No. 810,427. PATENTED JAN. 23, 1906.

A. L. OWENS.

WASHING MACHINE.

APPLICATION FILED OCT. 27, 1903.

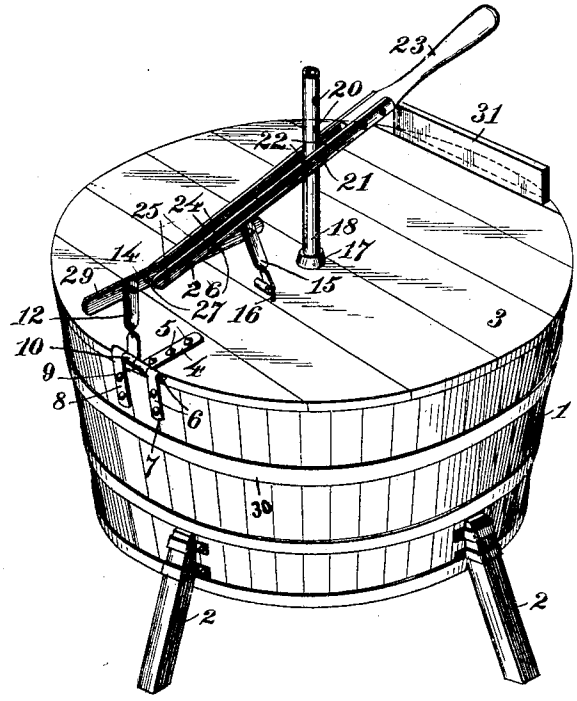


Fig. I.

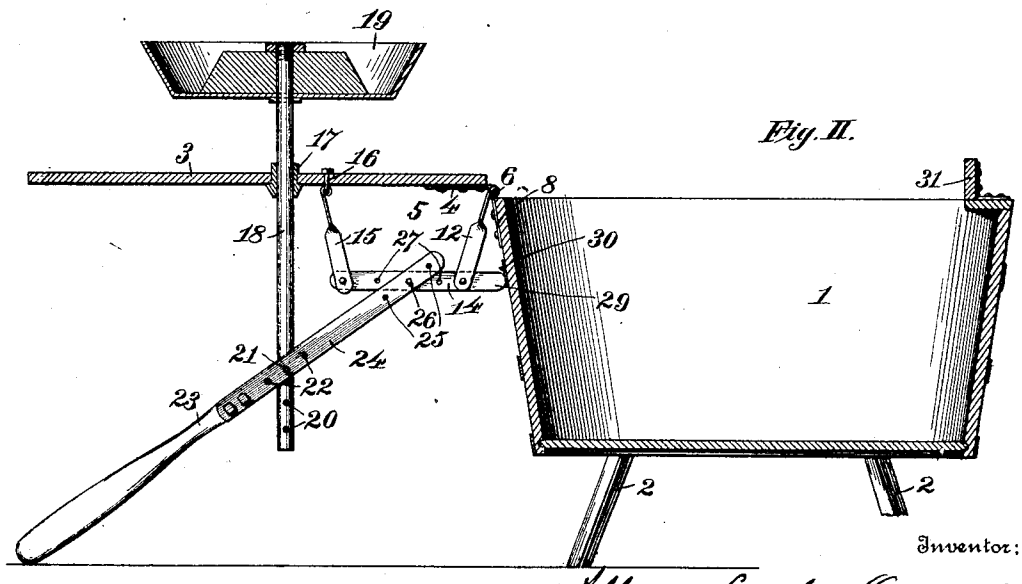


Fig. II.

Witnesses

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ALLAN LAYTON OWENS, OF ATCHISON, KANSAS.

WASHING-MACHINE.

No. 810,427. Specification of Letters Patent. Patented Jan. 23, 1906.

Application filed October 27, 1903. Serial No. 178,760.

To all whom it may concern:

Be it known that I, ALLAN LAYTON OWENS, of Atchison, in the county of Atchison, State of Kansas, have invented certain new and useful Improvements in Washing-Machines, of which the following is a complete specification, reference being had to the accompanying drawings.

The object of my invention is to produce a simple, cheap, and efficient machine for washing fabrics.

What constitutes my invention I shall hereinafter describe in detail, and succinctly set forth in the appended claims.

In the accompanying drawings, Figure I is a perspective view of a preferred form of embodiment of my machine with the lid closed looking down upon the top thereof. Fig. II is a central vertical section, partially in elevation, of the subject-matter of Fig. I, showing the lid open and supported in a horizontal position by the agitating-member-actuating mechanism to constitute it into a table, to be used, for example, to lay clothes upon when they are taken from the tub and wrung out after entire or partial completion of the washing operation.

