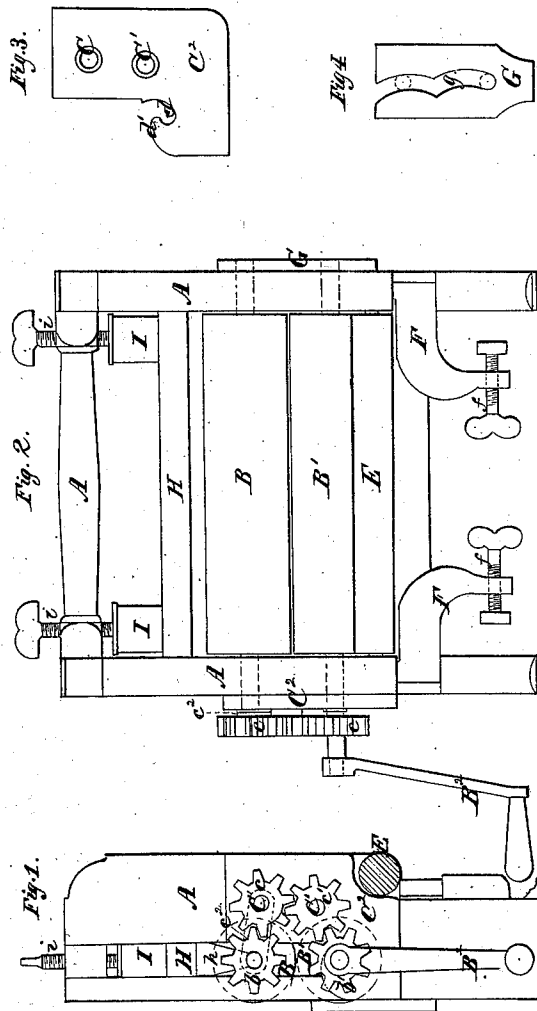


S.F. Emerson,

Clothes Wringer,

No 83,480,

Patented Oct. 27, 1868.



Witnesses:
J. L. Landon, Clerk.
Chas. Heaton.

Inventor:
Simon F. Emerson
by W. L. Landon & Co. his atty

United States Patent Office.

SIMEON F. EMERSON, OF SEVILLE, OHIO.

Letters Patent No. 83,480, dated October 27, 1868.

IMPROVED WRINGING-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, SIMEON F. EMERSON, of Seville, in the county of Medina, and in the State of Ohio, have invented new and useful Improvements in Wringing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which make part of this specification, and in which—

Figure 1 represents an end view of my improved clothes-wringer;

Figure 2, a rear view of the same;

Figure 3, a view of the bearing-plate which carries the intermediate gears; and

Figure 4, a view of the slotted bearing in which the journals of the rollers revolve.

My improvements consist in a bearing-plate, having spindles or axes upon which the intermediate gears revolve, and a curved slot for the reception of the journal of the lower roller at the gear-end, together with a hook or projection for preventing the lower roller from rising, when in operation, by its gear "climbing" the intermediate gear.

In the accompanying drawings, which show a convenient arrangement of parts for carrying out the objects of my invention, A represents the frame of the machine, and B B' the wringing-rollers. A bearing-plate, C², is secured upon one end of the machine, and is provided with short spindles or axes, upon which the intermediate gears c' c revolve. The journal of the gearing-end of the lower roller, B', revolves in a bearing at the bottom of a curved slot, d, formed in the bearing-plate C², and open at top, so as to allow the roller B' to be removed, when desired, without detaching its gear, b'. The bearing-plate C² extends partially over the bearing formed at the bottom of the slot d, in form of a projection or hook, d', which projection prevents the lower roller from rising, when in operation, by its gear b' climbing the primary intermediate gear c'.

The upper roller, B, when in operation, bears upon the wedge-shaped bearings h, at each end of the machine, against which its journals are pressed.

The bearings h are attached to a bar, H, which extends from one to the other, and is pressed down by springs I, regulated by set-screws i.

The journal of the upper roller, B, is connected to that of the upper intermediate gear, c, by a link, c², in such manner that the roller rises and falls in an arc concentric with the gear c, and thereby maintains its own gear, b, always in connection therewith.

The journals of the rollers B B, at the ends opposite to the gearing, revolve in a curved slot, g, formed in a plate, G, attached to the frame, the journal of the lower roller resting in a bearing at the bottom of the slot.

The curvature of the slot g is concentric with the intermediate gears c c', which fact, in conjunction with the use of the link c², maintains the gear of the upper roller in working connection with the upper intermediate gear, c, during its changes of vertical position in the operation of the machine.

A wooden roller, E, is pivoted to the frame A, near to and in rear of the lower roller, B', for preventing the clothes which overhang from rubbing against the side of the tub.

F F are pivoted clamps, provided with set-screws f, by which the machine is secured to the tub.

Rotation is communicated to the lower roller, B', by means of the crank B², and thence through the gears, b', c', c, and b, to the upper roller, B.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent, is—

1. The bearing-plate C², furnished with axes C and C', substantially as and for the purpose set forth.

2. The bearing-plate C², furnished with axes C and C', slot d, and hook d', substantially as and for the purposes set forth.

3. The curved slot d and hook d', in combination with the gears c c', b b', rollers B B', slotted plate G, wedge-shaped bearings h, and plate C², with the axes C C', substantially as and for the purposes set forth.

The above specification signed by me, this 13th day of August, 1868.

SIMEON F. EMERSON.

Witnesses:

WM. M. CUNNINGHAM,
B. S. CHASE.