

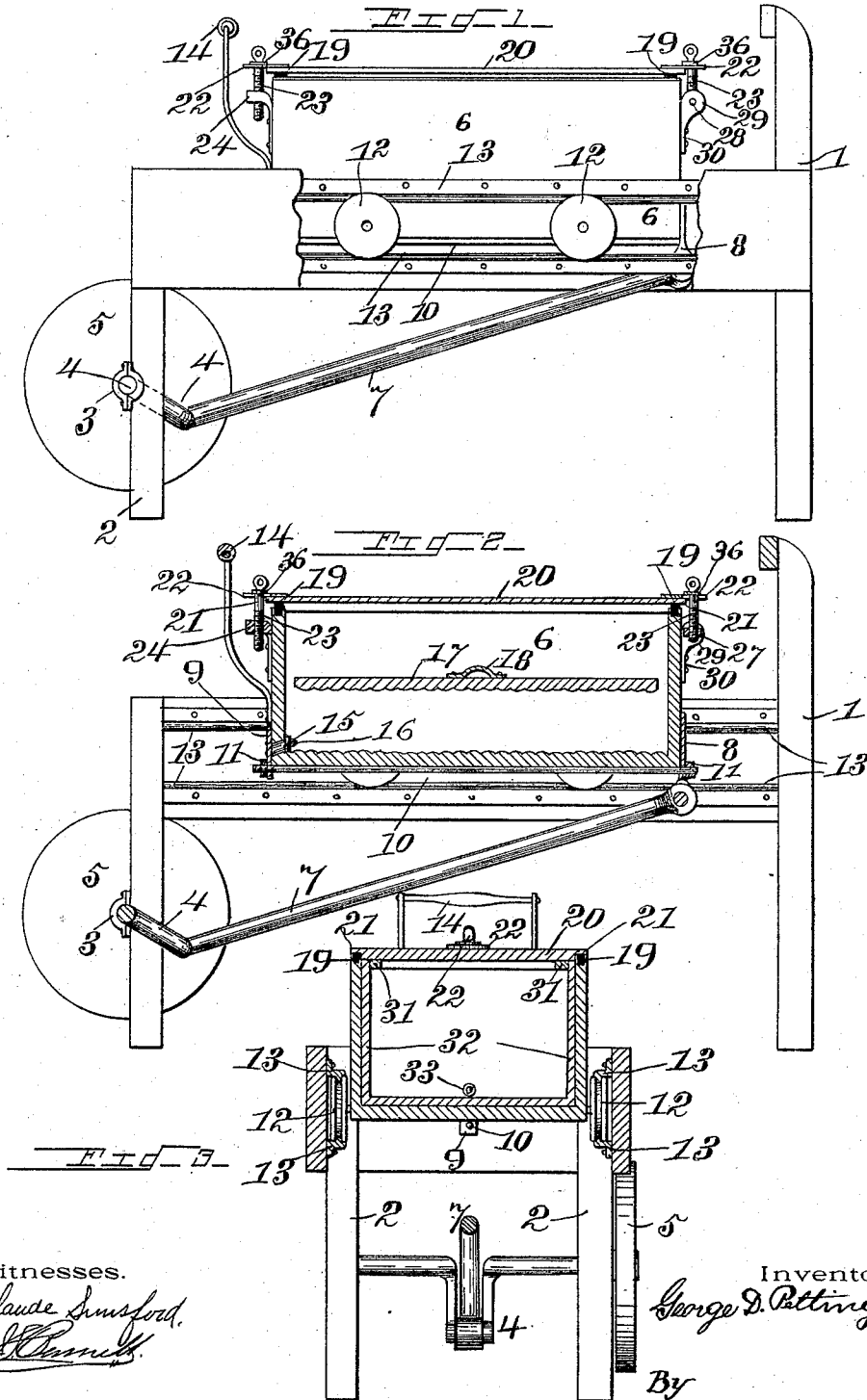
(No Model.)

2 Sheets—Sheet 1.

G. D. PETTINGELL.
WASHING MACHINE.

No. 537,714.

Patented Apr. 16, 1895.



Witnesses.

W. Claude Sinsford.
J. H. Smith.

Inventor.

