

(Model.)

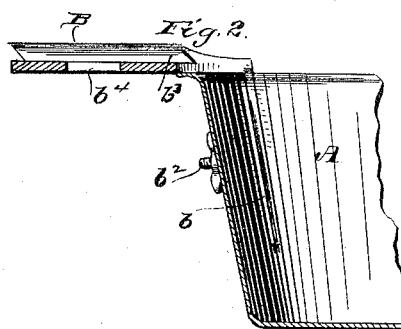
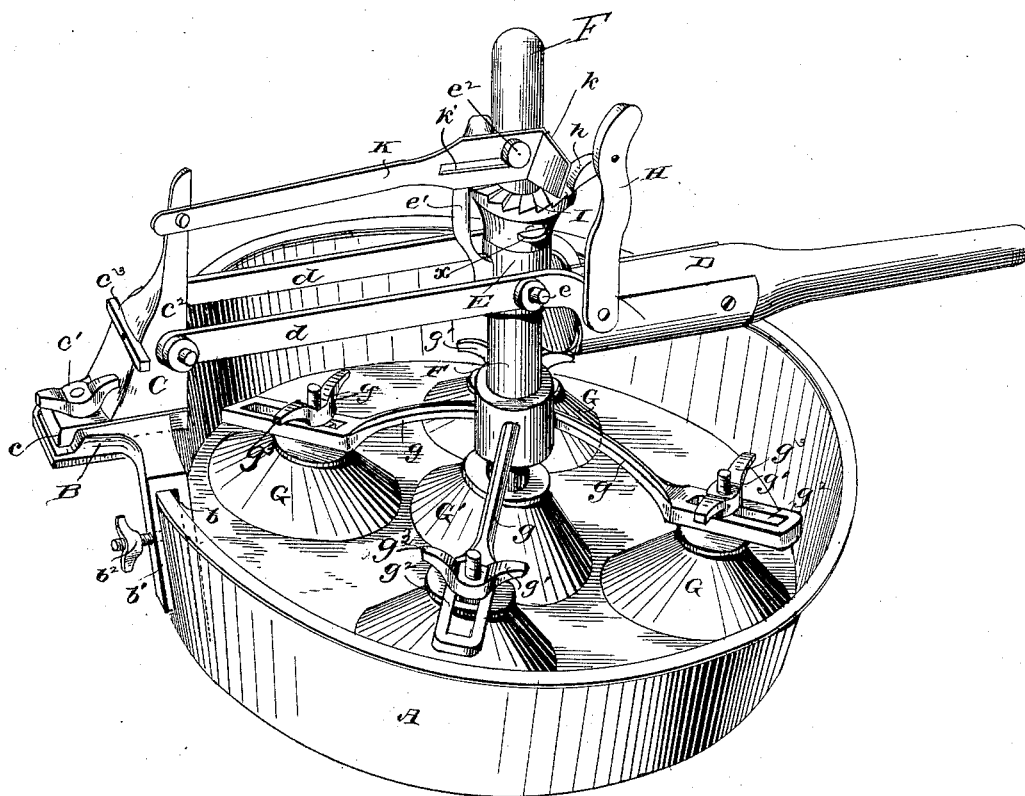
2 Sheets—Sheet 1.

E. C. WEBER.
WASHING MACHINE.

No. 344,700.

Patented June 29, 1886.

Fig. 1.



Witnesses:
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Inventor:
Emmet C. Weber
by L. Deane,
his Attorney

(Model.)

2 Sheets—Sheet 2.

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WASHING MACHINE.

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Fig. 3.

