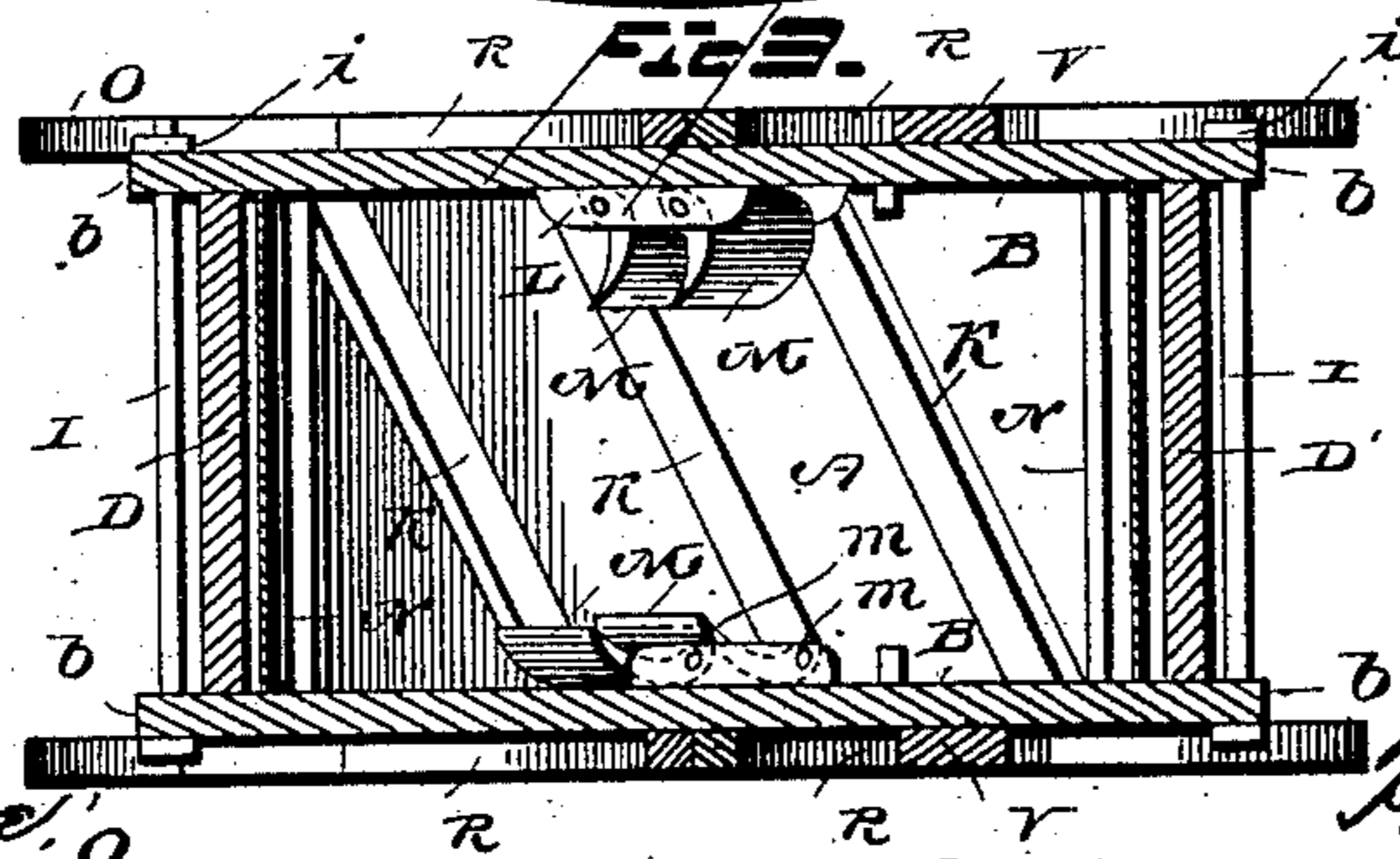