George D. Pettingell

By

C. S. Bell Attorney.

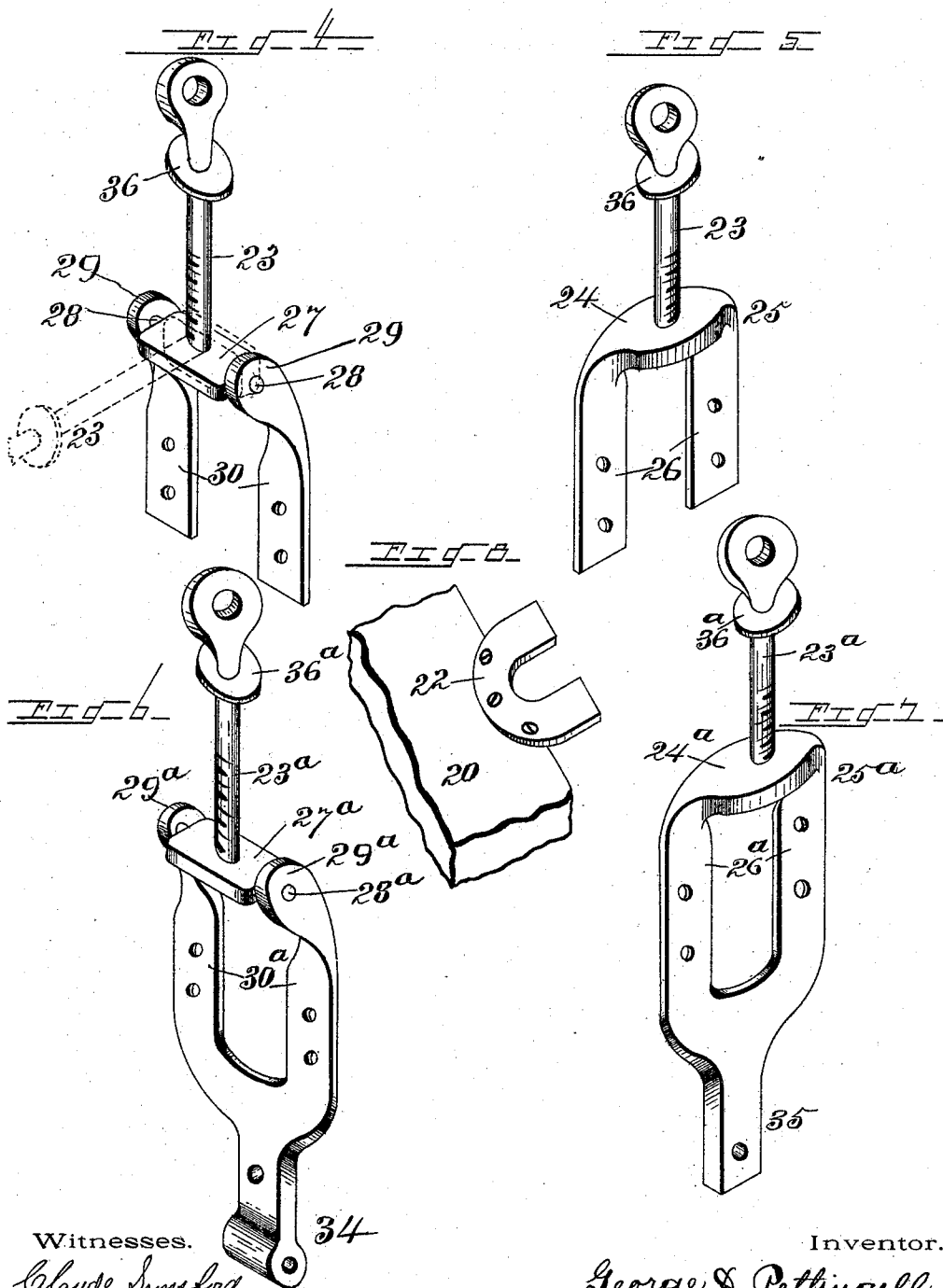
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WASHING MACHINE.

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Witnesses.
Claude S. Sanford
J. C. Smith

Inventor.
George D. Pettingell
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UNITED STATES PATENT OFFICE.

GEORGE D. PETTINGELL, OF JEFFERSON, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 537,714, dated April 16, 1895.

Application filed October 6, 1894. Serial No. 525,127. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. PETTINGELL, a citizen of the United States, residing at Jefferson, in the county of Greene and State of Iowa, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

This invention relates to washing machines, and its object is to provide a simple, yet durable and inexpensive machine, and a novel means of securing the cover on the clothes vessel and bracing the latter.

Other objects and advantages will be seen by reference to the specification and drawings.

The invention consists in the novel construction and arrangement of parts, as will be hereinafter more fully pointed out and set up in the claim.

Figure 1 is a side elevation of my machine in condition for washing with one of the side frames partly broken away. Fig. 2 is a longitudinal sectional view of Fig. 1. Fig. 3 is a cross section of my machine in condition for churning. Fig. 4 is a perspective view of the bracket having the nut journaled therein and carrying a clamping screw. Fig. 5 is a perspective view of the bracket carrying the other clamping screw. Fig. 6 is a modified form of the bracket shown in Fig. 4. Fig. 7 is a modification of the bracket represented in Fig. 5. Fig. 8 is a perspective view of one of the U shaped flanges secured to the cover, with the latter partly broken away.

