No. 635,001.

Patented Oct. 17, 1899.

H. A. SCHOREGGE.

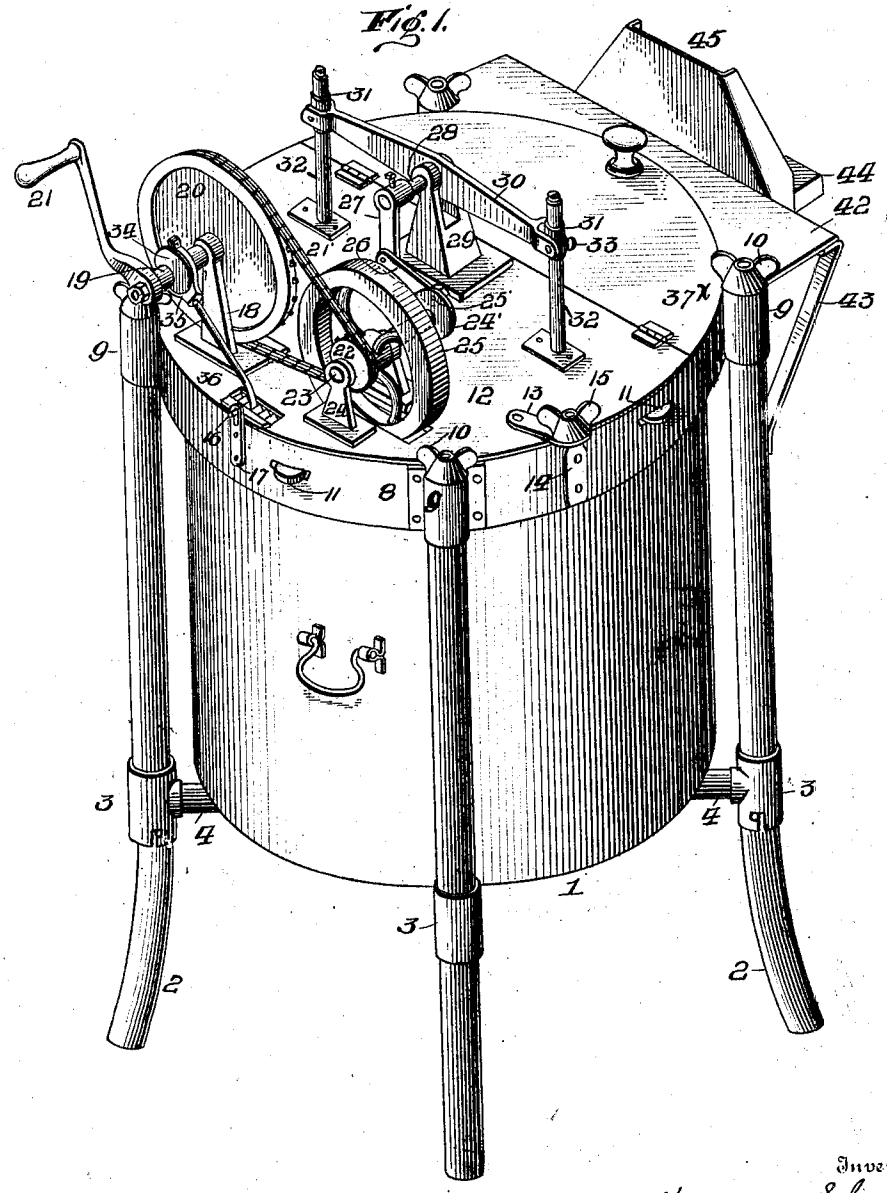
WASHING MACHINE.

(Application filed May 11, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



Witnesses
J. M. Fowler Jr.
Thomas Durant

Inventor
Herman A. Schoregge.
by Church & Church
his Attorneys.

No. 635,001. Patented Oct. 17, 1899.

H. A. SCHOREGGE.

WASHING MACHINE.

(Application filed May 11, 1899.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