Referring to the numerals on the drawings, 1 indicates a receptacle or tub of any suitable form and dimensions and made of any preferred material. As a matter of convenience it is preferably supported upon legs 2. Upon the top of the tub is provided a lid 3, which is preferably hinged to one side thereof by a specially-constructed hinge. The hinge preferably comprises a knuckled strap 4, secured, as by bolts 5, to the lid 3. A pintle 6 hinges it between knuckled straps 7 and 8, bolted or otherwise secured, respectively, to the side of the tub.

In order to provide a broad bearing upon the pintle for the knuckle 9 of the strap 5 and to promote the rigidity of union between the tub and its lid when the latter is used as a table, as shown in Fig. II, the straps 7 and 8 are located widely apart and preferably not only widely enough apart to accommodate the knuckle 9, but also to accommodate upon the pintle 6 the knuckle 10, which snugly fills the remaining space upon the pintle between the straps 7 and 8 and the knuckle 9.

The knuckle 10 forms part of a twisted upright 12, which forms one member of a special oscillating fulcrum which is preferably provided upon the top of the lid and which is composed of a bar 14, pivotally connecting the upright 12 with a twisted upright 15, corresponding to the upright 12 and pivotally secured, as by an eyebolt 16, to the top of the lid. The bar 14 of the oscillating fulcrum above described is free to oscillate in a single vertical plane transversely across the underlying face of the lid 3, but always in a direction parallel thereto. The lid is preferably provided with a centrally-located bushing 17, through which works a rod 18, that carries upon its lower end a suitable agitating member 19.

23 indicates an actuating-lever, which preferably straddles the rod 18, and is therefore bifurcated at one end, terminating in a pair of parallel bars or flat plates 24. The rod and actuating-lever are preferably adjustably connected, as by means of series of apertures 20 and 22 in the rod and lever, respectively, adapted to be entered by a connecting-pin 21. The other end of each bar 24 from the apertures 22 is preferably provided with a series of apertures 25, whereby, in connection with a series of apertures 27 in the bar 14 and a connecting-pin 26, the lever may be operatively and adjustably united to the bar 14. By means of the several series of apertures 20 and 22 and 25 and 27, respectively, the several parts may be adjusted as required, and the throw of the agitating member and the leverage by which it is actuated increased or diminished at will.

The agitating-member-actuating mechanism is designed normally to hold the handle 23 in such a position as to constitute it, while the lid 3 is open, into a fixed leg, by which the lid may be supported in the horizontal position. (Shown in Fig. II.) A variety of means for accomplishing that end may be employed, but a simple device for the purpose consists in an elongation 29 of the bar 14, which engages a stop-piece 30 upon the outside of the tub. The stop-piece, as illustrated, consists of one of the hoops of the tub; but any suitable means for the purpose may be employed.

31 indicates a wringer-board, with which, as is customary, any such machine as mine is preferably upon one side provided.

What I claim is—

1. In a washing-machine, the combination with a receptacle, lid and pounder provided with a rod working through an aperture in the lid, a pounder-actuating mechanism comprising a substantially horizontal movable fulcrum-bar upon the lid and a lever-handle

pivotally connected to said rod and fulcrum-bar respectively.

2. In a washing-machine, the combination with a receptacle, lid and pounder provided with a rod working through an aperture in the lid, a pounder-actuating mechanism comprising a substantially horizontal movable fulcrum-bar upon the lid and lever-handle pivotally and adjustably connected to said rod and fulcrum-bar respectively.

3. In a washing-machine, the combination with a receptacle, lid and pounder provided with a rod working through an aperture in the lid, a pounder-actuating mechanism, said receptacle, lid, rod and actuating mechanism being so relatively arranged and connected that the open lid is supported in a horizontal position

4. In a washing-machine, the combination with a receptacle, lid and pounder provided with a rod working through an aperture in the lid, of a substantially horizontal movable fulcrum-bar, uprights pivoted to said bar and lid respectively, a lever-handle pivoted to the bar and rod, an elongation upon the bar and a stop-piece upon the receptacle, said elongation and stop-piece constituting engaging members for supporting through coöperation of the members correlated therewith the open lid in a horizontal position.

5. In a washing-machine, the combination with a receptacle, lid and pounder provided with a rod working through an aperture in the lid, of a pounder-actuating mechanism comprising a substantially horizontal movable fulcrum-bar, uprights independently pivoted to the lid and to the bar respectively, and a lever-handle pivotally united to the bar and to the rod respectively.

In testimony of all which I have hereunto subscribed my name.

ALLAN LAYTON OWENS.

Witnesses:
WILL WALDEN,
MELANCTHON WATT.