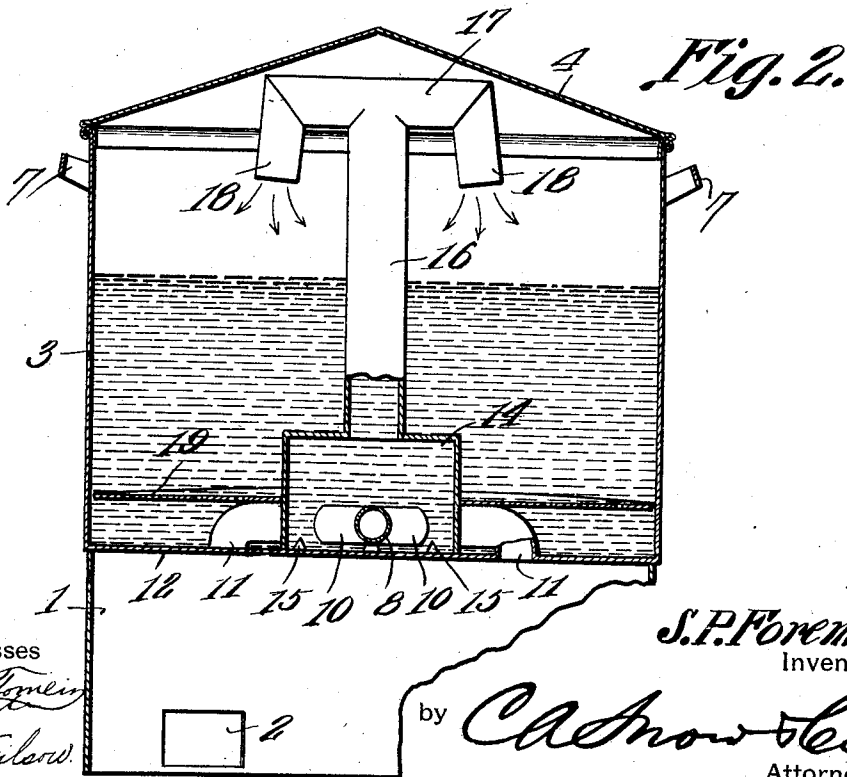
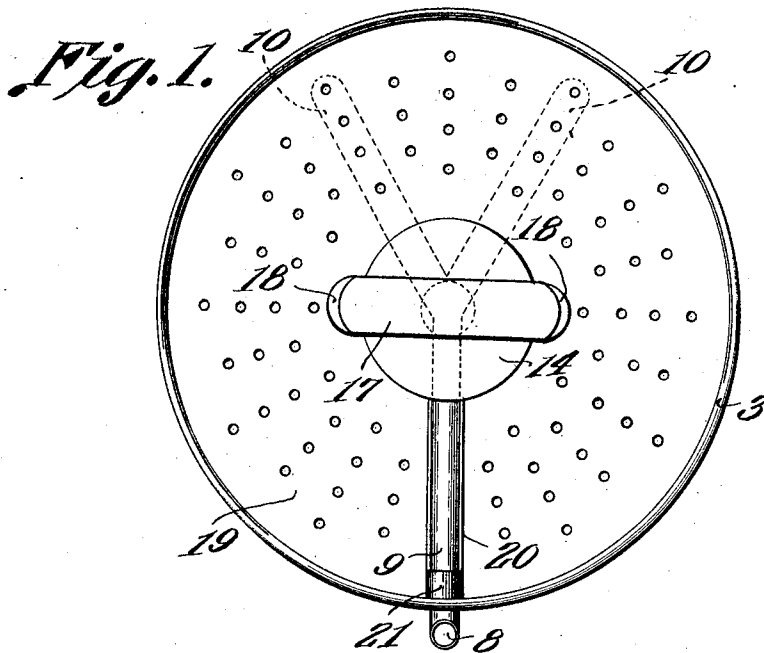


S. P. FOREMAN.
CLOTHES WASHER.
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1,047,192.

Patented Dec. 17, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL P. FOREMAN, OF QUINTON, OKLAHOMA.

CLOTHES-WASHER.

1,047,192.

Specification of Letters Patent.

Patented Dec. 17, 1912.

Application filed April 25, 1911. Serial No. 623,187.

To all whom it may concern:

Be it known that I, SAMUEL P. FOREMAN, a citizen of the United States, residing at Quinton, in the county of Pittsburg and State of Oklahoma, have invented a new and useful Clothes-Washer, of which the following is a specification.

