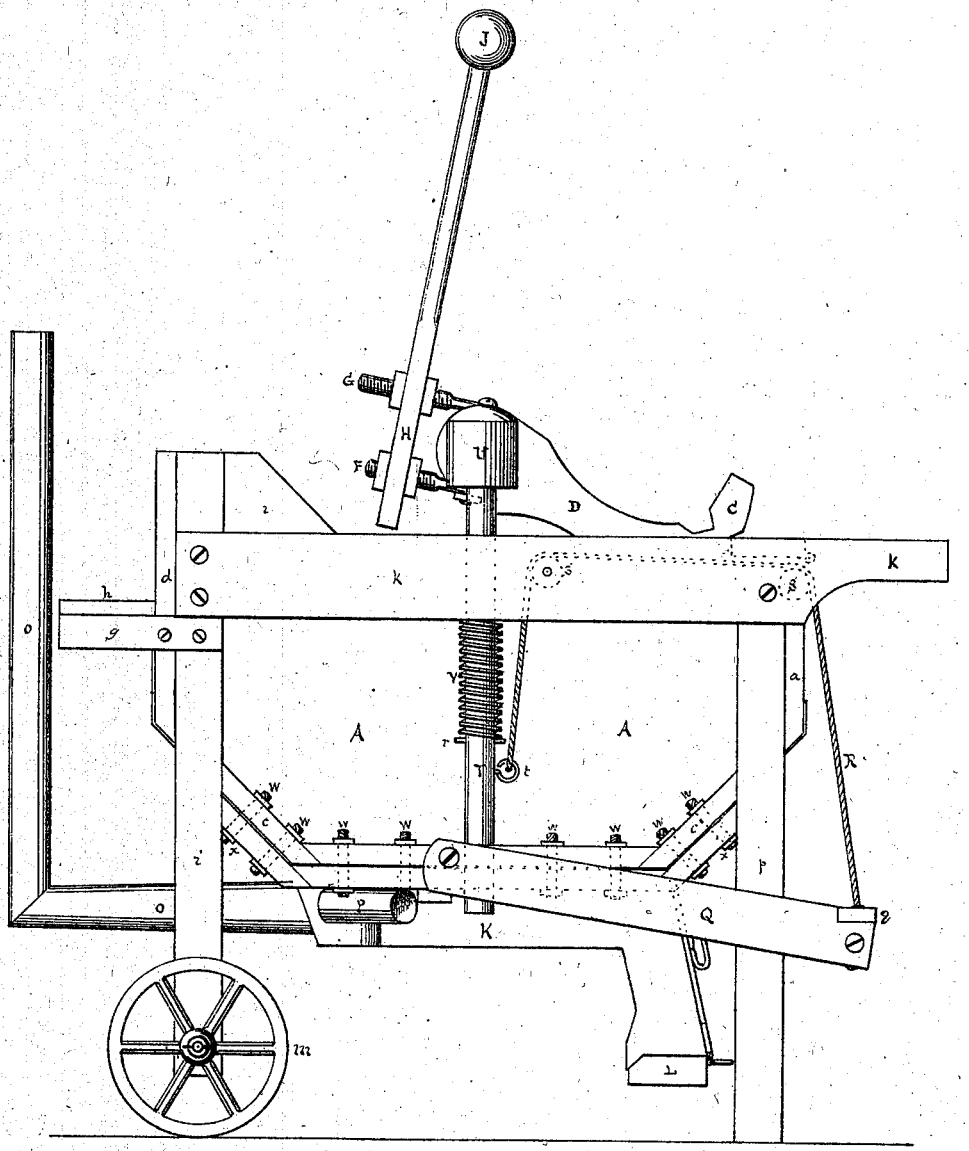
2 Sheets--Sheet 1.

THEODORE TEBOW.

Improvement in Washing-Machines.

No. 115,263. Patented May 23, 1871.

Fig. 1.



Witnesses.

G. C. Griffin

Jas. R. Lowndes

Inventor.

Theodore Tebow

2 Sheets--Sheet 2.

THEODORE TEBOW.

Improvement in Washing-Machines.

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Fig. 2.

