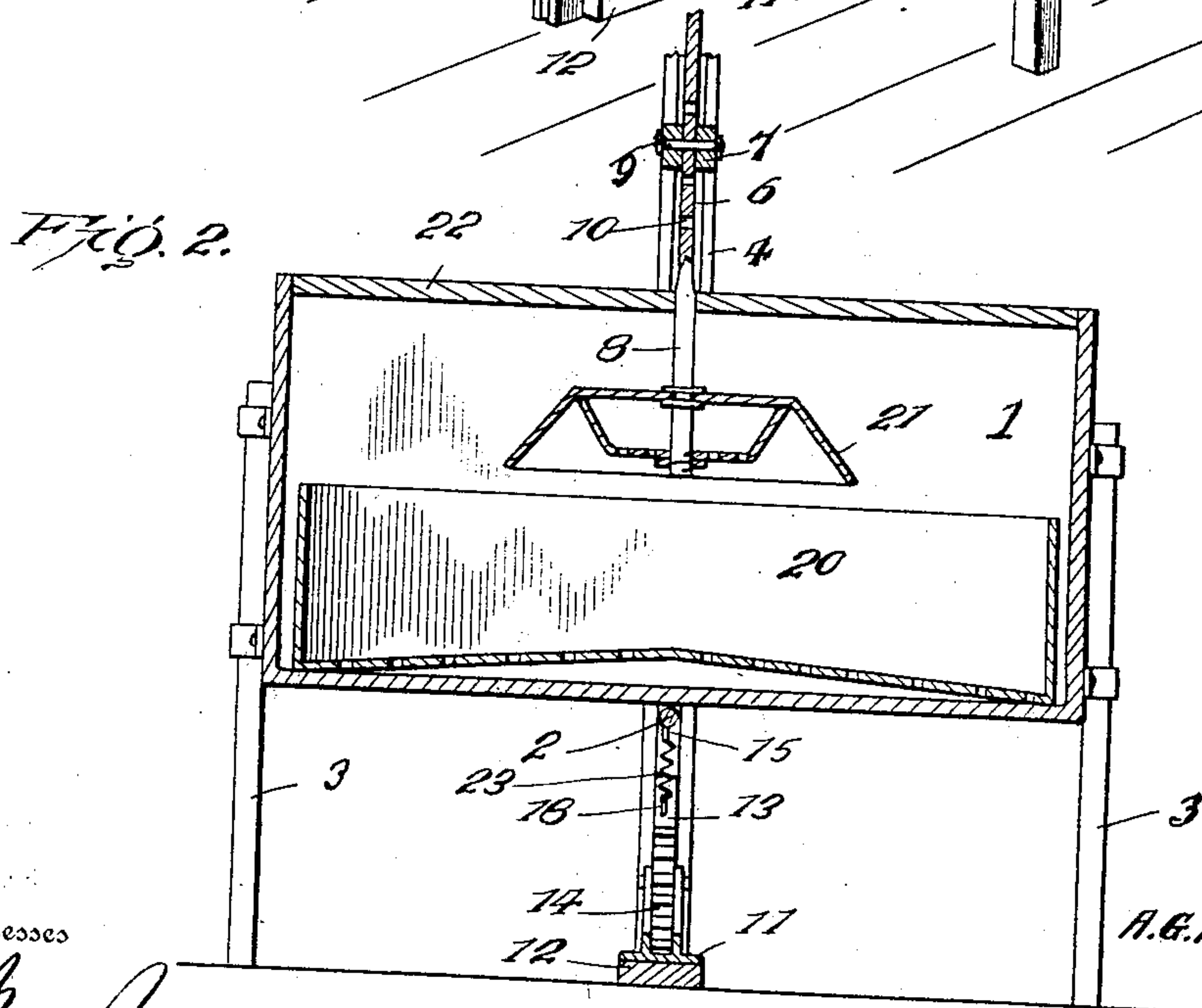
