

C. P. REMINGTON.
Improvement in Washing Machines.

No. 124,083.

Patented Feb. 27, 1872.

Fig. 1.

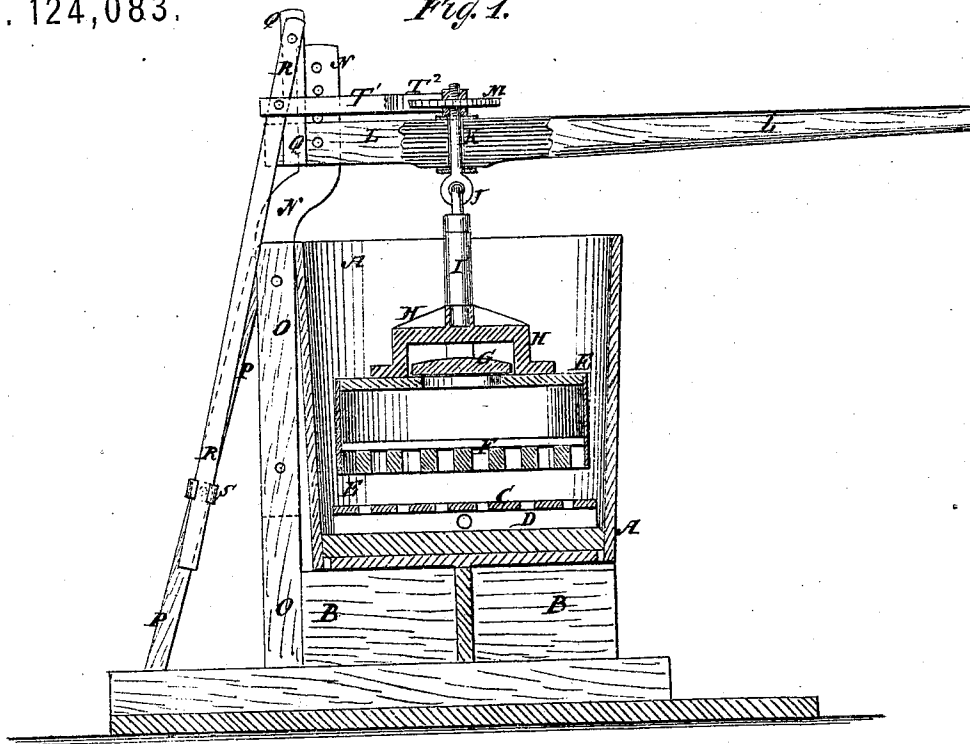
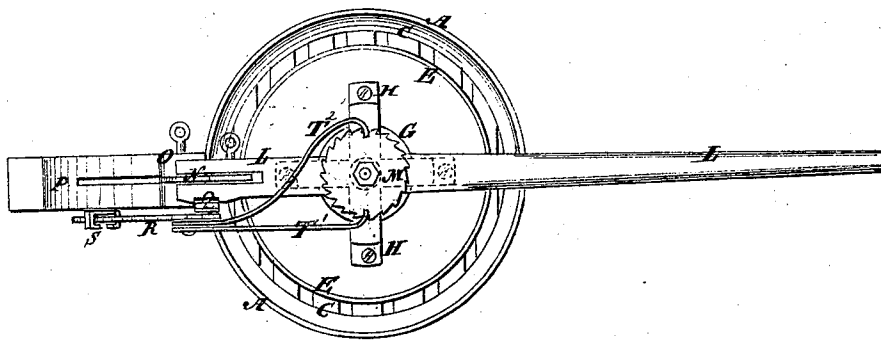


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 124,083, dated February 27, 1872.

Specification describing a new and useful Improvement in Washing-Machine, invented by CHAUNCEY P. REMINGTON, of Smith's Mills, in the county of Chautauqua and State of New York.

Figure 1 is a detail vertical section of my improved machine; Fig. 2 is a top view of the same.

My invention has for its object to improve the construction of my improved washing-machine, for which Letters Patent No. 115,105 were granted to me May 23, 1871, so as to make it more effective in operation; and it consists in the construction and combination of various parts of the machine as hereinafter more fully described.

A is the tub, which stands upon and is secured to a frame, B. In the bottom of the tub A is placed a rack or perforated false-bottom, C, which is supported at a little distance above the bottom of said tub by cross-bars D, to allow space for the suds below the clothes being operated upon. E is the plunger, which is made hollow, and with a rack or perforated bottom, F, to bear upon the clothes, and to allow the suds to pass through freely. In the middle part of the top of the plunger E F is formed a hole, which is closed with a drop-valve, G. The valve G is kept in place, and at the same time allowed to play up and down freely, by means of the four-armed casting or bracket H, which is secured to the top of the plunger E F, and which has a socket formed in its center, in which is secured the lower end of the upright or post I. To the upper end of the upright I is attached an eye-bolt, J, the eye of which interlocks with the eye of the eye-bolt K, which passes through and revolves freely in the lever L, and has a ratchet-wheel, M, rigidly attached to its upper end. The plunger E F is thus connected with the lever L by means of a knuckle-joint, so that it may move vertically while being raised and lowered by the pivoted lever L. The end of the lever L is pivoted to the upper end of an arm, N, by a pin which passes through the lever and arm, (several holes being formed in the said arm,) to receive the said pin, so that the pivoting-point of the lever may be adjusted as required. The lower part of the arm N passes

down into a slot in the post O, attached to the frame B, where it is secured in place by two pins.

By this construction, by removing the upper pin from the post O, the arm N may be swung back upon the lower pin, as a pivot, allowing the plunger E F to be raised out of and rested upon the edge of the tub A, so that the clothes may be conveniently put into and taken out of the tub without disconnecting or disarranging any of the parts of the apparatus.

The post O is strengthened by the brace P, the upper part of which is slotted to receive the arm N, when the plunger E F is raised out of the tub A. To the pivoted end of the lever L, a little in the rear of its pivoting point, is rigidly attached an upwardly-projecting arm, Q, to the upper end of which is pivoted the upper end of the bar R, the lower end of which passes through a guide, S, which is swiveled to the side of the brace P. To the side of the bar R, a little below its pivoted upper end, is pivoted the rear ends of two spring-pawls, T¹ T², the engaging ends of which take hold of the teeth of the ratchet-wheel M, upon the opposite sides of said ratchet-wheel.

By this construction, as the lever L is lowered to force the plunger E F down upon the clothes, one of the pawls, as T¹, will turn the wheel M, while the other pawl, T², slips over its teeth.

In the same way, when the lever L is raised to raise the plunger E F the pawl T² will turn the wheel M, while the other pawl T¹ slips over its teeth.

By this construction, as the plunger is raised the valve G will close, and the suction thus produced will loosen the clothes, and at the same time the partial revolution of the plunger will move them from their place. As the plunger descends its partial revolution will move the clothes further through the suds, and will then press them against the false bottom C with a turning-movement so as to slightly rub them, and thus hasten the operation of cleaning them.

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

1. The four-armed bracket or casting H, in

combination with the plunger E F, valve G, and upright I, substantially as herein shown and described, and for the purpose set forth.

2. The knuckle-joint J K, in combination with the upright I, of the plunger E F, and with the lever L, by which said plunger is operated, substantially as herein shown and described, and for the purpose set forth.

3. The combination of the rigid arm Q, piv-

oted sliding-bar R, swiveled-guide S, spring-pawls T¹ T², and ratchet-wheel M with the lever L, and upright I of the plunger E F, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:

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