

No. 725,333.

PATENTED APR. 14, 1903.

C. GARVER.
WASHING MACHINE.

APPLICATION FILED MAR. 24, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

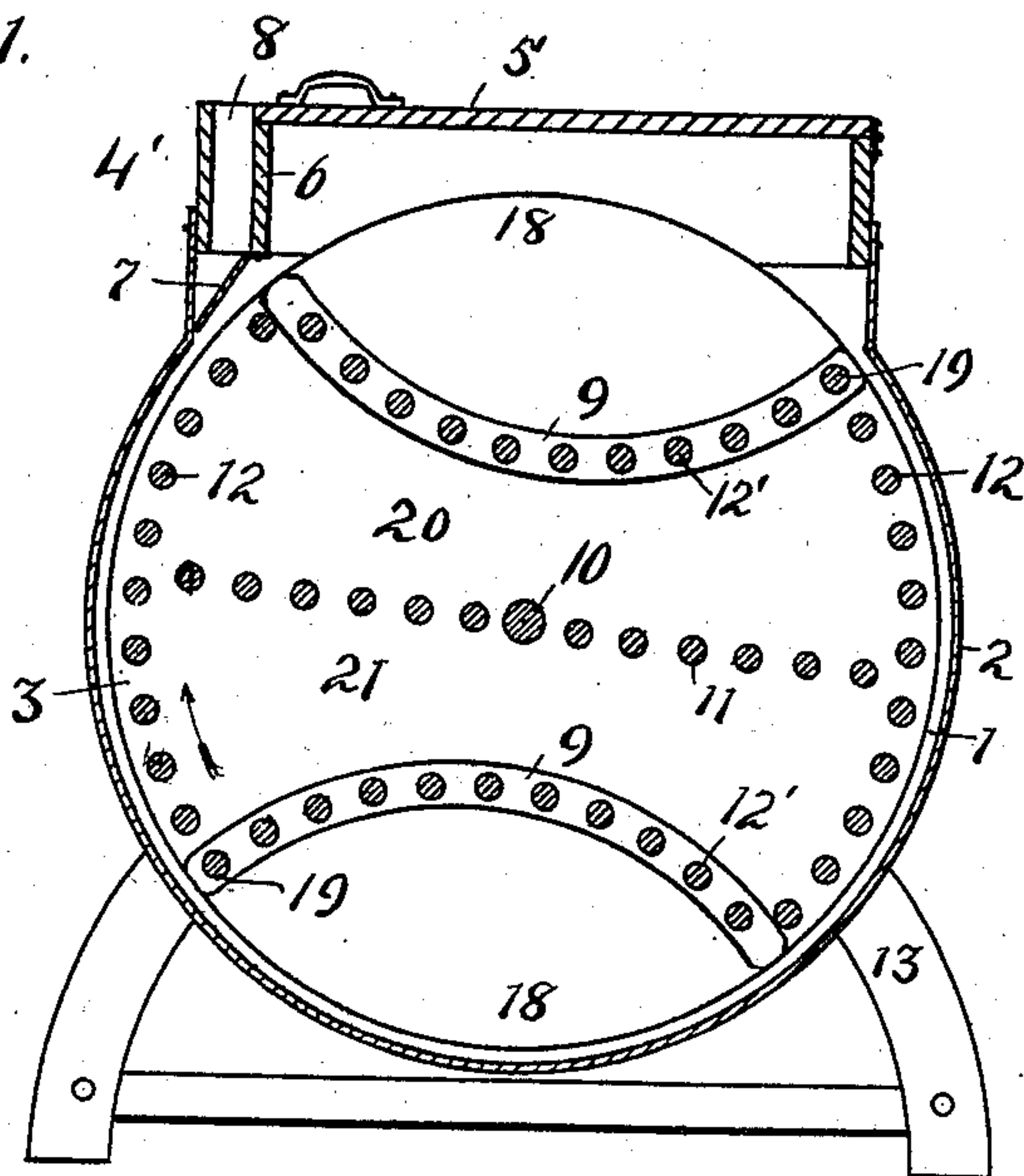
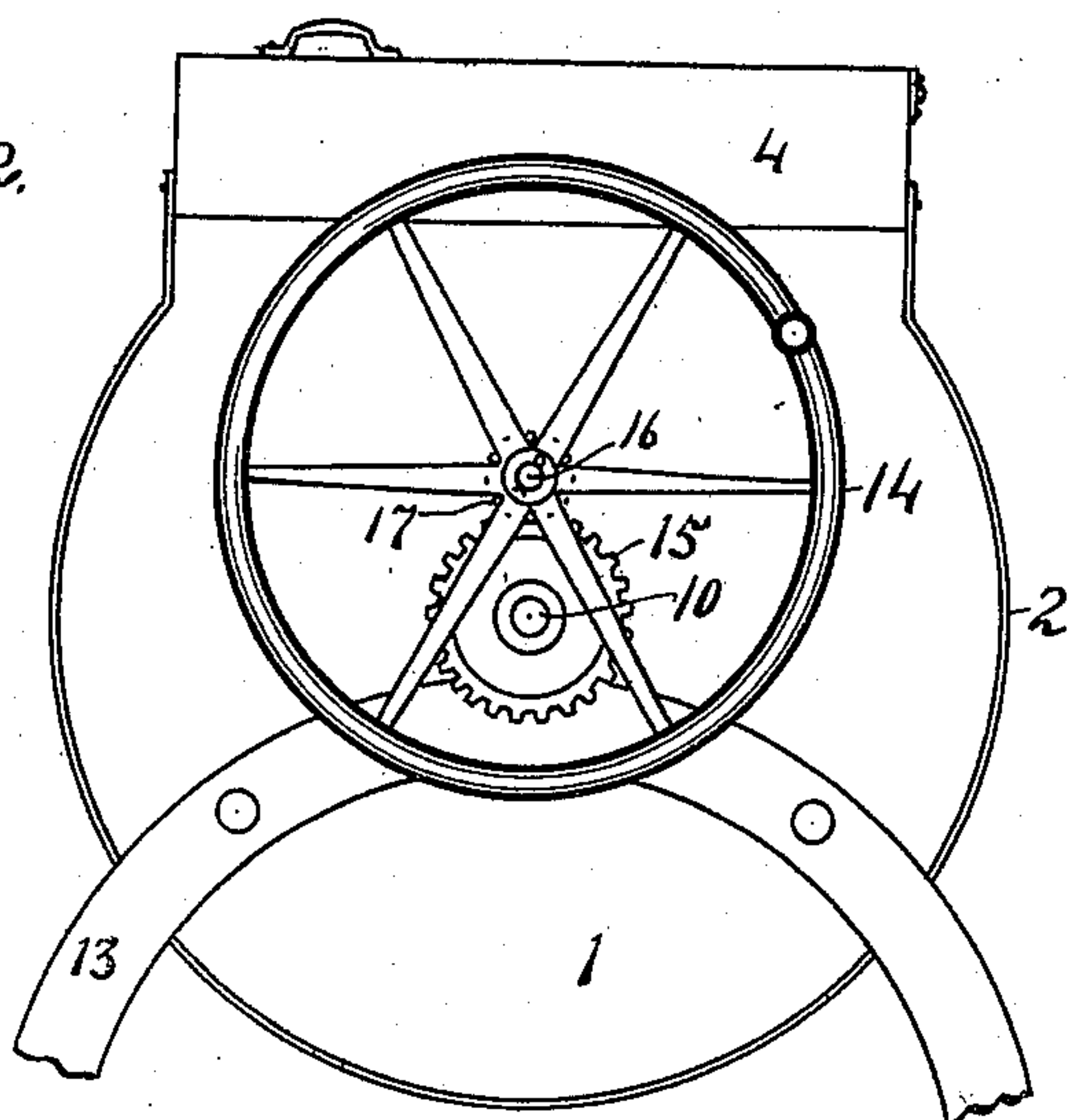


