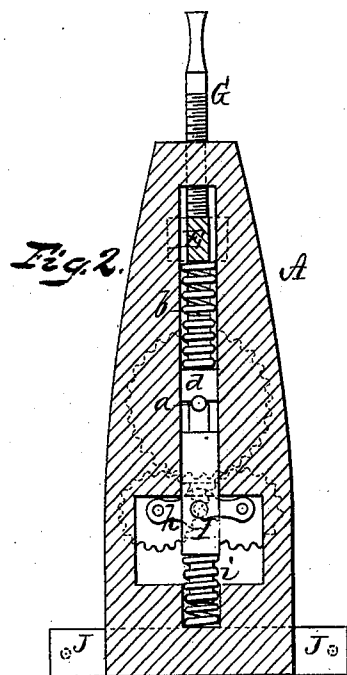
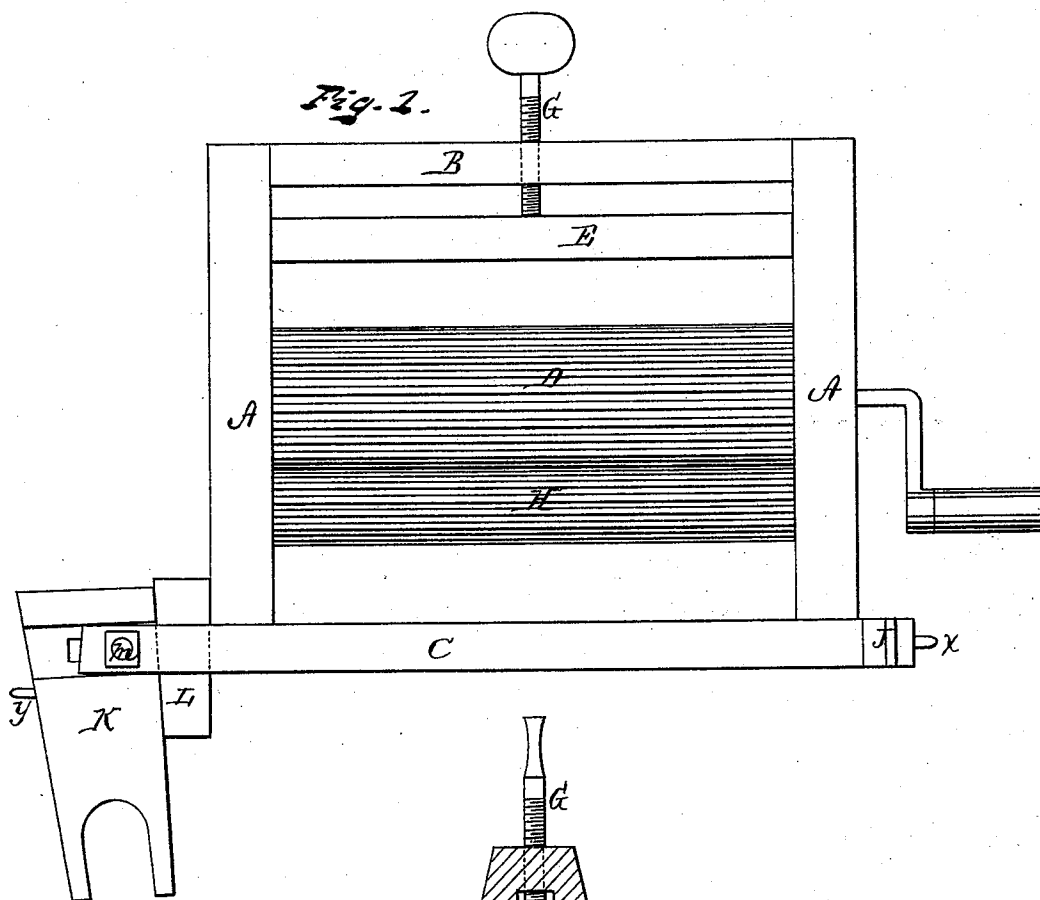


C. B. CAMP & C. OSTERHOUT.

WASHING-MACHINE.

No. 172,964.

Patented Feb. 1, 1876.



WITNESSES

Mary J. Utley
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INVENTORS,

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UNITED STATES PATENT OFFICE.

CHARLES B. CAMP AND CHRISTIAN OSTERHOUT, OF WHITE PIGEON, MICH.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **172,964**, dated February 1, 1876; application filed December 31, 1875.

To all whom it may concern:

Be it known that we, CHARLES B. CAMP and CHRISTIAN OSTERHOUT, of White Pigeon, in the county of St. Joseph and State of Michigan, have invented a new and valuable Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of our washing-machine, and Fig. 2 is a vertical sectional view thereof.

Our invention relates to washing-machines; and it consists in the construction and general arrangement of the frame with an upper large roller pressed downward by springs, and operating on a bed of two smaller rollers balanced in pivoted arms and pressed upward by springs, as will be hereinafter more fully set forth.

In the annexed drawing, A A represent two parallel side pieces, connected by a top bar, B, and bottom board, C. D is the upper large washing-roller, fluted in the usual manner, and having its journals *a a* placed in vertical slots in the side pieces A, the journals being pressed downward by springs *b b* operating upon the journal-boxes *d d*. On top of the springs *b b* in the slots in the side pieces is placed a cross-bar, E, operated upon by a set-screw, G, for regulating the tension of the springs. H H are the two smaller lower rollers, which have their journals at each end of the machine placed in the ends of a bar, *h*, which is hung centrally in a slotted post, I,

said post being held up by means of a spring, *i*. At one end of the bottom board C are two projecting pins, *x x*, which are to enter holes in a bar, J, secured on the inner side of the tub, said bar being recessed to fit over the corners of the board. The other end of the board C is extended beyond the frame and slotted longitudinally. In this slot is placed a grooved slide, K, extending downward a suitable distance, and provided on its outer edge with a projecting pin, *y*. The slide K is held in the board C by a pin or bolt, *m*, passing through a slot in the slide, allowing the same to move out and in for a suitable distance. In fastening the machine to the tub the pins *x* at one end of the board C are inserted in the bar J, and a wedge, L, is placed in the slot at the other end, between the slide and end piece, and driven down, forcing the slide outward against the side of the tub and the pin *y* into the same, thus holding the machine firmly in the tub.

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

In a washing-machine, the combination of the large yielding washing-roller D, the smaller rollers H H, hung in the balanced bars *h h*, the slotted posts I I, and springs *i i*, substantially as herein set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

CHARLES BARTON CAMP.
CHRISTIAN OSTERHOUT.

Witnesses:

GEO. W. BEISEL,
B. PECK.