

W. Beaton,

Washing Machine,

No. 48,894.

Patented July 25, 1865

Fig. 1.

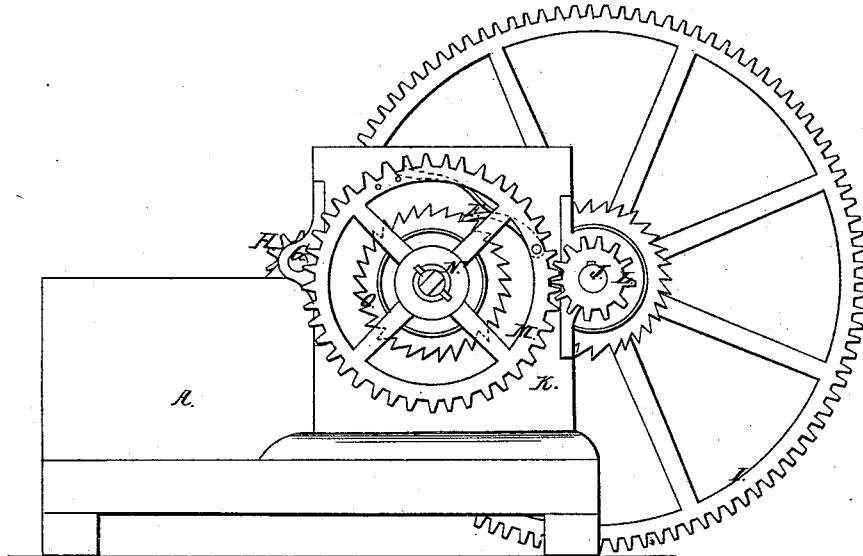
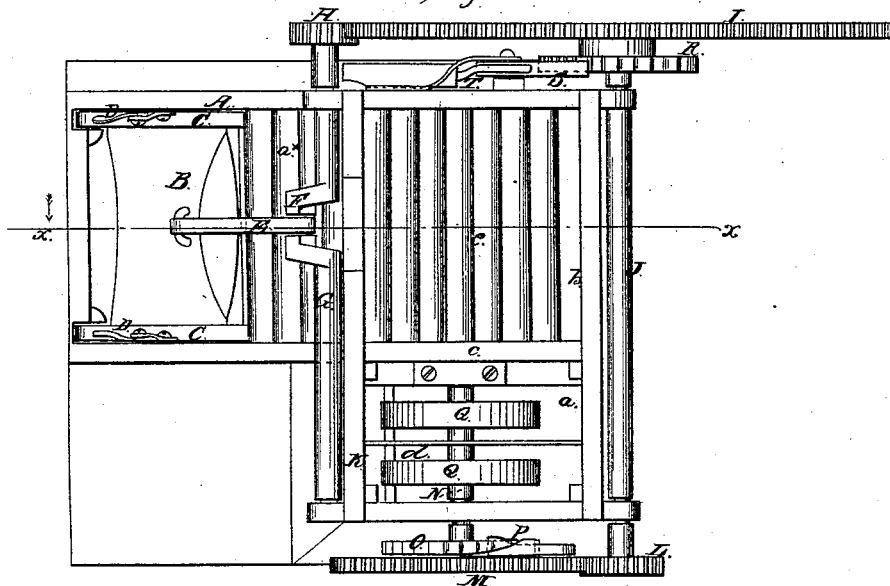


Fig. 2.



Witnesses:
Wm. Brown
Geo. Busch

Inventor:
Wm. Beaton
per Munn & Co.
attorneys

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Fig: 3.

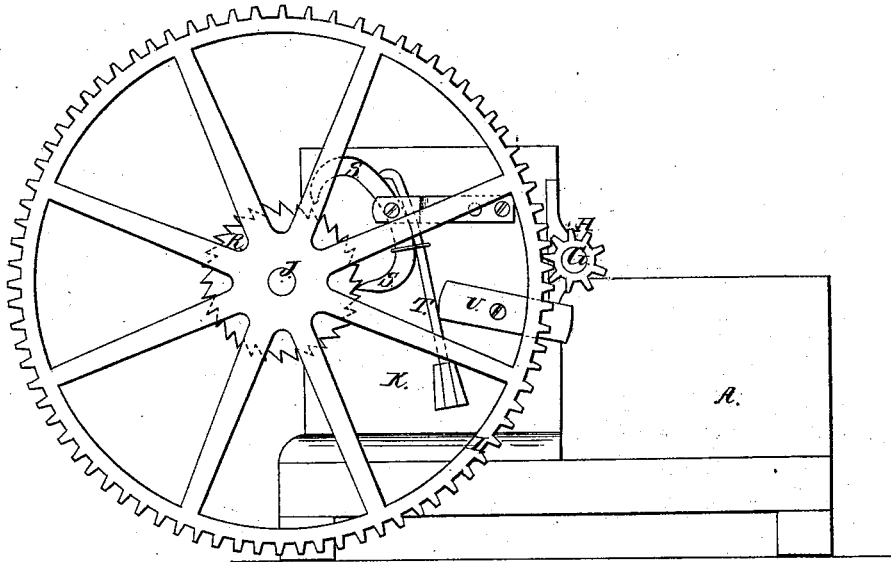
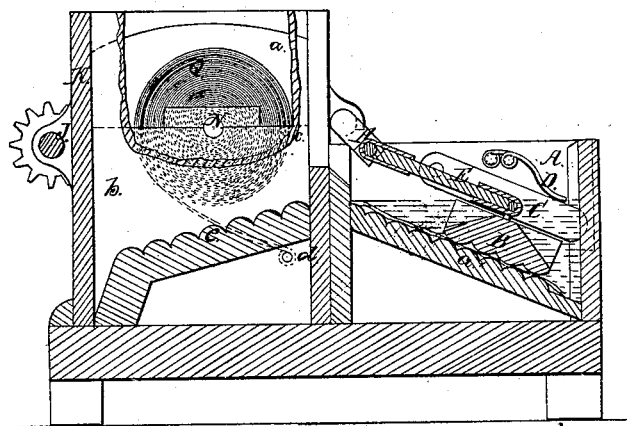


