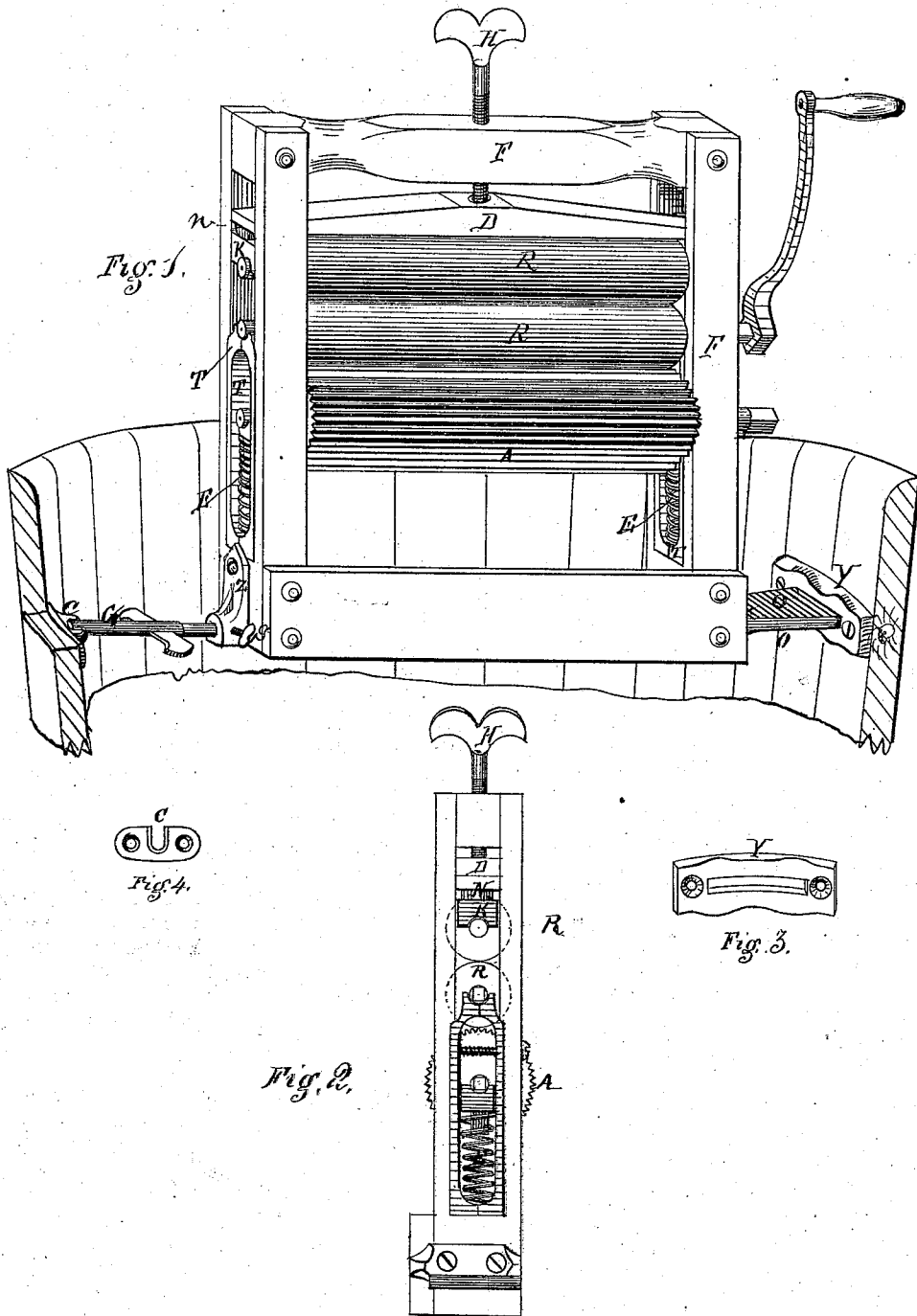


J. W. REED.

WASHING AND WRINGING MACHINE.

No. 174,153.

Patented Feb. 29, 1876.



Witnesses { *Wm. F. Moore* Inventor *James W. Reed.*
John L. Lander

UNITED STATES PATENT OFFICE.

JAMES W. REED, OF PITTSBURG, ASSIGNOR OF PART HIS INTEREST TO
JESSE C. REED AND GEORGE W. REED, OF SAME PLACE, AND LEMUEL
REED, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN WASHING AND WRINGING MACHINES.

Specification forming part of Letters Patent No. **174,153**, dated February 29, 1876; application filed
August 12, 1874.

To all whom it may concern:

Be it known that I, JAMES W. REED, of the city of Pittsburg, in the county of Allegheny, State of Pennsylvania, have invented an Improved Combined Machine for Washing and Wringing, of which the following is a specification:

My invention relates to that class of washing and wringing machines in which a revolving fluted or corrugated roller is made to play from below against wooden gum or rubber covered revolving rolls above.

In my machine the fluted roller or washer A, Figure 1, is combined with the wooden gum-covered rolls R R in one frame, either of wood or galvanized iron, and in such a way that a crank (attached at the pleasure and convenience of the operator, by means of a set-screw, to the elongated shaft of either the lower gum-covered roll or the wooden corrugated roller) moves the whole machine. The fluted roller or washer A, Fig. 1, rests and revolves in and upon a bearing, Fig. 1, set in the spiral metallic springs E E inside the journal-boxes T T underneath the lower roll R, which lower roll R rests upon and revolves in the journals on top of the journal-boxes T T. By means of the spiral metallic springs E E resting upon the lower plate of the frame, the fluted roller A is pressed up firmly from below against the lower roll R, but springing downward, forming the washer. The upper roll is arranged to work against and revolve in the wooden boxes K K, upon which is a gum ball, n, on each side pressed upon by the adjustable

curved wooden bow or yoke D, the tension or pressure of which is regulated by the screw H passing down through the top of the frame, thus forming a system of springs by which the upper gum-covered roll is pressed firmly down against the lower gum-covered roll, yet springing upward, thus forming the wringer.

The machine is attached to any tub by means, on the one side, of an elongated slotted plate screwed onto the side of the tub, into which a hook-shaped extension of the lower part of the frame is made to hitch, and at the other end by means of a sliding bar fitting into the clamp-slot screwed on the side of the tub; said bar is made to slide in the bearing on the bottom of the frame, and is secured by means of a set-screw. The frame, either of wood or galvanized iron, consists of a bottom piece, as heretofore described, with hollowed upright posts for the spring-containing journal-boxes heretofore mentioned.

I claim as my invention—

The elongated journal-boxes T T, containing spiral metallic springs E E, bearing up the corrugated roller A resting and revolving in and upon the journals, said journal-boxes at the same time sustaining upon their top, in the journal, the lower gum-covered roll, as heretofore set forth.

In testimony whereof I have hereto set my hand this 29th day of September, 1875.

JAMES W. REED.

Witnesses:

GEO. W. REED,
J. S. WALLACE.