(No Model.)

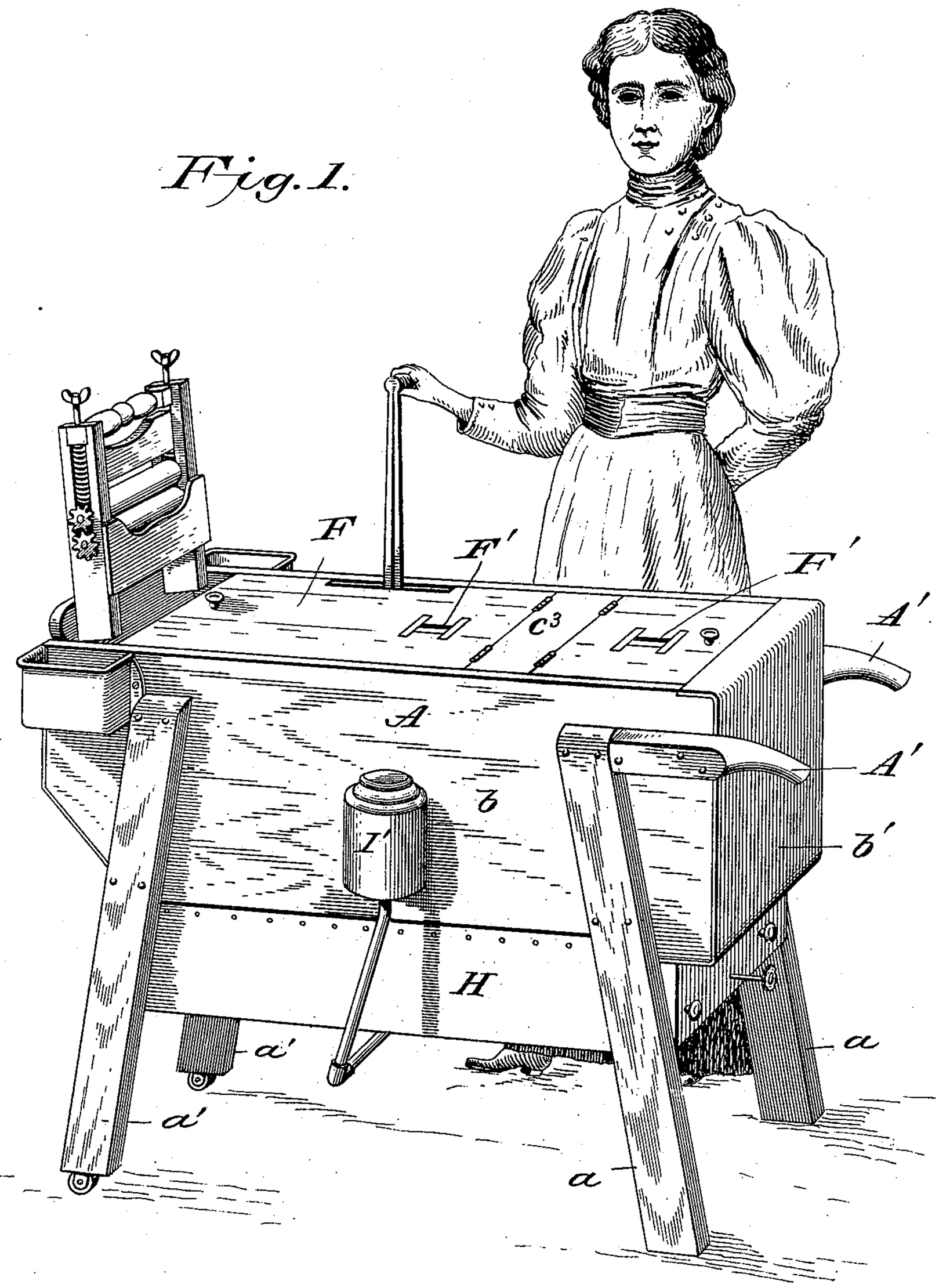
2 Sheets—Sheet 1.

A. W. DAVIS.

WASHING MACHINE.

No. 601,950. Patented Apr. 5, 1898.

Fig. 1.



WITNESSES

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(No Model.)

2 Sheets—Sheet 2

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Fig. 2.

