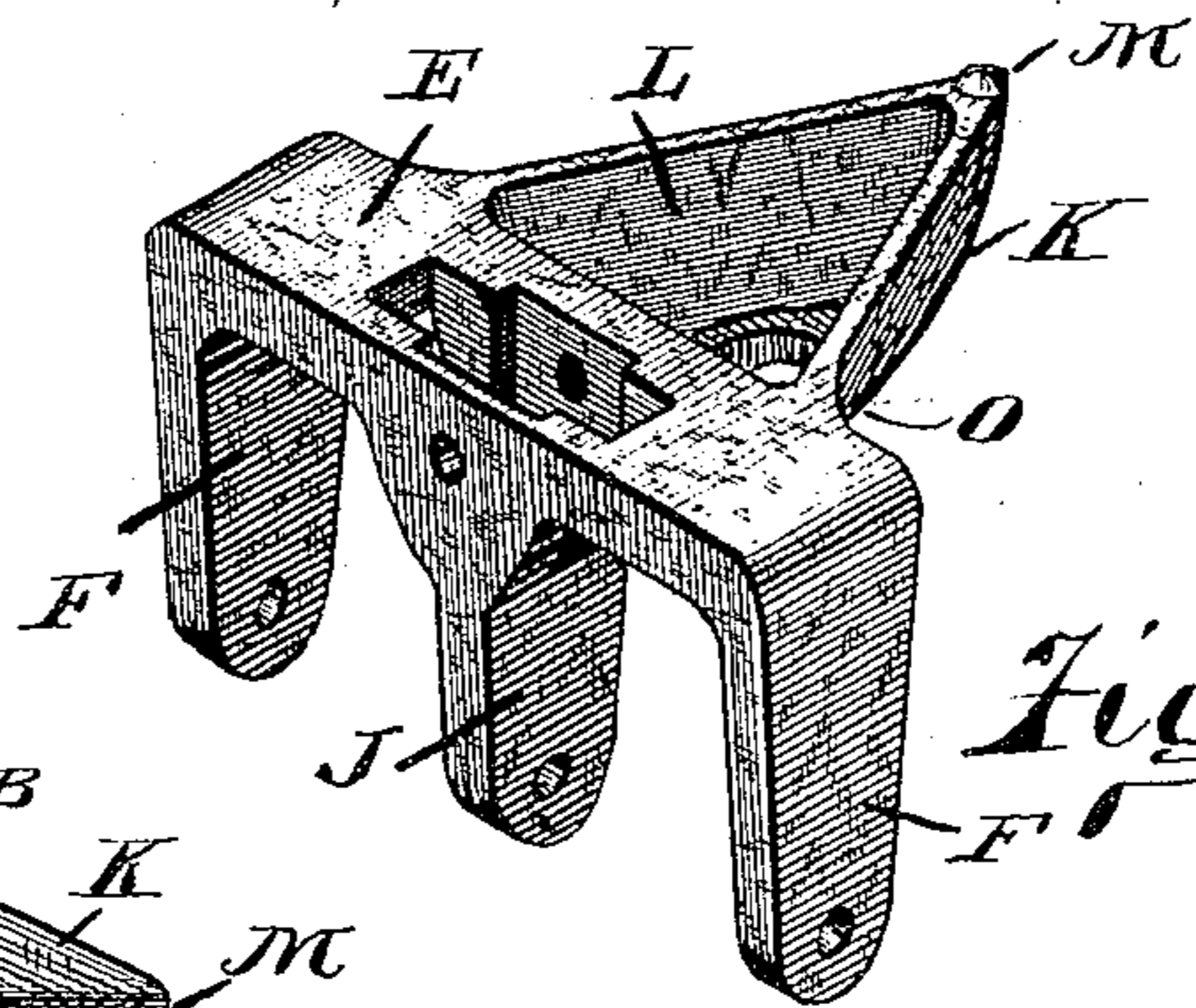


Fig 5

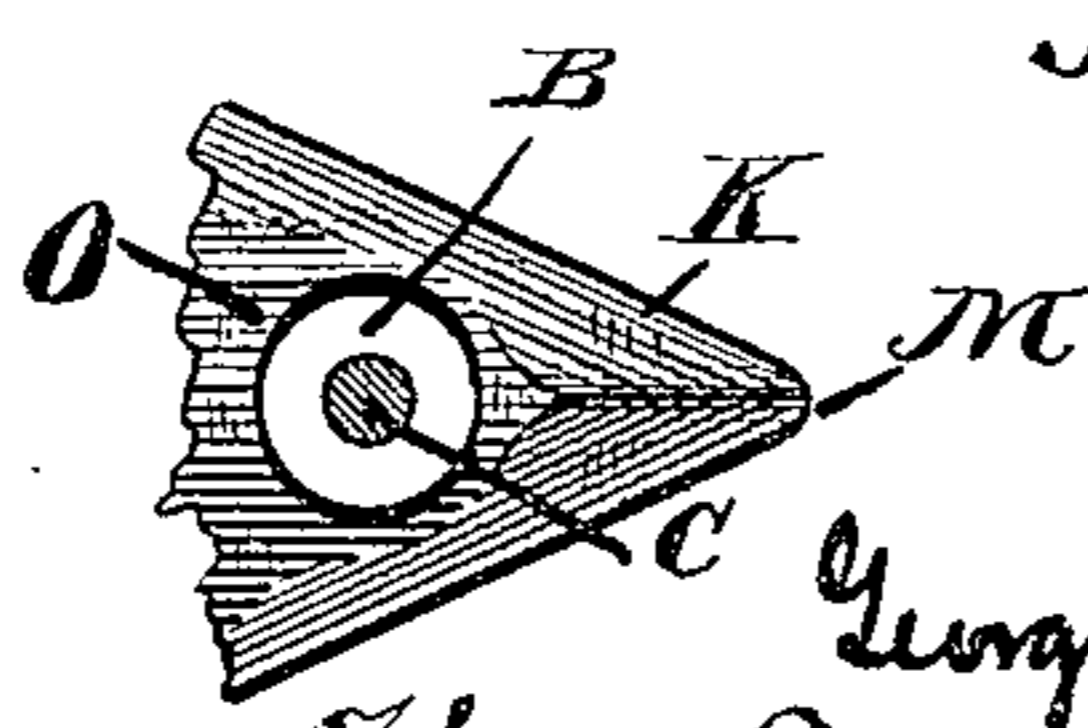


Fig 6

Witnesses:
W. A. Deward
John R. Wood

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UNITED STATES PATENT OFFICE.

GEORGE A. RENTSCHLER, OF HAMILTON, OHIO.

CASTER.

SPECIFICATION forming part of Letters Patent No. 310,083, dated December 30, 1884.

Application filed September 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. RENTSCHLER, of Hamilton, Butler county, Ohio, have invented certain new and useful Improvements in Casters, of which the following is a specification.

This invention relates to improvements in the construction of Martin's Patent Furniture-Caster, as set forth in Letters Patent No. 190,152, granted May 1, 1877, to A. C. Martin, of Hamilton, Ohio.

Reference is hereby made to the said patent, and the present improvements will be understood from the following description, taken in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of the Martin caster embodying my improvements; Fig. 2, a side view of the same; Fig. 3, a vertical section of the same; Fig. 4, a bottom view of the same, with one floor-wheel removed; Fig. 5, a perspective view of the housing, and Fig. 6 a bottom view of that portion of the housing engaging the plate-boss.

In the drawings, A represents a plate to attach to furniture and furnish a track for the pivoting-wheel; B, a hollow boss projecting downward therefrom; C, a rivet passing vertically through the boss and riveted at the top of the plate; D, a head upon the rivet, having a diameter greater than that of the lower end of the boss; E, the roof of the housing; F, the outer horns of the housing; G, the two floor-wheels; H, the pivot-wheel carried in the roof of the housing; I, the rivet on which the pivot-wheel turns; J, the central horn of the housing; K, a triangular cup reaching rearward from the housing; L, the inner cavity of the cup; M, a rocker-button on the upper rear extremity of the cup; N, screw-holes through the plate; O, the convex under surface of the cup, engaging above the head D of the rivet.

