T. J. CASEY.

LAUNDRY MACHINERY.

APPLICATION FILED MAY 3, 1916.

1,247,079. Patented Nov. 20, 1917.

Fig. 1

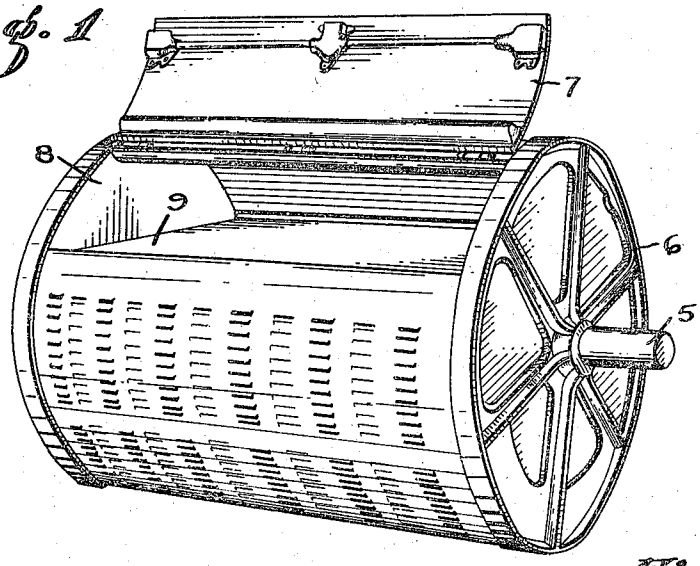


Fig. 2

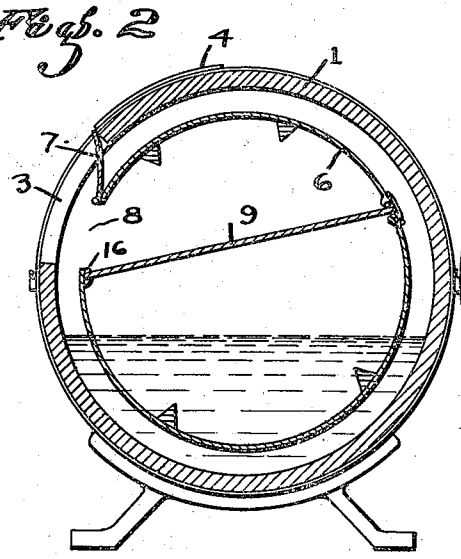


Fig. 3

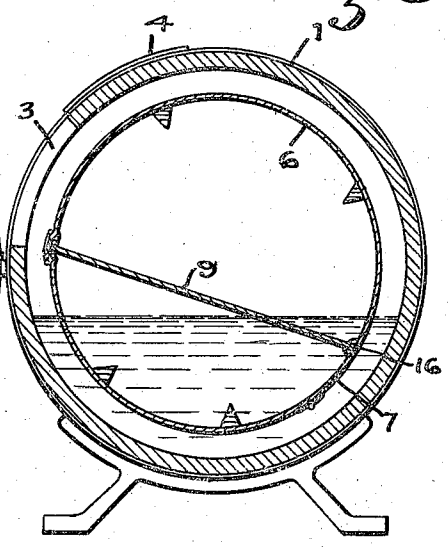
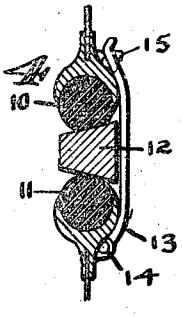


Fig. 4



WITNESS.

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UNITED STATES PATENT OFFICE.

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LAUNDRY MACHINERY.

1,247,079. Specification of Letters Patent. Patented Nov. 20, 1917.

Application filed May 3, 1916. Serial No. 95,096.

To all whom it may concern:

Be it known that I, THOMAS J. CASEY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have made a new and useful invention—to wit, a new and useful Improvement in Laundry Machinery; and I do hereby declare the following to be a full, clear, concise, and exact description of the same.

The invention relates particularly to means for facilitating the discharging of the inner drum of the cylindrical washing machine, reducing the time and the cost of the operation and saving the wear and tear of the articles being laundried.

In this specification and the annexed drawings, I illustrate the invention in the form that I consider the best, but it is to be understood that I do not limit myself to such form, because the said invention may be embodied in other forms, and it is also to be understood that in and by the claims following the description I desire to cover the invention in whatever form it may be embodied.

