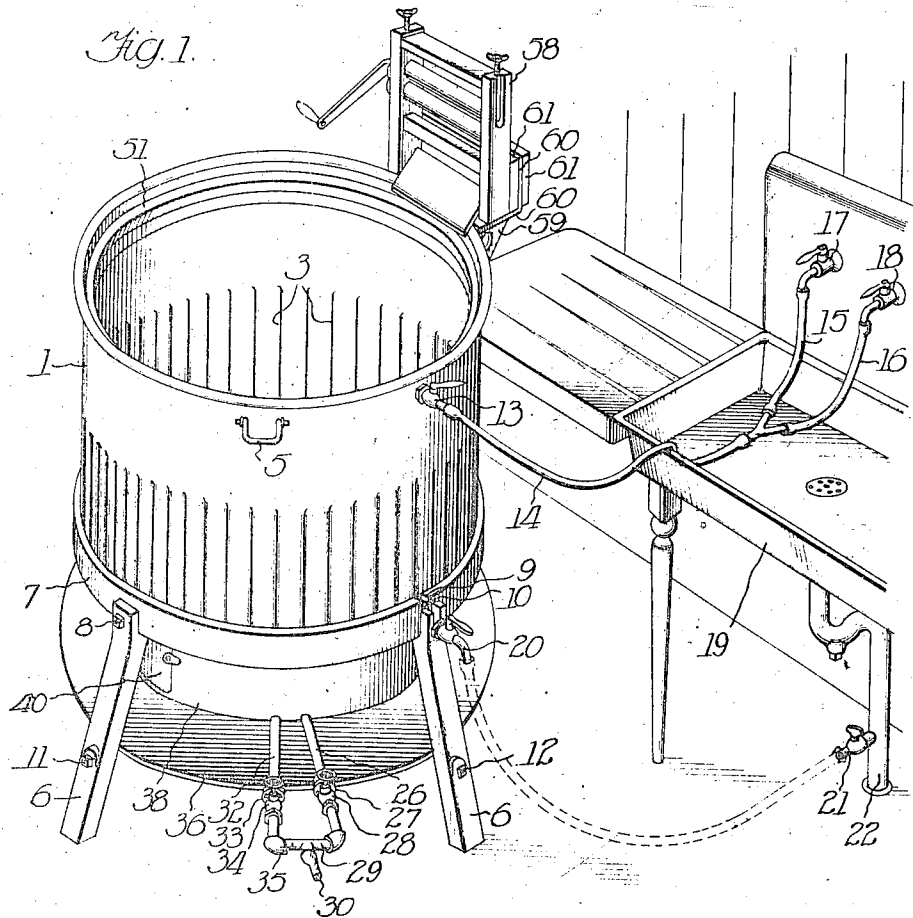


F. R. KING.
 WASHING MACHINE OR THE LIKE.
 APPLICATION FILED MAR. 14, 1910.

1,014,968.

Patented Jan. 16, 1912.