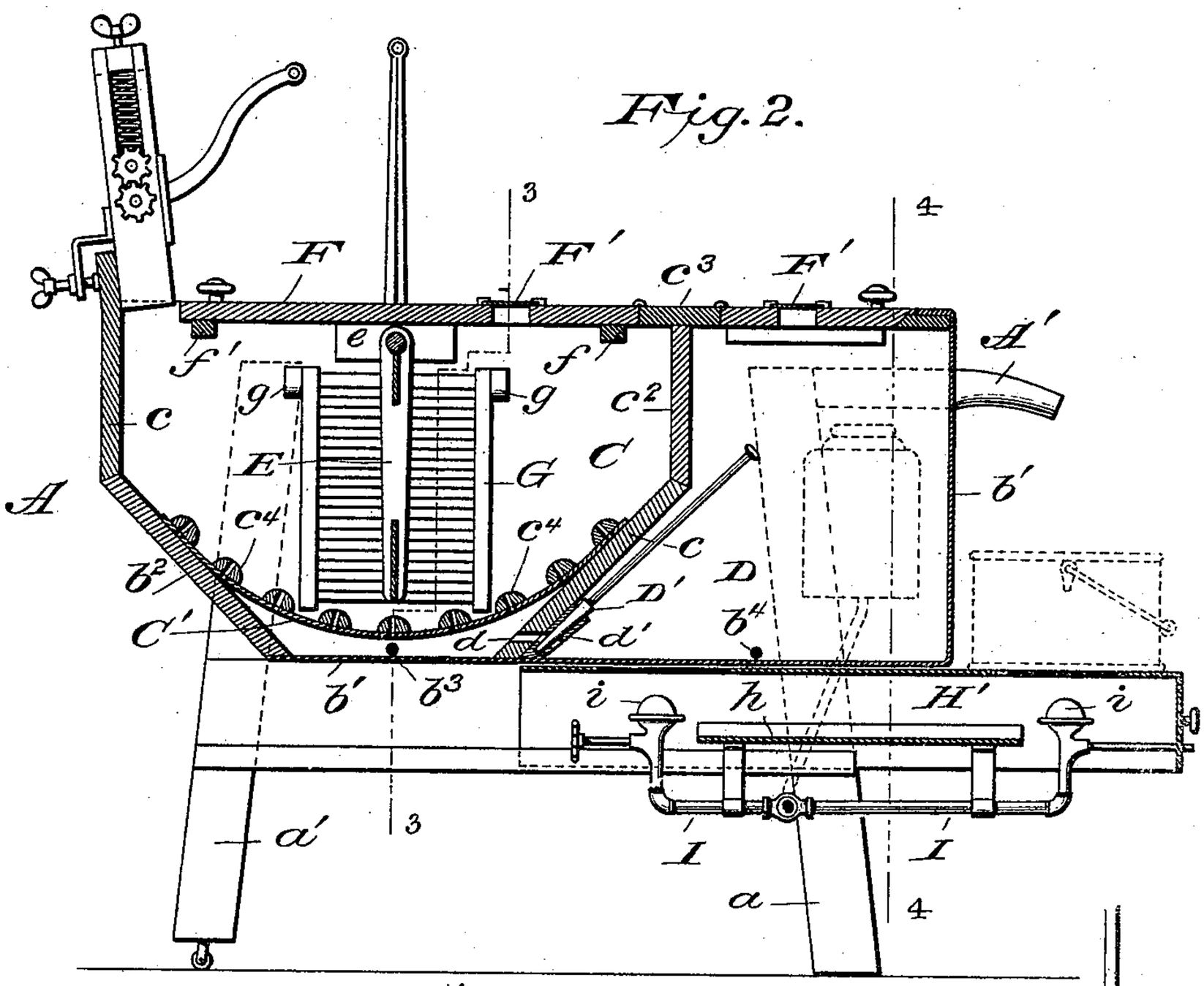


Fig. 3.