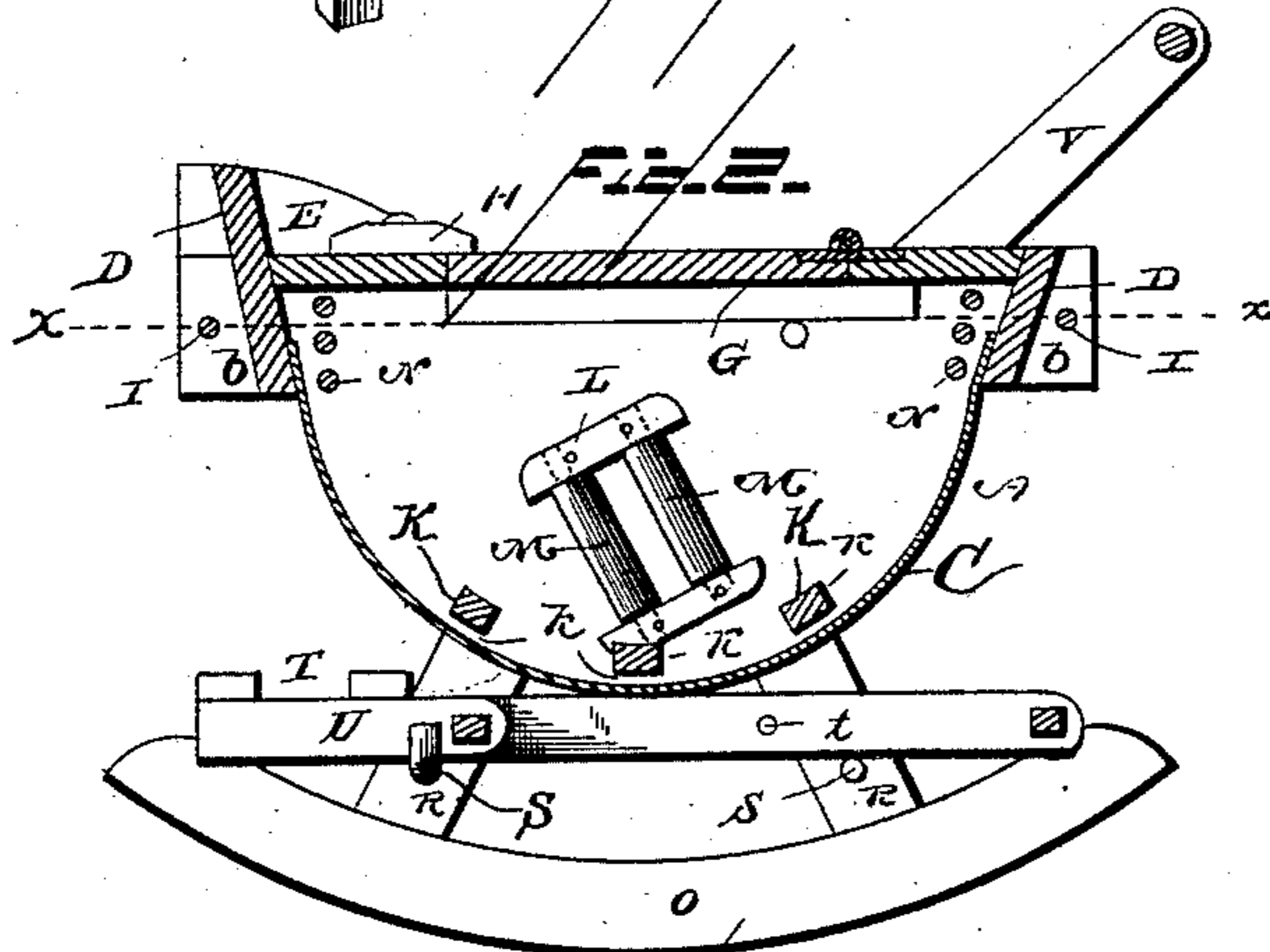
