

J. Serrine,
Washing Machine.
No. 103671. Patented May 31. 1870.

Fig. 1.

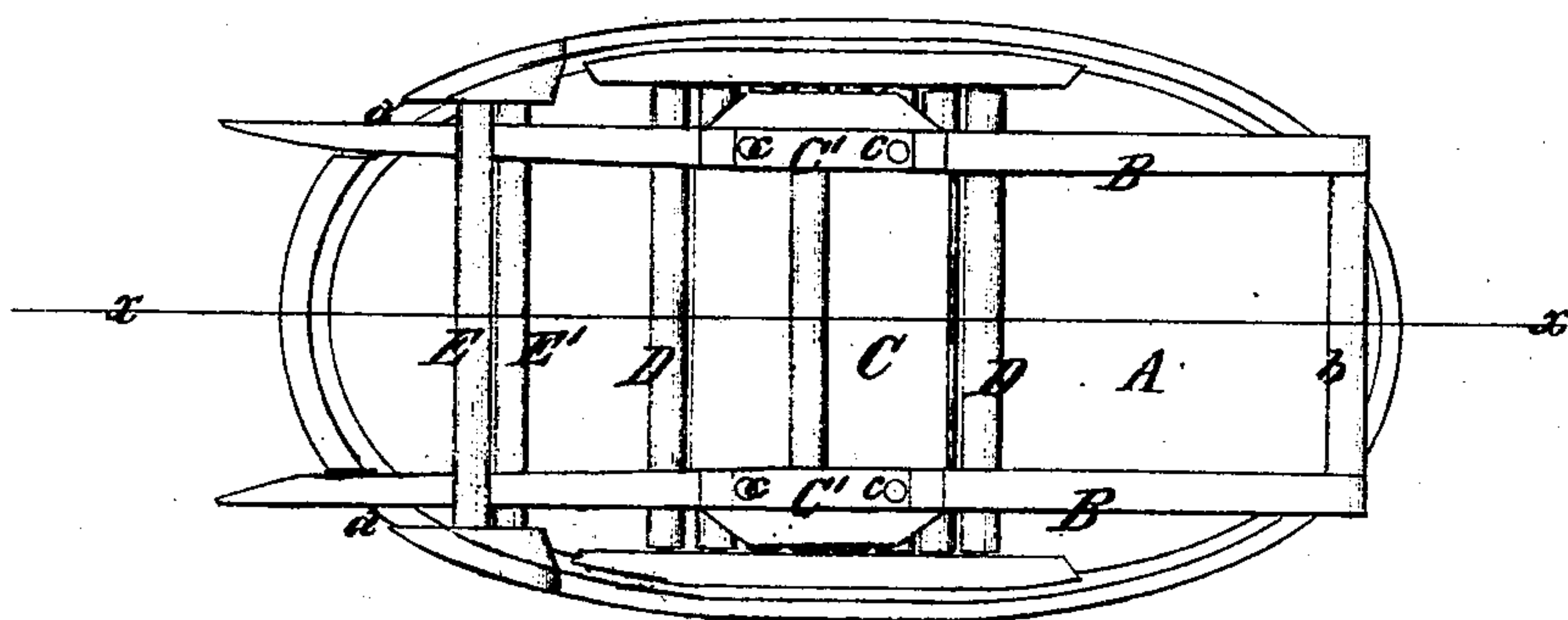
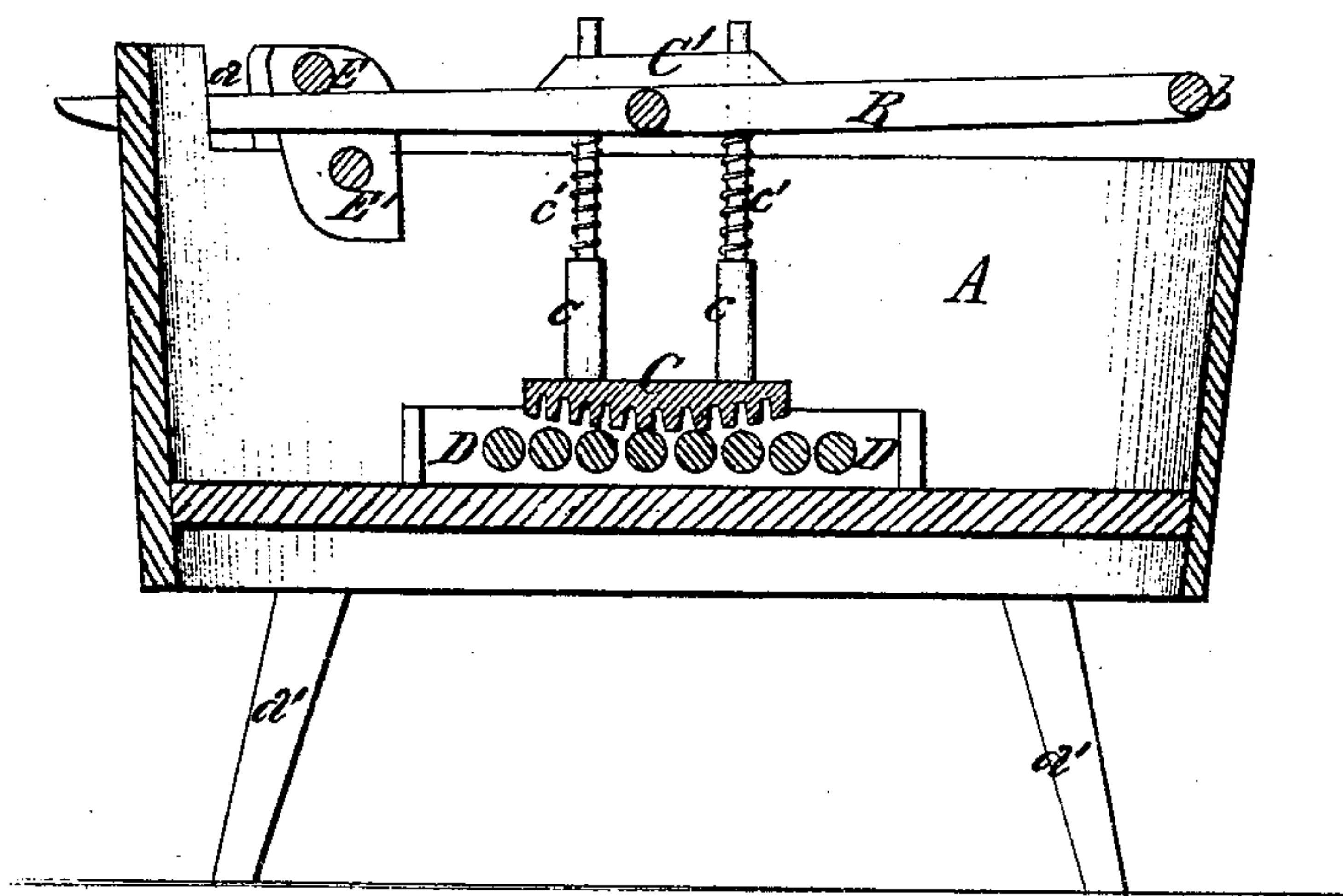