It is the object of the present invention to provide a clothes washer, adapted to promote, in a novel and improved manner a circulation of the water through the clothes which are being cleansed.

A further object of the invention is to provide novel means for conducting the heated air through the washer, and to afford a maximum heating surface within the contour of the washer.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings,—Figure 1 is a top plan, parts being removed; and Fig. 2 is a vertical transverse section.

In carrying out the invention, there is provided a tubular furnace 1, preferably open at the top and bottom, the furnace 1 being supplied at one side, with a stoke doorway 2. Resting upon the furnace 1, removably, is the washer, comprising as a primary and fundamental element, a drum 3, equipped with a suitable lid 4. The drum 3 is provided with suitable handles 7.

Extended upwardly, along the side of the drum 3, and upon the outside thereof, is a flue 8, the same being carried laterally, as shown at 9, and continued through the side wall of the drum 3. Within the contour of the drum, and preferably adjacent the center of the drum, the flue 8 diverges into angularly disposed branches 10, these branches 10 being carried downwardly, as shown at 11, through the bottom 12 of the drum, within the contour of the furnace 1.

The invention further includes a supplemental drum 14, closed at the top, and open at the bottom, this supplemental drum 14 being placed within the main drum 3, adjacent the center thereof, so as to inclose the point of confluence of the branches 10

of the flue, and the laterally extended portion 9 thereof. The supplemental drum 14 is preferably secured to the bottom 12 of the main drum 3. There are openings 15, in the lower edge of the supplemental drum 14.

The invention further includes a conducting pipe 16, fixed to and rising from the top of the supplemental drum 14, the conducting pipe opening into the supplemental drum. At its upper end, the conducting pipe 16 is supplied with a transverse tubular head 17, having downwardly disposed branches 18, the head 17 and its branches 18 forming continuations of the conducting pipe 16. A foraminous member 19, preferably taking the form of a perforated plate, is provided, this foraminous member being of a diameter to fit closely within the main drum 3, the member 19 having an opening to receive the supplemental drum 14. The foraminous member 19 is supported by the flue members 9 and 10. The member 19 is radially cut away, as shown at 20, to receive the portion 9 of the flue, and across the opening there extends, adjacent the periphery of the member 19, an arcuate strap 21, adapted to be saddled upon the portion 9 of the flue. The foraminous member 19 will be supported by the parts 10 of the flue, and the part 9 of the flue will register in the opening 20 and be engaged by the strap 21. The foraminous member will therefore be tilted slightly, the engagement of the member 9 in the opening 20 serving to maintain the part 19 in place against rotation within the drum 3.

The operation of the device is as follows: A fire having been built in the furnace 1, the heated air will pass upwardly through the portions 11 and 10 of the flue, the heated air thence traveling the portions 9 and 8 in order, then passing from the portion 8 into the atmosphere. At this point, it may be stated that the portion 8 of the flue may be of any desired length, so as to secure a proper draft. The clothes which are to be cleansed, are placed upon the foraminous member 19. The drum 3 is partially filled with water. The water, passing through the openings 15, will enter the supplemental drum 14, in which drum the water will be heated, owing to the relatively large conducting surfaces supplied, adjacent the center of the drum 3, by the converging portions 9 and 10 of the flue. The water, being heated, and converted to a greater or less

extent into steam, within the supplemental drum 14, will travel upwardly through the conducting pipe 16, thence traversing the transverse head, and the branches 18, the
5 branches 18 deflecting the water and steam downwardly upon the garments which are disposed upon the perforated plate 19. The water, percolating through the garments, and passing through the openings in the
10 plate 19, will travel to the bottom 12 of the main drum 3, whereupon the water will again enter the openings 15, to repeat the cycle.

It is to be noted that the diameter and
15 the height of the furnace 1 are such that the furnace may readily be placed within the main drum 3, beneath the lid 4, the construction obviously being such that the device, when not in use, may be stored in small
20 space.

Having thus described the invention, what is claimed is:—

In a washing machine, a main drum; a supplemental drum resting upon the bot-

tom of the main drum and communicating 25 with the main drum; a discharge pipe communicating with the upper portion of the supplemental drum; a foraminous member surrounding the supplemental drum; and a
30 flue having branches radiating from a point within the supplemental drum and extended beyond the supplemental drum, one branch opening through the side wall of the main drum and the other branches opening
35 through the bottom of the main drum, the branches constituting means for heating the water both within and without the supplemental drum and constituting also a means
40 for spacing the foraminous member from the bottom of the main drum.

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

SAMUEL P. FOREMAN.

Witnesses:

G. W. COLYER,
J. W. BAKER.

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