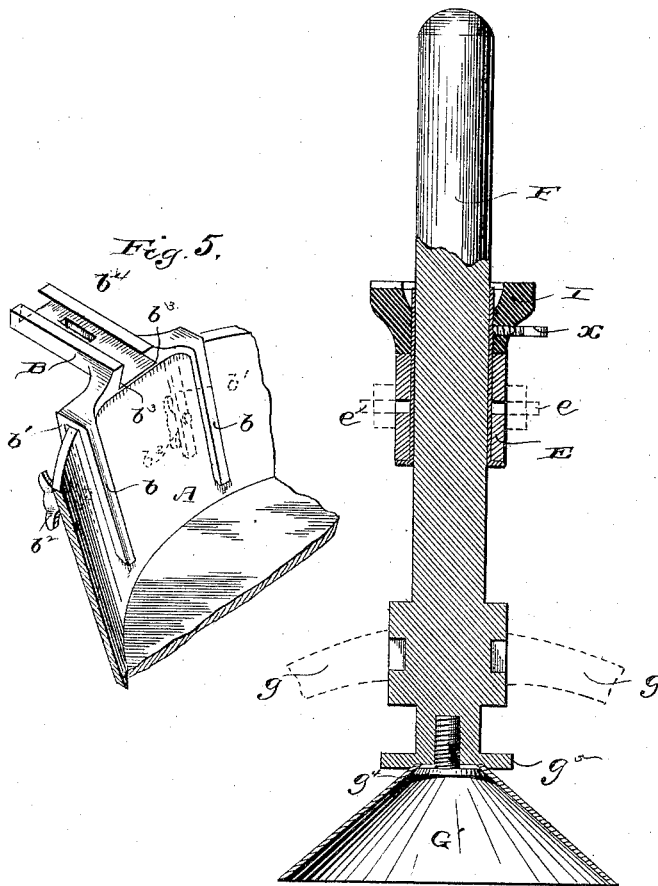


Fig. 5.

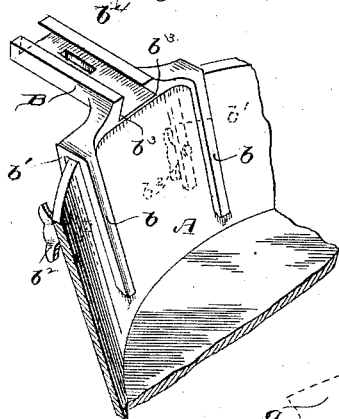
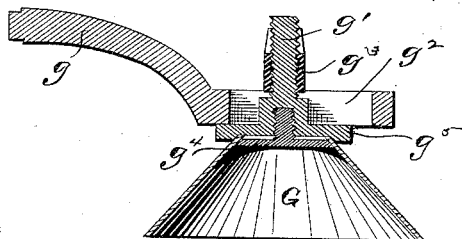


Fig. 4.



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UNITED STATES PATENT OFFICE.

EMMET C. WEBER, OF OWATONNA, MINNESOTA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 344,700, dated June 29, 1886.

Application filed July 17, 1885. Serial No. 171,861. (Model.)

To all whom it may concern:

Be it known that I, EMMET C. WEBER, a citizen of the United States, residing at Owatonna, in the county of Steele and State of Minnesota, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of this device. Fig. 2 is a detail in section of the vessel or tub and the support secured thereto. Fig. 3 is a detail in central vertical section of the shaft to which the pounders are attached. Fig. 4 is a detail central section vertically through one of the pounders. Fig. 5 is a detail in perspective of the tub and poulder support.

This invention relates to that class of washing-machines known more particularly as "beaters" or "pounders;" and the novelty consists in the construction and combination of the several parts, all as will now be more fully set forth and claimed.

In the accompanying drawings, A represents the tub or vessel for the water, and in which the beating or pounding operations are carried on. On one side to the edge or rim of A is attached the support B by means of its two pairs of depending legs, *b b'*. Each pair straddles the rim, the longer leg, *b*, of each pair coming inside the tub, and the shorter one, *b'*, outside. The set-screws *b''* in the outer legs clamp the support firmly to the tub. This construction insures a firm fastening. In the upper face of the support is a dovetail groove, *b'''*, in which slides the lower and horizontal part, *e*, of the base C, which gives support to the operative parts of the device. The part *e* is fixed firmly upon the support B by set-screw *e'*, which passes through the slot *b''* in this part. By this construction the base C can be placed in any desired relation to the edge of the tub to secure in tubs of varying sizes a central position of the pounders in the tub. It is not absolutely necessary to have the dovetails, but they afford a very convenient and steady guide.

