

(No Model.)

J. R. WELPTON.
WASHING MACHINE.

No. 388,606.

Patented Aug. 28, 1888.

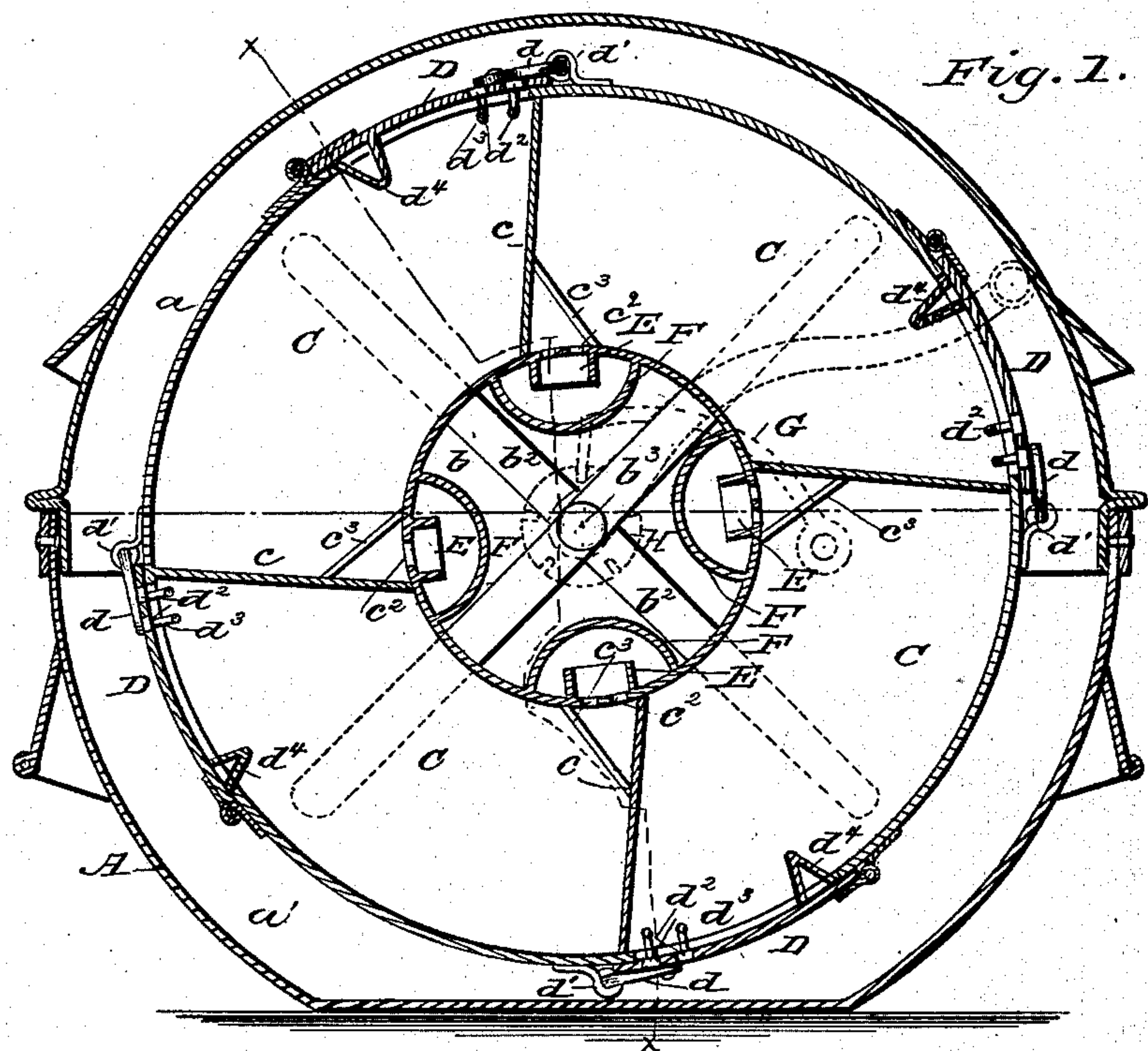


Fig. 3.

