

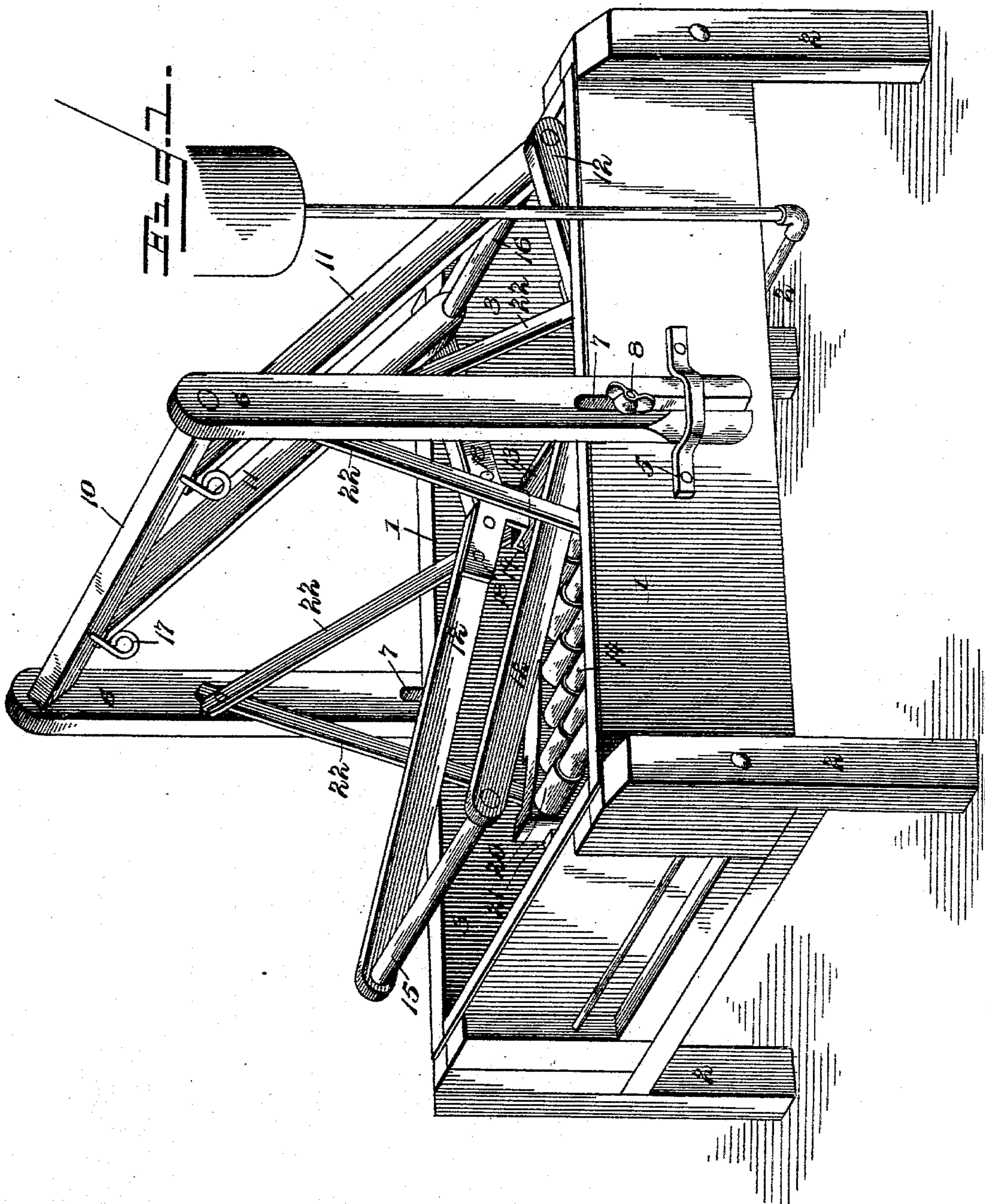
(No Model.)

2 Sheets—Sheet 1.

R. R. STEVENSON.
WASHING MACHINE.

No. 515,944.

Patented Mar. 6, 1894.



Inventor
Randle R. Stevenson,

Witnesses
E. H. Stewart
W. H. Riley

By *his* Attorneys,

Cash & Co.

