

D. W. SCOTT.
 WASHING MACHINE.
 APPLICATION FILED NOV. 6, 1908.

933,348.

Patented Sept. 7, 1909.
 2 SHEETS—SHEET 1.

Fig. 1.

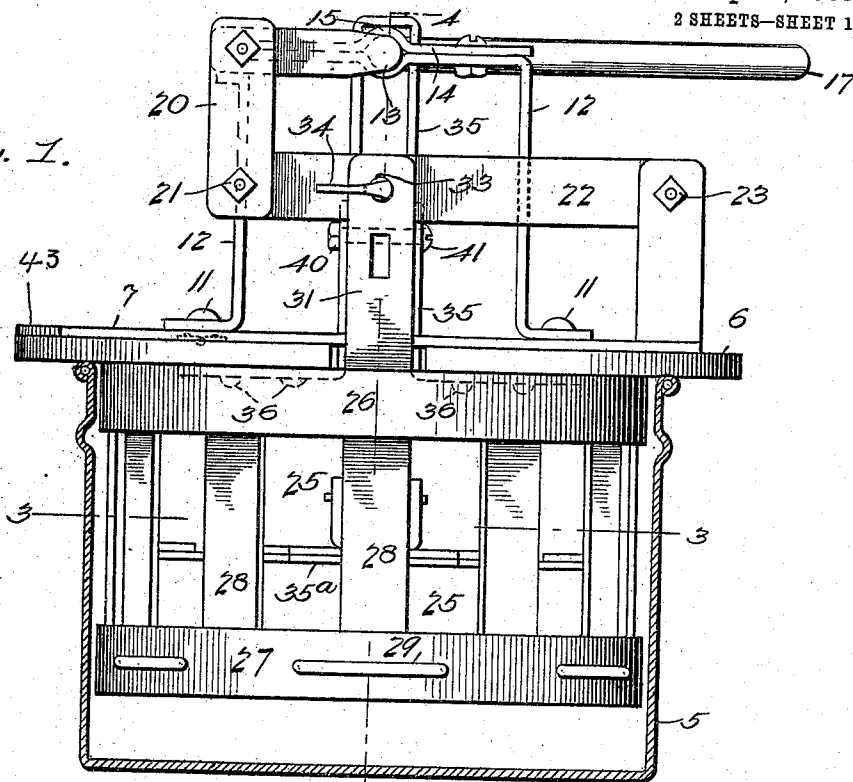
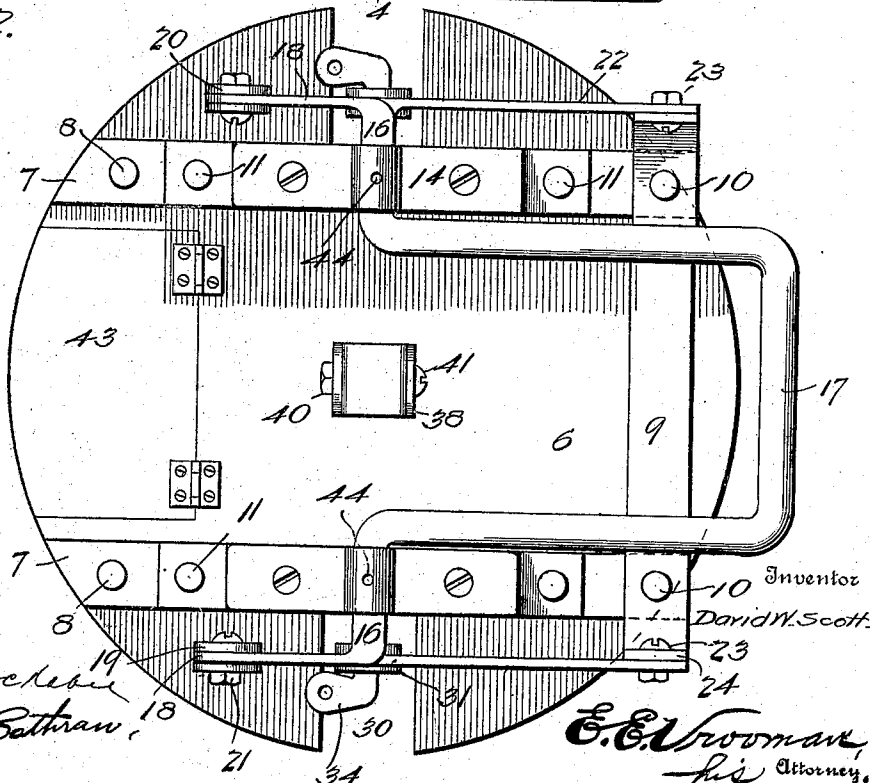