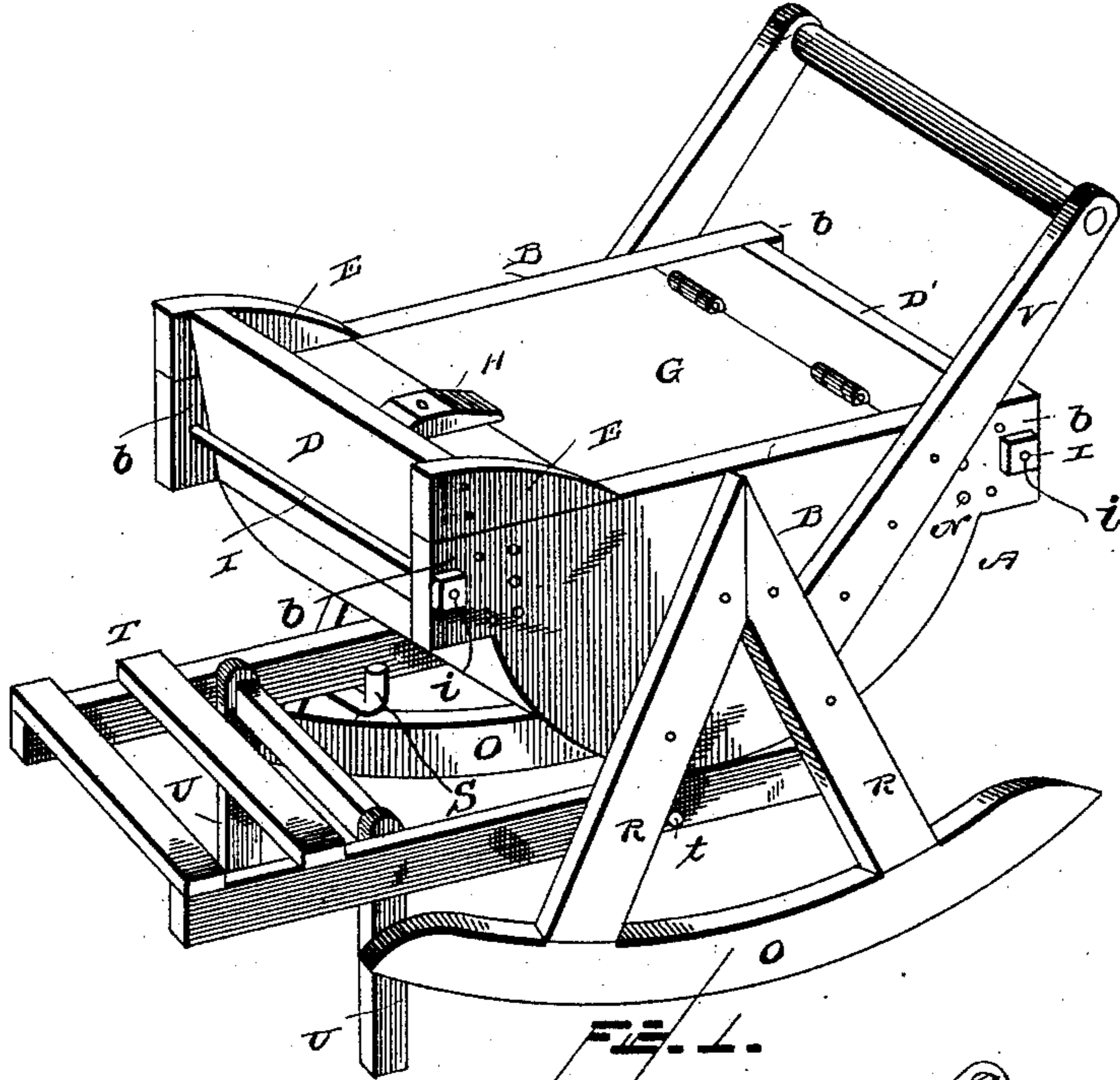