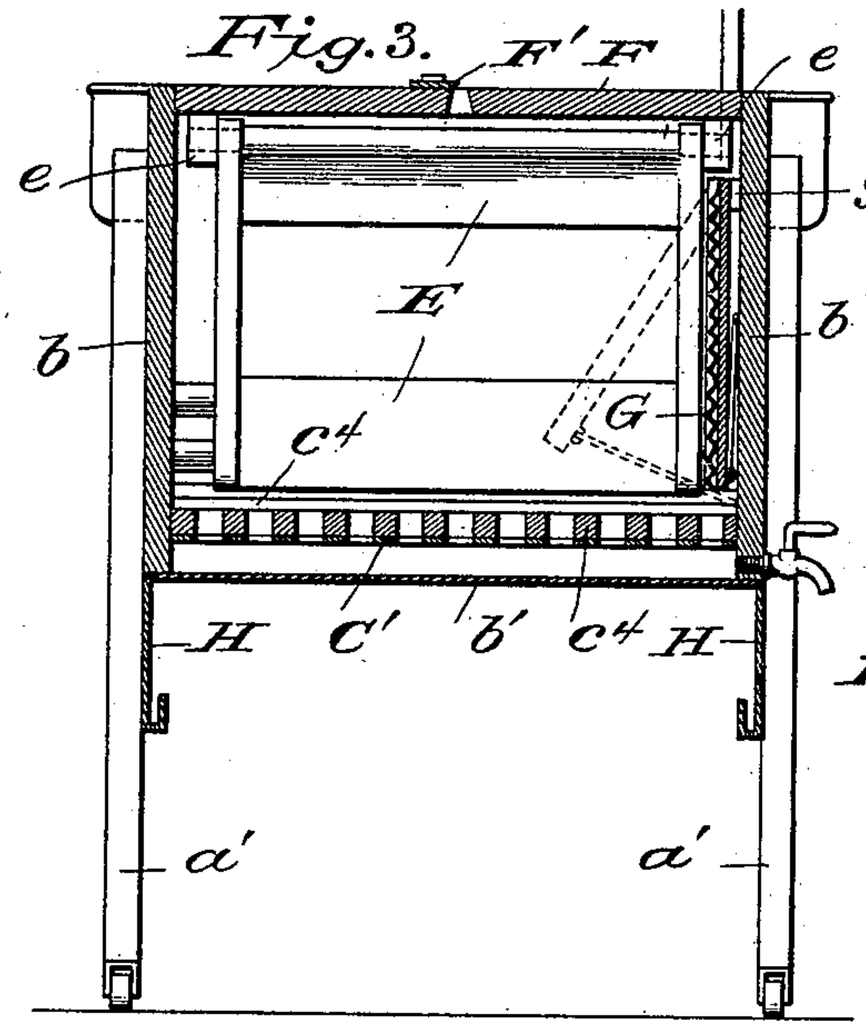
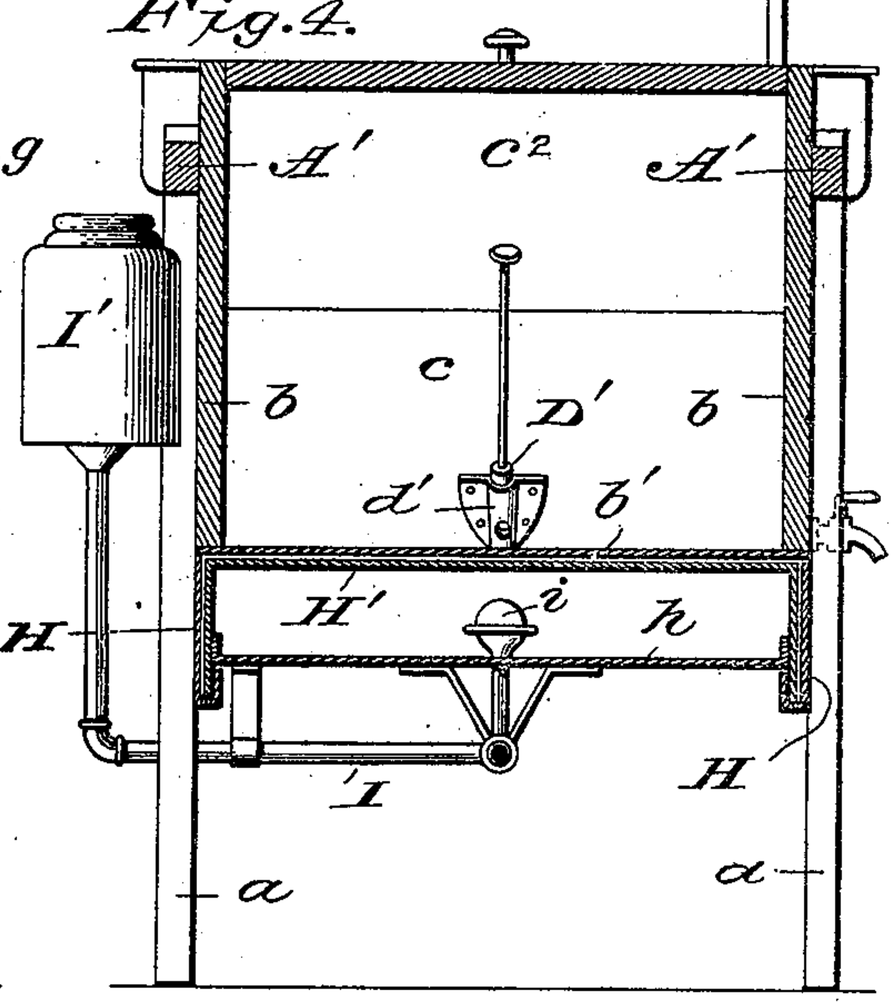


