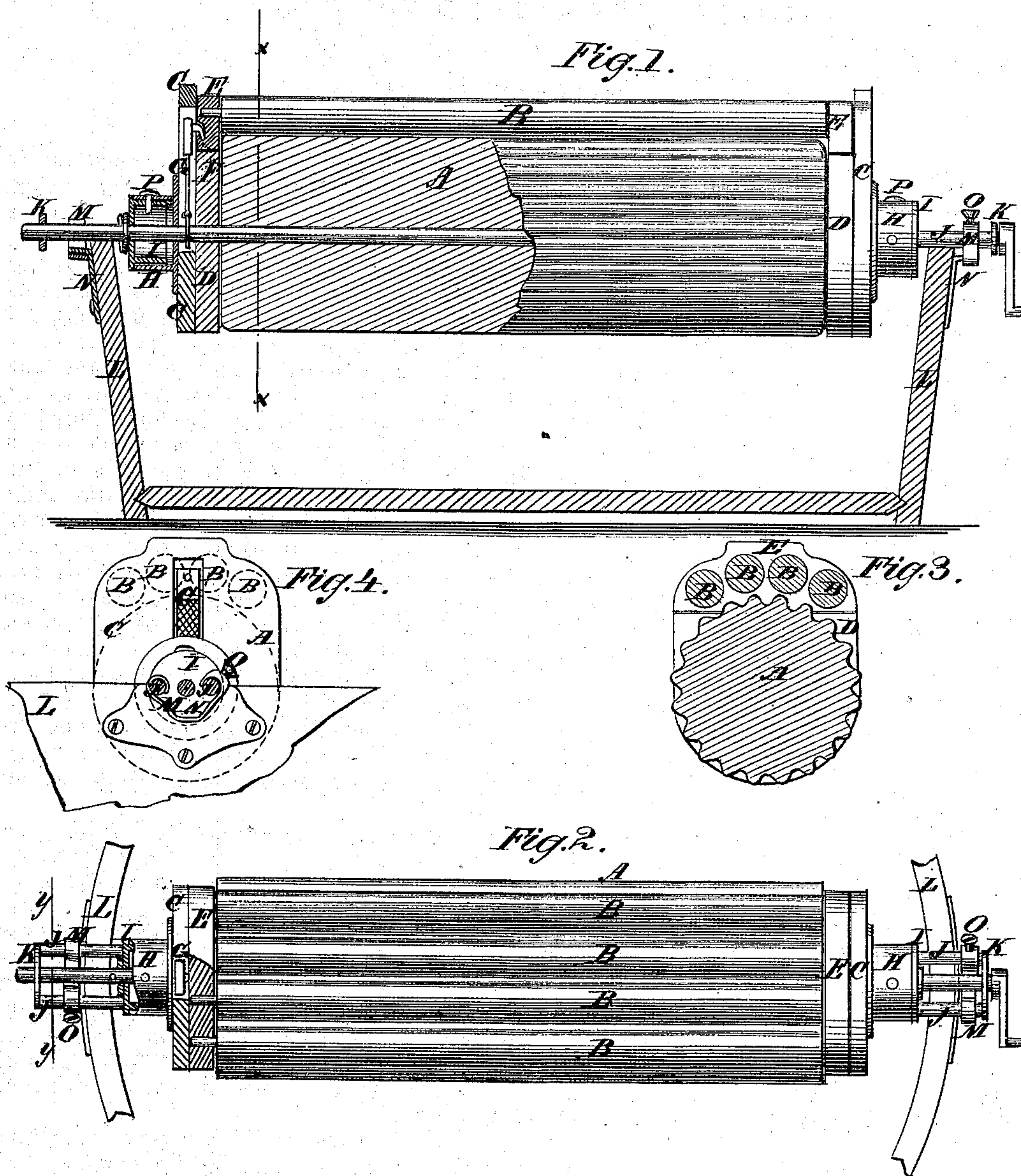


J. C. CHASE.

Improvement in Washing-Machines.

No. 129,714.

Patented July 23, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN C. CHASE, OF MONTICELLO, MINNESOTA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 129,714, dated July 23, 1872.

Specification describing a new and useful Improvement in Washing-Machine, invented by JOHN C. CHASE, of Monticello, in the county of Wright and State of Minnesota.

Figure 1 is a side view of my improved machine, partly in section, to show the construction. Fig. 2 is a top view of the same, parts being broken away to show the construction. Fig. 3 is a detail cross-section of the same taken through the line *x x*, Fig. 1. Fig. 4 is an end view of the same, partly in section, through the line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved washing-machine, simple in construction, compact, and without frame-work to get in the way of the person using it, and which will allow the small rollers to be conveniently unshipped when desired, and adjusted in any desired position, according to the work to be done; and it consists in the construction and combination of various parts of the machine, as hereinafter more fully described.

A is the large roller, which is corrugated, and which I prefer to make about five and a half inches in diameter, and seventeen inches long. B are the small rollers, four or more of which are used, and which I prefer to make about one and a half inch in diameter and seventeen inches long. The journals of the rollers A B revolve in head-blocks, which are made in three pieces, C D E. The journals of the large roller A pass through and revolve in the pieces C D, which are secured to each other by screws or bolts. The journals of the small rollers B revolve in the piece E, which sits loosely upon the piece D, and is connected with it by dowel or guide pins F. The piece C is slotted to receive the spring G, the lower end of which is attached to a ring, through which the journal of the roller A passes. The upper end of the spring G is provided with a hook or pin to take hold of a catch attached to the outer side of the movable piece E. By this arrangement the springs G can be conveniently detached from the pieces E to allow the small rollers B to be unshipped when desired. H I are two cups, fitting into each other, one of which, as H, is securely attached to the outer side of

the outer piece C of the head-blocks C D E, and through the centers of both of which pass the journals of the roller A. To the movable cup I are attached two outwardly-projecting arms, J, one upon each side of the journal of the roller A, and the outer ends of which are connected by a bar or yoke, K, through the center of which the journal of the roller A passes. The arms J and the journals of the roller A rest in notches in the upper edge of the tub L, where they are secured in place by a stirrup, M, which passes beneath a lug, N, secured to the side of the tub L. The ends of the stirrups M slide upon the arms J, to which they are secured by set-screws O, as shown in Figs. 1, 2, and 4. The cups H I are connected with each other adjustably by pins P, which pass through holes in the said cups, several holes being formed to receive the said pins, so that the said cups H I may be adjusted into any desired position with respect to each other. This construction enables the small rollers B to be adjusted above the roller A, or below it, or in any position between these points, as may be desired.

If desired, the head-block C D E may be extended, and a second set of small rollers, B, placed upon the other side of the cylinder A.

In washing long or large articles both sets of rollers, B, may be used. In washing small articles only one set of rollers need be used. When two sets of rollers, B, are used they may be adjusted in any desired position; or one set may be turned downward to do the washing, and the other set turned upward to act as a wringer.

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

1. The combination of the cups H I, arms J, head-blocks C D E, and rollers A B, substantially as shown and described.

2. The stirrups M and lugs N, in combination with the arms J and cups H I, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:

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