(No Model.)

T. F. WHITE.
WASHING MACHINE.

No. 360,498.

Patented Apr. 5, 1887.



Witnesses

John H. Siggers

Inventor

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By his Attorneys

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UNITED STATES PATENT OFFICE.

THOMAS F. WHITE, OF SALEM, KANSAS, ASSIGNOR OF ONE-HALF TO
EDWIN J. BARBER, OF SAME PLACE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 360,498, dated April 5, 1887.

Application filed February 25, 1886. Serial No. 193,223. (No model.)

To all whom it may concern:

Be it known that I, THOMAS F. WHITE, a citizen of the United States, residing at Salem, in the county of Jewell and State of Kansas, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in washing-machines; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a washing-machine embodying my improvement. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a horizontal section taken on the line *x x* of Fig. 2.

A represents the suds-box, which is semi-cylindrical in shape, and is composed of the sides B, having the projecting ends *b*, and the curved bottom C, which is made of sheet metal, and is secured to the lower curved portions of the sides. The projections *b* of the sides are connected together above the upper ends of the curved bottom by means of end boards, D and D', the former being somewhat higher than the latter, and that portion of it which extends above the upper sides of the suds-box having side cleats or flanges, E.

The top F of the suds-box is provided with a hinged cover, G, which is secured to the top by means of a button, H. Transverse bars I connect the outer ends of the projections *b* of the sides beyond the end boards, D and D', and the said rods have clamping-nuts *i* on their threaded ends, by means of which the sides of the suds-box are clamped firmly on the ends of the end boards.

K represents a series of rubbing-bars, which are arranged in the bottom of the suds-box and extend obliquely across the same and parallel with each other, spaces *k* being left between the lower sides of the said bars and the bottom of the suds-box for the free passage of the suds. On opposite sides of the suds-box, at the center thereof, are secured cleats L, one pair being secured on each side of the suds-box and arranged at an angle of about forty-five degrees thereon, the cleats on one side ex-

tending in an opposite direction from those on the other, and between the said cleats are pivoted the wings M. These wings are each provided on one side with a projection, *m*, and are so arranged that the valves on one side of the box may be folded in a line therewith by swinging them through a quarter of a circle in one direction, the wings on the opposite side of the box being folded against the side thereof by swinging them through a quarter of a circle in the opposite direction.

In the upper ends of the suds-box, at a suitable distance from the end boards, are arranged the series of transverse rods N, which prevent the clothes in the suds-box from striking against the end boards, and permit a free circulation of the suds in the ends of the box. The suds-box is mounted upon rockers O, having suitable standards, R, that diverge downwardly from the center of each side of the box, and the said standards have on their inner sides aligned projecting pins S.

T represents a rectangular frame, which is supported in a horizontal position between the standards and below the suds-box, and rests on the pins S, and may be moved back and forth thereon. This frame is provided with outwardly-extending stop-pins *t*, which strike against the inner sides of the standards and limit the movement of the frame, and the latter is provided, also, near one end with pivoted feet U, which are of sufficient length to reach the ground.

The usual handles, V, are secured to one end of the suds-box, by means of which the latter may be oscillated on its rockers. This movement of the suds-box causes the suds therein, as they flow back and forth in the box, to alternately open and close the oppositely diagonally-arranged pivoted valves M, one pair of the said valves obstructing the passage of the suds as they move toward one end of the box, and thereby diverging the current and closing the valves on the opposite side of the box, thus causing the suds to be forced transversely across the suds-box and through the garments, thoroughly cleansing them.

When the clothes are to be taken from the suds-box, the frame T is extended and the feet U thereof assume a vertical position, with their

lower ends bearing on the floor, and thus preventing the suds-box from rocking. When the frame T is moved in under the suds-box, the pivoted feet are engaged by the pins S, causing the said feet to fold upwardly in a horizontal position in one end of the frame.

Having thus described my invention, I claim—

1. An oscillating or rocking suds-box having pivoted wings on its sides arranged to alternately open and close with each movement of the suds in the box, for the purpose set forth, substantially as described.

2. The rocking or oscillating suds-box having the pivoted or hinged wings on opposite sides extending in opposite directions, and arranged to open and close alternately with each movement of the suds in the box, for the purpose set forth, substantially as described.

3. An oscillating or rocking suds-box having the diagonally-arranged bars K in the bottom and the pivoted or hinged wings M on opposite sides arranged to open and close alternately with each movement of the suds in the box, substantially as described.

4. The oscillating or rocking suds-box having the diagonally-arranged bars K in the bottom and the transverse bars N at the ends, and the pivoted or hinged wings on opposite sides arranged to open and close alternately with each movement of the suds in the box, for the purpose set forth, substantially as described.

5. The combination, with the washing-machine having the rockers, of the pivoted feet U, for the purpose set forth, substantially as described.

6. The combination, with the washing-machine having the rockers, of the movable frame T, having the pivoted feet U, for the purpose set forth, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THOMAS F. WHITE.

Witnesses:

E. J. BARBER,

L. P. BINTFIELD.