

(No Model.)

J. McCLURE.
WASHING MACHINE.

No. 338,671.

Patented Mar. 23, 1886.

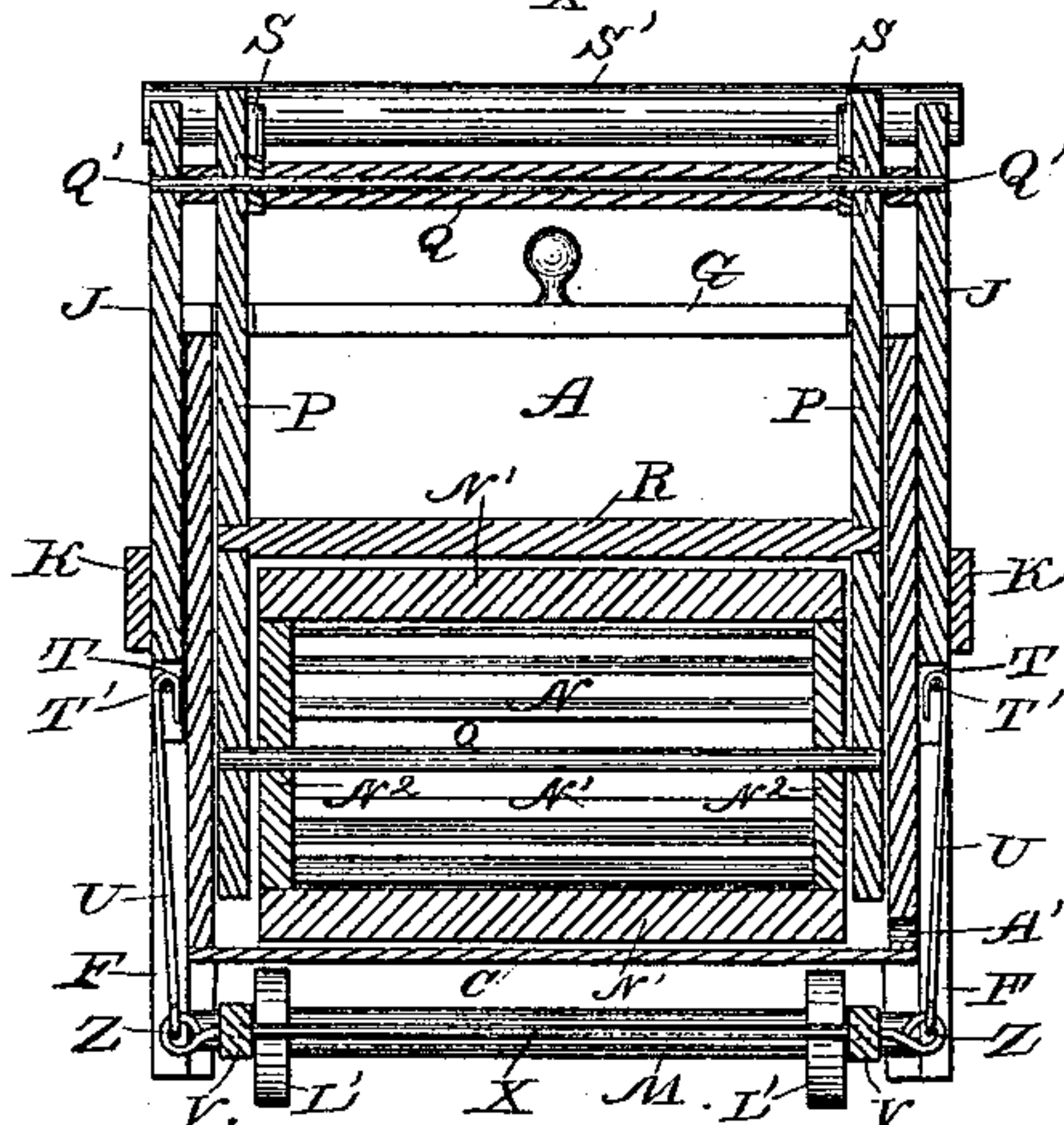
