

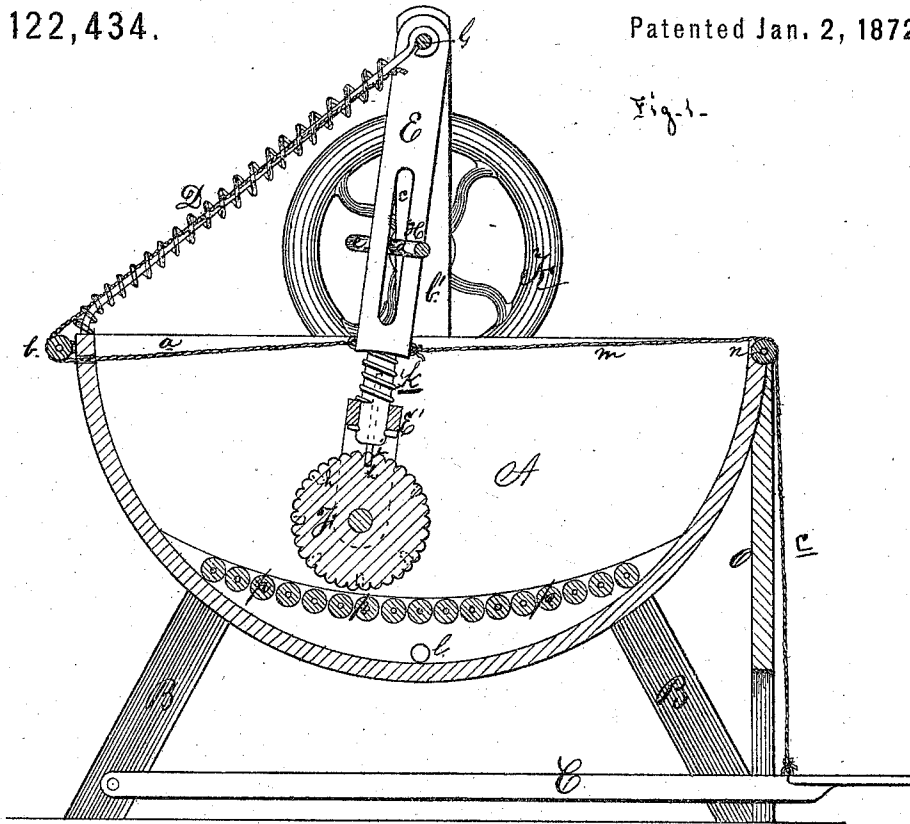
(16.)

C. B. BROADWELL.

Improvement in Washing Machines.

No. 122,434.

Patented Jan. 2, 1872.



WITNESSES.

H. A. Jenkins
E. M. Perry

INVENTOR.

C. B. Broadwell

UNITED STATES PATENT OFFICE.

CHARLES B. BROADWELL, OF NEW ORLEANS, LOUISIANA, ASSIGNOR OF
ONE-HALF HIS RIGHT TO PAUL COOK, OF SAME PLACE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 122,434, dated January 2, 1872.

Be it known that I, CHARLES B. BROADWELL, of the city of New Orleans and State of Louisiana, have invented a new, useful, and Improved Washing-Machine; and I hereby declare the following to be a full, clear, and exact description of my invention, when taken in connection with the drawing hereto annexed, whereon is amply illustrated all that I claim as pertaining thereto.

My improvement is of simple and economical construction, of very easy operation, and accomplishes in a very effectual manner the objects sought to be attained by it.

My invention consists of a semicircular box, A, conveniently placed upon the legs B, which are of height convenient for working. These legs may, if desired, be provided at their lower extremities with casters, and the box may also be provided with handles upon its sides, so that the machine may be moved from one place to another, like a wheelbarrow, with the greatest ease and facility, and when not in use the handles may drop to a vertical position and be out of the way. Beneath the said box A the treadle C for the operation of my device is placed. This operation is, moreover, further assisted by means of the spiral spring D, to the upper end of which is secured the cord *a*, which is made to pass under the pulley *b*, and finally to connect the oscillating frame E, to the lower arms of which is supposed the revolving washer or rubber wheel F. The frame E aforesaid is pivoted upon the cross-bar G, which latter is supported by the upright standards *b'*. These standards also support the double crank-shaft H, which is made to pass through the slot *c* made within the frame E. The cranks *d* and *e* are unequal to the end of securing a long or short stroke to the frame E, as may be convenient or desirable. The rubber roller F is perforated with a series of holes, *h*, into which the pin *i* may, at the pleasure of the operator, be inserted through the

frame E', whereby the said rubber F may be rigidly fixed and its revolutions prevented—a contingency exceedingly desirable where a more direct and forcible impingement against the clothing under treatment may be required. The frame E is furthermore provided at I with a spring, *k*, which allows of a free vertical adjustability of the rubber roller F, whereby it is enabled to accommodate itself to obstructions, such as heavy seams or buttons upon the clothing to be washed. Upon the extreme ends of the crank-shaft H are placed the fly-wheels K K', which, when in motion, materially assist the treadle by which the rubber frame is operated. The treadle, it will be perceived, is connected to the rubber frame by the cord *e* in passing over the pulley *n* upon the upright standard O. The foot applied to the treadle will impart a forward movement to the rubber frame E, while the spiral spring D aforesaid will, by reason of the tension thereupon exerted by the forward movement of the said rubber frame, effect the backward movement thereof, and when once in motion will operate with the greatest ease and facility. The bottom of the box A is provided with a series of rollers, *p*, as is usual with many machines of this class. It is furthermore provided with the stopper *l* for the purpose of withdrawing the dirty water or suds from the box when desired.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The frame E, rubber F having a series of perforations *h h*, and pin *i*, when the same are combined and arranged so as to operate substantially as described.

2. The crank H, frame E, springs D K, rollers F P, treadle C, and cord *e*, when the same are combined and arranged so as to operate substantially as described.

Witnesses: C. B. BROADWELL.

H. N. JENKINS,
E. H. LEVY.

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