

No. 706,592.

Patented Aug. 12, 1902.

L. B. PARKER.
WASHING MACHINE.

(Application filed Nov. 14, 1901.)

(No Model.)

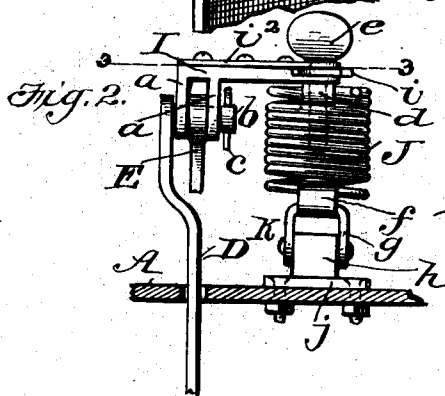
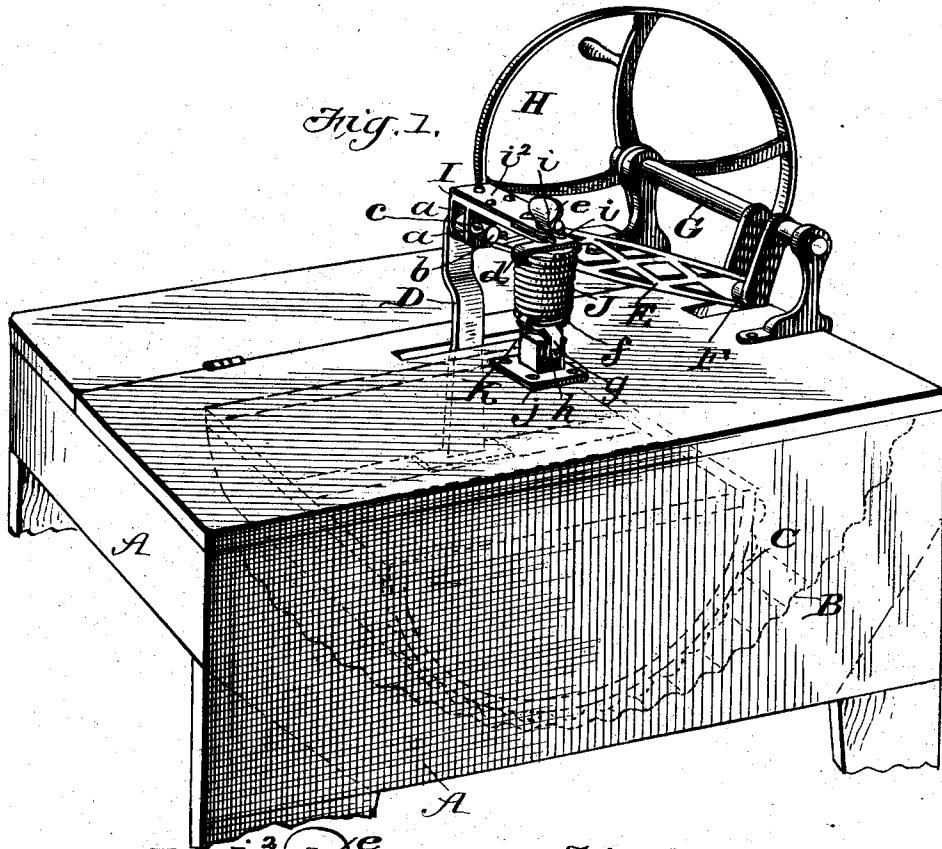


Fig. 3.

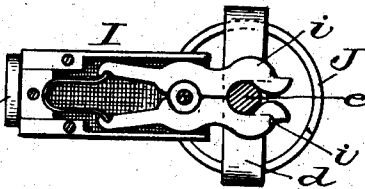
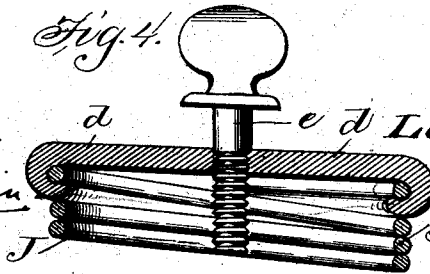


Fig. 4.



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LAURA B. PARKER, OF OGDEN, UTAH.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 706,592, dated August 12, 1902.

Application filed November 14, 1901. Serial No. 82,207. (No model.)

To all whom it may concern:

Be it known that I, LAURA B. PARKER, of Ogden, in the county of Weber and State of Utah, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification.

My invention relates to washing-machines of that type which employ a concave bed within an outer casing, upon which there rocks or oscillates a movable part called the "rubber" and which is usually formed with a convex lower surface having a corrugated or slatted face, the clothes to be washed occupying a position between the concave bed and oscillating rubber.