The same numerals of reference denote the same parts throughout the several figures of the drawings.

The frame is of ordinary construction with the uprights 1, at the rear extended upward, to allow attachment of a suitable wringer, while the front uprights 2, are provided with bearings 3, in which is journaled the crank shaft 4, having a balance wheel 5. The crank shaft is connected to the washing vessel or tub 6, by means of the connecting rod 7, journaled to the bar 8, secured to the rear end of the vessel 6. At the front end of said vessel there is a similar bar 9, without a journal bearing, but through which, and the bar 8, extends a supporting and brace rod 10, for the vessel, the same being secured in place, and adapted to be adjusted, according to the expansion and contraction of the said vessel, by means of the

nuts 11. Upon each side of the vessel are secured grooved wheels or rollers 12, adapted to travel back and forth on the rails 13, which are suitably secured to the frame. The vessel is provided at its rear end with a handle 14, to oscillate the vessel; the operator being greatly assisted, after the vessel is once started, by the momentum of the balance wheel, which materially lessens the labor in operating the machine. The inside bottom of the vessel is corrugated as usual with such machines, and is provided with a discharge opening or aperture 15, having a suitable stopper or plug 16, for the purpose of drawing off the water when washing, and to draw off butter-milk in churning. The bottom of the follower wash board 17, is also similarly corrugated, and the board is free to have a vertical movement with the longitudinal movement of the clothes, and the latter are turned or disturbed, by the movement of the follower board, as they strike each end of the vessel. The said board is provided with a handle 18, by which it is lifted in and out of the vessel with great convenience.

19, denotes a packing of cork inserted in the edges of the vessel 6, and projecting slightly above to be engaged by the vessel cover 20, having a rim 21, fitting the vessel opening, so that when the cover is secured in place a perfect water tight joint is effected. Each end of the top of the cover is provided with U shaped flanges 22, projecting beyond the cover edge, and having a U shaped slot. This cover is secured in position upon the vessel, by means of the flanged clamping or set screws 23, having washers 36, and engaging the U shaped slot of the flanges 22, one of the said screws engaging a screw threaded aperture in the enlarged head 24, of the bracket 25, having arms 26, formed integral with and at right angles to the head, and attached to one end of the vessel 6. The other of the said screws engages a nut 27, having a journal or pivot 28, which is journaled in the head of two arms 30, secured to the other end of the vessel 6. The upper end or head 29, of these arms is bent or curved outwardly from the vertical line of the arms and are enlarged in the same vertical plane with the central vertical line of the arms, producing a very strong, durable bracket, while neither of the set screws ever have to be removed from their brackets, but in adjust-

ing the vessel cover, one screw has to be turned slightly, and the other unscrewed sufficient to allow it to be turned out of the U shaped slot, on its pivot nut. This operation is all that is required to remove the cover, while to secure it in position, the U shaped flange upon one end of the cover has simply to be slipped under the screw flange, and the other screw turned up in the other U shaped flange and screwed down. The cover to be used when churning is just the same structure, except its rim 31, is somewhat deeper and of a size to fit close, the opening in the churn vessel 32. This vessel has a discharge aperture 33, which registers with the aperture 15, in the vessel 6, and although the vessel 32, is shown as fitting in the clothes vessel 6, it need not necessarily do so, as a smaller churn may be used, and held firmly upon the bottom of the clothes vessel by means of the cover and its rim engaging it, and the cover being held securely to the clothes vessel.

In the modified form of bracket shown in Fig. 6, the journaled nut is the same as represented in Fig. 4, but the arms are joined together at the bottom, and at this juncture a projection 34, is formed, of such length to extend below the bottom of the clothes vessel, and receive the end of the connecting rod, and a brace rod 10. Referring to the modification of the other bracket, shown in Fig. 7, the arms

jection 35, is formed integral therewith, to extend below the bottom of the clothes vessel and receive the other end of the brace rod, thus forming these parts all in two brackets complete.

The operation of this class of machines, is so well known that in setting out the improvements and their connections, as well as the special construction of the parts and the advantages of the same, the intention of the invention has been sufficiently brought out without further describing its operation.

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

The combination with the clothes vessel, and its cover, of the U shaped flanges upon each end of the cover, the bracket secured to one end of the clothes vessel, the bracket secured to the other end of the said vessel, the pivoted nut, with which the latter bracket is provided, and the set screws extending through the said flanges, one working in said brackets, and the other in the said nut, substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand in the presence of two witnesses.

GEORGE D. PETTINGELL.

Witnesses:

ISAAC D. HOWARD,
R. G. HOWARD.