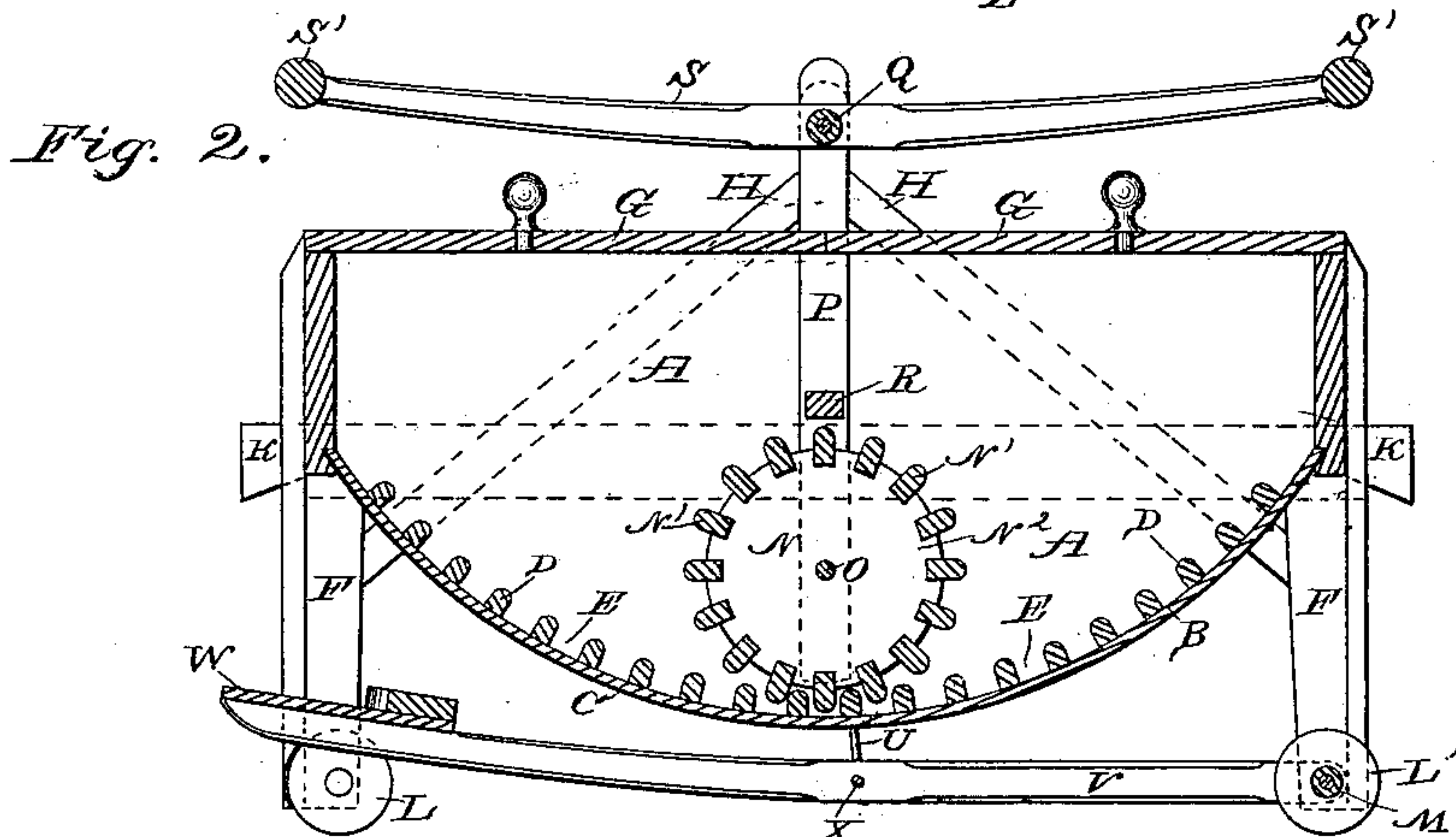
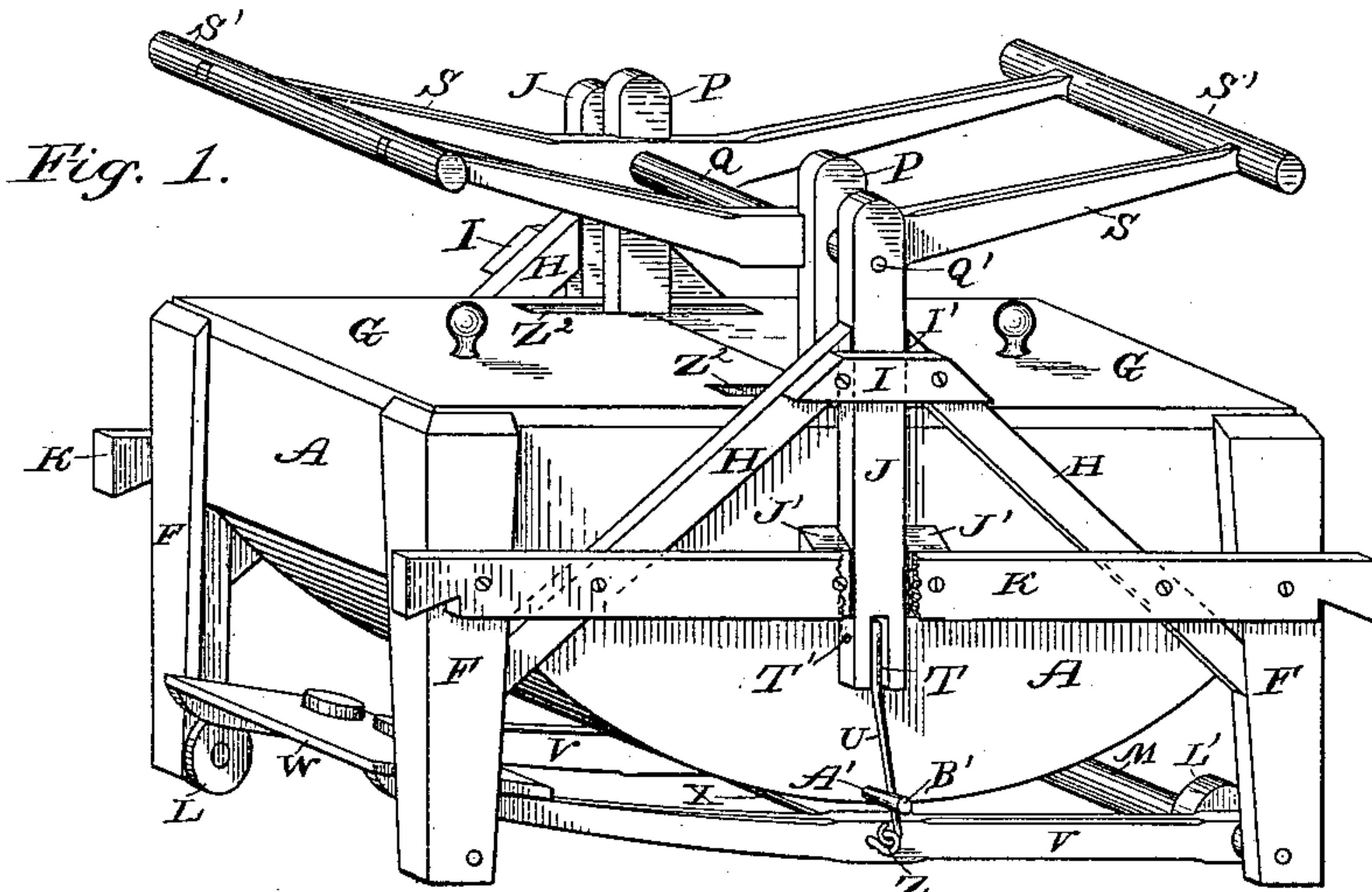