Fig. 2.



Witnesses.

J. Swenden Bell
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JOHN SIRRINE, OF TRUMANSBURG, NEW YORK.

Letters Patent No. 103,671, dated May 31, 1870.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JOHN SIRRINE, of Trumansburg, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing which makes part of this specification, and in which—

Figure 1 represents a plan or top view of my improved washing-machine, and

Figure 2 a vertical longitudinal section of the same, at the line *xx* of fig. 1.

The object of my invention is to provide a washing-machine of cheap and simple construction, which can be readily and effectively operated without damaging the clothes in the process of washing, to which ends my improvements consist in a wash-board connected by four posts to a sliding gate or frame, by which it is reciprocated over a series of bed-rollers, placed in the bottom of a suitably-constructed tub.

The gate moves in slots formed in the side of the tub, and bears at one end against suitable guide-rollers, which serve as fulcrum for the application of pressure to the clothes which are placed upon the bed-rollers, and spiral springs surrounding the posts of the wash-board, which move in holes in the gate, cause the wash-board to rise and fall according to the thickness of the clothes beneath it, thus enabling proper pressure to be applied to the same during the operation of the machine without danger of injuring them.

In the accompanying drawing, which shows a convenient arrangement of parts for carrying out the objects of my invention—

A represents an oblong or oval tub for the reception of the clothes to be washed, which is supported upon feet *a'*. A series of bed-rollers, D, is placed within and near the bottom of the tub A, journals being formed upon their ends which rotate in bearings on its sides.

C represents a corrugated wash-board, curved upon its lower side, which is moved longitudinally over the rollers D by means of a sliding gate or frame, B, which moves in slots, *a*, in the sides of the tub, near one of its ends, power being applied for that purpose to a cross-bar, *b*, at the opposite end of the gate.

Four posts or uprights, *c*, are secured to the wash-board C, which pass through holes in the side pieces

of the gate B, and are connected at each side by stationary caps *C'* above the gate, the posts *c* being free to move vertically in the holes through which they pass.

Each post is surrounded by a spiral spring, *c'*, which bears at its lower end against a shoulder or collar on the post, and at its upper end against the lower side of the gate. By this arrangement the wash-board is caused to rise and fall in proportion to the thickness of the clothes which are placed on the bed-rollers, whether the same is uniform or different at its different corners, so that the pressure necessary for washing the clothes can always be applied and maintained without danger of injuring the same.

The gate B moves between the upper and lower guide-rollers *E E'*, which rotate in bearings near that end of the tub in which the slots *a* are formed.

These rollers are placed at a sufficient distance apart to enable the angle of the gate with the tub to be varied in proportion to the thickness of the clothes upon the bed-rollers, and serve as fulcrum for the gate B, when the latter is moved, thus enabling the power to be effectively applied to the clothes, whether a greater or lesser quantity or thickness of the same is to be washed.

From the construction of my machine it will be seen that it is free from complication and of easy operation, and, by the application of the springs to the wash-board, in the manner described, the latter will always act effectively and safely upon the clothes beneath it.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent, is—

The posts *c*, provided with the spiral springs *c'*, cap *C'* and wash-board C, in combination with the rollers D, gate B and guide-rollers *E E'*, the whole constructed and operating as shown and for the purpose set forth.

In testimony that I claim the foregoing as my invention, I have hereunto set my hand and seal this 11th day of March, 1869.

JOHN SIRRINE. [L. s.]

Witnesses:

GEO. F. SPINK,
D. F. CHANDLER.