

T. Q. Frost.

Washing-Machine.

N^o 72281

Patented Dec. 17, 1867.

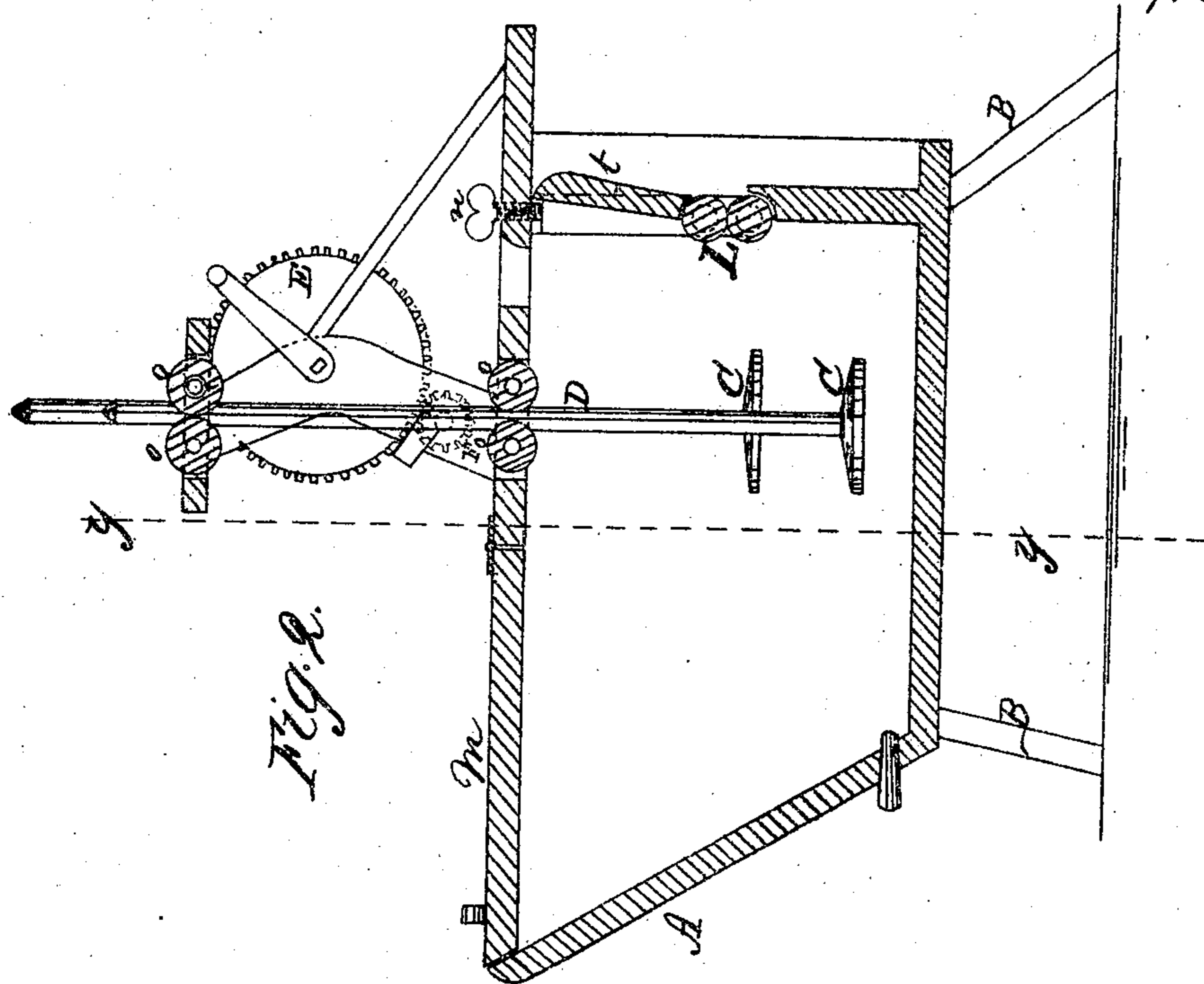


Fig. 2.