3 SHEETS-SHEET 1.



Witnesses:
 Robert H. Meir
 Arthur W. Carlson

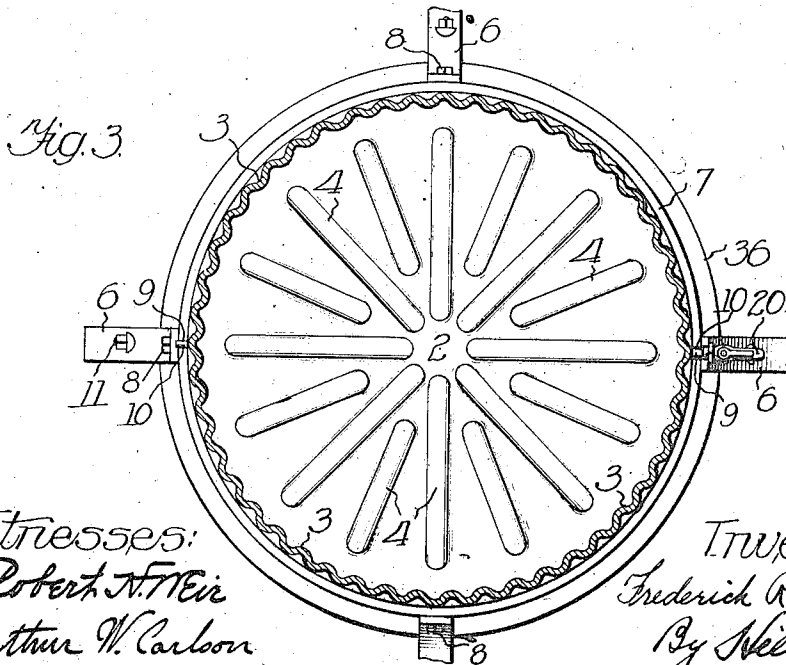
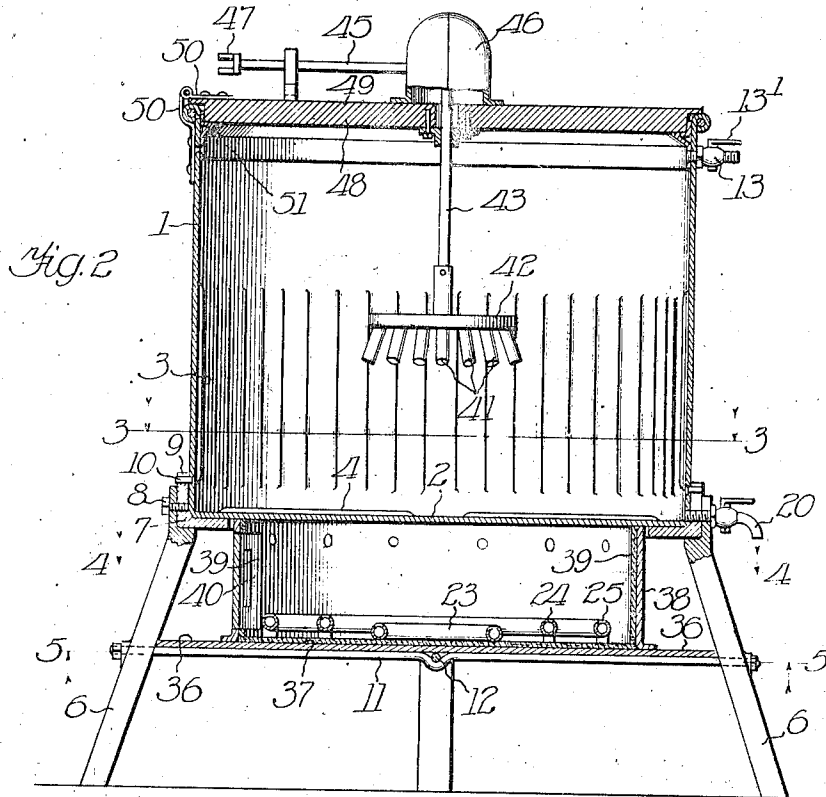
Inventor:
 Frederick R. King
 By Nee & Nee
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3 SHEETS-SHEET 2.