Fig. 2.



Witnesses

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Fig. 3.

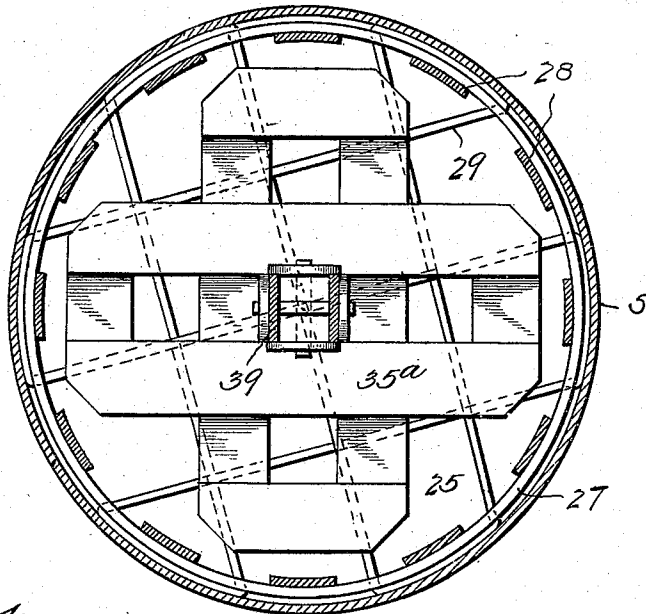
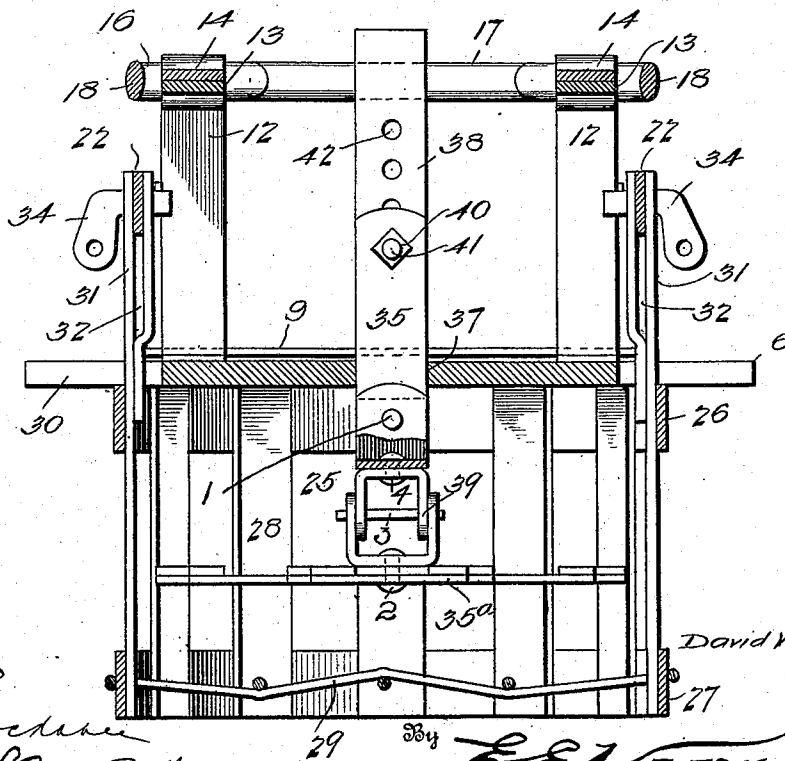


Fig. 4.