Fig. 2.



WITNESSES:

Anna Pope

Monroe Fitch

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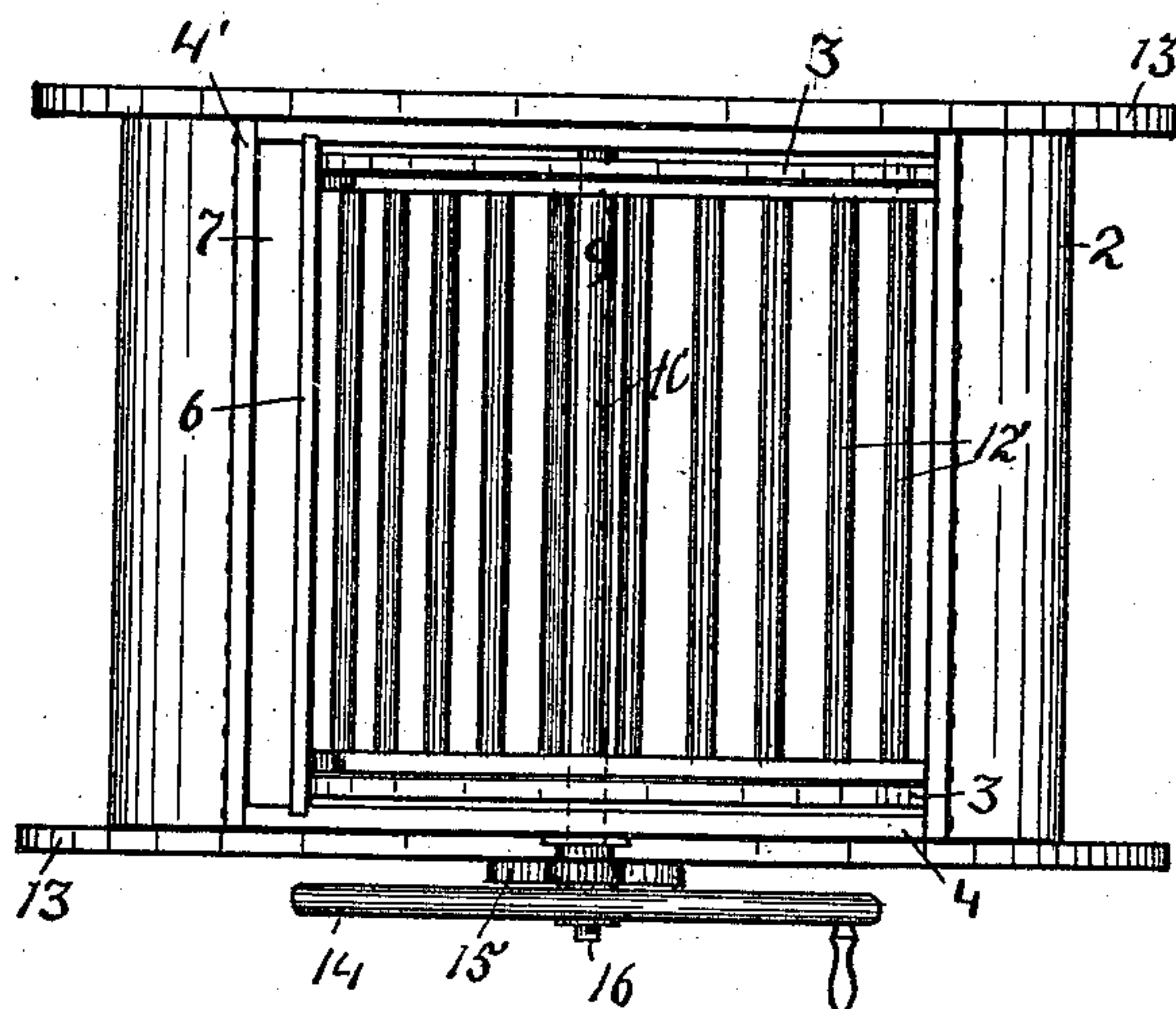
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2 SHEETS—SHEET 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES GARVER, OF FORT WAYNE, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 725,333, dated April 14, 1903.