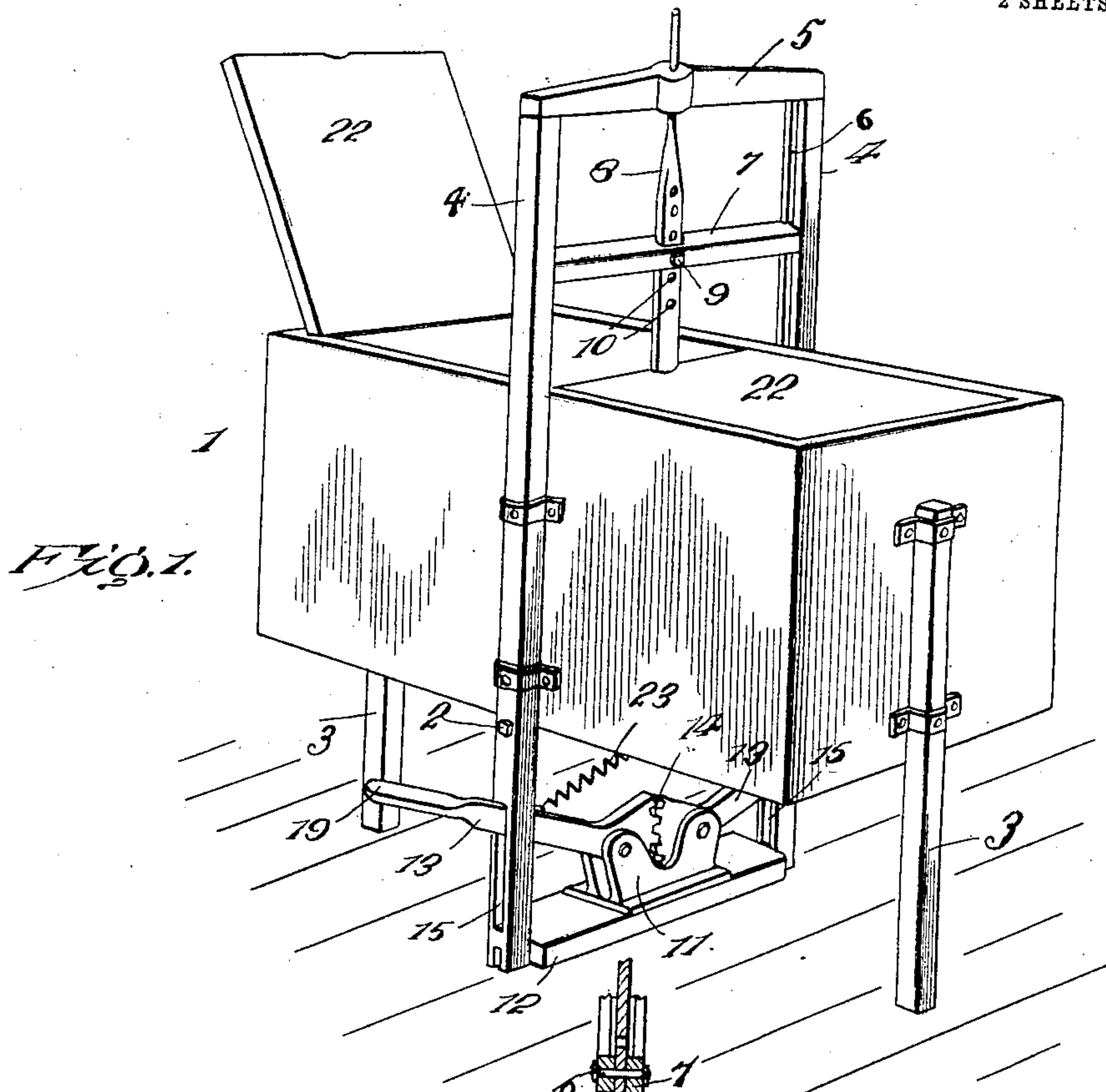