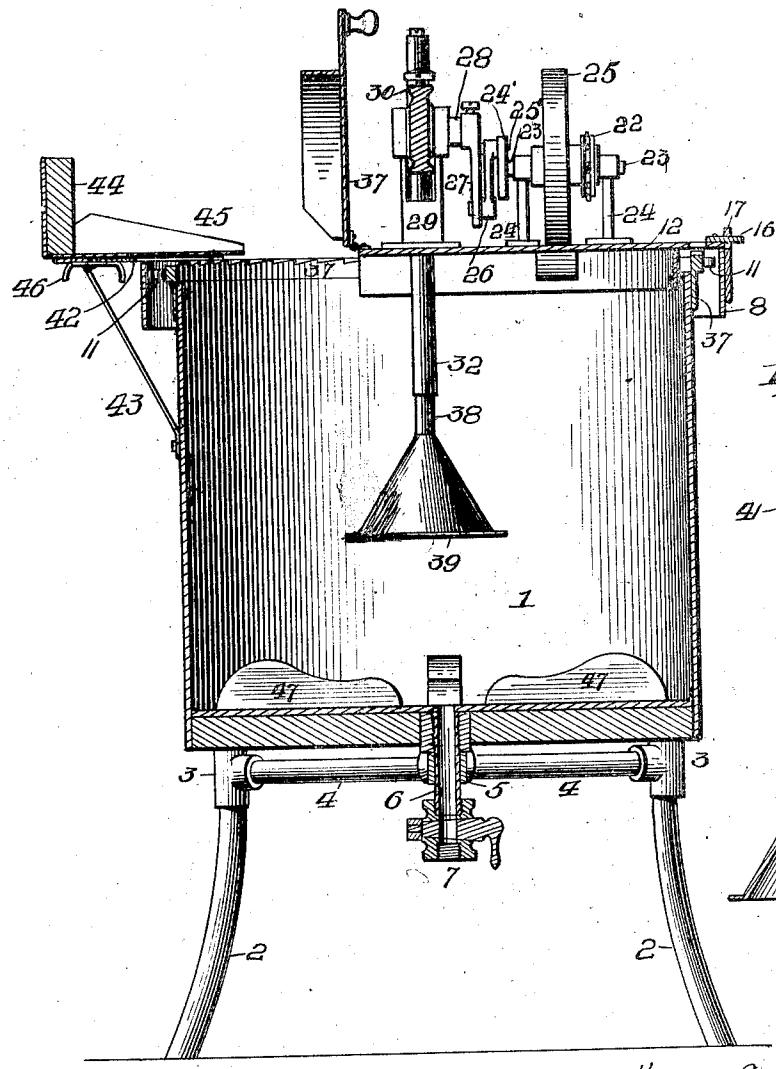
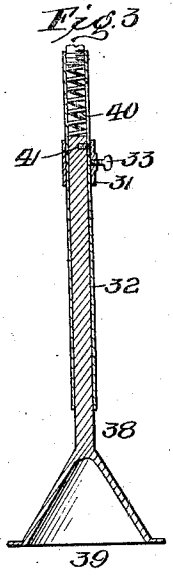


Fig. 3.



Witnesses
J. M. Fowler Jr.
Thomas Durant

Inventor
Herman A. Schoregge.
by Church & Church
his Attorneys

UNITED STATES PATENT OFFICE.

HERMAN A. SCHOREGGE, OF WAKEFIELD, NEBRASKA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 635,001, dated October 17, 1899.

Application filed May 11, 1899. Serial No. 716,434. (No model.)

To all whom it may concern:

Be it known that I, HERMAN A. SCHOREGGE, a citizen of the United States, and a resident of Wakefield, in the county of Dixon and State of Nebraska, 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 same, reference being had to the accompanying drawings, forming part of this specification, and to the figures of reference marked thereon.

This invention relates to improvements in washing-machines, particularly to that class known as "pounder" machines; and it consists in certain novel details of construction and combinations and arrangements of parts, all as will be now described and the particular features of novelty pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a machine constructed in accordance with this invention. Fig. 2 is a longitudinal vertical section. Fig. 3 is a detail view of one of the plungers.

Like numerals of reference in the several figures indicate the same parts.

Referring to the drawings, 1 represents the receptacle or tub for holding the clothes to be washed, formed, preferably, of metal and cylindrical in form.

2 are legs or standards, preferably of tubing or gas-pipe, there being four of these in the present instance, to which are connected by a bayonet connection the T-couplings 3. To each of these couplings are secured the cross-pieces 4, also of gas-pipe, the inner ends of these pieces 4 being held in the four-way coupling 5, the latter being provided with a central opening for a purpose to be hereinafter explained.

The tub or receptacle 1 rests upon the coupling 5, and a drain-pipe 6, leading from the tub, passes down through the opening in the coupling 5, thereby guiding the tub as it is turned, as will be presently explained. A cock 7 is attached to the pipe 6.

For guiding and steadying the tub at the top in the rotary movement a ring 8 is provided, upon which are mounted bails or ears 9, which fit over the upper ends of the legs 2, thumb-nuts 10, screwing down on the ends of the legs, holding the ring firmly in place, as shown clearly in Fig. 1. At intervals in the ring 8 are the friction-rollers 11.

The top 12 of the tub carries the operating mechanism and is held firmly in place by means of the hooks 13, which engage with the lugs or projections 14, secured to the ring 8, being locked by the thumb-nuts 15. The top 12 is also provided with a lug or projection 16, which passes through an eye or loop 17 on the ring, together serving to position the top and assist in holding it in place.