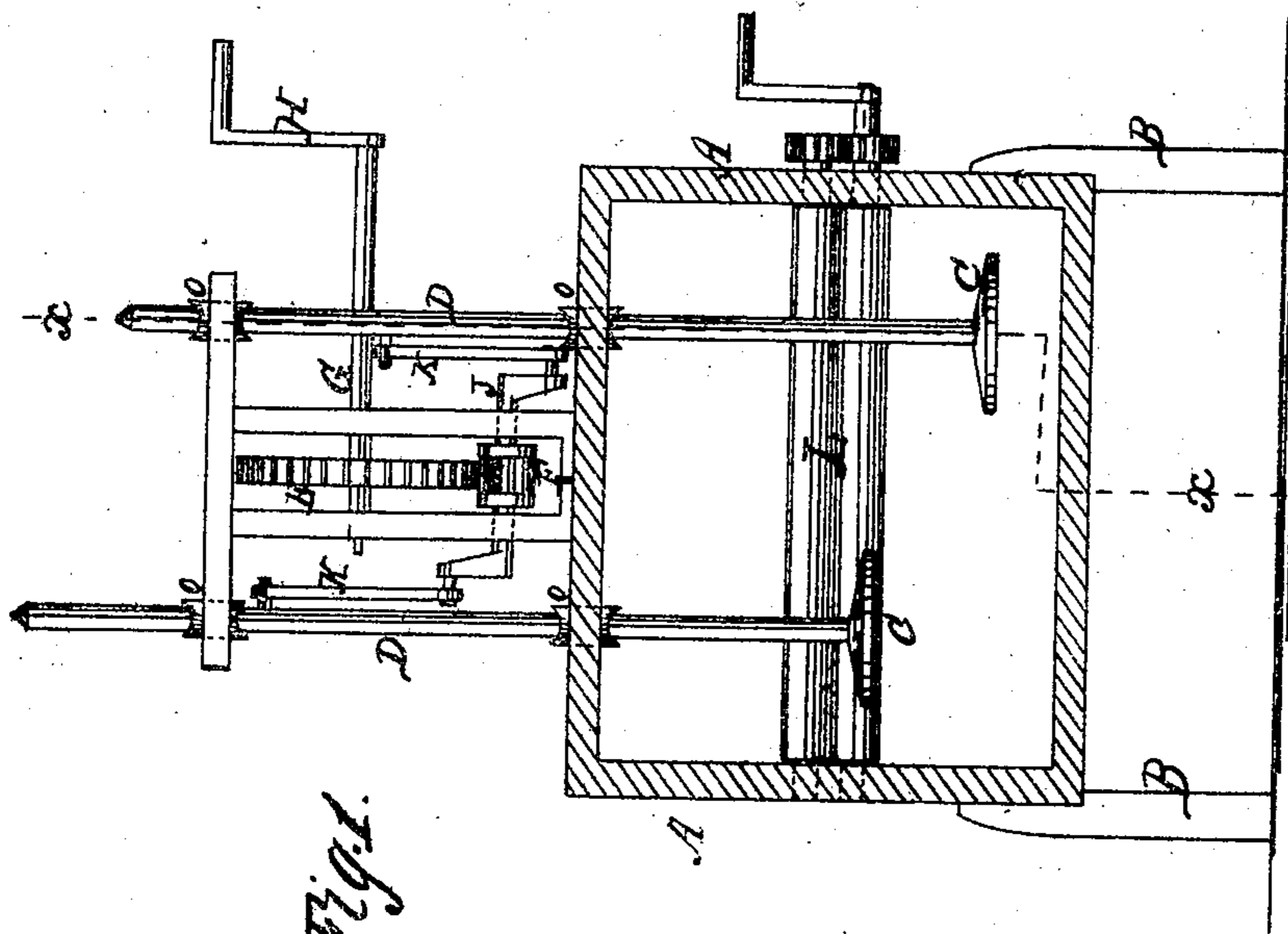


Fig. 1.

Witnesses.

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THOMAS Q. FROST, OF INDIAN RIVER, NEW YORK.

Letters Patent No. 72,281, dated December 17, 1867.

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, THOMAS Q. FROST, of Indian River, in the county of Lewis, and State of New York, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved machine for cleansing or purifying linen and other cloths, or articles of a similar nature, wool, cloth, and leather; and the invention consists in operating stampers or dashers within the washing-tub, and also in attaching to the tub rollers, which are made to act as a wringer for the clothes, and which form a part of the tub; and also in operating the rods of the dashers in friction-rolls, as will be hereinafter more fully described.

Figure 1 represents a vertical cross-section of the machine, through the line *y y* of fig. 2, showing the dashers, and the manner in which they are operated.

Figure 2 is a vertical longitudinal section through the line *x x* of fig. 1, giving a side view of the gearing by which the dashers are driven; also of the friction-rolls.

Similar letters of reference indicate corresponding parts.

A represents the tub, which is made of wood, and of any convenient form and size. It is raised on legs, marked B. C represents the dashers; D, the dasher-rods; E, the driving-gear wheel; F, the driving-pinion; G is the driving-shaft, with a crank; H is the crank, and J is the crank-shaft, which imparts motion to the dashers through the pitmen, marked K. L represents the rollers, which form a part of the side of the tub. M is the cover.

The cranks J being attached to the rods of the dashers by the pitmen K K, and being driven by revolving the main wheel E with the crank H, it will be seen that the dashers C will be given a rapid vertical reciprocating motion on the clothes.

The rollers L are placed in the back end of the machine, forming a part of the same, as seen in the drawing. They may be sufficiently elastic to allow the clothes to pass for wringing, and they may be also adjusted by screws at the end of the upper roller, as seen in the drawing at N. These rollers have gear-wheels upon them, as seen, through one of which wheels the shaft extends, with a crank on the end, by which the rollers are revolved.

O represents friction-rollers on top of the tub, and also on the frame which supports the rods. These rolls are placed in pairs. They are turned or grooved, so as to conform to the shape of the rods, and each rod passes up between two pairs, as seen in the drawing, thus preventing all friction in their movement up and down.

By this action of the dashers on the clothes, the clothes are readily cleansed, and in the most expeditious manner, while they are in no danger of being torn or injured during the process of washing.

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

The combination of the dashers C, rods D, gear-wheel E, pinion F, crank-shafts G & H, pitman K, grooved rollers O, and adjustable rollers L, as herein described for the purpose specified.

THOS. Q. FROST.

Witnesses:

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