Fig: 4.



Witnesses:
Wm. Brown
Geo. Vuch

Inventor:
Wm. Beaton
per Munn & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM BEATON, OF GRINNELL, IOWA.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 48,894, dated July 25, 1865.

To all whom it may concern:

Be it known that I, WILLIAM BEATON, of Grinnell, in the county of Poweshiek and State of Iowa, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1, Sheet No. 1, is a side view of my invention; Fig. 2, a plan or top view of the same; Fig. 3, Sheet No. 2, a side view of the same opposite to the side shown in Fig. 1; Fig. 4, a longitudinal vertical section of the same, taken in the line *x x*, Fig. 2.

This invention consists in applying the power of a spring or a weight to a reciprocating rubber of a clothes-washing machine in such a manner that clothes may be washed without the employment of manual labor.

A represents a suds-box, which may be of rectangular form and provided with an inclined, corrugated, or fluted bottom board, *a*^x, over which a corrugated or fluted reciprocating rubber, B, works, the latter having a pivoted bar, C, pressed upon its upper surface at each end by springs D. (See Figs. 2 and 4.) The rubber B is operated by a pitman, E, which is attached to a crank, F, on a shaft, G, and this shaft has a pinion, H, at one end of it, which gears into a large wheel, I, at one end of a shaft, J, which has its bearings attached to the outer side of a case, K, which adjoins the suds-box A. The opposite end of the shaft J has a pinion, L, upon it, which gears into a wheel, M, placed loosely on a shaft, N, the latter having a ratchet, O, keyed firmly upon it, with which a pawl, P, attached to the wheel M, engages. (See Figs. 1 and 2.)

The case K is divided into two compartments, *a* *b*, by a vertical partition, *c*, and the shaft N passes into the compartment *a* and has one or more coil-springs, Q, connected with it, two springs being shown in Fig. 2. The inner ends of these springs are attached to the shaft N, the outer ends being secured to a rod, *d*, at the bottom of the compartment *a*. (See Figs. 2 and 4.) The compartment *b* has an inclined corrugated

bottom board, *e*, and this compartment adjoins the suds-box A, as shown clearly in Fig. 2.

On the shaft J, near the wheel I, there is firmly keyed a ratchet or escape wheel, R, with which two pallets, S S, engage, the latter having a pendulum, T, connected to it, as shown clearly in Fig. 3.

The gearing above described, it will be seen, is on the same principle as that of a clock, the pallets S S, pendulum T, and escape-wheel R controlling the power of the springs.

The springs Q are wound up by a crank applied to the outer end of the shaft N.

The machine may be stopped at any time or prevented from running by means of a button, U, at one end of the case K, said button being turned against the pendulum-rod, as shown in Fig. 3.

The clothes are operated upon by the rubber B, the former being on the bottom board, *a*^x, of the suds-box A.

The compartment *b* of the case K is designed to receive clothes from a wringer attached to one side of the top of *b*, between it and the suds-box A, the clothes passing from A through the wringer into *b*.

The wringer may be operated from the wheel I.

By this arrangement clothes may be washed without manual labor, and the work performed equally as well as it can be done by hand.

The device is not at all complicated, and it may be manufactured at a moderate cost.

It will of course be seen that the gravity of a weight may be made to act upon the shaft N instead of the springs, as shown.

I claim as new and desire to secure by Letters Patent—

The combination of the reciprocating rubber B, presser-bar C, springs D, pitman E, crank-shaft F G, gearing H I L M, shafts J N, spring Q, and escapement R S T, all constructed, arranged, and operating as and for the purposes specified.

WILLIAM BEATON.

Witnesses:

CHAS. H. SPENCER,
RICHARD WHITNEY.