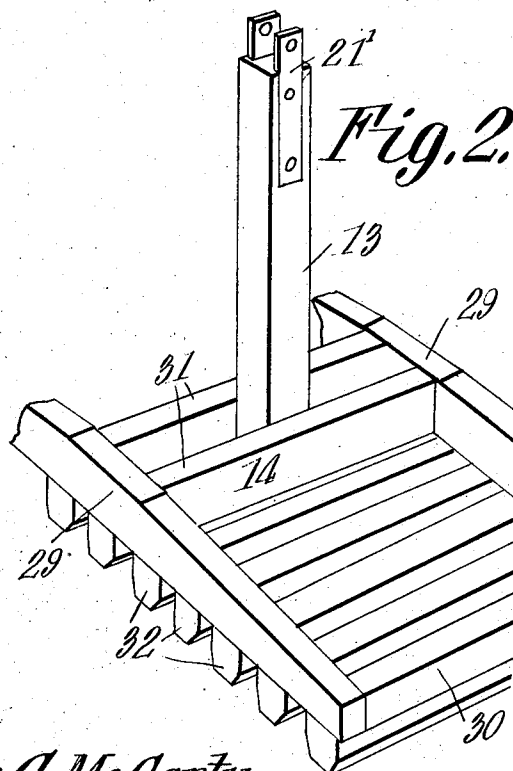


No. 893,088.

PATENTED JULY 14, 1908.

C. C. McCARTY.
WASHING MACHINE.
APPLICATION FILED MAR. 25, 1907.

2 SHEETS—SHEET 1.



No. 893,088.

PATENTED JULY 14, 1908.

C. C. McCARTY.
WASHING MACHINE.

APPLICATION FILED MAR. 25, 1907.

2 SHEETS—SHEET 2.

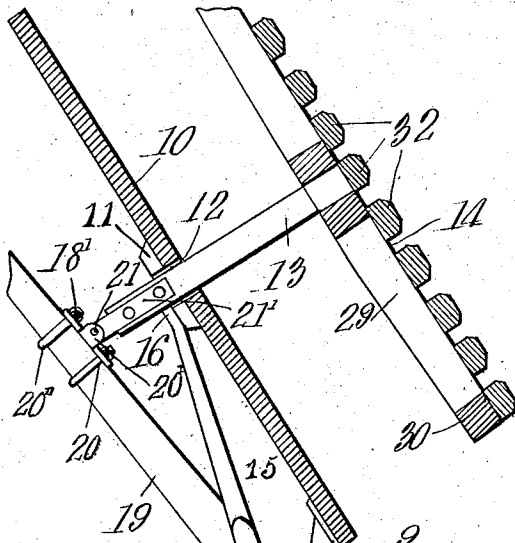


Fig. 4.

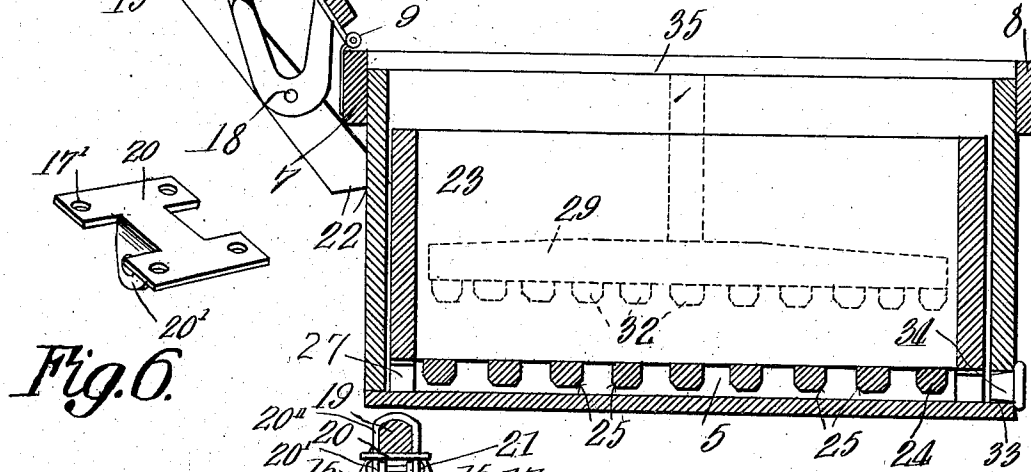


Fig. 5.

