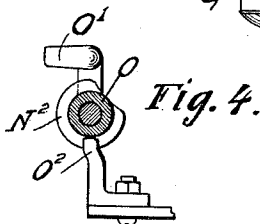
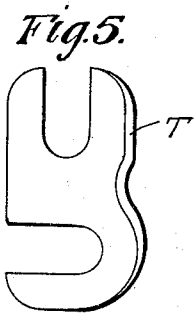
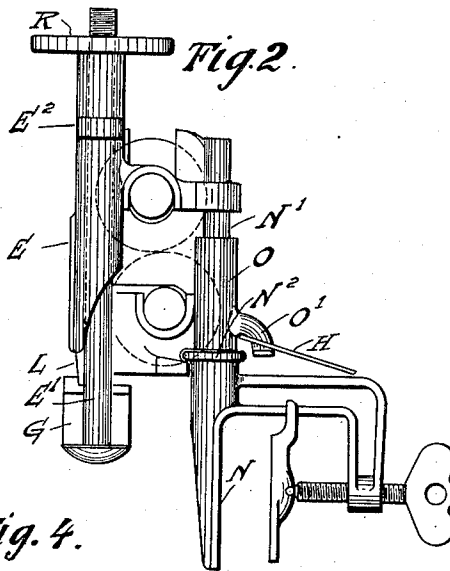
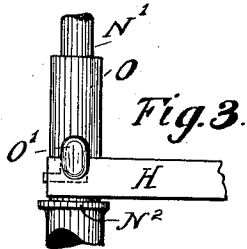
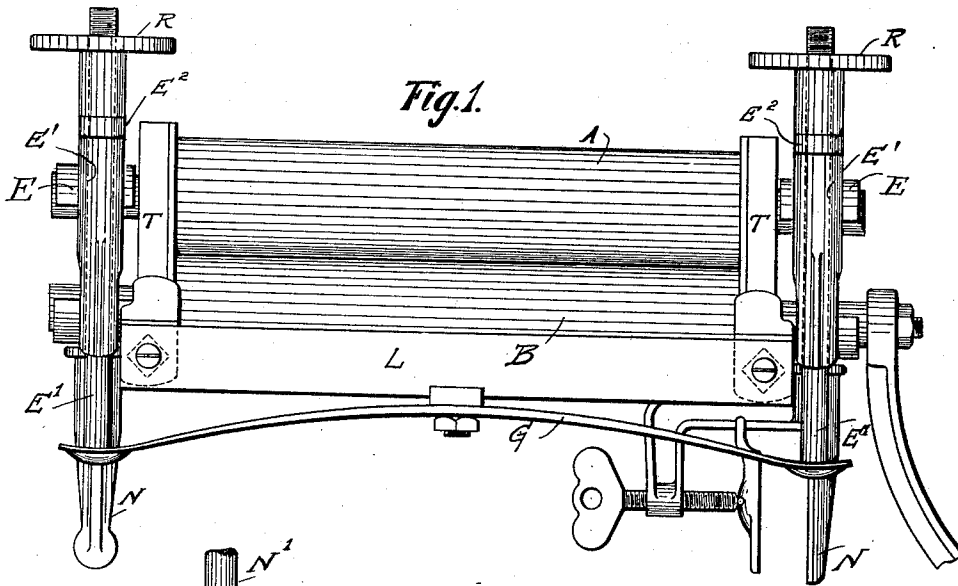


G. A. PADDOCK.
CLOTHES WRINGER.
APPLICATION FILED FEB. 24, 1908.

1,007,965.

Patented Nov. 7, 1911.



Witnesses
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CLOTHES-WRINGER.

1,007,965.

Specification of Letters Patent.

Patented Nov. 7, 1911.

Application filed February 24, 1908. Serial No. 417,519.

To all whom it may concern:

Be it known that I, GUSTAVUS A. PADDOCK, a citizen of the United States, residing at Beaver Dam, in the county of Dodge and State of Wisconsin, have invented a new and useful Improvement in Clothes-Wringers, of which the following is a specification.

