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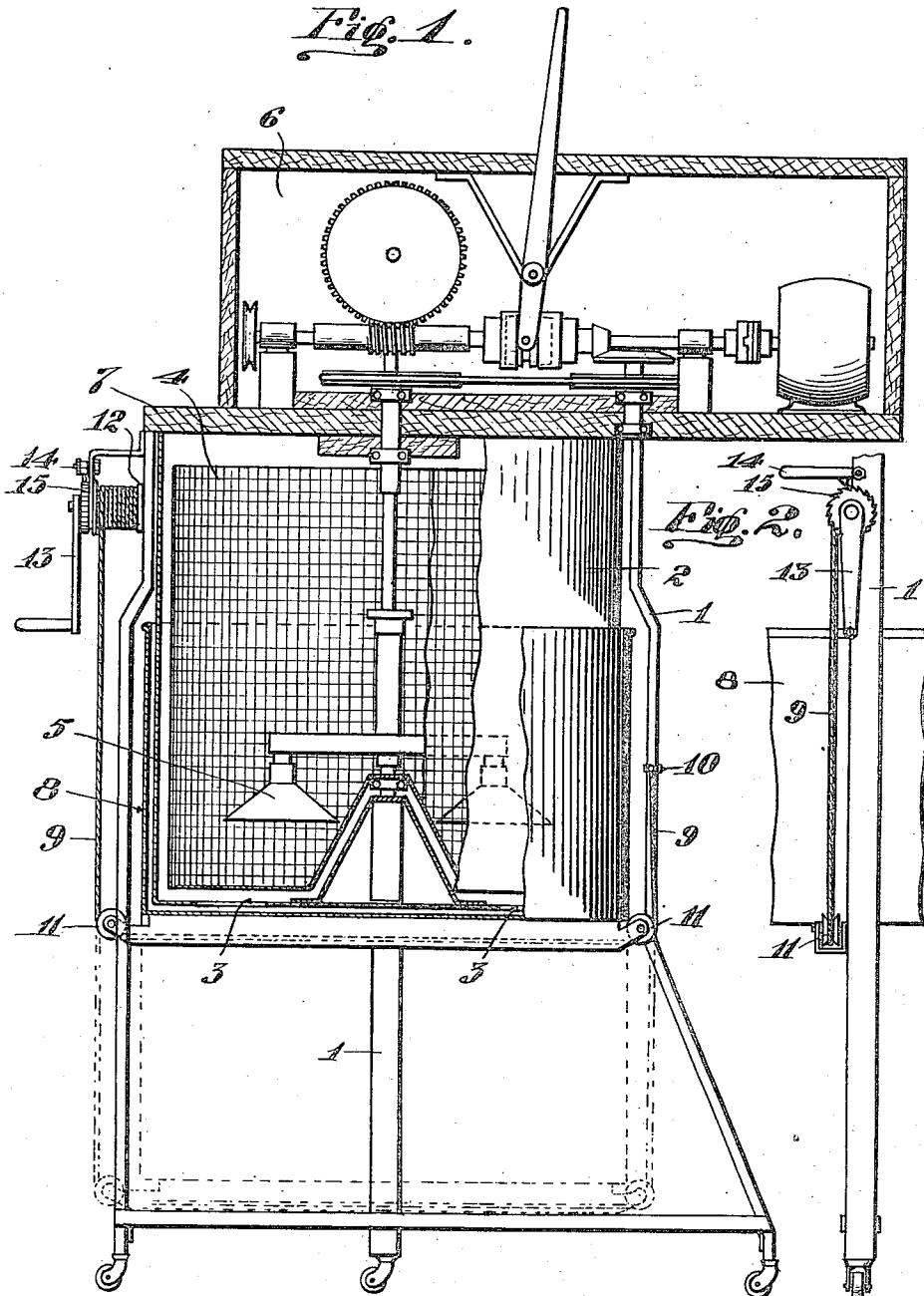
1,447,211

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WASHING AND DRYING MACHINE

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Fig. 1.



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CORTES JOHNSON, OF LONG BEACH, CALIFORNIA.