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN McCLURE, OF INDIAN GROVE, MISSOURI.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 338,671, dated March 23, 1886.

Application filed July 18, 1884. Serial No. 138,058. (No model.)

To all whom it may concern:

Be it known that I, JOHN McCLURE, a citizen of the United States, residing at Indian Grove, in the county of Chariton and State of Missouri, have invented a new and useful Washing-Machine, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to washing-machines; and the invention consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of a washing-machine embodying my improvements. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a transverse vertical sectional view.

Referring by letter to the accompanying drawings, A designates the suds-box, which has vertical sides and shallow vertical ends of wood, and a concave bottom, B, of galvanized sheet metal, bottom C, covered with transverse wooden slats D, let into notches in the convex edges of the side walls, suitable spaces, E, being left between the slats D. The suds-box A is provided with corner-legs F, which project slightly above the edges of the suds-box and form abutments for the corners of the two-part removable lid G. Upwardly-converging strips H H are secured to the inner edges of the legs F and to the sides of the suds-box, outside of the same, and project above the upper edges of the sides of the box, and are connected near their upper ends by short strips I I in such a manner as to form the upper guides, I', for the vertically-reciprocating arm J of the rubber-frame. The lower guides, J', for said arms J are secured to the sides of the suds-box and covered by the side rails, K K, which project at the ends of the suds-box and form the handles by which the machine is moved about on the wheels L L', two of which, L, are journaled to the legs, and L' are journaled on the transverse shaft M between the other two legs.

The rubber for this machine consists of a slat-roller, N, formed of transverse slats N', the ends of which are let into notches in the edges of two circular heads, N² N², on a shaft, O, journaled in the lower ends of vertical arms

P P, secured near their upper ends to a transverse oscillating shaft, Q, which is in turn journaled in openings Q' near the upper ends of the vertically-reciprocating arms J. Immediately above the roller-rubber N the vertical arms P P are connected by a transverse brace, R, which materially strengthens said arms. To the oscillating shaft Q and the vertical arms P P are secured two levers, S S, connected at their ends by cross-bars S', which form the handles by which the roller-rubber is oscillated and thereby caused to rotate upon the clothes in the box. The lower ends of the vertically-reciprocating arms J are bifurcated, as shown, and in these bifurcations T the upper ends of hook-rods U are pivoted or hinged by transverse bolts T'.

To the shaft M, between the lower ends of two of the legs F, are fulcrumed two levers, V V, which are connected at their power ends by a weighted foot-board, W. Near the middle portions of said levers V V a transverse rod, X, is passed through them, and this rod X is provided on its projecting ends with eyes Z Z, with which the lower ends of the hook-rods U engage, thereby forming a treadle of the levers V V and the weighted foot-board W. The two-part lid G has recesses Z² in the inner edges of the parts, two of which match the other two and form elongated slots in the lid, in which slots the vertical arms P P are reciprocated when the machine is operated.

At one side and at the middle of the concave bottom the suds-box is provided with a discharge-opening, A', which is closed by a plug, B'.

The operation of the machine is simple and effectual. The clothes are placed in the suds in the suds-box, and the hand-levers are operated to reciprocate the roller-rubber N, which is rotated upon the clothes and squeezes them upon the stationary rubber on the bottom of the box A. The weighted treadle imparts pressure in addition to that imparted by the hand-lever, and the dirt is squeezed out of the clothes by the action of the rotary reciprocating rubber N forcing the water through the clothes. The water can be wrung out of the clothes without removing them from the suds-box by withdrawing the plug and permitting the water to run out. Then by placing the foot upon the

foot-board of the treadle and bearing down and operating the roller-rubber N the operator may wring the water out of the clothes.

The dimensions of the machine may be varied to suit the purchasers.

The vertically-reciprocating arms J J permit the roller-rubber to accommodate itself to different quantities and kinds of clothing, from the coarser goods to the finer fabrics.

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

1. The combination, with the suds-box, of the roller-frame and roller, the converging strips H, connected near their upper ends, the side rails, K, and guides J', the arms J, to which the roller-frame is journaled, said arms sliding between the strips H and guides J', a treadle located beneath the suds-box, and rods 20 pivotally connecting the arms J and treadle, substantially as set forth.

2. In a washing-machine, the combination of the suds-box, a roller arranged therein and journaled in a suitable frame, vertically-sliding bars connected with said roller-support- 25 ing frame and bifurcated at their lower ends, inclined sidestrips, H, between which the bars slide, guide-blocks I J', secured, respectively, to the strips H and the suds-box, a treadle comprising two side bars pivoted at their forward ends to a cross-bar of the suds-box frame 30 and connected at their rear ends by a weighted foot-piece, and rods U, connected at one end to the bifurcated ends of the sliding bars and with staples on the pivoted levers, as set forth. 35

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

JOHN McCLURE.

Witnesses:

A. C. ENYEART,
B. F. CRAWLEY.