

T. CLUCAS, Jr.
Washing-Machines.

No. 136,135.

Patented Feb. 25, 1873.

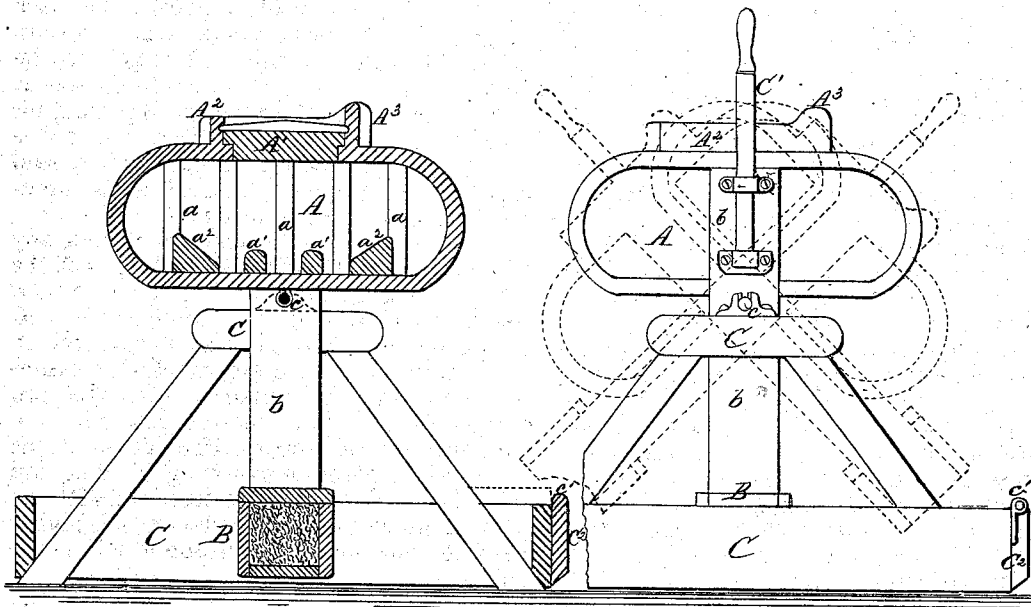


Fig. 1.

Fig. 2.

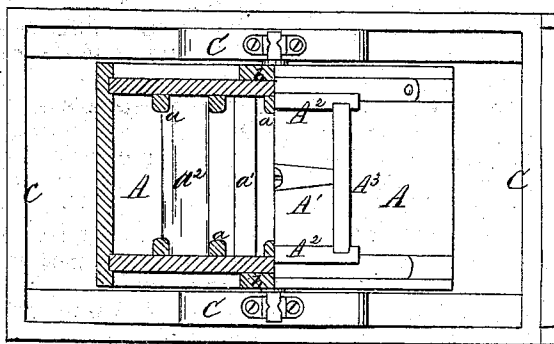


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS CLUCAS, JR., OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 136,135, dated February 25, 1873.

To all whom it may concern:

Be it known that I, THOMAS CLUCAS, Jr., of St. Louis, in the county of St. Louis and State of Missouri, have made certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and true description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of this invention consists in the formation of a flat-bottomed box having circular ends, when the same is properly counterpoised and pivoted in a proper frame, on which it oscillates or swings; also, to the peculiar arrangement of ribs on the flat bottom and at each side of the receptacle, by which the materials are turned and opened to the action of the water, the circular ends being smooth so as to allow the water to freely ascend said ends and spray over the material operated upon when the receptacle is oscillated.

To enable those skilled in the art to make and use my said invention, I will now more fully describe the same, referring to the annexed drawing, of which—

Figure 1 is a central sectional elevation. Fig. 2 is a side elevation; and Fig. 3 is a top plan with parts removed.

The receptacle A is constructed with flat and vertical circular ends properly joined and hooped together. (See Figs. 1, 2, and 3.) The said receptacle A is properly counterpoised by weights placed in a box, B, formed of pieces *b* secured to each side of the receptacle A, and having proper sides, bottom, and cover, as shown in Figs. 1 and 2. Furthermore, said receptacle is pivoted by a rod, *c*, in proper bearing on a frame, C, on which it oscillates, as shown in dotted lines in Fig. 2. In order to operate the receptacle A, there is attached by proper sockets to said receptacle a handle, *C*¹; or said handle may be firmly secured, if desired. At the sides of the receptacle A there is arranged a series of upright ribs, *a*, having rounded edges, as shown in Fig. 3. At the bottom of said receptacle is arranged two or more horizontal ribs, *a*¹, having rounded edges, as shown, and near the circular ends of the receptacle A is arranged the larger ribs *a*² having a curved shape, (see Fig. 1,) for the purpose of allowing the material acted upon to readily pass into the ends of the receptacle, and at the same time

offering a resistance to the passage back of said material from the ends. On the top of the receptacle A is arranged a door or opening, A¹, for the introduction into the receptacle of the materials to be washed, the cover of which is arranged to fit within the raised offset A², and be secured therein by a turn-buckle or other suitable device. The back piece A³ of the offset is made larger, so as to furnish a bearing, to which a wringer may be attached. In the bottom of the receptacle A is arranged a proper discharge-opening, for discharge of water, as usual. The frame C is provided with a board, C², hinged at *c*¹ to said frame, so as to form a support for a tub or other vessel used in "rinsing."

The receptacle is constructed without any ribs for washing fragile material, so that the water, in passing from one side to the other, passes up and around the circular ends, and is sprayed over the clothes or material in the receptacle, and thereby effectually washes the same; and, furthermore, when ribs are used on the bottom of the receptacle in conjunction with the smooth circular ends, the material is exposed to a rubbing, turning, and opening process, which, in connection with the spraying process of the circular ends, is highly useful for the purpose of cleaning said material.

It is also evident that this method of operation and construction is equally applicable for churning processes, in which case the edges of the ribs will be square instead of rounding.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The receptacle A, when the same is provided with a flat bottom and vertical circular ends, in combination with the counterpoise B and frame C, as and for the purpose set forth.

2. The receptacle A, when the same is provided with a flat bottom and vertical circular ends and ribs *a*¹ *a*², in combination with the frame C and counterpoise B, as and for the purpose set forth.

In testimony of said invention I have hereunto set my hand.

THOMAS CLUCAS, JR.

Witnesses:

ROBERT BURNS,
WILHELM FERHNER.