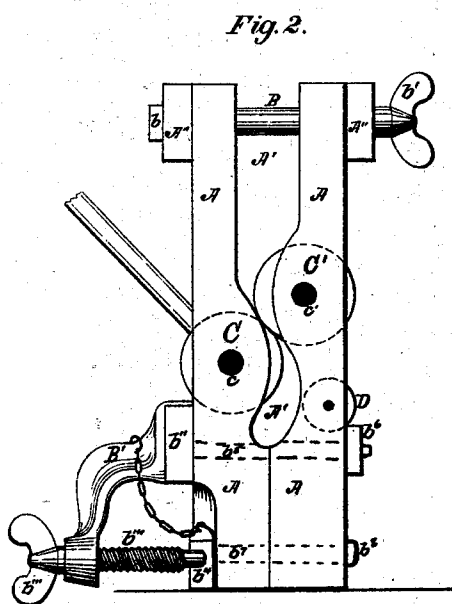
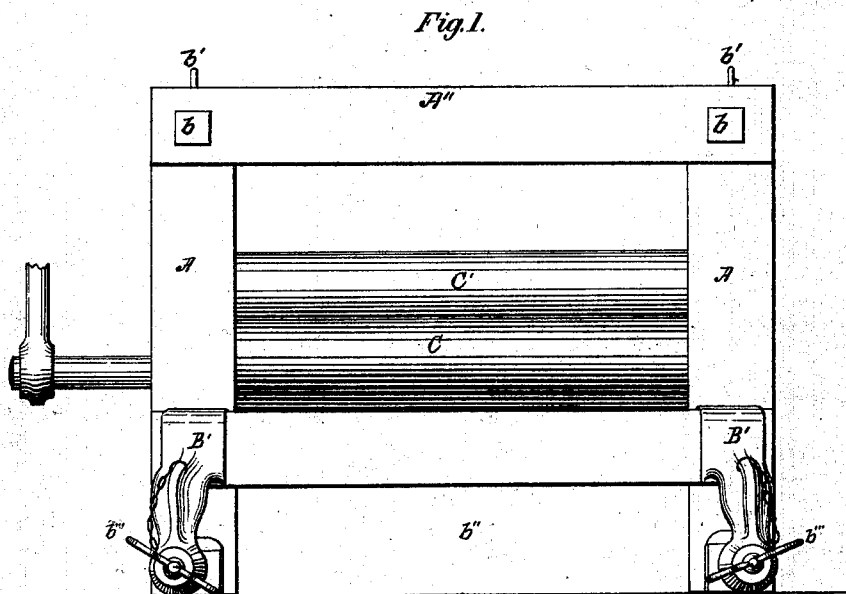


T. E. McDONALD.
Clothes-Wringers.

No. 144,627.

Patented Nov. 18, 1873.



Attest:
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UNITED STATES PATENT OFFICE.

THOMAS E. McDONALD, OF NEW BRUNSWICK, NEW JERSEY.

IMPROVEMENT IN CLOTHES-WRINGERS.

Specification forming part of Letters Patent No. 144,627, dated November 18, 1873; application filed July 10, 1873.

To all whom it may concern:

Be it known that I, THOMAS E. McDONALD, of New Brunswick, in the county of Middlesex, in the State of New Jersey, have made certain Improvements in Clothes-Wringers, of which the following is a specification:

The invention consists in the construction and arrangement of the parts that compose the wringer, as will be hereinafter more fully described.

In the drawings, Figure 1 is a side view of the wringer; Fig. 2, a transverse view of same.

A A A A are posts that support the wringer-rolls; are bolted fast together at their bottom or lower ends; and from below, where the rollers are journaled in them, an open space, A', is made between each pair of end posts. A'' A'' are ties or plates that are fixed to the posts A at their upper ends, and on the outside of said posts, by means of the transverse screw-bolts B B that go through the plates A'' and posts A. These screw-bolts B have a head, b, at one end, and a thumb-nut, b', at the other, the thumb-nut b' screwing onto screw-thread on the bolt B. B' B' are metal clamp-arms projecting from the outside of posts A, and embrace the longitudinal tie b'', and have screw-bolts b⁵, that pass through the tie and posts, and hold the bottom ends of posts A together when the screw-nut b⁶ is turned up on the bolt b⁵ and bearing against the post on the opposite side from the arm. b⁷ b⁷ are screw-bolts that pass through the pairs of end-posts A below the bolts b⁵, and with bolts b⁵ hold the lower ends of the posts firmly and immovably together. b''' b''' are thumb-screws, that screw through the lower

end of the clamp-arm, and so that their inner ends shall bear against a face-plate or other protector on the tub, and clamp the tub against the outer side of the posts A A. C is the lower wringer-roll, of the common construction, and is journaled at c in one pair of side posts A, and is revolved by means of a hand-crank in the usual way. C' is the upper wringer-roll, of the same construction as the roller C, and is journaled at c' in the other pair of side posts A. This arrangement of the wringer-rolls takes them out of a perpendicular position, and they bear against each other in a diagonal direction. D is a revolving guide-roller, to guide and support the clothes in their passage from the tub or vessel to and while they are passing through the wringer, and between the rollers is journaled in the same pair of posts A with the upper roller C', as seen in Fig. 2.

A clothes-wringer thus constructed, the pressure of the wringer-rolls can be graduated by the screw-bolt B and thumb-nut b', by reason of the open and unobstructed space A' between the posts in which the rollers are journaled.

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

The combination of the posts A, ties A'', screw-bolts B b⁵, having clamp-arms B' and b⁷, with the wringer-rollers C and C', substantially as described.

THOMAS E. McDONALD.

Witnesses:

A. C. BRADLEY,
W. H. FINCKEL.