

J. W. PRATT.

Improvement in Washing-Machines.

No. 130,821.

Patented Aug. 27, 1872.

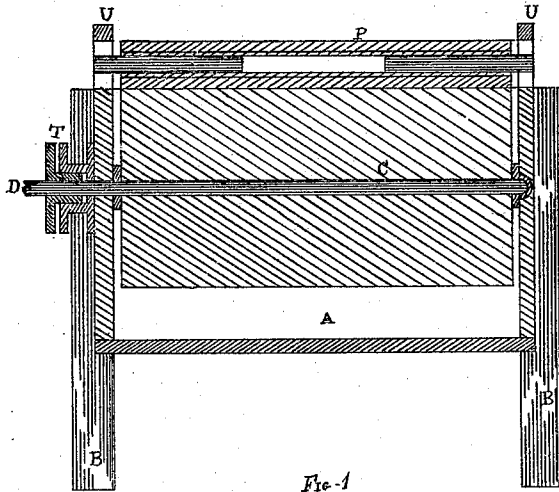


Fig-1

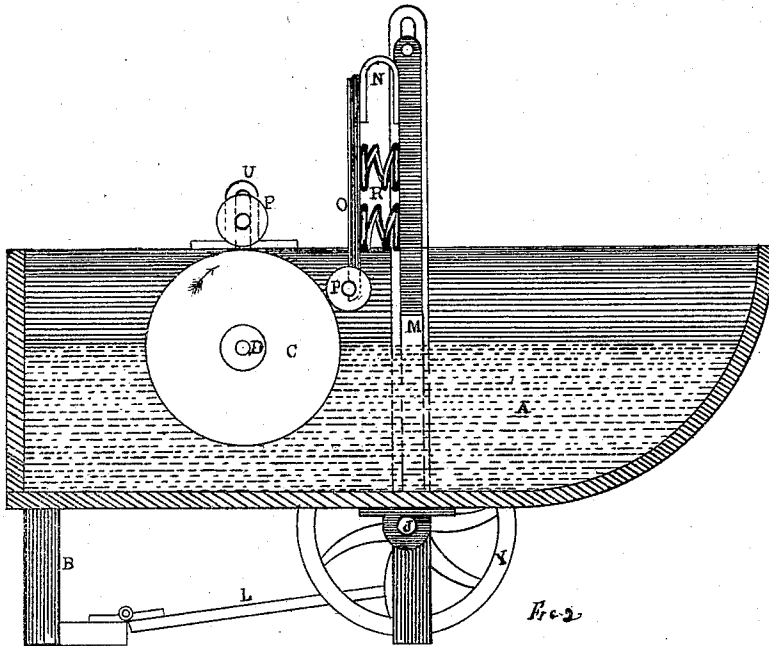


Fig-2

WITNESSES

G. S. Newson

David W. Love

Joseph W. Pratt

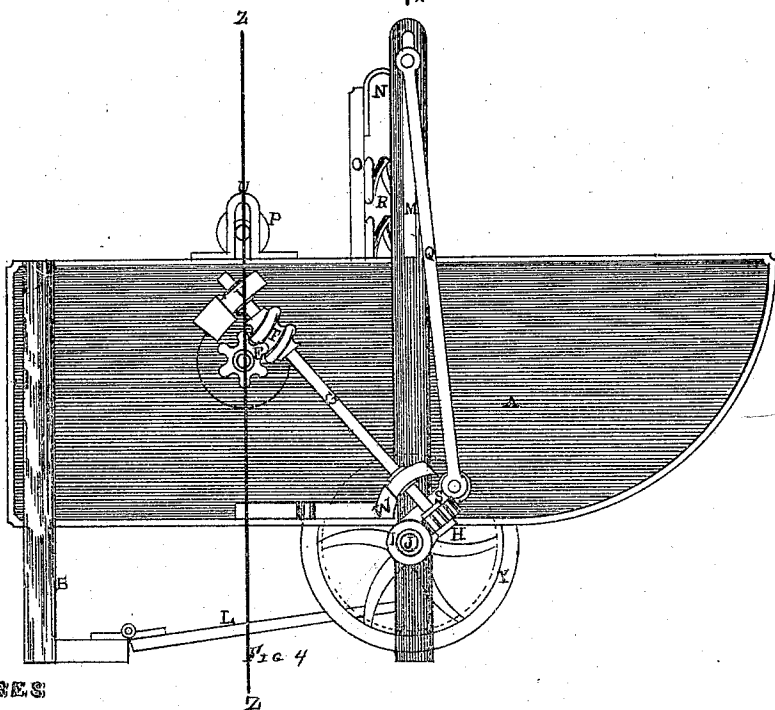
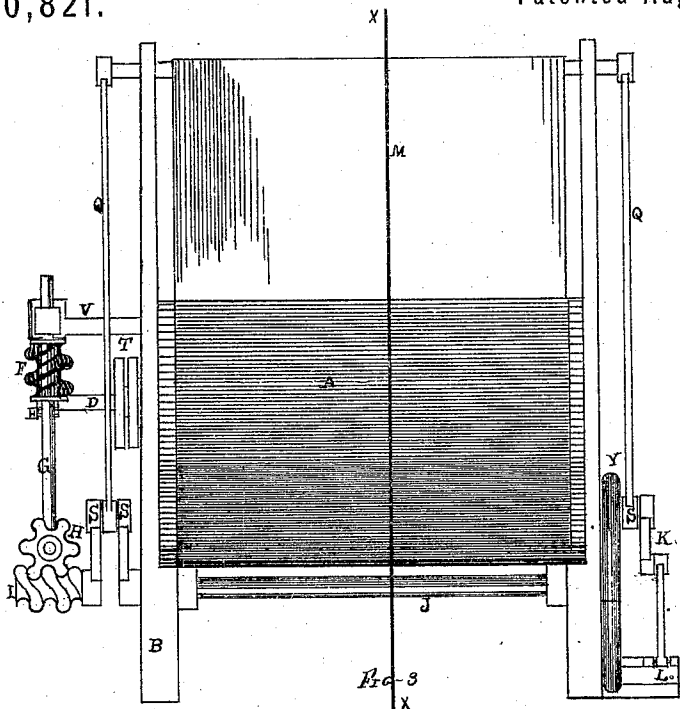
INVENTOR

