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W. H. PAULSON.
CAN WASHING MACHINE.
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1,446,579.

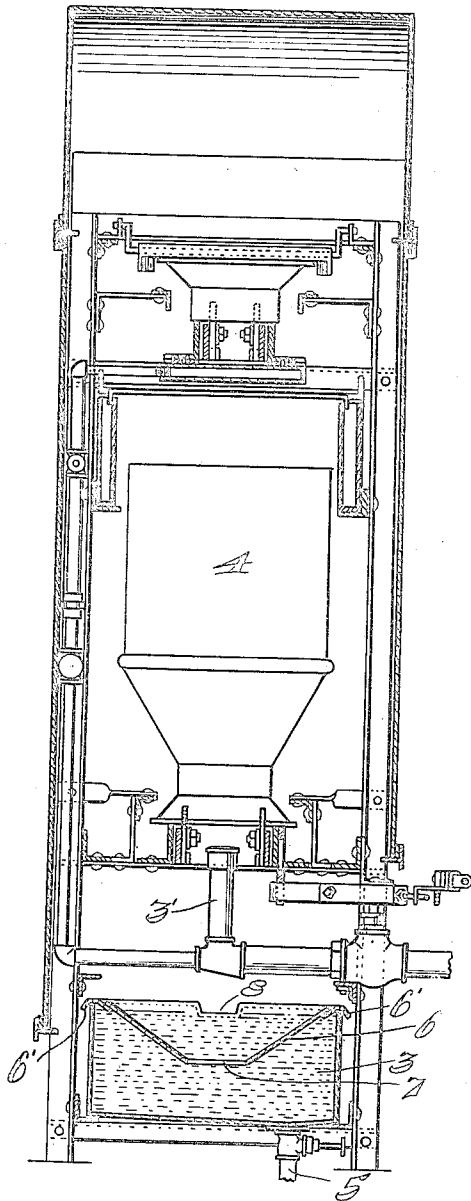


Fig. 1.

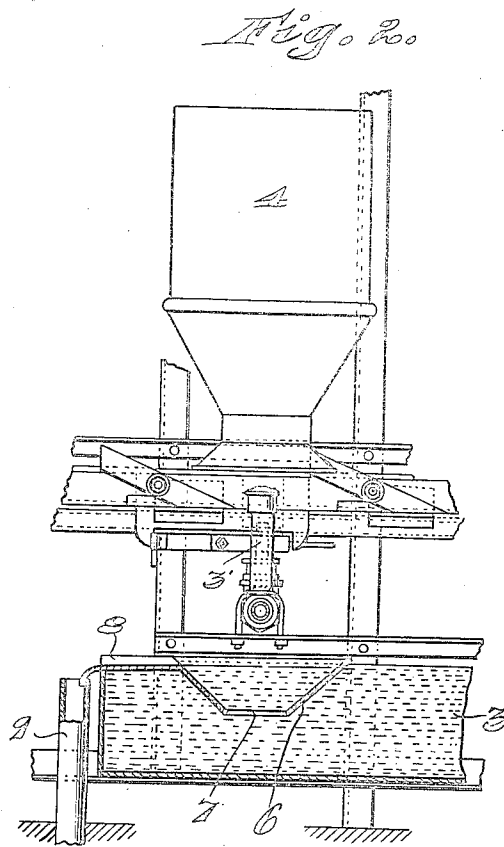


Fig. 2.

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UNITED STATES PATENT OFFICE.

WALTER H. PAULSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO HARRY D. LATHROP, OF CHICAGO, ILLINOIS.

CAN-WASHING MACHINE.

Application filed August 25, 1919. Serial No. 319,710.

To all whom it may concern:

Be it known that I, WALTER H. PAULSON, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Can-Washing Machines, of which the following is a specification.

My invention relates to improvements in can washing machines, and more particularly to means for caring for waste water therefrom, the object of the invention being to provide a simple and efficient means for properly taking care of the waste water from can washing machines or the like.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a transverse section of a can washing machine equipped with means embodying the invention.

Fig. 2 is a longitudinal section of the same.

The preferred form of construction, as illustrated in the drawings, comprises the usual drain tank 3, adapted to receive the washing fluid employed in washing the cans in the usual manner. A rinsing nozzle 3' is positioned over the tank 3 and adapted to inject a spray of rinsing water into the inverted cans 4 as they pass thereover, said rinsing water being adapted to drain or flow into the tank 3. The tank 3 is provided with a valved outlet pipe 5, by means of which the contents thereof may be withdrawn for a preliminary rinsing or washing of the cans or for other purposes, and it is desirable to maintain the liquid in the tank 3 at a constant level, but not weaken the solution unduly by adding too much of the rinsing water.

To this end I place a funnel-shaped receiving vessel 6 in the upper portion of the tank 3 immediately under the rinsing nozzle 3', said receiving vessel being provided on opposite sides with hook-like ears 6', adapted to hook over and rest upon the opposite sides of the tank 3. The receiving vessel 6 is left open at the bottom 7 and is provided

with an overflow trough 8 leading from the upper portion thereof out over an end wall of the tank 3, where it may lead into a pipe 9 connected with the sewer for carrying away the overflow. By this arrangement, the rinsing water flowing downwardly from can 4 will flow first within the receiving vessel 6 and will not mix at once with the contents of the tank 3, unless the level of water in the tank 3 is lower than the level of the overflow 8. If the level of water in the tank 3 is lower than the overflow 8, the rinsing water will run out through the open bottom of vessel 6 until the level of liquid in tank 3 rises to the level of overflow 8, whereupon any excess of rinsing water will flow out through said overflow without weakening the washing solution ordinarily contained in tank 3. The specific form and arrangement of parts is a simple and effective one for the purpose.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of the construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desired to secure by Letters Patent, is:

1. In a washing machine, a tank, washing means arranged adjacent said tank, draining thereinto, a receiving vessel arranged within said tank to receive the fluid draining from said washing means, said vessel being in open communication with said tank, and an overflow for said receiving vessel leading out of said tank, substantially as described.

2. In a washing and rinsing machine, a wash water tank, rinsing means disposed above said tank and draining thereinto, a receiving vessel arranged within said tank to receive the rinsing fluid draining from said rinsing means, said receiving vessel being in open communication with said tank, and an overflow for said receiving vessel leading out of said tank, substantially as described.

3. A device as set forth in claim 2 in which said overflow is constantly open.

4. A device as set forth in claim 2 in which said vessel is funnel shaped and open at the bottom, substantially as described.

5. A device as set forth in claim 2 in which said vessel is further characterized by a supporting means engaging over the upper edges of the sides of the tank, substantially as described.

6. A device as set forth in claim 2 in which the overflow is arranged slightly be-

low the level of the top of the tank, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER H. PAULSON.

Witnesses:

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LAURA J. ERICKSON.