The pivot-wheel H serves, as set forth in the Martin patent referred to, as an anti-friction wheel while the caster is swiveling, and also as a pivotal element, as the housing oscillates with reference to the plate. The wheel

is set in a mortise in the roof of the housing, and its journal-pivot I is headed or riveted within the cavity of the cup. The cup is triangular, as seen in Fig. 4, its outlines clearing the circle-lines of the holes N in the plate, thus permitting the attaching-screws to be inserted without the necessity for removing the housing from the plate. The floor of the housing engages around the boss of the plate, and the housing-opening, which engages the boss, is somewhat elliptical, as seen in Fig. 6, so as to permit the oscillation of the housing with reference to the plate. The periphery of the pivot-wheel bears upon the under surface of the plate, and the rocker-button M bears upon the under surface of the plate at a point diametrically opposed to the bearing-point of the pivot-wheel. In practice the parts are so constructed that the button is not normally in contact with the plate, there being a trifling distance between them. When, however, the strain of backward draft is brought upon the caster, the button makes contact with the plate. The undersurface of the housing around the boss is convex, and permits the proper rocking upon the upper surface of the rivet-head as the housing oscillates. The rivet is put upward from below and riveted from above, thus securing the parts together in a manner not liable by bad workmanship to pinch the housing, and not liable to disengagement by use.

I claim as my invention—

The housing fitted with two floor-wheels and a pivot-wheel, and provided with a triangular cup having an elliptical opening and a convex lower surface, the plate A, having screw-holes N and hollow boss B, projecting downward and protruding through the elliptic opening of the housing, and the rivet C through the boss, riveted at the top of the plate and having a head of greater diameter than the lower end of the boss, all constructed and combined substantially as set forth.

GEORGE A. RENTSCHLER.

Witnesses:

W. A. SEWARD,
J. W. SEE.