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INVENTOR

UNITED STATES PATENT OFFICE.

JOSEPH W. PRATT, OF EDGEFIELD, TENNESSEE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 130,821, dated August 27, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, JOSEPH W. PRATT, of the town of Edgefield, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification:

The object of my invention is to produce a washing-machine and thus avoid the necessity of employing two separate machines for that purpose; and in order to fully describe my invention, that its novelty and usefulness may be observed, I will proceed with the general description, having reference to the accompanying drawing, in which—

Figure 1 represents a vertical section through the line Z Z; Fig. 2, a vertical section through the line X X; Fig. 3, an end view; Fig. 4, a side elevation.

A is a tub sustained by legs B B. C is a revolving cylinder situated in tub A, and is provided with a shaft, D, which transmits a rotary motion to said cylinder from pinion E, attached to the end of said shaft, into which revolves an endless screw or worm-wheel F, which is attached to and revolved by shaft G, which is provided at the opposite end with a pinion H, into which works another worm-wheel, I, attached to the main driving-shaft J, which is revolved by crank K and treadle L at the opposite side of the tub. Legs B B also form an upright frame above tub A, into which freely reciprocates (vertically) the frame M, to which is connected, by springs, N, a vibrating frame, O, provided at the bottom with an elastic roller, P, which is held with great force against the cylinder C by springs, R, located between frames M and O. Frame M receives its reciprocatory motions from rods Q Q, in connection with cranks S S, which are attached to shaft J, as shown in Fig. 3. T is a stuffing-box situated in the side of the tub A, through which passes the shaft D. U U are slots situated at the top of said tub, directly over the shaft D, into which the shaft ends of roller P are placed and secured when desired for the purpose hereafter described. V is a bracket fastened to the side of tub A, and acts as a guide for the journal-box at that end of shaft G, by which means the worm-

wheel F may be lifted out of gear with the pinion E. W is a bracket-guide employed for a similar purpose at the other part of said shaft. Y is a balance-wheel attached to the shaft J for insuring the same steady motions.

Operation.

The shaft J being set in motion by the treadle L and crank K, the frame M is caused to reciprocate and the cylinders C to revolve in the direction of the arrow. The reciprocation of M causes the roller P to traverse up and down upon the revolving cylinder—the latter of which moves slow, and the former with great rapidity. Therefore, wet clothing or fabrics have only to be laid upon the said cylinder to find their way through a rubbing process and then fall into the water at the other side of the wheel, (with which said tub is provided,) when they may again be laid upon the cylinder and undergo a similar operation, or as many as the operator thinks proper, to cleanse the same, after which the wringing process begins. This consists in disconnecting the rods Q Q from the frame M and reversing the motion of shaft J, and then allowing the wet goods to enter between the roller and cylinder from the bottom and deliver them at the top of said cylinder. Though in practice it will prove more advantageous to reverse the roller P from its present position to the slots at the top of tub A, whereby it may be so fixed as to press heavily upon the revolving cylinder, between which the goods may be passed with certainty on the part of the operator—that they will be as perfectly dried as by the use of any wringing-machine now in use.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The combination of the reciprocating revolving elastic roller P with the revolving cylinder C, as and for the purposes above described.

2. The combination of the treadle L, crank K, shaft J, worm-wheel I, pinion H, shaft G, worm-wheel F, pinion E, and shaft D, substantially as and for the purpose above set forth.

3. The combination of the reciprocating

frame M, rods Q Q, cranks S S, shaft J, and pinion H, springs N N and R R, frame O, and roller P, substantially as and for the purpose above set forth.

4. I claim the combination of the tub A, the cylinder C, shaft D, pinion E, worm-wheel F, shaft G, pinion H, worm-wheel I, shaft J, crank K, treadle L, frame M, springs N N and

R R, frame O, roller P, rods Q Q, cranks S S, slots U U, stuffing-box T, brackets V and W, and balance-wheel Y, as arranged and described, for the purpose set forth.

JOSEPH W. PRATT.

Witnesses:

G. S. HEWSOM,
DAVID C. LOVE.