Mounted in bearings in a bracket 18 is a shaft 19, carrying a sprocket-wheel 20, a suitable handle 21 being carried at the end of the shaft 19, by which the shaft is turned. Around the sprocket-wheel 20 passes a sprocket-chain 21', which also passes over a relatively small sprocket-wheel 22, carried by a shaft 23, mounted in bearings in the brackets 24 24, a fly-wheel 25 being carried by this shaft 23.

Mounted on the end of the shaft 23 is a disk 24', which carries a pin 25', and to this pin is connected one end of a connecting-rod 26, the other end of this rod being connected to one end of the crank-arm 27. The other end of crank-arm 27 is fast on a shaft 28, mounted in bearings in the bracket 29, and also fast on the shaft 28 is the walking-beam 30.

The ends of the walking-beam 30 are bifurcated, and between the bifurcations are pivoted the sleeves 31, as shown in Fig. 1, and in these sleeves are adjustably held the tubes 32, passing down into the interior of the tub, said tubes being held in adjusted position by set-screws 33.

Upon the shaft 19 is mounted an eccentric 34, having the usual strap 35, and to the strap is secured the rod or pawl 36. This pawl extends down through a slot in the top or cover 12, and its end engages with the teeth of the ring 37, secured to the top of the tub or box 1, whereby the tub will be given a rotary step-by-step movement, as will be presently explained.

The cover or top 12 has a hinged portion 37× to permit access to the interior of the tub. Within the tubes 32 are fitted to work the stems 38 of the pounders 39, and between the upper ends of the stems and the top of the tubes are interposed coiled springs 40, a screw 41, working in a slot in the tubes, limiting the

movements of the plunger. By this construction the plungers can yield to accommodate themselves to different thicknesses of clothes that may be in the tub.

Secured to the legs 2 at the side of the tub adjacent to the hinged portion 37 of the cover thereof is a platform or support 42, supported upon brackets 43, and to this platform is hinged a clothes-wringer support. This wringer-support consists of the base or block 44, to which the wringer may be clamped, and to this block is secured a drain-spout 45, adapted to extend over the edge of the tub, so that water from the clothes may flow into the tub, all as shown in Fig. 2. When the clothes-wringer support is in operating position, it is held there by means of an ordinary turnbuckle or latch 46, as will be readily understood from an inspection of said figure. When not in use, the clothes-wringer support may be turned down out of the way, as shown in Fig. 1.

On the bottom of the tub or receptacle for holding the clothes are lugs or projections 47, by means of which the clothes being washed will be brought under the plungers as the tub is turned.

The operation of the machine will now be understood. The clothes having been placed in the tub, the handle is turned, thus revolving the sprocket-wheel 20, the power being transmitted through the sprocket-chain to the sprocket-wheel 22, and through the disk and pin and connecting-rod and crank-arm the walking-beam will be oscillated, thereby operating the plungers up and down upon the clothes. The pawl carried by the eccentric on the shaft 19 will also be operated and engaging the teeth on the top of the tub give the tub a rotary motion to bring different portions of the clothes to the action of the pounders.

The device, it will be seen, is simple, can be readily knocked down for transportation, and easily set up.

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

1. In a washing-machine, the combination with the tub, the frame in which said tub is mounted, the cover, the drive-shaft mounted on said cover, the walking-beam carrying the plungers, also mounted on the cover, operatively connected with the drive-shaft, the toothed ring carried by the tub at the upper end and the pawl carried by the drive-shaft adapted to engage with the teeth of the ring; substantially as and for the purpose set forth.

2. In a washing-machine the combination with the tub or clothes-receptacle, the frame or support upon which the tub is pivotally supported, the cover, the walking-beam, the plungers carried by the walking-beam, the crank-arm carried by the shaft of the walking-beam, the fly-wheel, connecting-rod between the shaft thereof and crank-arm 27, the sprocket-wheel 22, on the shaft of the fly-wheel, the drive-shaft, the sprocket-wheel 20 mounted thereon, the chain connection between sprocket-wheels 20 and 22, the eccentric on the drive-shaft, the strap, the pawl secured to said strap, the toothed rim at the upper end of the tub with which the pawl engages, whereby when power is applied to the drive-shaft the plungers will be reciprocated and the tub rotated; substantially as described.

3. In a washing-machine, the combination with the tub, the frame or support in which the tub is removably held, consisting of the legs or standards and cross-pieces removably secured to said legs, the coupling in which the inner ends of the cross-pieces are removably secured, and the guide-rim removably mounted on the legs near the top thereof; substantially as described.

HERMAN A. SCHOREGGE.

Witnesses:
GEO. CHILDS,
M. MCCORKINDALE.