Fig. 6.

WITNESSES

E. W. Stewart
L. P. Miller

Cyrus C. McCarty,
INVENTOR.

By *C. A. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

CYRUS C. McCARTY, OF IOLA, KANSAS, ASSIGNOR OF ONE-HALF TO DWIGHT B. McCARTY, OF IOLA, KANSAS.

WASHING-MACHINE.

No. 893,088.

Specification of Letters Patent.

Patented July 14, 1908.

Application filed March 25, 1907. Serial No. 364,324.

To all whom it may concern:

Be it known that I, CYRUS C. McCARTY, a citizen of the United States, residing at Iola, in the county of Allen and State of Kansas, have invented a new and useful Washing-Machine, of which the following is a specification.

This invention relates to washing machines and has for its object to provide a comparatively simple and inexpensive machine of this character by means of which the clothes may be thoroughly washed without danger of tearing or otherwise injuring the same.

A further object of the invention is to provide a liquid containing receptacle including a pivoted cover or closure having an operating lever pivotally mounted thereon and carrying a vertically movable follower so that by elevating the lever the follower may be withdrawn from the receptacle and the cover simultaneously moved to open position thereby to expose the contents of said receptacle.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a perspective view of a washing machine constructed in accordance with my invention. Fig. 2 is a perspective view of a portion of the follower or plunger detached. Fig. 3 is a similar view of a portion of the inner receptacle or clothes supporting tray. Fig. 4 is a longitudinal sectional view showing the follower and cover in elevated position. Fig. 5 is a transverse sectional view of Fig. 1. Fig. 6 is a perspective view of the lever engaging bracket detached.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The machine forming the subject matter of the present invention includes a liquid containing receptacle 5 preferably rectangular in shape, as shown, and provided with depending supporting legs 6 connected at their

upper ends by transverse reinforcing cleats 7 and 8.

Pivotally connected with the cleat 7 in any suitable manner as by hinges 9 is a laterally movable cover or closure 10 having its intermediate portion reinforced and strengthened by a transverse bar 11, the latter being formed with a rectangular opening 12 for the reception of the stem 13 of a vertically movable follower or plunger 14.

Secured to the upper face of the closure 10 are spaced bars 15 each having one end thereof bolted or otherwise rigidly secured to the transverse bar 11 and its opposite end extended upwardly and rearwardly in spaced relation and thence bent laterally to form attaching ears 16 for engagement with the cover 10, said ears being rigidly secured thereto in any suitable manner as by screws or similar fastening devices 17.

Pivotally mounted at 18 between the spaced bars 15 is an operating lever 19 an intermediate portion of which is provided with a bracket 20 having spaced depending perforated ears 20' which are pivotally connected at 21 to a pair of reinforcing plates 21' carried by the rod or stem 13 of the follower.

The plates 20 are embedded in correspondingly shaped grooves formed in the adjacent longitudinal edges of the rod 13 thereby to assist in reinforcing and strengthening the stem 13 while the bracket 20 is detachably secured in position on the lever 19 by means of clips 20'' which embrace the lever and are provided with threaded terminals passing through openings 17' in the top of the bracket for engagement with clamping nuts 18'.

One end of the lever 19 is extended longitudinally beyond the pivot 18 and provided with an inclined face 22 adapted to bear against the rear wall of the receptacle 5 when the cover is moved to open position and thus receive the weight of the cover and follower so as to prevent undue strain on the hinges 9.

Attention is called to the fact that when the lever is moved to inoperative position the adjacent longitudinal edge thereof will bear against the lower face of the cleat 7 and thus assist in supporting the lever and its associated parts.

It will also be observed that when the cover and plunger are in elevated or inoperative position the water from the follower and cover will drain into the receptacle 5.