My invention is designed to supply said oscillating rubber with an elastic pressure in a more simple and practical manner than heretofore; and to that end it consists in a spring attachment of peculiar construction and arrangement, which is capable of being applied to all washing-machines of the type described and which is so arranged as to be easily and quickly applied or disengaged, as may be desired.

Figure 1 is a perspective view of a washing-machine having my invention applied to the same. Fig. 2 is an enlarged detail side view of my attachment, showing its connection with the coating parts of the washing-machine. Fig. 3 is a sectional plan view on line 3 3 of Fig. 2, and Fig. 4 is a sectional detail of the screw *e*.

In the drawings, A represents the outer casing, B the concave bed, and C the oscillating rubber, of a washing-machine of the type referred to. This rubber has secured to its upper side a rigid vertical arm D, which projects up through a longitudinal slot in the middle of the top of the casing and is coupled to a horizontal pitman E, which extends to the crank F of a horizontal shaft G, and which latter at one end is provided with a balance-wheel H and a crank-handle by which it is turned. The rotary action of this shaft G and its crank imparts through the arm D a rocking or oscillating movement to the rubber C upon the clothes in a well-known way.

To the point of articulation between the pitman E and the rubber arm D, I apply a horizontally-projecting bracket-coupling I, hav-

ing at one end two downwardly-projecting lugs *a a*, perforated with holes to receive the wrist-pin *b* on the upper end of said arm, which wrist-pin also passes through a hole in the end of the pitman. This wrist-pin is made somewhat longer than usual, so as to allow for passing through both the lugs *a a* and the pitman, and is secured from coming out by a spring key or cotter *c*. The pitman is arranged between the two lugs *a a* and works freely on the wrist-pin.

The projecting end of the bracket I is connected to the top of a strong helical spring J, which at its lower end is anchored to the top portion of the washing-machine case by a rocking bearing K, so that the tension of the spring J will be exerted upon the rubber arm D and rubber to hold it down with an elastic pressure upon the clothes.

The connection between the bracket I and the spring J is made by a diametrical claw *d*, whose hooked ends grasp, inclose, and hold the first coil of the wire spring, and through the center of this claw is tapped a screw-threaded hole that receives a long set-screw *e*, that passes up through the end of the bracket. The shank of this screw just below the thumb-piece is arranged to be quickly inserted in and removed from its seat in the end of the bracket by two spring-seated latches *i i*, which have tapering faces that form a converging throat to give lateral passage between them to the shank of the screw. These hinged and spring-seated latches are contained in a recessed portion of the bracket and are retained by a detachable upper plate *i'*, which is secured by screws.

The bottom of the spring J has its last coil caught in the hooked ends of a claw *f*, which is formed with a clevis *g*, that is hinged to a lug *h*, formed on a plate *j*, which latter is secured by screws or bolts to the top of the washing-machine case.

I am aware that the oscillating rubbers of some washing-machines have had springs applied to the same within the case, and also extending on the sides of the case; but I do not know that a single spring has ever been mounted upon the top of the case and applied to the rubber, as shown. This renders my attachment applicable to washing-ma-

chines already in use, and forms a very simple, cheap, and practical means of supplying the spring-pressure by an external attachment, which permits its influence to be transmitted through the joint between the rubber-arm and its actuating pitman.

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

- 10 1. In a washing-machine of the kind described, the combination with the arm of the oscillating rubber having a projecting wrist-pin; of a bracket having perforated lugs receiving said wrist-pin, a pitman also perforated to receive the wrist-pin and lying between the lugs, and a spring-tension device connected to the bracket and also to the top of the washing-machine substantially as described.
- 20 2. An attachment for washing-machines, consisting of a coupling adapted to be attached to the actuating devices for the rubber, a spring attached to the said coupling and having an anchorage on the top of the washing-machine case, said spring and coupling having a lateral snap connection for per-

mitting quick and easy lateral engagement or disengagement substantially as described.

3. In a washing-machine of the kind described, the combination with the arm and pitman of the oscillating rubber; of a bracket-coupling connected to the joint between said arm and pitman, spring-latches in the end of the said coupling, a helical spring having a diametrical claw and a screw passing through the same and also between the latches and an anchorage for the lower end of the spring, substantially as described.

4. In a washing-machine of the kind described, the combination with the arm and pitman of the oscillating rubber; of a coupling attached to the joint of said arm and pitman, a helical spring, having at one end a diametrical claw and a stem connecting it to the coupling, and at the other end a diametrical claw with a hinged clevis adapted to connect it to the top of the washing-machine substantially as described.

LAURA B. PARKER.

Witnesses:

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