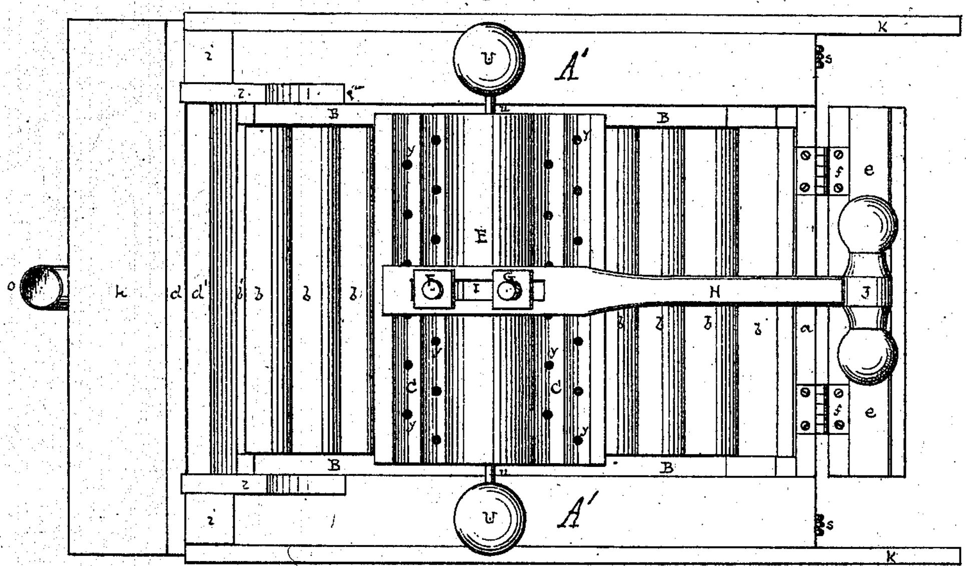
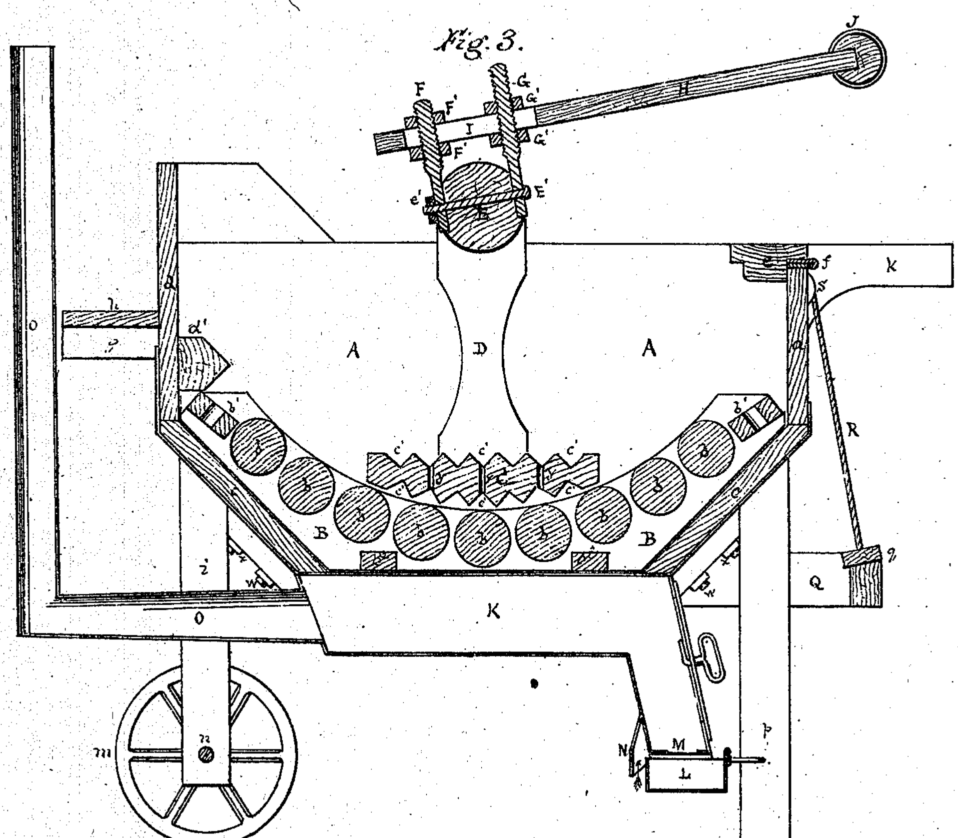


Fig. 3.



Witnesses.

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Inventor.

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United States Patent Office.

THEODORE TEBOW, OF LEXINGTON, KENTUCKY.

Letters Patent No. 115,263. dated May 23, 1871.

IMPROVEMENT IN WASHING-MACHINES.

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

I, THEODORE TEBOW, of the city of Lexington, in the county of Fayette and State of Kentucky, have invented certain Improvements in Machines for Washing Clothes, of which the following is a specification.

Nature and Objects of the Invention.

The first part of my invention relates to the construction of a box with four legs, the front two of which are mounted upon wheels, and with two handles upon the rear end of the box, so that by raising it the machine can be rolled upon the wheels and easily conveyed wherever it may be desired; and also to sheathing the entire bottom of it with copper, so that it will be water-tight, and having the sheet of copper to extend out on each side of the box beyond the wooden walls, and to clamp such extended edges above and below with pieces of wood, and passing through them at proper intervals thumb-screws, by means of which devices the only seams on the box—namely, the side seams—can be kept always water-tight; and also to the construction and arrangement of a furnace just beneath such box, and attached thereto for the purpose of heating the suds.

