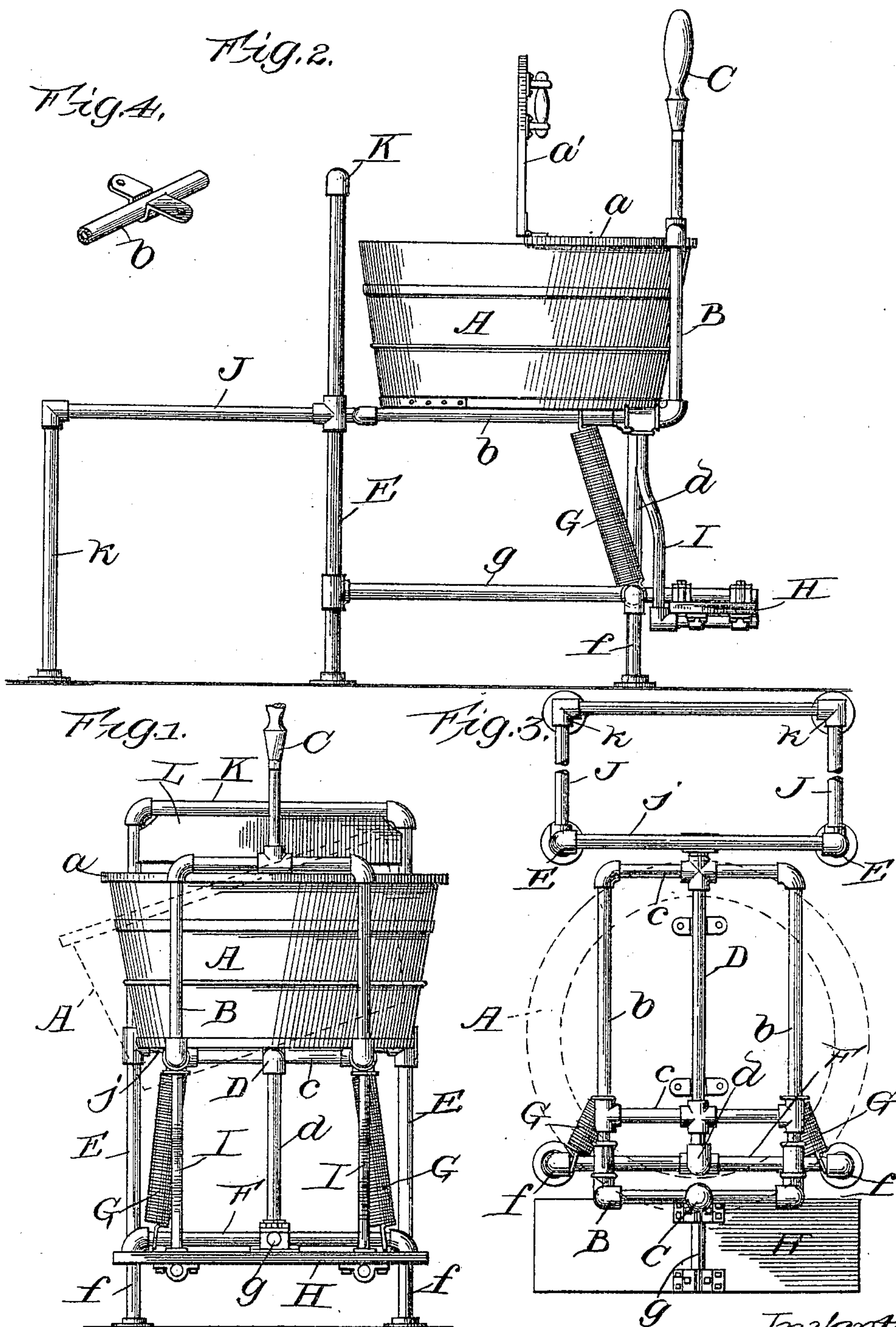


No. 812,292.

PATENTED FEB. 13, 1906.

T. C. PURVES.
WASHING MACHINE.
APPLICATION FILED JUNE 19, 1905.



Witnesses:
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Att'y

UNITED STATES PATENT OFFICE.

THOMAS C. PURVES, OF CHICAGO, ILLINOIS.

WASHING-MACHINE.

No. 812,292.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed June 19, 1905. Serial No. 265,840.

To all whom it may concern:

Be it known that I, THOMAS C. PURVES, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following is a full, clear, and exact description.

My invention relates to washing-machines, and particularly to that class of machines known as the "rocker-washer" type.

The object of my invention is to provide a washing-machine in which an ordinary circular tub is used, and the motion imparted thereto will be such that the water and suds contained therein will splash from one side to the other in such a manner as to thoroughly rub the wash together and allow the suds to mingle therewith and cleanse the articles being washed. By my device the water when the tub is tilted to one side or the other will gravitate to the low side in seeking its level and owing to the circular form of the tub will converge toward and concentrate at a point in the lowest portion of the tub and dash against the side thereof, so as to cause considerable agitation of the suds and wash. This I accomplish by the means hereinafter more fully explained and as more particularly pointed out in the claims.

In the drawings, Figure 1 is an end view of my improved washing-machine, illustrating by dotted lines the position of the tub when tilted. Fig. 2 is a side view thereof, showing the lid of the tub in a raised position. Fig. 3 is a plan view of my invention having the tub removed. Fig. 4 is a perspective view of one of the clips used to attach the tub to the rocking frame.