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALBERT W. DAVIS, OF HARVEY, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 601,950, dated April 5, 1898.

Application filed February 23, 1897. Serial No. 624,522. (No model.)

To all whom it may concern:

Be it known that I, ALBERT W. DAVIS, a citizen of the United States of America, residing at Harvey, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a washing-machine the body of which is constructed to present two compartments, each having a metallic bottom, and beneath said bottoms being located a slide carrying two burners, which are fed from a tank or reservoir common to both, the said burners being provided with suitable valves, and the slide so arranged that it may be drawn partly out to afford means for heating or cooking starch.

A further object of the invention is to provide the washtub proper with a reciprocating rubber that operates over a perforated bed, said tub also carrying a washboard and a platform to receive an ordinary clothes-wringer.

With the above objects in view the invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a washing-machine constructed in accordance with my invention, the slide being in position to locate the burners beneath the two compartments of the tub. Fig. 2 is a vertical longitudinal sectional view in which the slide is drawn out to present a heating-surface beyond the tub. Fig. 3 is a vertical sectional view on the line 3 3 of Fig. 2. Fig. 4 is a sectional view on the line 4 4 of Fig. 2.

A designates the tub, which is supported upon legs a and a', the lugs a' having suitable casters or rollers, and the opposite end of the tub being provided with handles A', by which the machine may be raised and wheeled from place to place. The body of the tub is made up of side pieces b b, to which is attached a metal plate b', forming the bottom and one end of the tub, the other end being formed by a lower inclined board b^2 and upper vertical board c'. In one of the side pieces of the tub are bored apertures or holes b^3 and b^4, located near the metal bottom, the holes being fitted with spigots or cocks of any suitable construction for drawing off water. The tub is divided into two compartments by a partition presenting an inclined board c and an upper vertical board c^2. To the upper edge of the board c^2 is attached a cross-piece c^3, said cross-piece being secured at its ends to the side pieces b b of the tub. The partition divides the tub into two compartments C and D, the end walls of the former being inclined toward the bottom, as shown, the inclined wall c being provided with an aperture d and a valve-casing d', which is adapted to receive a conical cut-off D', the valve-seat being of sufficient length to support the handle, which is attached to the cut-off.

C' designates a metallic bottom, which is attached to the inclined pieces c and b^2 and is provided with apertures, above which are secured transverse slats c^4, having corresponding apertures. These slats are rounded on their upper edge to provide a suitable rubbing-surface for the clothes.

E designates an oscillating rubber, which is made up of cross-pieces attached to depending side pieces, said side pieces and upper cross-bar having a suitable shaft, which is journaled in bearings e, depending from the lid F. The handle projects through the lid, the latter being provided with an elongated opening to permit of the operation of the said handle. The lid F is hinged to the cross-piece c^3 and is provided centrally with an opening adjacent to which are knives or cutters of any suitable construction to cut soap which is passed back and forth across the soap-shave F'. The lid F when lowered rests upon cross-pieces f and f', which are attached to the side pieces, and said lid is not the whole length of the opening, but shorter, to provide a space under the wringer through which the water that is pressed out of the clothes may pass into the tub.

At one side of the tub there are suitable

projections *g g*, to which are pivoted the upper ends of a washboard G, and to the lower ends of this washboard is secured a pivoted bail adapted to hold the washboard in an inclined position, as shown in dotted lines, Fig. 3. When it is desired to use the washboard, the lid F is thrown back, which carries with it the oscillating rubber. The washboard is used in washing parts of such pieces as are stained or are not completely cleansed by the machine.