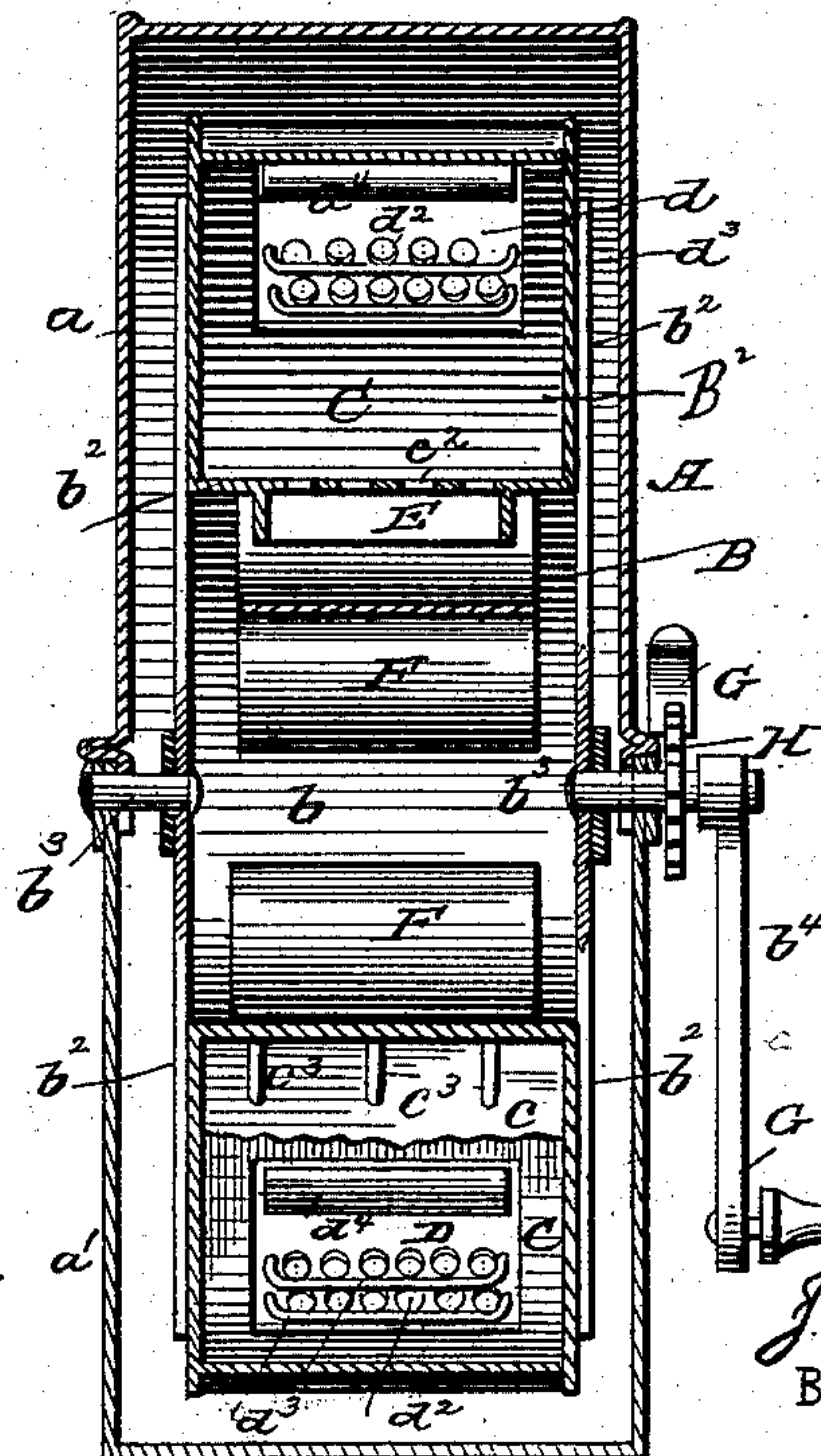