Referring to the drawings, A represents a tub of the ordinary construction, the top of which is entirely closed by a suitable cover *a*, one-half of whose area is hinged to the other half of the same and forms a lid *a'*. This tub is supported by a suitable rocking frame, which is preferably made of ordinary piping and consists of two parallel side sills *b b*, which are connected near their ends by cross-bars *c c*. At one end the sills extend out from under the tub and are provided with an inverted-U-shaped railing B, against which the tub is set, and this railing has its horizontal portion provided with a suitable vertically-projecting handle C.

The bottom of the tub is suitably clipped

to the sills of the rocking frame, and at their centers of length the cross-bars *c c* are supported and fulcrumed on a horizontal pivot-bar D. The end of this pivot-bar terminating between the vertical portions of the railing is secured to and supported by an upright *d*, and its rear or opposite end is suitably fastened to a cross-rail *j*, connecting the legs E E of a stationary-tub stand, which will hereinafter be more fully described. The lower end of the upright *d* is connected by a suitable T to a cross-bar F, connecting short legs *ff*, and the sills *b b* of the rocking frame are respectively connected each by a coil-spring G of equal tension to said cross-bar near the ends thereof, thus holding the rocking frame and the tub supported thereby in a normally horizontal position. When the tub is tilted to one side or the other, the coil-spring on the opposite side is stretched and counteracts the weight of the wash and the water in the lowest side of the tub, so that when the return movement is commenced the contractive power of the distended spring will materially assist the operator.

The legs E E are connected by a cross-bar, and this cross-bar and cross-bar F are connected at their centers of length by a longitudinally-disposed reach *g*, one end of which extends beyond the transverse plane of legs *ff* and forms a fulcrum for the treadle H. This treadle preferably consists of a board of suitable length that is fulcrumed at its center of length to said reach *g*, and near its ends it is connected to the sills *b b* of the rocking frame by suitable connecting-rods I I, substantially as shown in the drawings.

The stationary-tub stand hereinbefore referred to comprises the legs E, a rectangular seat-frame J, of which the cross-rail *j* forms one end, and legs *k k*, supporting the corners of the ends of the seat-frame farthest from legs E. Legs E extend up, preferably, above the plane of the top of the tub A, and their upper ends are connected by a cross-bar K, having a wooden plate secured to and depending therefrom between said legs to provide means to which a suitable wringer can be removably secured.

The machine may be operated either by hand or foot, or both, and the motion of the water in the circular tub is such that as said tub rocks back and forth the water pitches from side to side and converges as it approaches the limit of its movement in such

manner as to avoid a smooth rhythmic movement and to dash upon and forcibly mix with the wash and thoroughly cleanse the same.

What I claim as new is—

5 1. A washing-machine comprising a suitable stand, a rocking frame supported and fulcrumed on the same, a circular tub supported by said rocking frame, a treadle fulcrumed at its center of length and means connecting the ends of the same with said rocking frame.

15 2. A washing-machine comprising a suitable stand, a normally horizontal spring-returnable rocking frame supported and fulcrumed on the same, a circular tub supported by said rocking frame, a treadle fulcrumed at its center of length and means connecting the ends of the same with said rocking frame.

20 3. A washing-machine comprising a suitable stand having a longitudinal pivot-bar, a rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame and means connecting the end portions of said treadle with the ends of said rocking frame.

30 4. A washing-machine comprising a suitable stand, a rocking frame supported and fulcrumed on the same, a circular tub supported by said rocking frame, a treadle fulcrumed at its center of length and connecting-rods connecting the ends of the same with said rocking frame.

35 5. A washing-machine comprising a suitable stand, a normally horizontal spring-returnable rocking frame supported and fulcrumed on the same, a circular tub supported by said rocking frame, a treadle fulcrumed at its center of length and connecting-rods connecting the ends of the same with said rocking frame.

45 6. A washing-machine comprising a suitable stand having a longitudinal pivot-bar, a rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, coil-springs connecting the ends of said rocking frame to the base of said stand, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame and means connecting the end

portions of said treadle with the ends of said rocking frame.

7. A washing-machine comprising a suitable stand having a longitudinal pivot-bar, a rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, coil-springs connecting the ends of said rocking frame to the base of said stand, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame and connecting-rods connecting the end portions of said treadle with the ends of said rocking frame.

8. A washing-machine comprising a suitable stand having a seat for a stationary tub, a longitudinal pivot-bar alining therewith, a rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame, and means operatively connecting the ends of said treadle and rocking frame.

9. A washing-machine comprising a suitable stand having a seat for a stationary tub, a longitudinal pivot-bar alining therewith, a normally horizontal spring-returnable rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame, and means operatively connecting the ends of said treadle and rocking frame.

10. A washing-machine comprising a suitable stand having a seat for a stationary tub, a longitudinal pivot-bar alining therewith, a normally horizontal spring-returnable rocking frame supported and fulcrumed on said bar, a circular tub supported and secured on said rocking frame, a treadle fulcrumed mediate its ends in the same vertical plane as said rocking frame, and connecting-rods operatively connecting the ends of said treadle and rocking frame.

In testimony whereof I have hereunto set my hand this 13th day of April, A. D. 1905.

THOMAS C. PURVES.

Witnesses:

JOHN A. STAGG,
E. K. LUNDY.