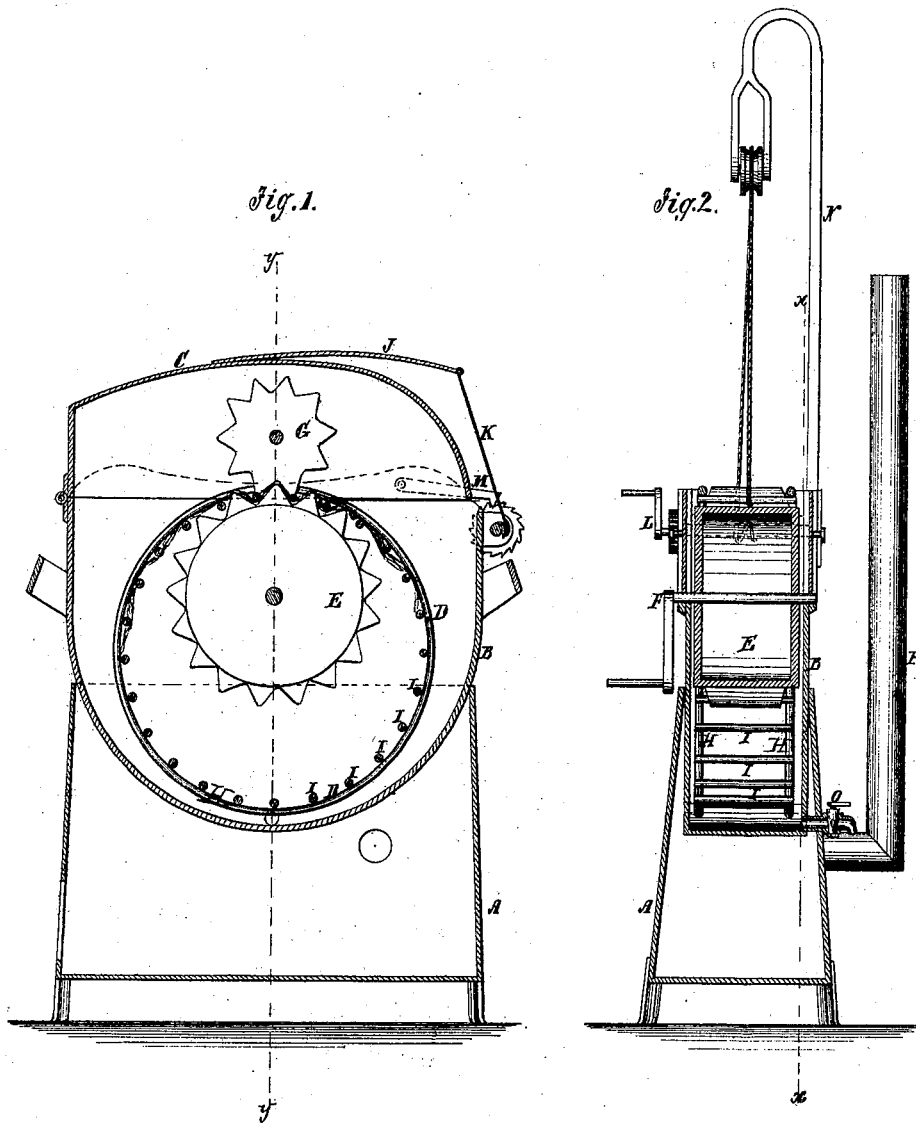


A. L. Moore,
Washing Machine
No. 107,283. Patented Sep. 13. 1870.



Witnesses:
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ALFRED L. D. MOORE, OF LA GRANGE, TEXAS.

Letters Patent No. 107,283, dated September 13, 1870.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, ALFRED L. D. MOORE, of La Grange, in the county of Fayette and State of Texas, have invented a new and useful Improvement in Washing-Machines; 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 drawing forming part of this specification.

The object of this invention is to furnish an efficient and durable machine for washing clothes and wringing them; and

The invention consists in the construction, arrangement, and combination of parts hereinafter described.

In the accompanying drawing—

Figure 1 is a vertical section of the machine through the line *x x* of fig. 2.

Figure 2 is a vertical section of fig. 1 through the line *y y*.

Similar letters of reference indicate corresponding parts.

This machine is made to be used either with or without a furnace for boiling or heating the water in washing, the machine being provided with legs for its support when it is used separately from the furnace.

In this example of my invention I show the machine combined with a furnace.

A is the furnace or fire-box, which is rectangular in form, and of sufficient size to receive the machine, as represented in the drawing.

B is the washing-vessel, which, with its cover C, contains the washing-cylinder.

The lower portion of the vessel B is circular in form, corresponding in some measure with the diameter of the loose open cylinder D.

E is a wheel which is fast on and revolved by the crank-shaft F. The outer surface of this wheel E is corrugated.

G is a corrugated wheel, which is supported on journals in the cover C. The corrugations of this wheel correspond with those of the wheel E, so that the teeth engage with each other, the wheel G being revolved by the wheel E.

The open cylinder D is formed by connecting two rims, H H, by means of transverse rods I. These rods are placed on the inner surface of the rims, and are so arranged that they correspond with the corrugations on the wheels and fit into the spaces between the teeth, as seen in fig. 1.

The cylinder D is much larger in diameter than the wheel B, (as represented,) and also broader, so

that there is space for the length of the teeth of the wheels between the rims H.

At the bottom of the machine or vessel B the cylinder D is supported on one or more rollers, to prevent undue friction and relieve the wheel E of weight.

It will be seen that the open cylinder D will be revolved when the wheel E is revolved.

The clothes to be washed are secured to the cylinder D by means of the rods I, as represented in fig. 1.

In fig. 1 the machine is seen in operation. The clothes are carried around between the corrugated wheels, and at every revolution are dipped into the water in the vessel B.

As the clothes pass through between the corrugated wheels, any required amount of pressure is applied by means of the spring J, attached to the cover C.

K is a cord which is attached to the end of the spring. The other end is secured to the ratchet-wheel crank-shaft L.

M is a pawl which is attached to the vessel B, by which the ratchet is held after the desired amount of pressure is obtained.

In the arrangement seen the vessel B is made of metal, so that, if necessary, the water may be kept at the boiling-point, and even a pressure of steam may be obtained. By this arrangement the clothes are soon cleansed.

The wringing is done while the clothes are in the same position, by turning the crank back and forth, so as not to dip them into the water.

In washing light clothes, it is not required to put on any pressure, the weight of the cylinder and the cover being sufficient.

N is a stand attached to the side of the machine, to which are attached a pulley and hooks, for raising the wheel and cylinder from the vessel, slots being made in the sides of the vessel, which allow the journals of the wheel to be raised clear therefrom.

When the wheel and cylinder are removed, the vessel B may be used as an ordinary wash-tub or boiler.

O represents the faucet for drawing off the water from the vessel.

P is a pipe for carrying the smoke of the furnace above the head of the operator, when the machine is used out of doors.

This machine may be made of either wood or metal, or of a combination of both, as may be desired.

Having thus described my invention,

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

1. In combination with a washing-machine, the open revolving cylinder D, arranged and operating substantially as and for the purposes herein shown and described.

2. The corrugated wheels E and G, arranged one in the washing-vessel and the other in the cover, substantially as and for the purposes described.

3. In combination with the cover C, the spring J, and the application of power thereby to the cover, substantially as and for the purposes set forth.

4. In combination with the vessel B, provided with standard N, wheels E and G, and cylinder D, the furnace A, substantially as and for the purposes described.

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Witnesses:

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