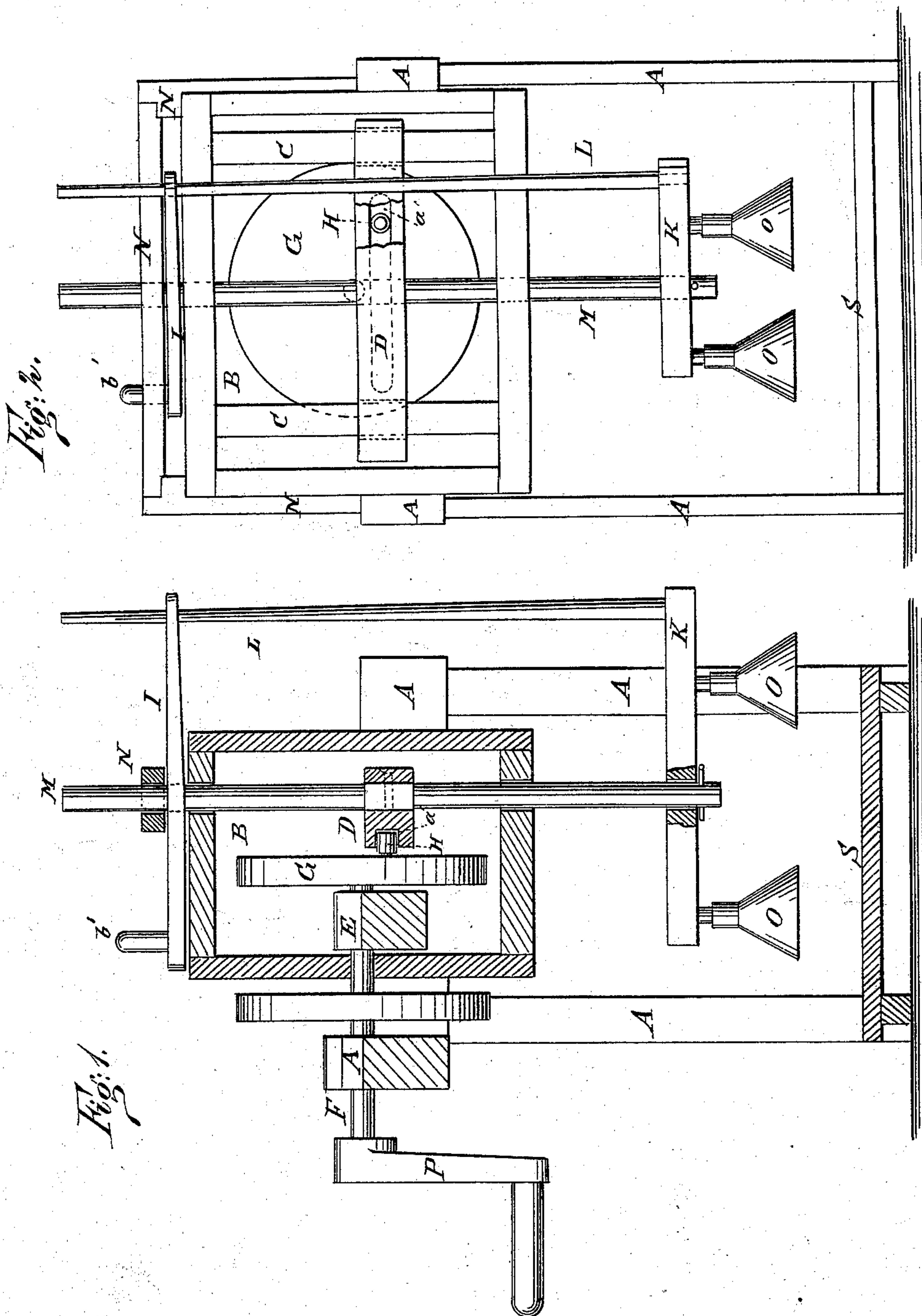


J. W. KING.
Washing-Machine.

No. 219,486.

Patented Sept. 9, 1879.



WITNESSES:

WITNESSES:
Chas. Nick
b. Edgwick

INVENTOR:

BY

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UNITED STATES PATENT OFFICE

JOHN W. KING, OF HUNTINGDON, TENNESSEE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **219,486**, dated September 9, 1879; application filed June 11, 1879.

To all whom it may concern:

Be it known that I, JOHN W. KING, of Huntingdon, in the county of Carroll and State of Tennessee, have invented a new and Improved Clothes-Washer, of which the following is a specification.

Figure 1 is a vertical sectional end elevation of the device. Fig. 2 is a vertical sectional front elevation of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a simple, cheap, and effective washing-machine.

The invention consists of the combination of the mechanism hereinafter described with the cones or cups patented by W. P. Dungan, May 7, 1878, so as to give them a properly useful effect.

Within an upright frame, A, is secured a box, B, in which are fixed two vertical guides, C C, that reach from the top to the bottom of the box and pass through the movable cross-beam D.

Passing through the side of the box, and journaled on the frame and on the block E within the box, is the crank-shaft F, that carries on its inner end the eccentric G, whose pin H engages in the groove *a'* of the beam D.

The cross-pieces I and K, the one above and the other below the box, are connected by the perpendicular rod L, and are swiveled on the rod M, that passes down through the yoke N, the top of the box, the beam D, in which it is fixed by a square shoulder, and the bottom of the box.

One end of the piece I is provided with an upward-projecting handle, *b'*, by means of which the positions of the cones or cups O, that project downward from the cross-piece K, may be changed. These cones or cups are fixed with mouths downward, and each contains a wire spring, the coils of which are arranged in the same plane with and across the mouth of

the cone, and attached thereto at its outer end, and terminating in a yielding center, whereby all the coils of the spring act at the same time and yield under pressure.

The device is operated by turning the crank P, which, through the medium of the shaft and eccentric, causes the beam D to rise and fall alternately and carry with it the cups or cones O.

A tub containing the clothes to be washed is to be placed on the platform S and the cones made to strike or press upon them until they are cleansed.

The operator, by taking hold of the handle *b'*, can so direct the cones that they shall strike or press upon any point on the contents of the tub.

This device is most easily worked, and imparts to the cones the efficiency which they before lacked.

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

1. The within-described washing-machine, consisting of the frame A, box B, guides C C, grooved and slotted cross-beam D, block E, crank-shaft F, crank P, wheel G, provided with an eccentric-pin, H, cross-piece I, provided with handle *b'*, a cross-piece, K, rods L and M, and yoke N, in combination with the cones or cups O, substantially as herein shown and described.

2. In the construction of a machine for washing clothes, the combination of the frame A, box B, guides C C, grooved and slotted cross-beam D, block E, crank-shaft F, crank P, wheel G, provided with an eccentric-pin, H, cross-pieces I and K, rods L and M, and yoke N, substantially as herein shown and described.

JOHN W. KING.

Witnesses:

E. FALKNER,
G. W. HUMBLE.