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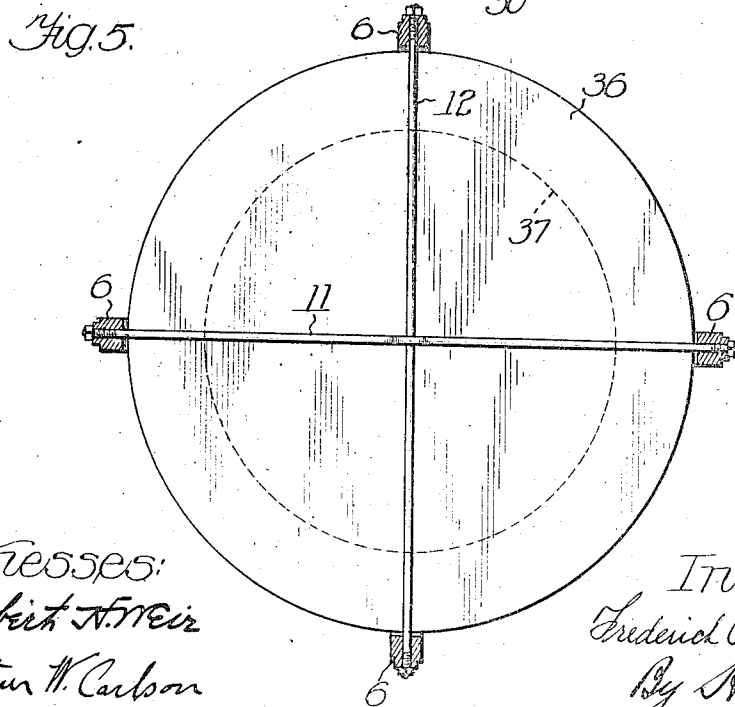
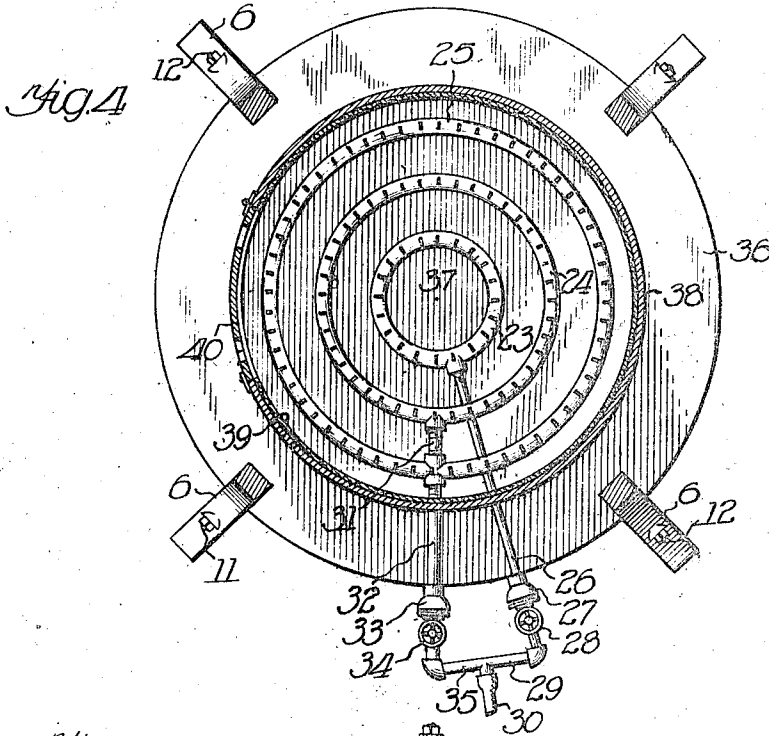
Inventor:
 Frederick R. King
 By *Wm. H. Allen*

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3 SHEETS-SHEET 3.



Witnesses:
 Robert A. Meir
 Arthur W. Carlson

Inventor:
 Frederick R. King
 By *W. H. H. H.*
 Att'y

UNITED STATES PATENT OFFICE.

FREDERICK R. KING, OF CHICAGO, ILLINOIS.

WASHING-MACHINE OR THE LIKE.

1,014,968.

Specification of Letters Patent.

Patented Jan. 16, 1912.

Application filed March 14, 1910. Serial No. 549,272.

To all whom it may concern:

Be it known that I, FREDERICK R. KING, a subject of the King of England, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines or the Like, of which the following is a description.

My invention belongs to that class of devices known as washing machines or the like, and relates particularly to an improved combination washing machine and boiler provided with means for heating the contents of the machine and maintaining the same at the desired temperature. It is a machine that may be used for washing, boiling, rinsing, bluing, etc., without moving the machine, or requiring the use of pails or like utensils in filling or emptying.