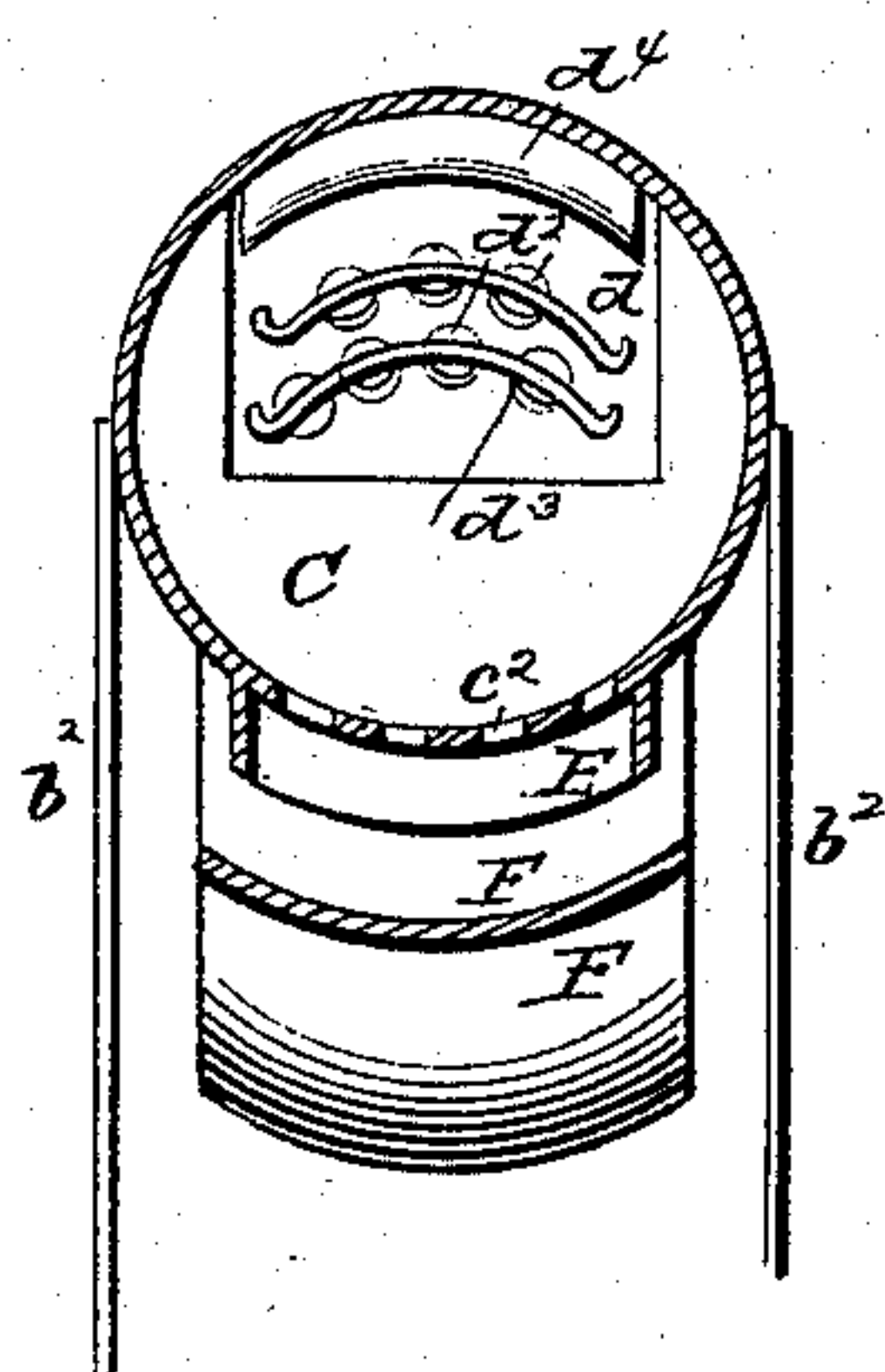