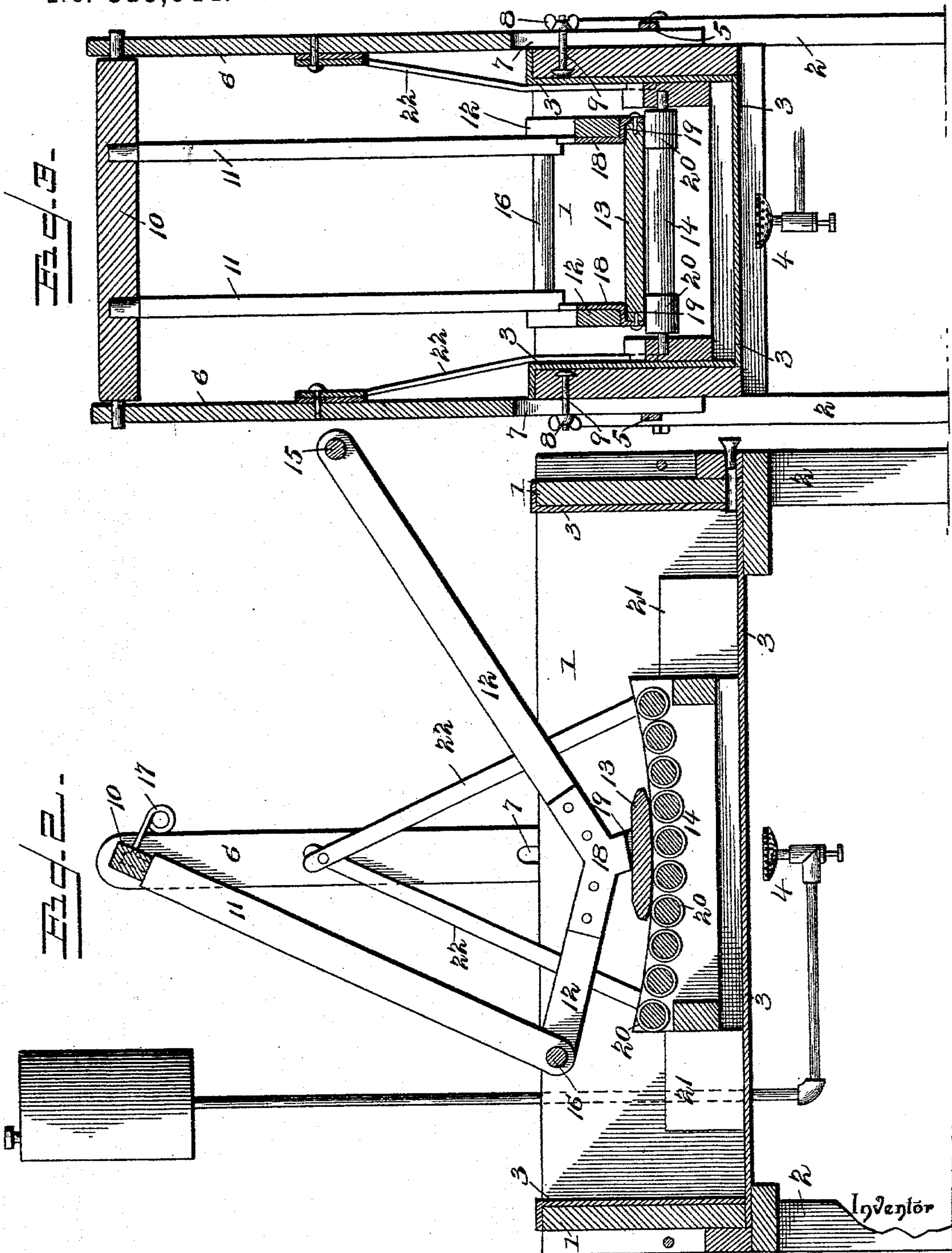
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W. H. Riley

By his Attorneys,

Randle R. Stevenson,

Cashow & Co.

UNITED STATES PATENT OFFICE.

RANDLE R. STEVENSON, OF SUMMERFIELD, LOUISIANA, ASSIGNOR OF ONE-HALF TO JOHN G. STEVENSON, OF SAME PLACE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 515,944, dated March 6, 1894.

Application filed September 5, 1893. Serial No. 484,852. (No model.)

To all whom it may concern:

Be it known that I, RANDLE R. STEVENSON, a citizen of the United States, residing at Summerfield, in the parish of Claiborne and State of Louisiana, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing machines.