My invention has among its objects the production of a simple, safe, compact, convenient, efficient and satisfactory washing machine and boiler of the kind described that may be used with a minimum of labor, be manufactured at a comparatively small cost and used wherever found applicable.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described and particularly pointed out in the claims.

In the drawings wherein like reference characters indicate like or corresponding parts, Figure 1 is a perspective view of my machine connected to the faucets, the cover of the machine being removed, Fig. 2 is a vertical sectional view of the same, the cover positioned, Fig. 3 is a cross sectional view taken substantially on line 3—3 of Fig. 2, Fig. 4 is a cross sectional view taken substantially on line 4—4 of Fig. 2, and Fig. 5 is a sectional view taken substantially on line 5—5 of Fig. 2.

Referring to the drawings, 1 represents the sides and 2 the bottom of the tub or receptacle, formed of any suitable material, preferably metal with the bottom of copper, the same being corrugated as at 3 and 4, if desired, or provided with the equivalent. One or more handles 5 may also be provided if desired. When in use the tub is supported by legs 6 or their equivalent, which may be secured directly to the tub in the case of a small tub, or with a larger tub to a ring of angle iron 7 by means of suitable bolts or screws 8 or the equivalent. When so

supported in the case of a large tub the same may be readily removed from its supporting frame for transporting to where desired or storage. The tub is maintained against displacement relative to the supporting stand by means of slots 9 in the ring 7 and cooperating pins 10 carried by the tub, or other equivalents for the purpose. The legs are preferably connected and braced by means of rods 11 and 12.

To fill the tub I preferably provide an inlet controlled by a suitable valve 13¹ which is connected by means of the tube or pipe 14 and 15—16 to the hot and cold water faucets 17 and 18, for example, as at the sink 19. In this way the temperature of the water in the tub may be equalized or made such as is desired. If only one faucet is procurable then the Y connection is not necessary, or if both faucets are cold water then the tub may be filled that much quicker. To empty the tub I provide an outlet and valve 20 which may be suitably connected to the valve 21 which connects with the drain pipe 22.

The heater for heating the contents of the tub or maintaining the same at the desired temperature may be either an electric heater, a gas heater or any equivalent for the purpose. In the drawings I show a gas heater, it being understood that any other form or kind may be employed. The heater shown comprises one or more burners 23, 24 and 25, the burner 23 being preferably provided with an inlet pipe 26 provided with a suitable mixer 27 and controlled by a valve 28, the same being connected to the inlet pipes 29—30. The other burners 24 and 25 are provided with the inlet pipes 31, 32, mixer 33, valve 34 and pipe 35 connected to the pipe or tube 30. Any suitable form of valves 28 and 34 and mixers 27 and 33 may be employed. To maintain the contents of the tub at the desired temperature the small burner 23 may be used, and if more heat is desired, for instance to boil the clothes, then the burners 24 and 25 or all of the burners may be employed. It is of course obvious that any number of burners may be used and that they may be controlled in any other suitable manner. The burners are shown supported upon a plate 36 carried by the braces 11 and 12, suitable asbestos 37 being provided if desired. To prevent the flame from the burner from setting fire to the clothes of the operator as well as to retain

the same under the tub, I preferably provide a guard or shell 37 having a lining 39 of asbestos or equivalent material. The guard 38 is shown provided with a door 39 through which the burners may be lighted, which door may have isinglass or equivalent material arranged therein to permit the observing of the flame through the openings 40. Openings 41 may also be provided in the guard 38.