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UNITED STATES PATENT OFFICE.

DAVID W. SCOTT, OF WEST MILWAUKEE, WISCONSIN.

WASHING-MACHINE.

933,348.

Specification of Letters Patent.

Patented Sept. 7, 1909.

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To all whom it may concern:

Be it known that I, DAVID W. SCOTT, a citizen of the United States, residing at West Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

10 My invention relates to improvements in machines for washing clothing, and the primary object thereof is to provide a washing machine of simple and novel construction that may be of comparatively small
15 size, yet capable of rapidly and thoroughly cleansing the clothing.

Another object of the invention is to provide a simple, quick and efficient machine for washing clothes with great ease without
20 having any deleterious effects upon the most delicate fabrics by subjecting the clothes to the pounding action of a reciprocating element, this operation being carried on in a suitable tub or container so that the water,
25 which is preferably hot and soapy, may be thoroughly forced through the interstices of the clothes and in this manner secure the maximum detergent qualities of the admixture of soap and water.

30 To the accomplishment of the recited objects and others coördinate therewith, the preferred embodiment of my invention resides in that construction and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and embraced
35 within the scope of the appended claims.

In said drawings:—Figure I is an elevation of the complete invention partly in section. Fig. II is a plan view of the tub
40 cover and the appurtenant operating mechanism. Fig. III is a transverse section taken along lines 3—3 of Fig. I. Fig. IV is a transverse vertical section taken along lines 4—4 of Fig. I, the tub not being shown.

45 Referring more particularly to the drawings for a detail description of my invention, the numeral 5 designates a tub which may be of any preferred construction and arrangement. Resting on the upper edge of
50 the tub and having a greater circumference than the latter for the purpose of insuring a perfect and reliable seat is a cover (6),

which may be formed of a single piece of wood, and has arranged in parallelism on opposite sides of the diameter thereof the
55 metallic strips (7), the latter intersecting the arcs of the circumference of said cover as to present chords and being fastened to the cover by the screws (8). It will be noted in this connection that one pair of the distal
60 ends of the strips (7) are flush with the periphery of the cover (6) and that the opposite terminals protrude slightly beyond the top of said cover. I have devised this arrangement in order that the extended terminals
65 may present receptive bearing surfaces for the U-shaped transversely extending piece (9), the latter being riveted to said strips, as at 10. Arranged approximately medially of the longitudinal extent of each strip (7)
70 and having its outwardly extending base portions secured thereto, as at 11, is an inverted U-shaped support (12), the upper horizontal portions of said supports having a central and transversely extending semi-
75 circular depression (13) and a congruent plate (14) with a similar depression (15), this organization providing suitable bearings for the trunnions (16) which are right angularly deflected with respect to and
80 formed as an integral part of the operating handle (17) and have formed as a part thereof the flattened terminals (18), arranged in parallelism relative to each other and the side portions of the U-shaped handle
85 (17). Pivotaly secured to the outer extremital portions of each arm (18) by the coupling bolt (19) is a pair of depending links (20), the lower ends of which are likewise secured, as at 21, to the inner terminals
90 of the rocking bar (22), the outer terminals of said bar having pivotal connection at 23 with the vertically disposed arms (24) of the member (9).

Inclosed within the tub (5) is a basket
95 (25) having a general cylindrical conformation and comprising in its construction a pair of circular bands (26) and (27) joined by the spaced vertical slats (28) and having a woven wire bottom (29) of coarse mesh,
100 the wires being fastened to the lower band (27). Manifestly, the basket may be otherwise constructed to be foraminous or reticulated. At diametrically opposite points of

the basket one of the slats (28) is continued upwardly a considerable distance beyond the band (26) and the cover (6), the latter being obviously provided with slots (30) for the passage and operation of these extensions, which for the sake of clearness of illustration will be designated by the numerals (31). The upper extremity portion of each member (31) is bifurcated, as at 32, and arranged through the portions constituting said bifurcation is a key slot (33), the rocking bars (22) being equipped with slots designed for registration with said first mentioned slots, a pivotal locked connection being attained by the keys (34).