The object of the present invention is to improve the construction of washing machines and to increase the strength and durability, and to provide one in which clothes will be rubbed during the operation of washing, and in which the means for rubbing the clothes may be adjusted vertically to correspond with the quantity of water within the washing machine body or suds box.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a washing machine embodying the invention. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates a washing machine body or suds box, preferably rectangular in form and supported by legs 2 and having a sheet metal lining 3 covering the inner faces of the sides and ends of it and constituting the bottom thereof, whereby water may be readily heated by a gasoline or fluid hydrocarbon burner 4. The body is provided at each side with a horizontal keeper 5 receiving a vertically adjustable standard or upright 6, which has its lower end bifurcated or slotted at 7, and which is secured in its adjustment by a clamping or thumb nut 8, and a screw or bolt 9, mounted on the adjacent side of the body and having its head countersunk in the wood-work beneath the sheet metal lining 3. The upper ends of the standards or uprights 6 are provided with bearing openings and have arranged in them journals of a rocking cross-bar 10, from which depend oscillating bars 11 which have pivotally attached to them the lower end

of a handle-frame 12; and the latter carries an oscillating rubber 13, which is arranged to move over a roller-bed 14 and to rub clothes back and forth over the same during the operation of washing, whereby water is forced through the clothes and the dirt and stains are quickly removed. The handle-frame is composed of opposite sides connected at their upper ends by a handle bar 15 and composed of angularly-disposed bars having their lower ends provided with openings and receiving journals of a cross-bar 16, which has its journals extending through both the oscillating bars and the adjacent bars of the handle-frame, whereby the handle-frame is pivotally connected with the oscillating bars. The upper ends of the oscillating bars are provided with tenons and are removably secured in mortises by pins 17. The bars composing the sides of the handle-frame are connected by approximately Y-shaped hinge plates 18, having upper arms secured to the inner faces of the adjacent bars of the handle-frame and provided with angularly bent portions 19 pivoted to the ends of the oscillating rubber by screws, or similar fastening devices, and extending inward over the oscillating rubber to form stop shoulders to limit the rocking of the rubber of the fastening devices.

The roller-bed consists of the rectangular frame and a slightly curved series of transverse rolls provided with metal caps or ferules 20, and having journals arranged in suitable bearing openings or perforations of the sides of the frame; and it is firmly held against longitudinal movement by stop-blocks 21 secured to the sides of the washing machine body and arranged at the ends of the roller-bed. The rollers present slightly concaved upper rubbing faces, and the operation of washing is carried on to the greatest advantage when the water within the body is slightly above the center rolls of the roller-bed, but it is not sufficiently high to submerge the end rolls. The water, during the operation of washing, is constantly varying in depth, due to evaporation and other causes, such as the removal of clothes; and in order to attain the above mentioned conditions, which are most advantageous for washing, it is necessary to render the roller-bed vertically

adjustable with the oscillating rubber. To attain this result the roller-bed is suspended from the uprights or standards by oppositely-inclined suspension bars or strips 22, arranged 5 in pairs at each side of the washing machine and constructed preferably of zinc, or similar material, to avoid rusting the clothes. The upper ends of each pair of suspension bars or strips are secured by a single screw, or similar fastening device, to the adjacent upright 10 or standard, and the lower ends of the suspension bars are secured to the outer faces of the sides of the frame of the roller-bed in recesses thereof.

15 The washing machine body or suds box is provided at one end with a suitable drain opening to permit the water, after washing, to be readily drawn off.

It will be seen that the washing machine is 20 simple and comparatively inexpensive in construction, that it is strong and durable, and by it clothes may be thoroughly and rapidly washed without tearing, wearing, or otherwise injuring them. It will also be noticed that 25 by making the roller-bed vertically adjustable, as shown with the oscillating rubber, the parts are preserved in their proper relation, and the roller-bed may be arranged with relation to the varying quantity of water to enable the 30 washing machine to operate to the greatest advantage.

It is often necessary with washing machines for stationary roller-beds to add a quantity of cold water at intervals to preserve the proper 35 level of the water within the washing machine body, and this covers the contents of the washing machine and delays washing and

interferes with the heating of the washing machine body. It will be readily apparent that these objections are cured by the adjustment of the roller-bed. 40

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention. 45

Having described the invention, what I claim is—

1. In a washing machine, the combination of a body, vertically adjustable standards mounted on the body, an oscillating rubber 50 connected with and carried by the standards in their adjustment, and a roller-bed suspended from the standards and being adjustable with the same, substantially as described.

2. In a washing machine, the combination 55 of a body, vertically adjustable standards mounted on the body, a cross-bar having its ends journaled on the standards, oscillating bars depending from the cross-bar, a handle-frame connected with the oscillating bars, a 60 rubber carried by the handle-frame, a roller-bed arranged beneath the rubber, and suspension bars having their upper ends secured to the standards and their lower ends attached to the roller-bed, whereby the roller-bed is 65 vertically adjustable with the standards, substantially as described.

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

RANDLE R. STEVENSON.

Witnesses:

F. P. KEIGHTON,
M. W. ATKINS.