The object of my invention is, with a single spring and that in the most convenient place, to overcome the side friction of the movable roll shaft bearings, using a frame fitted thereto, and especially adapted to conveniently secure tub clamps and hinge a clothes apron.

In the accompanying drawing, Figure 1, is a front view of a clothes wringer built as proposed by my invention, Fig. 2, an end thereof, Fig. 3, shows the way in which the folding apron is secured to the wringer frame, Fig. 4, shows how the clamps and ends of the wringer frame are fastened together, and Fig. 5, is a view of an end guard, T, having a slot open rearwardly for the entrance of the lower roll shaft, and another slot open upwardly for the entrance of the upper roll shaft. One of these guards is placed at each end of the rolls.

A represents the upper roll, and B the lower roll.

L is a cross bar of angle steel to which the lower roll shaft bearings, O, O, are bolted. Tub clamps, N N integral with rods, N¹, and flanges, N², are pivoted in sleeves, or upright bearings, which are integral with the lower roll shaft bearings, and are held in place by lips, O², integral with said shaft bearings. Notches at one side of the flanges allow the clamps to be put in place before the shaft bearings are bolted to the cross bar, but after that the lips O² prevent said clamps from coming out. Upper roll shaft bearings, E, are slidably supported on the upright standards, or rods, N¹, and N¹, integral with the clamps. A spring, G, lies under the cross bar L, and forwardly from the roll shafts, its central part bearing against said cross piece, a small casting lying between and holding the spring in place. Bolts, E¹, are passed through openings in the ends of the spring and through sleeves (which depend from the front ends of the upper roll shaft bearings,) and are secured by nuts, R, which are large at the top so as to form good hand rests.

E² are long washers run on the bolts to raise the hand rests.

A folding clothes apron, H, is hinged upon hooks, O¹, which project rearwardly from, and are integral with, the lower roll shaft bearings, said hooks passing through openings in the apron. These hooks are turned sidewise at the end so as to prevent the apron slipping off after the wringer is put together.

I am aware that wringers have been made in which the movable roll bearings were slidably mounted on upright standards, a single spring encircling each standard, bringing pressure on the upper roll shaft in a line parallel with a line drawn from one roll shaft to the other. Also these in which a spring lies directly under the rolls, and in the vertical plane of the roll shafts. I therefore claim neither of these constructions.

I claim as my invention—

1. In a clothes wringer, hooks secured to the rearward side of the wringer frame and curved downward, and a clothes apron with openings through which said hooks pass, forming hinges for the apron, the apron being secured upon the hooks by short cross-bars secured to their lower ends and extending sidewise therefrom.

2. In a clothes wringer, the combination with a lower wringer roll, stationary bearings for said lower roll, a pair of guides extending vertically one adjacent each of said bearings on one side thereof, an upper wringer roll, bearings therefor slidably mounted on one side of said roll on said vertical guides, and tensioning means connected to said bearings on the other side of said upper roll to hold the same in contact with said lower roll.

3. In a clothes wringer, the combination with a lower wringer roll, stationary bearings for said lower roll, a pair of guides extending vertically one adjacent each of said bearings on one side thereof, an upper wringer roll, bearings therefor slidably mounted on one side of said upper roll on said vertical guides, a sleeve carried by each upper bearing, a rod passing through each sleeve, a spring connected to the rods and tensioned to draw the rolls together.

4. In a clothes wringer, a tub clamp comprising an upright standard adapted to stand

inside of the tub and be rigidly secured thereto, a horizontal bar adapted to lie over the edge of the tub and supplied with a depending branch outside the tub, and a flange located around said standard, the wringer also
5 having bearings for the lower and upper roll shaft journals, both being located above said flange, the upper one having an opening through which said standard passes, and a projection from the wringer frame lying under said flange and thereby holding the
10 clamp in place on said standard.

GUSTAVUS A. PADDOCK.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."