No. 810,549.

PATENTED JAN. 23, 1906.

A. G. MOECKEL.  
WASHING MACHINE.  
APPLICATION FILED JUNE 10, 1905.

2 SHEETS—SHEET 1.



Witnesses

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# UNITED STATES PATENT OFFICE.

ARATINE G. MOECKEL, OF DALLAS, TEXAS, ASSIGNOR OF ONE-FOURTH TO SAM FRESHMAN AND ONE-FOURTH TO Z. J. REESE, OF DALLAS, TEXAS.

## WASHING-MACHINE.

No. 810,549.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed June 10, 1905. Serial No. 264,701.

*To all whom it may concern:*

Be it known that I, ARATINE G. MOECKEL, a citizen of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention relates to a washing-machine, and more particularly to that type in which a plunger is caused to reciprocate up and down within the tub, thereby creating a pressure upon the clothes and keeping the contents in an agitated condition.

It has for its object to produce a machine of this character which is operated by a treadle mechanism and with a small expenditure of energy and which is so simple and durable in construction as to be economically manufactured and used.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of the washing-machine as constructed by me. Fig. 2 is a vertical longitudinal sectional view showing the plunger in a raised position. Fig. 3 is a transverse sectional view. Fig. 4 is a similar view showing the plunger as depressed.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The numeral 1 designates the tub proper, which may be formed of any suitable material and is supported upon a horizontal bar 2, connecting the upright standards 4, which are arranged upon opposite sides of the tub and extend above the same, their upper extremities being connected with a transverse beam 5. The ends of the tub are supported by a pair of legs or standards 3, which aid in holding the same in an upright position. It will be observed that the standards 4 are provided upon their inner faces with longitudinal grooves 6, which extend throughout their entire length. The portions of the grooves 6 above the tub serve as a guideway for a cross-bar 7, which is slidably mounted therein. A plunger-rod 8 is passed through an opening in the cross-bar 7 and is adjustably connected thereto by means of a pin 9, which is adapted to pass through any one of the series of openings 10. The upper portion

of this plunger-rod is passed through an opening in the transverse beam 5, which serves as a guide therefor and holds it in a vertical position.

A metal casting 11, provided with two pairs of spaced lugs, is secured to a cross-bar 12 beneath the tub by bolts or other suitable means. Treadles 13 are pivotally mounted between the spaced lugs and are provided with intermeshing segment-gearing 14, so that they operate in unison. The opposite ends of the treadles pass through slots 15 in the upright members 4 and are provided with foot-plates 19. These treadles are connected to the cross-bar 7 by means of rods 17, which pass through the longitudinal grooves 6 in the upright standards 4. The upper ends of the rods 17 are threaded and provided with two nuts to engage the opposite sides of the cross-bars 7, while the lower ends are attached to the treadles 13 by means of eyebolts 18. It will thus be seen that the length of the rod 17 can be adjusted to take the wear or suit the requirements of the occasion. Coil-springs 23 connect the horizontal bar 2 and the eyebolts 18 and tend to hold the treadles always in a raised position.

Fitting within the main tub 1 there is a supplemental tub 20, which has its bottom pressed inward and provided with perforations which aid the plunger in keeping the water constantly in motion. The plunger comprises a sheet-metal pan 21 and a smaller pan which is inverted and placed within the larger pan, the base of the smaller pan being provided with a number of perforations.

In operation it will be seen that any downward pressure applied upon the foot-plates 19 will operate, through the treadles 13 and rods 17, to pull the cross-bar 7, and hence the plunger-rod 8, downward and will cause the plunger to descend within the tub and squeeze the contents thereof. At the same time a portion of the water within the inner tub is forced out through the perforations in the bottom thereof. When the pressure upon the foot-plate 19 is removed, the springs 23 will automatically raise the plunger and treadles into position for another downward stroke. When the plunger is raised, the water which was forced out of the inner tub by the downward stroke will work its way back through the perforations, and thus the water will be kept continually agitated. Covers 22 may be employed and preferably comprise sections which are hinged to oppo-



site ends of the tub and fall over on each side of the plunger rod 8.

It will thus be seen that I have invented a washing-machine which enables the clothes  
5 to be tightly squeezed at each downward stroke of the plunger and which can be operated without a great exertion.

Having thus described the invention, what is claimed as new is—

10 1. In a washing-machine the combination of a tub, means for supporting same in a raised position, upright members extending above the tub on opposite sides thereof, a cross-bar slidably mounted above the tub  
15 and directed in its movements by said upright members, a plunger attached to the cross-bar, a pair of treadles located beneath the tub, rods connecting the cross-bar and the treadles, and springs to hold the treadles nor-  
20 mally in a raised position.

2. In a washing-machine the combination of a tub, means for supporting same in a raised position, upright members extending above the tub on opposite sides thereof, a  
25 cross-bar slidably mounted above the tub within grooves in the said upright members,

a plunger attached to the cross-bar, a pair of treadles located beneath the tub and operating in slots in the upright members, and rods connecting the ends of the cross-bar and the  
30 treadles and located within the upright members.

3. In a washing-machine the combination of a tub, means for supporting same in a raised position, upright members extending  
35 above the tub on opposite sides thereof, a cross-bar slidably mounted above the tub within grooves in the said upright members, a plunger attached to the cross-bar, a pair of treadles beneath the tub which operate in  
40 unison and pass through slots in the upright members, rods connecting the ends of the cross-bar and the treadles and located within the upright members, and springs to hold the treadles normally in a raised position. 45

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

ARATINE G. MOECKEL. [L. s.]

Witnesses:

H. D. ARDREY,  
W. F. BEAVER.