Disposed within the receptacle 5 and preferably spaced from the side and end walls thereof is a clothes receiving tray or receptacle 23 having its bottom formed by a plurality of spaced transverse slats 24 the lower edges of which are preferably inclined or beveled at 25 so as to assist in deflecting the water and guiding the latter upwardly through the space between the slats when the follower is operated. The slats 24 preferably terminate short of the opposite ends of the tray or receptacle 22 to form seating recesses 26 for the reception of suitable springs 27.

The springs 27 are each preferably formed of a single piece of flat metal having its central portion bowed laterally and secured to the adjacent end wall of the receptacle and its opposite ends deflected laterally to form terminal arms 28 adapted to bear against the bottom of the receptacle 5 and normally and yieldably support the slats in elevated position above the bottom of the receptacle so as to permit free circulation of water beneath the tray.

The follower 14 is preferably formed of spaced longitudinal bars 29 connected by transverse end bars 30 and spaced intermediate bars 31 between which is rigidly secured the lower end of the rod or stem 13, said longitudinal bars 29 being also connected by a plurality of slats or transverse bars 32 which form the bottom of the plunger and permit the liquid to pass upwardly through the plunger when a downward pressure is exerted on the operating lever.

A suitable drain opening 33 is preferably formed in the front wall of the receptacle to permit the water to be removed from the latter when desired, said opening being normally closed by a removable plug or closure 34. The inner receptacle preferably terminates short of the upper edge of the outer receptacle, and formed in the upper edge of the outer receptacle is a marginal seating groove 35 adapted to receive the pivoted closure 10 when the latter is moved to closed position.

In operation the clothes are introduced in the inner receptacle or tray 23 after which the water is poured into the outer receptacle and the lever 19 depressed.

When the lever comes in contact with the clothes in the receptacle 23 it will force the clothes together with the inner receptacle or tray downwardly against the tension of the springs 27 and in contact with the bottom of the outer receptacle 5 thus displacing the water beneath the inner receptacle and causing the latter to flow upwardly between the spaces formed by the slats 24 and also between the end and side walls of the inner and outer receptacle.

On the upward movement of the lever the

springs 27 will expand so as to elevate the slats 24 above the bottom of the liquid containing receptacle 5 thus causing the water in the top of the inner receptacle 23 to pass downwardly through the clothes and perforated bottom of the plunger to the bottom of the outer receptacle, the above operation being continued until the clothes are thoroughly washed or cleaned.

In order to remove the clothes it is merely necessary to move the operating lever 19 upwardly and laterally until the inclined end 22 of said lever bears against the rear wall of the receptacle and in which position the water on the follower and cover will drain into the outer receptacle 5.

It will here be noted that one end of each bar 15 is secured to the pivoted end of the cover 10 while the opposite end thereof is secured to the transverse bar 11 at the stem receiving opening thus serving as a brace for the cover section when the latter is in closed position and also assisting to sustain the weight of said cover when the latter is in open position.

From the foregoing description it is thought that the construction and operation of the device will be readily understood by those skilled in the art and further description thereof is deemed unnecessary.

Having thus described the invention what is claimed is:

A washing machine including a liquid containing receptacle, a transverse cleat secured to one of the end walls of the receptacle, a cover pivotally mounted on said cleat, a transverse bar secured to the top of the cover and having an opening formed therein, spaced supporting bars each having one end thereof secured to the transverse bar adjacent the opening therein and their opposite ends secured to the pivoted end of the cover, a follower mounted for vertical movement within the receptacle and provided with a stem extending through the opening in the transverse bar, a lever pivotally mounted between the supports and operatively connected with the follower, the pivoted end of the lever being extended longitudinally beyond its pivot and provided with an inclined face adapted to engage the adjacent wall of the receptacle with its lower longitudinal face bearing against the transverse cleat for supporting the cover and follower in inoperative position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CYRUS C. McCARTY.

Witnesses:

J. H. HENDERSON,
GEORGE S. STRATTON.