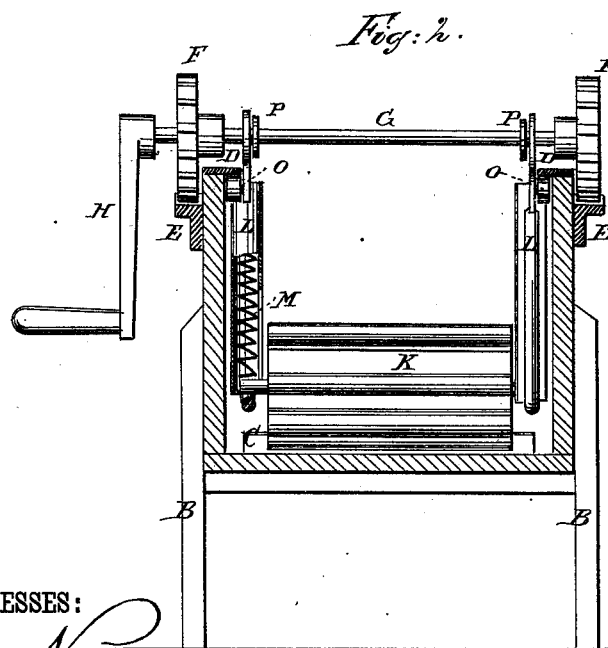
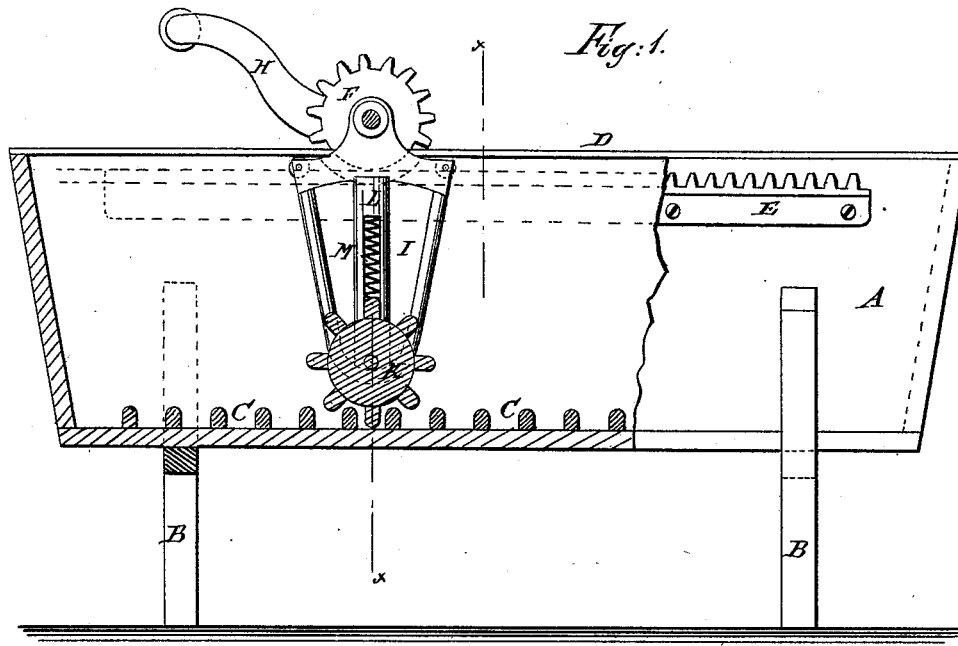


C. P. ROOD.  
Washing-Machine.

No. 213,941.

Patented April 1, 1879.



WITNESSES:

*Chas. Nida*  
*G. Sedgwick*

INVENTOR:

*C. P. Rood*  
BY *Munroe*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHARLES P. ROOD, OF LA FARGEVILLE, NEW YORK.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **213,941**, dated April 1, 1879; application filed December 26, 1878.

*To all whom it may concern:*

Be it known that I, CHARLES P. ROOD, of La Fargeville, in the county of Jefferson and State of New York, have invented a new and Improved Washing-Machine, of which the following is a specification:

Figure 1 is an upright view of the machine, partly in section. Fig. 2 is a cross-section through line *x x*.

Similar letters of reference indicate corresponding parts.

The invention consists of a rectangular tank, A, supported on legs B B, and having a fluted floor or bottom, as shown at C. On the upper edges of the tank-sides are strips or plates D D, wider than the thickness of the stuff forming the sides, and projecting inward over the sides, thus forming two flanges running the entire length of the tank. On the outside near the top are fastened, one on each side, two racks, E E, into which the cog-wheels F F engage. The cog-wheels are secured to shaft G, which receives motion from power applied to crank H. Pendent from the shaft are two triangular hangers, I I, that support and carry the fluted roller K.

In the slotted tubes L L, which form the central uprights of the hangers, are spiral springs M M, which form the upper bearings of the roller K, and permit it to rise and fall and adapt itself to the irregularities caused by the uneven thicknesses of the clothes over which it moves.

Attached to the shoulders of the hangers are friction-rollers O O, which traverse under the flanges at the top of the tank, and make the movement of the hangers easy.

The collars P P prevent lateral movement of the hangers on the shaft.

When power is applied to operate the machine, the cog-wheels, engaging in the racks, cause the hangers to traverse back and forth, carrying the fluted roller over the bottom of the tank.

The machine does its work principally by pressure of the roller upon the clothes, and if extra work is required at any particular point, the movement of the roller may be reversed, and it may be passed back and forth over the spot as often as necessary.

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

1. The fluted roller K and the triangular hangers I, provided with the springs M, inclosed in the central slotted tube, L, and with friction-rollers O, in combination with the shaft G of the driving mechanism, and with the plates D and the fluted bottom C of the tank A, substantially as and for the purpose described.

2. The combination, in a washing-machine, of the racks E, the cog-wheels F, the shaft G, the hangers I, and the fluted roller K with the tank A, having a fluted bottom, C, and plates D on the upper edges of its sides, substantially as and for the purpose described.

CHARLES P. ROOD.

Witnesses:

MILLARD C. BECKWITH,  
PHILIP BUSHNELL.