In the accompanying one sheet of drawings,

Figure 1 is an elevation in perspective looking toward the end of the cylinder of a washing machine with the door open, constructed in accordance with this invention, disclosing this invention in place therein.

Fig. 2 is a cross section of a cylindrical washing machine having a delivery board inserted in the cylinder thereof in accordance with this invention.

Fig. 3 is a similar view of the same with the cylinder in the discharging position.

Fig. 4 is an enlarged detail of the door mechanism in the cylinder to permit the introduction of the discharge board.

In detail the construction illustrated in the drawing includes the conventional, rotary washing machine including an outer shell 1, supported upon a suitable base and having the opening 3 extending lengthwise of the shell and closed by any suitable form of door, such as the sliding door 4. The ends of the closed shell 1 are provided with bearings to receive the trunnions 5 on the ends of the cylinder 6 rotatable within the shell 1, by any suitable form of gearing engaging the trunnion 5 projecting through the end of the shell in the usual manner. The cylinder 6 is provided with a door 7 hinged thereto to close the opening 8 extending the length of the cylinder for the purpose of receiving and discharging the articles to be laudried. This machine operates substantially as follows: The shell is filled to the proper depth with the cleansing liquid and the cylinder 6 is rotated or oscillated causing the articles therein to tumble about the cleansing liquid until they are washed to the desired extent. The cylinder is then stopped with the door 7 opposite the opening 3 in the shell and the articles are lifted out of the cylinder through the door 7. This discharging operation is very laborious. The operator must stoop over and reach into the cylinder 6 exposing his bare hands and arms to the caustic washing solution and lift a heavy mass of wet fabric with great muscular effort, in an uncomfortable position and wet his skin subjecting it to the chemical action of the washing solution. The labor and the time necessary to discharge the cylinder is reduced to the minimum by this invention, in the use of which it is unnecessary for the operator to lift the articles from the cylinder or subject his skin to the action of the cleansing liquid to any considerable extent.

This invention includes the discharge board 9 inserted through a slot extending the length of the cylinder on the side opposite from the door 7; the opposite edges of this slot are provided with the gaskets 10 and 11 between which the strip 12 is forced to hermetically seal the slot, the strip being held in position by the clip 13 hinged at 14 and secured in any desirable manner at 15 to exert the necessary pressure against the strip 12 to maintain the slot hermetically sealed, during the washing operation. The board 9 is inserted by swinging the cylinder into the position shown in Fig. 3 releasing the clip 13 and removing the strip 12 through the opening 3; the board is then inserted across the cylinder, engaging the opposite side at 16 at the edge of the opening 8, opposite to the hinged edge at which the door 7 engages the cylinder at the opening. The clip 13 is then replaced to hold the board in position and the cylinder is rotated to the position shown in Fig. 2 and the door opened. The articles that were beneath the board in the position illustrated in Fig. 3 by the rotation of the cylinder are now in position above the board, as illustrated in Fig. 3, above the washing solution remaining in the cylinder, that contained within the articles draining back off the

board 9 into the shell. The articles can now be slid off the board 9 through the opening 3 in any desirable manner, and transferred to wringing or rinsing machines or to any other device used in the process of laundrying. It is obvious that the articles after having been washed are not subjected to the pulling and hauling necessary in discharging them from the cylinder as by the old process in which each article practically had to be pulled from the mass.

The means and construction in the adaptation of this invention to existing washers will vary with the nature of the material and the structure of the washer to which it is applied, and variations within the purview of this invention necessary in applying it to particular forms of washer may be necessary; therefore, I do not wish to be understood as confining this invention to the particular means shown and described.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a washing machine, a rotary cylinder having a longitudinal discharge opening in the body thereof, the body being also formed with a longitudinal slot opposite the discharge opening, gaskets carried by the edges of said longitudinal slot, a board adapted to be inserted through the slot between the gaskets to extend across the cylinder and engage the interior thereof adjacent one side of said discharge opening, means for locking the board in position and means for sealing the longitudinal slot when the board is not in use.

2. In a washing machine, a rotary cylinder having a discharge opening in the body thereof; said cylinder having a longitudinal slot opposite said discharge opening; means insertible into the cylinder through the said slot to receive articles and position same to be discharged from said cylinder through the discharge opening when the cylinder is rotated; a plug adapted to be inserted within the slot to close the same when the board is not in use; and means for locking said plug in position.

In testimony whereof, I have hereunto set my hand at San Francisco, California, this 31st day of March, 1916.

THOMAS J. CASEY.

In presence of—
BALDWIN VALE.