In use for washing the usual wash board may be employed, if desired, as may also a suitable agitator or washer of the usual form. I have shown an agitator 42 arranged on a shaft 43, which agitator is provided with suitable pins 40. The shaft 43 is operated by the shaft 45 or its equivalent and suitably connected thereto in the casing 46 in any desired manner, preferably so that the agitator will be rotated in one direction and reversed, etc. and at the same time be lifted and lowered. The shaft 45 may be operated by an electric motor, a water motor or the like, the motor shaft having a clutch arranged to cooperate with the clutch part 47 on the shaft 45 or equivalent means. This particular part of the machine, as shown, forms no part of my invention, as any other equivalent construction may be employed, hence I have not shown the agitating and driving means in detail, nor do I desire to be limited to the device shown for this purpose. The cover 48 is of any suitable material, for example, wood provided with a cover part 49 of metal, the same being preferably secured to the tub by means of hinges 50. To support the cover when closed I provide a ledge or flange 51 on the interior of the sides proximate to the top. This flange may be of angle iron or formed substantially as shown in Fig. 2 of the drawings.

The wringer 58 is of the usual type and may be suitably supported in any preferred manner, as shown by a bracket 59 carrying a part 60 faced with wood 61 or the like on one or both sides, to which the wringer may be secured. The wringer may be operated by the same motor used for operating the agitator, the motor and connecting mechanism not being shown.

The operation of the device may briefly be described as follows: The tub is filled with the required amount of water and the burner lighted, heating the contents of the tub or maintaining the same at the desired temperature. The clothes may then be boiled in the tub or at a later time. The clothes may be washed by means of the agitator 42, or if desired, on the ordinary wash board, the corrugations 3 and 4 on the sides and bottom of the tub assisting the agitator in its work. When the clothes are sufficiently washed the water may be drawn off and the cover opened. The tub may be then filled with rinsing water and the clothes rinsed, and

this water then drawn off and the clothes blued, the clothes being wrung out by the wringer from time to time as desired. Owing to this means of filling and emptying the tub it is obvious that the tub may be placed where desired, either in the kitchen, in the basement or out on the porch, etc., it being a comparatively easy matter to fill and empty the tub without spilling water or requiring labor in lifting and carrying the water. This is very important and the inconvenience of having water on the floor in filling or emptying the tubs is fully appreciated by any one familiar with such things. It is obvious that the agitator and wringer may either or both be operated by an electric or water motor or the equivalent, so that the only labor involved is putting the clothes in and taking them out of the tub, it being possible to wash them, boil them, rinse them, blue them, etc. without any other labor, as before mentioned, excepting putting them in and taking them out of the tub or turning the valves controlling the water supply.

Having thus described my invention it is obvious that various immaterial modifications may be made in the form, construction, arrangement and combination of parts shown and described without departing from the spirit of my invention, or that the same may be used wherever found applicable, hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement or combination of parts or uses shown, described or mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. A supporting device for washing machine bodies, and the like, comprising supporting legs, a seat carried by said supporting legs and fashioned to receive the body of a washing machine, a shelf carried by said legs and positioned beneath said body, a plurality of burners supported on said shelf, means for controlling said burners independently of each other, and a guard supported on said shelf and surrounding said burners.

2. The combination with a body of supporting means therefor comprising a stand formed of a plurality of legs and a flanged ring constituting a seat for the lower portion of the body, said ring and body being provided with interengaging portions preventing the relative movement of the parts, and a burner carried by said stand.

3. The combination with a stand formed of a plurality of supporting legs connected at their upper ends by a flanged ring, a shelf positioned within the legs of said stand and below said flanged ring, a burner on said shelf, an annular guard supported on said shelf and surrounding said burner, and a body removably fitting within said flanged ring on the stand, said body and ring being

provided with interengaging portions preventing relative movement of the parts.

4. The combination with a stand formed of a plurality of supporting legs connected
5 at their upper ends by a ring provided with an upstanding peripheral flange, a shelf positioned within the legs of said stand and below said flanged ring, a burner on said shelf, and a body removably fitting within
10 said flanged ring on the stand, the upstanding flange of said ring being provided with a plurality of slots extending downwardly

from the upper edge thereof, and said body being provided with a plurality of lateral projections adapted to fit into said slots 15 when the body is secured in position on the stand.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

FREDERICK R. KING.

Witnesses:

M. GILES,

CHARLES I. COBB.