To the legs *a* and *a'* are attached metal strips H, the lower edges of which are turned up to provide channels which receive the lower edges of the side pieces of a slide H', said slide having an open bottom and an end wall provided with knobs. To about the center portion of this slide is rigidly secured a cross-piece *h*, having depending brackets to which are attached pipes I, having a coupling for connecting the pipe which leads to an oil-tank I'. The outer ends of the pipes I are upturned and provided with suitable burners *i*, which have cut-off valves. The operating-rod of one of the valves extends through the front wall of the slide, while the rod of the other valve extends a short distance in the other direction. The slide is cut away above the burners, so that the heat will come in direct contact with the bottom of the compartments of the tub. It will be noted that when the slide is drawn outward one of the burners will be positioned under the compartment D, one end of the slide H projecting beyond said compartment to provide a convenient means for cooking starch or permit the burner to be used for other purposes than that of heating the water in the tub. When the slide is moved inward, one of the burners will be under the compartment C and the other under the compartment D, and the valves of both burners can be readily adjusted, as the operating-rods extend beyond opposite sides of the tub.

In washing clothes with my improved machine water is placed in the compartments C and D and heated. The clothes are then placed in the receptacle C with soap and allowed to boil for a sufficient length of time, when they may be washed by oscillating the handle, which is attached to the rubber. If during the process of washing it is desired to change the water, the dirty water can be drawn off from the compartment C and hot water let into the same from the compartment D by withdrawing the valve D'. If the level of the water in the compartment D is low, the washing-machine can be raised to raise the water-level at one end of said compartment and lower the other compartment, the valve being put in place before the washing-machine is restored to its normal position. In this manner I can not only keep the water in the different compartments hot, but can also have a constant supply of hot water. When the lid of the receptacle D is raised, said receptacle can be used for rinsing the clothes after they are washed, and said compartment may also be used as a starching-tub, and when it is desired to put it to such use the slide may be pulled out and the starch cooked in a suitable receptacle which rests upon the projecting end of the slide.

The washing-machine hereinbefore described has been found to be very efficient in practice, is not complicated in construction, and is easily manipulated.

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

1. In a washing-machine, the combination with a tub divided into two compartments, each having a metallic bottom, means for establishing communication between the compartments, the supporting-frame of the tub being provided with depending side pieces, of a heating apparatus which is longitudinally movable with respect to the compartments of the tub, the same consisting of burners, an oil-supply tank in communication with the burners, a slide to which the burners and oil-tank are attached, the slide having openings above the burners and depending side pieces for engagement with the depending side pieces of the tub, substantially as shown and for the purpose set forth.

2. In a washing-machine, the combination with a tub having a metallic bottom and end, a partition dividing the tub into compartments C, D, one compartment having a bed C' with perforations and slats c^4 having perforations which register with the perforations in the bed, an aperture *d* in the partition positioned below the bed, the compartment D, being formed by the partition, side pieces of the tub and an upward continuation of the metal bottom; together with a cut-off or closure for the aperture *d*, substantially as shown and for the purpose set forth.

3. In a washing-machine, a tub provided with a metallic bottom and end, a partition dividing the tub into two compartments in combination with a slide carried by the frame which supports the tub, said slide having a cross-piece *h* with depending brackets, one of the brackets being disposed at right angles to the other brackets as shown, burners, pipes and an oil-tank supported by the brackets and connected thereby to the slide, substantially as shown and for the purpose set forth.

4. In a washing-machine the combination with a tub having a metallic bottom and end, a partition dividing the tub into two compartments, metallic strips H, H, secured to the frame of the tub, the lower edges of said strips being bent inwardly and upward, of a slide H' having a top portion with apertures, depending side portions for engagement with the lower bent edges of the strips, a transverse plate carried by the slide, brackets which depend from said plate, an oil-tank, burners and connecting-pipes carried by the brackets so as to move in unison with the slide, the burners being disposed below the apertures in the top

portion of the slide, substantially as shown and for the purpose set forth.

5. In a washing-machine a tub having a metallic bottom and depending side plates H, H, in combination with a longitudinally-movable slide carrying heaters and oil-supply tank, said slide having a depending end portion with projecting knobs, and an aperture through which passes a valve-rod which is connected with a burner of the heater nearest the depending end of the slide, substantially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT W. DAVIS.

Witnesses:

W. A. SMITH,

G. W. VAN DRAN.