E. BANFIELD.

WRINGER.

No. 193,135. Patented July 17, 1877.

Fig. 1

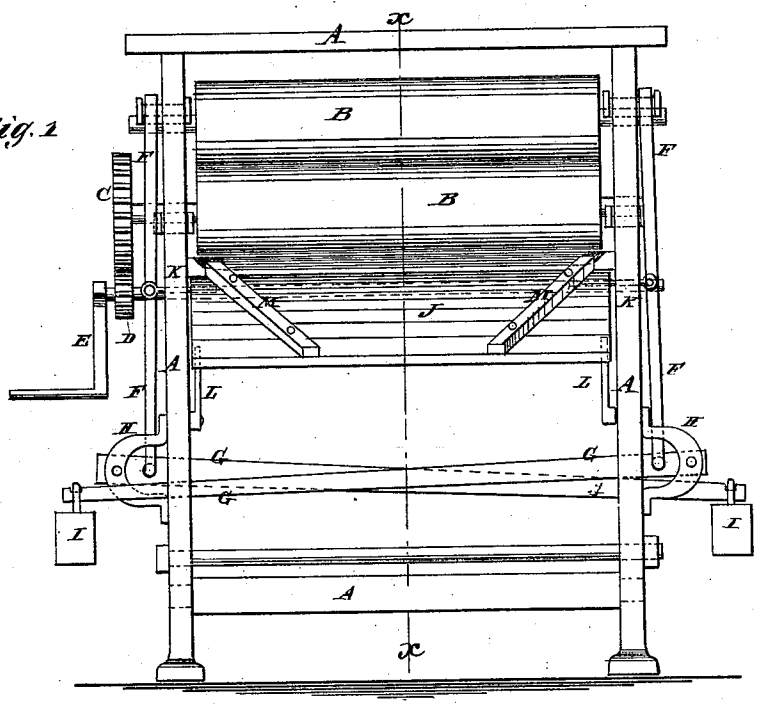


Fig. 2

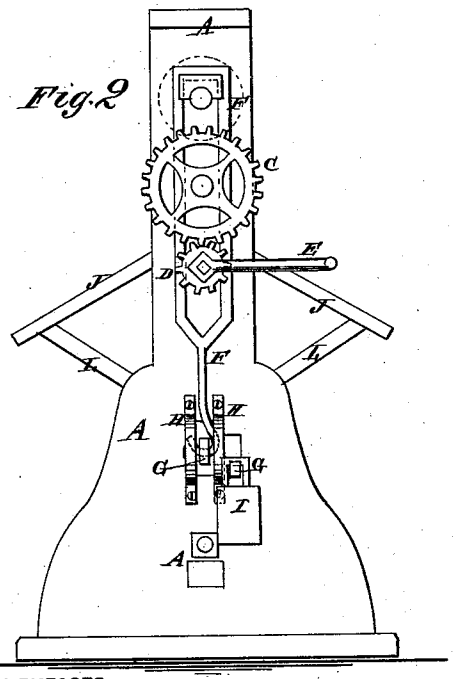
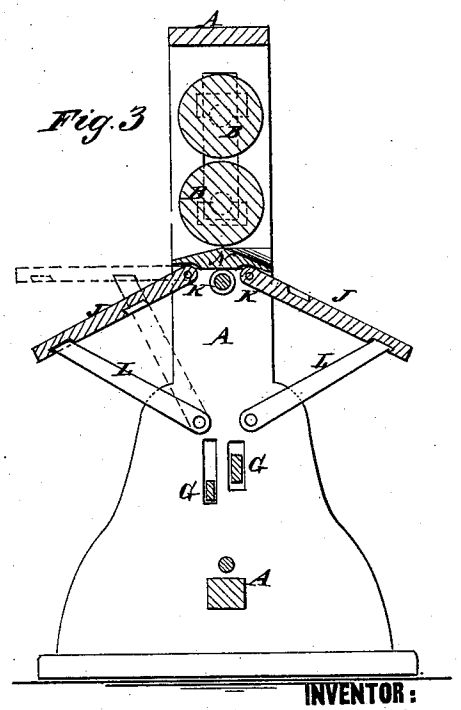


Fig. 3



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IMPROVEMENT IN WRINGERS.

Specification forming part of Letters Patent No. **193,135**, dated July 17, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that I, EDWIN BANFIELD, of Jermyn, Lucerne county, and State of Pennsylvania, have invented a new and useful Improvement in a Combined Wringer and Mangle, of which the following is a specification:

In the accompanying drawing, Figure 1 is a rear view of my improved machine arranged as a wringer. Fig. 2 is a side view of the same. Fig. 3 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1.

The object of this invention is to furnish an improved machine designed for use as a wringer and as a mangle upon table-linen, bed-clothes, and other plain articles that are free from buttons, hooks and eyes, and other fasteners.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

Referring to the drawing, A is the frame of the machine consisting of two uprights, connected at their top and lower parts by cross-bars, and which are made with a wide base to give them a firm support. B represents two wooden rollers, the journals of which work in longitudinal slots in the upper parts of the uprights of the frame A, the journals of the lower roller resting upon half-bearings in the lower ends of said slots, and half-bearing resting upon the journals of the upper roller in the upper parts of said slots. To one of the journals of the lower roller B is attached a large gear-wheel, C, the teeth of which mesh into the teeth of a smaller gear-wheel, D, attached to a rod which works in the uprights A, and to the end of which is attached the crank E, by which the machine is operated. Upon the half-bearings of the upper roller B are hung slotted rods F, to the lower ends of which are pivoted the levers G, the ends of which are pivoted to and between U brackets H attached to the uprights A. The levers G pass through slots in the uprights A, and upon their free ends are hung, adjustably, weights I, so that by adjusting the said weights any desired pressure may be put upon the clothes. To the uprights A, just below the lower roller B, are pivoted the inner edges of two tables, J, by pins K passing in through the said uprights A. The tables J are supported by bars L, the lower ends of which are pivoted to the uprights A, and the upper ends of which enter notches in the said tables, as shown in Fig. 3.

When the machine is to be used as a wringer, the tables J are adjusted in an inclined position, and, in this case, inclined cleats M are attached to one of said tables J, to guide the water wrung from the clothes back into the tub. N is a guide, placed under the bottom of the lower roll, so as to transfer the waste-water to the tables J J, from whence it is guided by the cleats M into the tub.

When the machine is to be used as a mangle, the table J, with the cleats M, is inverted, and the tables are adjusted in a horizontal position, as indicated in dotted lines in Fig. 3.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with wringer-rolls, of the beveled guide N and inclined leaves J, having cleats M, as and for the purpose specified.

EDWIN BANFIELD.

Witnesses:
SAML. WARNER,
JOHN GARDNER.