The second part of my invention relates to the construction of a series of equal wooden rollers with metallic journals, and arranging them in the arc of a circle, and fixing them in a frame which is simply placed upon, but not fastened on, the bottom and inside of the box, and is removable at convenience, and in connection with that series of rollers a rubber, which is fluted on the top, as well as the under side, and perforated with holes, and the bottom of which conforms to the curved form from front to rear, with the series of rollers; and also to the manner of mounting and operating such rubber, as hereinafter shown. The passing of this rubber over the clothes which are in the suds and on the rollers washes the clothes effectually.

The third part of my invention relates to the construction and operation of a treadle, the foot-piece of which is in the front, convenient to the operator while he works the rubber, and to so arranging two springs, in connection with the treadle and the bearings of the rubber, that the latter can be raised above the clothes and the series of rollers can be taken out at will.

Description of Accompanying Drawing.

Figure 1 is a side elevation of a machine embracing my improvements;

Figure 2 is a plan view, and

Figure 3 is a central vertical longitudinal sectional view of the same.

General Description.

A is the body of the box;

A′ A′, the side pieces;

K K, the handles by which the machine is moved about;

J is the handle, and

H the lever by which the operator oscillates the cylinder E, to which the rubber is supended, and which has its bearings in the heads U U of the sliding rods T T.

V V are the springs seated upon those rods, and hold the rubber down upon the clothes when the machine is in operation.

b^2 b^2 are cross-ties to hold the roller-frame together.

In fig. 3 is shown the general form of the body of the box A, the form of the rubber, the rollers in their frame B B, the copper sheathing for the bottom of the box c^2, and the hinge f of the piece e, by means of which that piece can be turned back so as to allow the frame of rollers to be taken out, or to allow the rubber to be turned up entirely out of the box, and to facilitate the putting in of the clothes.

The furnace K rests upon cleats on the inside of the frame and under the box, and may be cast of iron. Its general form is shown in figs. 1 and 3. It fronts to the front of the machine.

M is the grate.

L is the ash-pan, and when it is intended to stop the burning of the fuel it is placed in the position shown in fig. 1 and excludes the air; but, on the contrary, when the fuel is to be burned the ash-box is made to slide on its end flanges on suitable bearings, and occupy the position shown in fig. 3, and then the air for combustion is admitted in front, and also in the rear of it, as indicated by the arrow.

The fuel, through the front doors of the furnace, is placed upon the grate M, and the heated air passes up into the body K and under the suds.

In fig. 1 is shown how the pieces placed above and below the extended sides of the copper sheet upon the bottom of the box are clamped and held thereto by the thumb-screws, marked W, to prevent leakage.

The rear posts i i rest upon the wheels m m, while the front ones, P P, rest upon the ground.

The cylinder E is connected with and fastened to the rubber C by means of the uprights D D, and the handle J is rendered adjustable in height, to suit operators of high or low stature, by means of the screw-rods F and G, which are fastened, as shown, by a bolt passing through their lower ends and through the cylinder itself, and their upper ends pass through a slot, I, in the lever H, and by means of the nuts F′ F′ and G′ G′. By the use of these nuts the adjustment is easily made. The slot should be much longer than the distance from one screw-rod to the other, so that the handle J may be extended more or less to the front, as may be desired.

The treadle before mentioned is shown in fig. 1.

The side pieces Q Q are connected by the cross-piece *q*.

The side pieces are pivoted, as shown, and ropes, of hemp, wire, or other material, pass from *q q* up over the pulleys S S, thence over the pulleys S′ S′, down to fastenings on the sliding rods T T.

The spiral springs W are seated upon the pins *r r;* and when the foot is pressed upon the bar *q* the ropes or cords draw up the sliding rods T T, and with them the whole rubbing apparatus, which is mounted upon the rods *u u*, in their heads U U.

Claims.

I claim as my invention—

1. The box, composed of the body A, side pieces A′, the copper bottom c^2, the pieces *c* c^1, and the screw-bolts *w* with their nuts, in combination with the furnace K having the grate M and ash-box L, when each is constructed and all are arranged substantially as and for the purpose described.

2. The rollers *b*, arranged and revolving in their frame B, in combination with the rubber C, fluted and perforated, as described, suspended and operated upon the uprights D D, the shaft E, the sliding rods T having the heads U U, and the adjustable-handle lever H, when each is constructed and all are arranged and operated substantially as and for the purpose described.

3. The treadle Q Q *q*, cord R, pulleys S and S′, sliding rods T T, springs V V, when in combination with rubber C, shaft E, and adjustable-handle lever H, when each is constructed and all are arranged and operated substantially as and for the purpose described.

THEODORE TEBOW.

Witnesses:

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