In conjunction with the foregoing mechanism I employ what might be termed a presser or follower, the same comprising pairs of slats joined at their opposite ends and arranged in superposed relation at right angles to each other to present the general conformation of a cross. Among the co-operative features of this mechanism is a pair of opposed angle irons (35), the horizontal portions of which are secured to the underneath side of the cover (6) as at 36, the vertical arms extending through the slot (37) arranged medially of said cover. Adjustably and slidably mounted with respect to the vertical extensions of the angle irons is an elongated inverted U-shaped member (38), the lower distal ends of which are connected to the presser through the medium of the universal joint (39). This universal joint, consists of three pieces of U-iron, the topmost one being pivoted, as at 1, to the lower proximal end of the member 35, and the lowermost one having connection with the follower (35^a) at 2, and the latter being wide enough to inclose the inverted intermediate U-iron, to which it is pivotally fastened by the transversely arranged pin (3), the intermediate U-iron being in turn secured to the topmost U-iron, as at 4. The upper terminals of the angle irons are provided with apertures (40) for the reception of the coupling bolt (41) and in furtherance of this adjustable feature both sides of the U-shaped member (38) are similarly perforated, as at 42, to register with the first mentioned perforations in the angle irons (35).

To permit ready access to the tub (5) I preferably provide a hinged door (43) in the cover. The plates (14) are also equipped with apertures (44) for purposes of lubrication.

In practical operation the tub (5) is filled three-fourths of its depth with hot soapy water and the clothes are placed within the basket (25). This operation may be attained either by resort to the opening of the door (43) in the cover (6) or first placing the clothes in the basket and subsequently connecting the latter with the operating

mechanism by means of the key and key slot arrangement hereinbefore described. Assuming that the clothes are in the basket and the desired adjustment of the follower (35^a) is secured, the handle (17) is oscillated which through the medium of the toggle like connections and the slots (28) imparts a reciprocatory movement to the basket (25), the clothes contained therein contacting with the said follower which owing to the universal connection with the inverted U-shaped member (38) will equalize the pressure on the clothes and force the detergent admixture of soap and water there-through. The pressure of the follower (35^a) may be adjusted according to the quantity of clothes contained in the basket by manipulating the coupling bolt (41) in the aligned perforations (42). After this operation has been continued a sufficient length of time the clothes may be readily removed from the basket by again resorting to the door or the detachable connections.

It will thus be seen that I have devised a washing machine which is thoroughly effective and reliable in operation and which furthermore may be dissembled with facility to permit a storing or removal of the clothes from the basket.

Having thus described my invention what I claim as new is:—

1. In a washing machine, the combination of a tub having a cover, a basket within said tub, a follower coöperating with said basket, and means for permitting angular movement of said follower in all directions when the basket is operated.

2. In a clothes-washing machine, the combination of a tub having a cover, a basket within said tub, a follower coöperating with said basket, means for permitting angular movement of said follower in all directions, and means carried by the cover for imparting a reciprocatory movement to said basket.

3. In a clothes-washing machine, the combination with a tub having a cover, of a basket mounted within said tub and having uprights projecting through said cover, a pair of rocking bars mounted on said cover and connected to said uprights, an oscillatory handle connected to said bars, a follower coöperating with said basket and means for permitting angular movement of said follower in all directions.

4. In a clothes-washing machine, the combination with a tub having a cover, a reciprocatory basket mounted in said tub, a pair of angle irons secured to said cover and extending vertically therefrom, a member slidably adjustable with respect to said angle irons, and a follower connected to said member and having an angular movement in all directions.

5. In a washing-machine, the combination with a tub having a cover, of a basket mount-

ed within said tub and having uprights projecting through said cover, a pair of rocking bars mounted on said cover and connected to said uprights, a handle connected to said bars, a pair of angle irons secured to said cover and extending vertically therethrough, a member slidably adjustable with respect to said angle irons, and a follower connected to

said member and having an angular movement in all directions.

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

DAVID W. SCOTT.

Witnesses:

CHARLEY DAVIS,
WILLIAM A. PIERCE.

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