Application filed March 24, 1902. Serial No. 99,576. (No model.)

To all whom it may concern:

Be it known that I, CHARLES GARVER, a citizen of the United States, residing at Fort Wayne, Allen county, State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in washing-machines; and the object of my improvement is to afford a washing-machine to operate by continuous rotation without causing "balling" of the clothes.

I attain my object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is an elevation in central section. Fig. 2 is an end elevation showing the driving-gear; and Fig. 3 is a plan of the machine, showing the lid removed.

Similar numerals of reference indicate corresponding parts in all the views, and referring now to the same, 1 1 are circular end boards, which have their tops shaped to fit the rectangular frame 4, and 2 is a galvanized sheet of iron secured at its edges upon the perimeters of said end boards and with its uppermost ends attached to the frame 4, thereby forming a suds vessel. The vessel thus formed is suitably supported by legs 13. A cross-piece 6 is arranged in the frame 4, near one end thereof, forming the space 8, and a short piece of metal 7 is secured to the lower edge of said cross-piece and which closes nearly over the lower end of the space 8.

A rotative shaft 10 is mounted longitudinally in the suds vessel and is supported in suitable bearings through the end boards 1 1. A head 3 is mounted upon each end of the shaft 10 within the suds vessel, which heads move with said shaft. A series of cross-rods 11 extend from head to head in a plane with said shaft, and two series of cross-rods 12 extend from head to head and extend in sections partially around the perimeters of said heads and on both sides of the rods 11, leaving spaces 18 without cross-rods. Swinging arms 9 in the form of an arc are pivoted, as

indicated at 19, to the heads 3 and have connecting cross-rods 12', thus forming inclosures 20 21, surrounded by said cross-rods.

A lid 5 is secured upon the frame 4, with one of its ends resting upon the cross-piece 6, so as not to close over the space 8.

The end 4' of the frame 4 is intended to form a mount for a wringer, and the space 8 serves as a way for water to pass from the wringer into the suds vessel. The piece of metal 7 prevents the suds in the vessel from splashing up through the space 8.

Upon the extending end of the shaft 19 is mounted a gear-wheel 15, and upon a stud 16, which projects from the side of the suds vessel, is rotatively mounted a drive-wheel 14, having a pinion 17, which pinion meshes with and drives the said gear-wheel, thus imparting motion to the shaft 10.

In operating my invention the suds vessel is partially filled with fluid, and the uppermost arms 9 are raised, and the corresponding inclosure 20 or 21, as the case may be, is filled with the clothes to be washed. The machine is then turned until the opposite of said inclosures is uppermost, when it is likewise filled. As the machine is driven the clothes contained within the inclosures are repeatedly immersed and caused to rub by gravitation over the cross-rods, and thus the clothes become washed.

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

In a washing-machine, a suds vessel; a horizontal rotatable shaft mounted centrally therein; heads mounted upon the shaft within the vessel; a series of cross-rods ranging diametrically and connecting said heads; two series of rods 12 connecting the heads along portions of their perimeters and extending on both sides of said cross-rods; swinging arms pivoted to the heads and extending between said series of rods 12, said arms being curved inwardly, and rods connecting said arms.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES GARVER.

Witnesses:

WILMER LEONARD,
JOSEPH L. TANCEY.