

J. W. PIPPIN.
WASHING MACHINE.
APPLICATION FILED SEPT. 14, 1911.

1,050,083.

Patented Jan. 7, 1913.

Fig. 1.

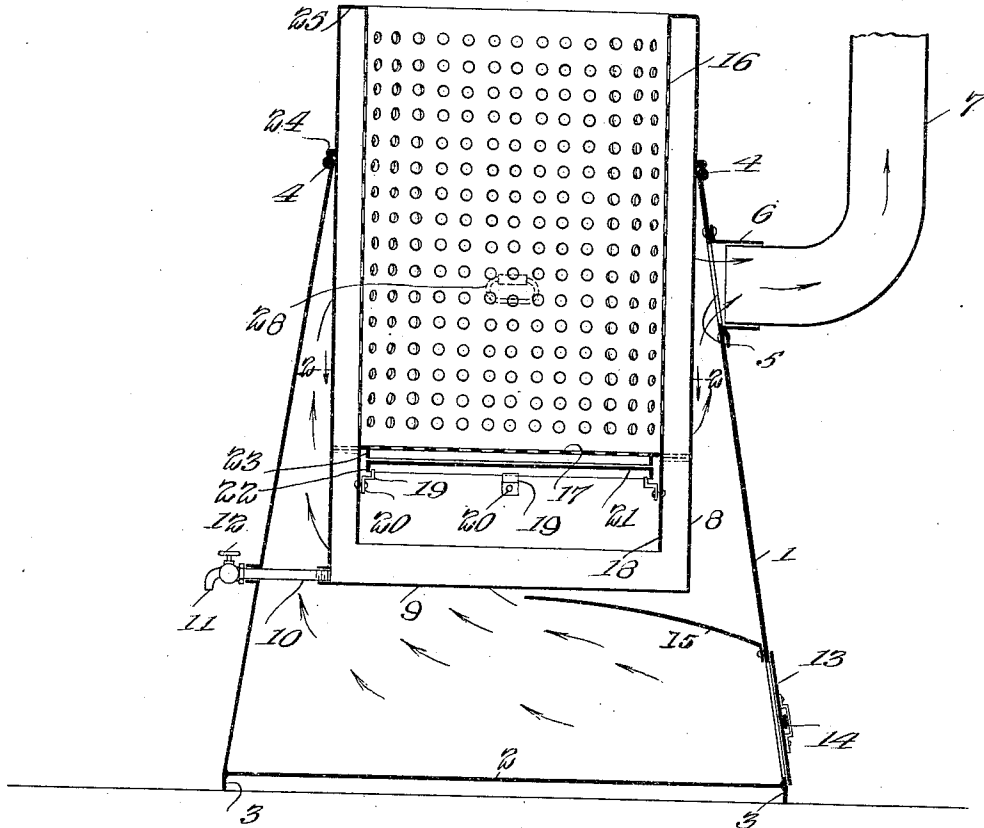
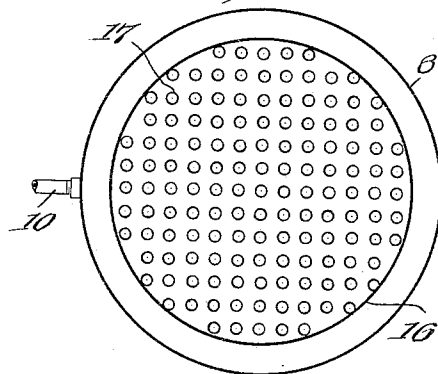


Fig. 2.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN WILLIAM PIPPIN, OF BROWNWOOD, TEXAS, ASSIGNOR OF FORTY-NINE TWO-HUNDRED-AND-FIFTY-SIXTHS TO DOUGLASS H. WOODS, OF BROWN COUNTY, TEXAS.

WASHING-MACHINE.

1,050,083.

Specification of Letters Patent.

Patented Jan. 7, 1913.

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To all whom it may concern:

Be it known that I, JOHN WILLIAM PIPPIN, a citizen of the United States, and a resident of Brownwood, in the county of Brown and State of Texas, have invented certain Improvements in Washing-Machines, of which the following is a specification.

My invention is an improvement in washing machines, and has for its object, the provision of a simple, inexpensive, and easily operated machine of the character specified, wherein the washing is done automatically, by the action of the heated water, and in a quick and thorough manner.

In the drawings: Figure 1 is a vertical section of the improvement, and, Fig. 2 is a section on the line 2—2 of Fig. 1.

In the present embodiment of the invention, a furnace is provided, comprising a casing 1, circular in cross section and frusto-conical in shape, and arranged with its large end downward. A bottom 2 is provided for the casing, the said bottom being spaced above the lower end of the casing, to produce a supporting edge 3. The upper edge of the casing is beaded at 4, and an outlet opening 5 is provided near the top, a thimble 6 encircling the opening, for permitting the connection of a smoke pipe 7. A boiler consisting of a cylindrical casing 8 is seated in the open top of the furnace, the said boiler having a closed bottom 9, and a discharge pipe 10, leading from the lower end and discharging outside of the casing at 11. A valve 12 controls the pipe 10, and the casing 1 is provided with a fire door 13, at the opposite side from pipe 10, having the usual latch 14. A baffle plate 15 is provided in the furnace, below the boiler, for deflecting the flame and heated products of combustion against the bottom of the boiler. The said plate extends across the space between the boiler and the furnace wall, and to a point approximately at the center of the boiler. A receptacle for clothes is arranged within the boiler, the said receptacle comprising a cylinder 16 having a bottom 17, both of perforate material. The bottom 17 of the receptacle is spaced above the lower

end of the receptacle, and that portion 18 of the receptacle below the bottom is imperforate, as shown. Bracket lugs 19 are secured to the portion 18 in spaced relation, by rivets 20, and a valve consisting of a disk 21 having a marginal downwardly extending flange 22 is supported by the lugs. The flange 22 rests on the lugs, and the bottom 17 of the receptacle is provided with a downwardly extending annular rib 23, to engage the upper face of the disk 21. The bottom 17 is so arranged with respect to the valve 21—22, that the rib is normally out of contact with the upper face of the valve and when the valve is lifted into contact with the rib, the lower end of the receptacle is closed. The boiler is provided with an external annular rib 24, which seats on the bead 4, and supports the boiler in the furnace, and the receptacle is connected at its upper edge to the upper edge of the boiler, as indicated at 25.

In operation, the boiler is filled with water, to the level of the dotted lines, shown in Fig. 1, and the water is heated by a fire arranged within the furnace. The valve 21—22 forces the heated water and steam generated to pass up through the annular space between the receptacle and the boiler, and the said water and steam is forced into the receptacle, and through the clothes supported on the bottom. The valve 21—22 is forced tightly against the rib 23, to prevent the steam and water from entering through the perforated bottom. The steam is cooled and condensed by its passage through the clothes. The pressure against the under face of the valve has meanwhile relaxed or lessened, and the valve drops, permitting the water to return into the lower portion of the boiler. This procedure is repeated, until the clothes are washed, and the dirty water is drawn off through pipe 10, when the machine is again ready for use. The furnace is also provided with handles 28 for convenience in handling the machine.

I claim:

A washing machine, comprising a boiler and a receptacle for clothes in the boiler and spaced apart therefrom, said receptacle hav-

ing a perforate bottom spaced apart from its lower end and having that portion of the side wall above the bottom perforate, a disk valve arranged transversely of the receptacle below the bottom, said bottom having an annular rib for contacting with the disk to close the bottom, said disk being

movable vertically, and means for limiting the downward movement of the disk.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."