On each side of the vertical part *e''* of the base C are pivoted the ends of arms *d* of the handle D. The other end of said handle extends over the opposite edge of the tub. Between these arms and centrally in the tub is

pivoted, by gimbals *e*, the sleeve E, in which the vertical shaft F may be horizontally turned or by means of which it can be swung to or fro. Below the gimbals *e* the poulder-arms *g* are radially fixed to the shaft F. At the lower end of the shaft F is fixed one of the pounders, *G*, and to the ends of each of the radial arms *g* is secured a poulder, *G*, by means of the neck *g'*, which projects through horizontal slot *g''*, and is held in any desired horizontal position in said slot by thumb-nut *g'''*. All the pounders or beaters are inverted-cup shape, cylindrical, or elliptical, and are secured to their neck *g'* by the internal conically-shaped piece *g''*, which screwed on the lower end of the neck *g'* clamps the open apex of the poulder between it and the flange *g'''*, or these parts may be soldered together. There may be as many of these radial pounders as are desired. When the shaft F is raised by the handle D, the pawl *h* on the arm H, attached to the handle, acting on the annular rack I on the shaft F forces the shaft to turn a short distance. The lowering of the arm retracts the pawl and puts it in position to meet and engage on the next tooth of the rack when the arm D is again raised. Thus rotary motion to the radial pounders may be obtained. In its higher upward movement the upper end of the pawl-arm H strikes against and raises the flaring projection *k* of the arm K, which projects partially over the tub, and at its rear end is pivoted to the part *e''* of the base C some distance above the arm *d*. By thus raising the arm K it is released from its confinement by the pin *e''* on the upper free end of arm *e'*, attached to the sleeve E in the end of the rectangular slot *k'*, and this release permits the shaft F to swing a little when the arm *d* is at its highest elevation, allowing the pounders to tip, so that they can be raised out of the tub and thrown back until the handle rests on the pieces *e''* projecting from the vertical piece *e''*, and will remain in that position by its weight. In this position it is easy to put the clothes, &c., into or take them from the tub; but in the ordinary movements of the mechanism the slotted arm *k* and pin *e''* serve to hold the upper end of shaft F vertical. The beaters may have any desired configuration.

The handle D and arms *d* may be made in one piece or in several, and otherwise in the

more mechanical detail I may make changes without in any degree departing from the nature and scope my invention.

The sleeve E can be adjusted up or down on shaft F by means of set-screw *x*.

What I consider new, and desire to secure by Letters Patent, is—

1. In a washing-machine, the vertical and revoluble shaft F, having pounders, as described, attached to its lower end, combined with the sleeve E, having the vertical arm *e'*, provided with the pin *e''*, the slotted arm K, the standard C, the support B, and the handle D, substantially as described.

2. In a washing-machine, the combination of the vertical shaft F and handle D with the arms *d* and K, the standard C, and the sup-

port B, having dovetail grooves *b''*, slot *b'''*, legs *b'''*, and set-screws *b''* and *e'*, all substantially as described.

3. The combination, in a washing-machine, of the support B, the standard C, the arms *d*, the arm K, slotted at *k'* and having projection *k*, the vertical shaft provided with pounders G G', the sleeve E, the annular rack I, the set-screw *x*, and the handle D, having the upwardly-extending arm H, pivoted with the pawl *h*, as and for the purposes set forth.

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

EMMET C. WEBER.

Witnesses:

E. W. RICHTER,
JOSEPH KUBAT.