

(No Model.)

J. & M. McCARTER.
WASHING MACHINE.

No. 421,959.

Patented Feb. 25, 1890.

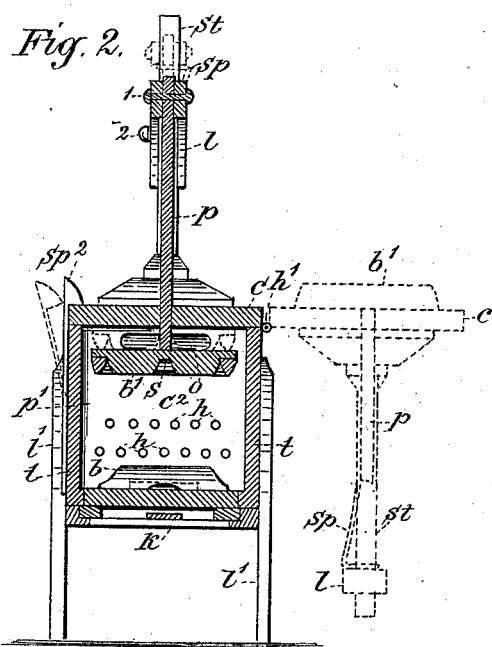
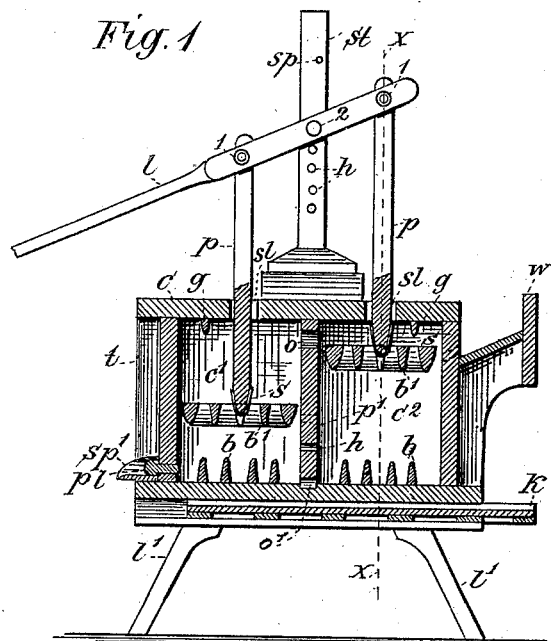


Fig. 3.

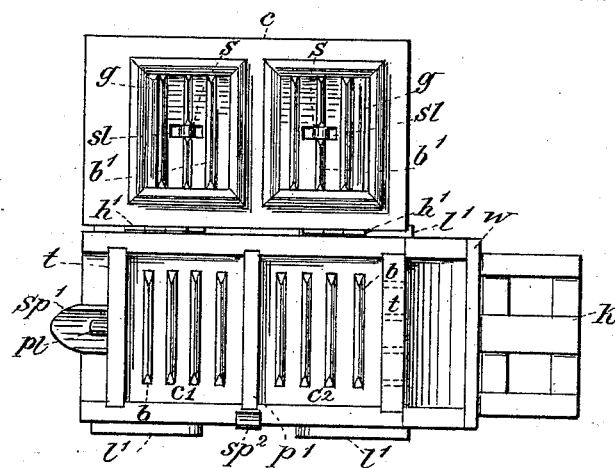
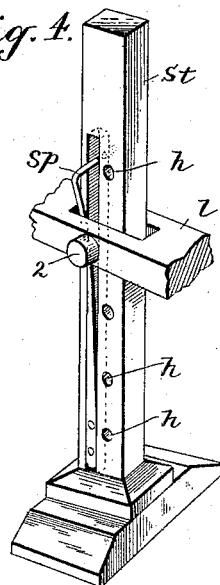


Fig. 4.



WITNESSES.

Gustav Bohn.
E. B. Griffith.

INVENTORS

James McCarter.
Milton McCarter.
By C. F. Jacobs
Atty.

UNITED STATES PATENT OFFICE.

JAMES McCARTER AND MILTON McCARTER, OF BOWERS, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 421,959, dated February 25, 1890.