Fig. 2.

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JOHN R. WELPTON, OF RED OAK, IOWA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 388,606, dated August 28, 1888.

Application filed November 26, 1887. Serial No. 256,262. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. WELPTON, of Red Oak, in the county of Montgomery and State of Iowa, have invented a new and useful
5 Improvement in Washing-Machines, of which the following is a specification.

My invention relates to an improved washing-machine in which the clothes to be washed are placed in a tubular washing-wheel and the
10 wheel revolved in a tub or boiler, so that the water and steam will be forced through the clothes and thoroughly cleanse them.

The object of my invention is to provide a washing-machine which will thoroughly wash
15 the clothes without injury, which will wash different kinds of clothes at the same time separately and in the same water, and which will drain the water from the washed clothes.

The invention consists of a tubular washing-wheel provided with a series of compartments,
20 each having openings for the admission and escape of the water and steam.

The invention also consists of a tubular washing-wheel provided with a series of compartments closed by doors and having outer and
25 inner openings for inlet and exit of steam and water, the said openings being covered by guards.

The invention further consists in the peculiar construction and arrangement of parts, as
30 hereinafter fully described.

Figure 1 is a vertical longitudinal section. Fig. 2 is a cross-section on line $x x$ of Fig. 1, and Fig. 3 is a detail sectional view of a modification.
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Similar letters of reference indicate corresponding parts in all the figures.

Referring to the drawings by letter, A represents a boiler, which can be of any desired
40 shape. In the drawings it is shown made of two semicircular sections, $a a'$, the section a' having its lower portion flattened to adapt it to rest upon a stove or other suitable support.

In the boiler A is journaled the tubular wheel B, one of the journals of the said wheel projecting beyond the sides of the boiler and fitted with a crank-handle, b^4 , by which the wheel is revolved. The tubular wheel can be
45 square in cross-section, as shown in Fig. 2, or round, as in Fig. 3. To the sides of the tubular wheel and over the central opening, b ,

thereof are secured the spiders b^2 , in which the journals b^3 are secured.

The wheel B is provided with a series of clothes receptacles or compartments, C, closed
55 by doors D. The partitions c , separating the compartments, are inclined, as shown, to permit the ready removal of the clothes and the draining of the water from the said compartments. The doors D to the compartments are
60 hinged to the wheel B, and are provided with hooks d , engaging eyes d' on the wheel, for holding them closed. Instead of the hooks and eyes, any other suitable fastening may be employed.
65

The free ends of the doors D are provided with a series of openings, d^2 , and on the inside of the doors over the openings are placed the guards d^3 . These guards consist of a series of bent wires having their ends secured to the
70 door over the said openings to prevent the clothes from closing the same. On the inside of the doors at their hinged ends are secured the bridges d^4 , which prevent the water from escaping at the hinged ends, and also serve to
75 guide the clothes over the joint.

Each compartment C is provided with a series of holes, c^2 , in its bottom, and over the holes on the inside of the compartment is placed the guard c^3 , which is composed of wires or
80 rods and serves the same purpose as the guards d^2 on the doors.

In the opening b of the wheel and around the holes c^2 in the compartments C are arranged the water-guards E, and over the said guards
85 the shields F are secured. These guards and shields prevent the water passing out of the compartments through the holes c^2 during the revolution of the wheel from running down and into the openings or holes in the other
90 compartments. The water passing through the said openings is guided onto the shields by the guards, and from thence flows out to each side and down into the boiler. The guards also prevent any water remaining on
95 the shields from passing back into the tubular wheel.

To lock the wheel stationary while removing the clothes from any one of the compartments, I pivot a hook, G, on the boiler and
100 mount a notched wheel, H, on one of the journals of the wheel, so that when the hook is

turned into engagement with the notched wheel the tubular wheel will be held stationary.

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

10 1. A tubular washing-wheel having a central transverse opening and a series of compartments arranged around said opening and communicating therewith, substantially as described, whereby provision is made for allowing the water in the compartments to flow into the central opening and from thence out through the ends thereof into the receptacle in which the wheel is mounted, as set forth.

15 2. A tubular washing-wheel having a central transverse opening and provided with a series of compartments arranged around the said opening, each compartment being provided with an apertured door and with an aperture in its bottom opening into the central transverse opening of the wheel, substantially as herein shown and described.

20 3. In a washing-machine, the combination, with a tubular wheel having a central transverse aperture and provided with a series of compartments having apertures in their bottoms, of doors for closing the said compartments provided with apertures, guards over the apertures in the compartments and doors, and bridges at the hinged ends of the doors, substantially as described.

4. In a washing-machine, the combination, with a tubular wheel having a central transverse opening and provided with a series of compartments having openings in their bottoms and closed by doors, of shields F, secured within the transverse aperture of the wheel over the openings in the bottoms of the compartments thereof, substantially as herein shown and described.

40 5. In a washing-machine, the combination, with a tubular wheel having a central opening, *b*, and a series of apertured compartments, C, of the guards E and the shields F, substantially as and for the purpose set forth.

45 6. The herein-described tubular washing-wheel, consisting of the tubular wheel B, having the central transverse opening, *b*, and divided into compartments C by the inclined partitions *c*, the said compartments having apertures in their bottoms, the apertured and hinged doors D, for closing the said compartments, guards *c*³ and *d*³ over the openings in the compartments and doors, respectively, the guards E around the openings in the central opening, *b*, and the shields F over the guards E, as specified.

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Witnesses:

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