WASHING AND DRYING MACHINE.

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To all whom it may concern:

Be it known that I, CORTES JOHNSON, a citizen of the United States, residing at Long Beach, in the county of Los Angeles and State of California, have invented new and useful Improvements in Washing and Drying Machines, of which the following is a specification.

This invention relates to improvements in washing machines and more particularly to that type of washing machines adapted besides washing the clothes, to wring or extract the water from them by centrifugal process although it may be applied to other types of washing machines as well.

The objects of the invention are to provide means whereby the clothes may be immersed while being washed and the main volume of water lowered from them so that they may be wrung, said means being simple of construction, easy to operate and so arranged that when in position to wring the clothes the stability of the device will be increased.

A further object is to provide a washing machine of the above character embodying a liquid container adapted to be raised and lowered relative to a revolvable clothes receptacle in which a splash of the water in the container during the washing operation, and the water removed from the clothes during the wringing operation may be confined within the washer.

Other objects will appear hereinafter.

The invention is illustrated in the accompanying drawings, in which:

Figure 1 is an elevation of a washing and wringing machine embodying this invention, partially in section and:

Figure 2 is a fragmentary elevation showing details of the windlass. Like numbers refer to like parts in both of the figures.

1 represents the frame of the machine which is preferably portable, being mounted on castors. 2 is a cylindrical shell immovably mounted on the frame and spaced above the bottom thereof and said shell has a bottom with openings 3 therethrough.

Within the shell 2 is a rotatable cylindrical basket or container 4 for the clothes and within the basket is a vertically reciprocable clothes pounder 5 both of which are operated by mechanism mounted within the housing 6 on the cover 7, description of this mechanism being unnecessary as it forms no part of this invention.

A tub or water container 8 cylindrical in form and telescoping over the lower portion of the shell 2 is slidably mounted in the frame and is supported by a cable 9 one end of which is attached to the frame at the point 10 said cable passing beneath the tub 8 over diametrically opposed guide pulleys 11 projecting from the bottom thereof and is wound about a drum 12 forming part of a windlass which is attached to the frame 1 of the machine. The windlass has besides the drum 12, the usual crank 13, pawl 14 and ratchet 15.

It will be seen that when the tub 8 is raised to surround the lower portion of the shell 2 that water contained in the tub will enter said shell through the openings 3 in its bottom and will immerse the clothes in the basket 4. In this position the washing process takes place by action of the pounder 5.

When the clothes have been sufficiently cleansed in this manner the tub 8 is lowered by rotating the drum 12 and unwinding the cable 9 therefrom. The tub then assumes a position directly beneath the shell and at the bottom of the frame. The water flows from the shell through the openings 3 into the tub and the weight of the water thus placed near the bottom of the machine provides a low center of gravity and materially stabilizes the machine during the wringing process which takes place while the tub is lowered and consists of rapidly rotating the basket which extracts the water from the clothes therein by centrifugal force, throwing the water into the shell from which it drains to the tub beneath. The shell 2 encircling basket 4 serves during the drying operation to confine the water thrown from the clothes on rotation of the basket and to direct the water back into the tub which is then disposed in its lowered position. The shell also serves during the washing operation to prevent the water from splashing out of the tub.

By this arrangement the same wash water may be used several times and the tub is easier to fill when near the floor than in a raised position.

Although I have shown and described a specific construction and arrangement of parts, it is obvious that various alterations of the same may be made without departing from the spirit of the invention.

I claim:

In a washing machine, a revolvable reticu-

lated clothes receiving basket, a tub mounted for vertical movement relative to said basket adapted when in its uppermost position to encircle the basket, whereby clothes in the
5 basket will be immersed in water in the tub and adapted when in its lowermost position to be arranged below the basket and a shell encircling the basket and extending between the basket and the tub when the latter is in
its uppermost position said shell commu- 10
nicating at its lower end with the interior of the tub, said shell acting to collect water thrown from the basket when the tub is in
its lowermost position and direct the water into the tub, means for rotating the basket, 15
and means for raising and lowering the tub.

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