Application filed September 7, 1889. Serial No. 323,296. (No model.)

To all whom it may concern:

Be it known that we, JAMES McCARTER and MILTON McCARTER, of Bowers, in the county of Montgomery and State of Indiana, have
5 invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which
10 like letters and figures refer to like parts.

Our invention relates to the construction of washing-machines, and will be understood from the following description.

In the drawings, Figure 1 is a horizontal
15 section of the tub, showing its interior arrangement. Fig. 2 is a cross-section on the line *x*, Fig. 1, the dotted lines indicating the position of the cover and plungers when
20 open. Fig. 3 is a top view of the tub. Fig. 4 is an enlarged detail view of the standard and spring with a part of the lever broken off, showing the manner in which the latter is connected to the standard.

In detail the device consists of a tub, which
25 is a rectangular box having a partition *p'* dividing it into two substantially equal parts. This partition has an opening near the top at *o*, which serves as a handle, the partition itself being movable in grooves formed in the
30 sides of the tub, as shown in Fig. 3. Near the center of the partition are two rows of holes *h*, one above the other, as shown in Fig. 2, and at the bottom is a longer rectangular opening *o'*. Upon the bottom of each com-
35 partment are fixed bars *b*.

p are plungers pivoted at 1 to a lever *l*, which is in turn adjustably pivoted at 2 to a standard *st*, fastened to the cover. At one side of this standard is a wire spring *sp*, which
40 serves to hold the plunger up when the lever *l* is passed over its top, in order to allow the cover to swing up, the cover itself being held in place by a spring-catch *sp*³ fastened to one side of the tub. These plungers move
45 alternately, as will be seen, as the lever *l* works on its pivot. To the lower end of each plunger a pounder is hinged by a strip having bars *b'*, and as these plungers move the pounders have an oscillating as well as an
50 up-and-down movement, due to their being hinged in the manner described.

g are guide-strips fastened on each side beneath the top to prevent the rubbers of the plungers from getting out of position when
55 thrown up.

On the right-hand side of the tub is fixed a box with a projecting side *w*, upon which the wringer is intended to be fastened, and holes are cut through the opposite side and
60 near the bottom of this box to allow the water to drain into the tub. On the opposite side, and at the bottom of the tub, is an outlet or spout *sp'*, closed by a plug *pl* to draw off the water when the washing is done. Beneath the tub is a rack moving in grooves
65 formed in the sides, and the whole structure is supported upon legs *l'*. It will be readily seen that when either of the plungers is down, or partly so, the tub cannot be opened, as the pounders connected to the plungers
70 would strike against the sides of the tub; but when the plungers are drawn up to their full height, as shown in Fig. 2, and the lever rests upon the spring *sp*, then the cover *c* may be swung over on its hinges *h'* and turned bot-
75 tom side upward in the position shown in the dotted lines in Fig. 2.

The device operates as follows: A sufficient amount of clothes being placed in each side of the tub, the plungers are adjusted to the
80 proper height by means of the removable pivot-pin 2, and by working the lever on this pivot the plungers alternately rise and fall, pressing and pounding the clothes, forcing the suds from one compartment into the other
85 through the openings *h* and *o'* and back again, the result being that the work is greatly facilitated by this operation, and when one plunger is raised the other is doing its work on the opposite side. The rack *k*, when drawn
90 out, serves as a resting place for the clothes and to permit them to drain before being hung upon the line.

What we claim as our invention, and desire to secure by Letters Patent, is the following: 95

A washing-machine comprising a tub divided into two compartments by a movable partition, openings through such partition at the top and near the bottom to permit the pas-
100 sage of the suds from one compartment to the other, oscillating pounders connected to rods passing through the top of each partition con-

5 nected to a lever above, such lever in turn pivoted to a standard connected at the top of the tub, and rubbing-bars formed on the bottom of each compartment corresponding in shape to the ribs of the pounders and set so that their edges will pass between the ribs of the pounders, all combined substantially as shown and described.

In witness whereof we have hereunto set our hands this 24th day of August, 1889.

JAMES McCARTER.
MILTON McCARTER.

Witnesses:

WM. BOWEN,
J. H. CLOUSER.