No. 773,761. PATENTED NOV. 1, 1904.

C. C. MEYER.

WASHING MACHINE.

APPLICATION FILED MAR. 16, 1903.

NO MODEL.

Fig. 1.

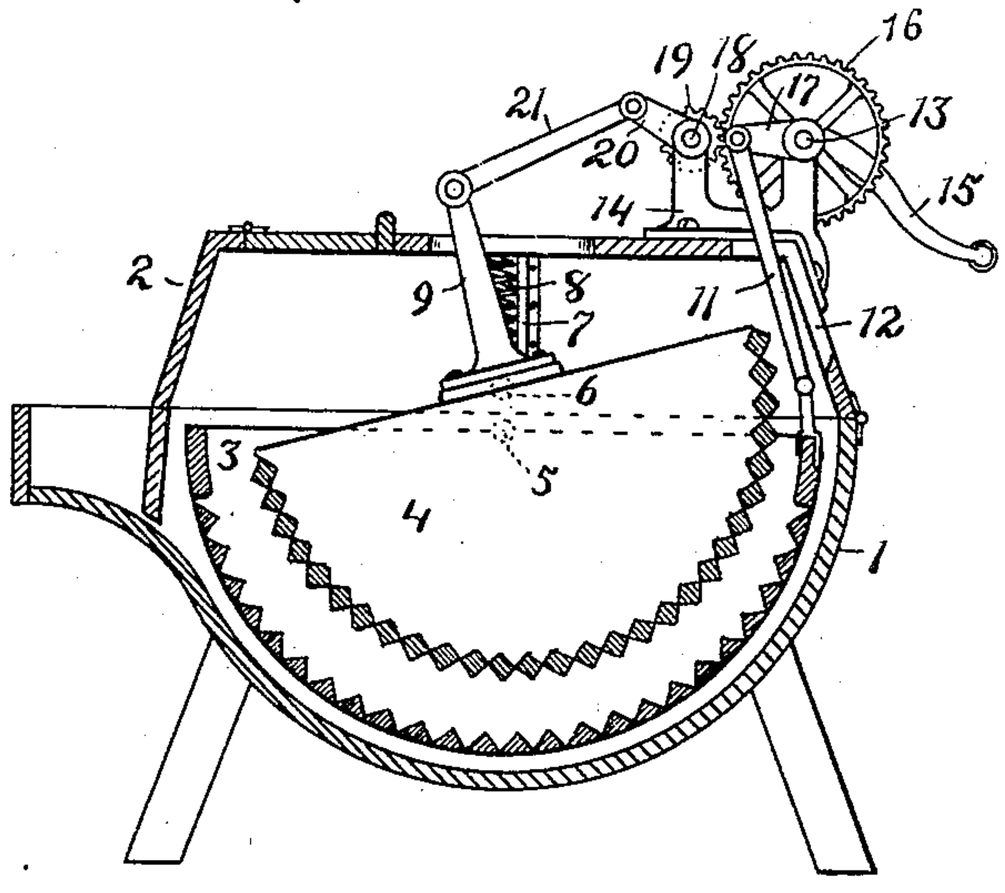


Fig. 2.

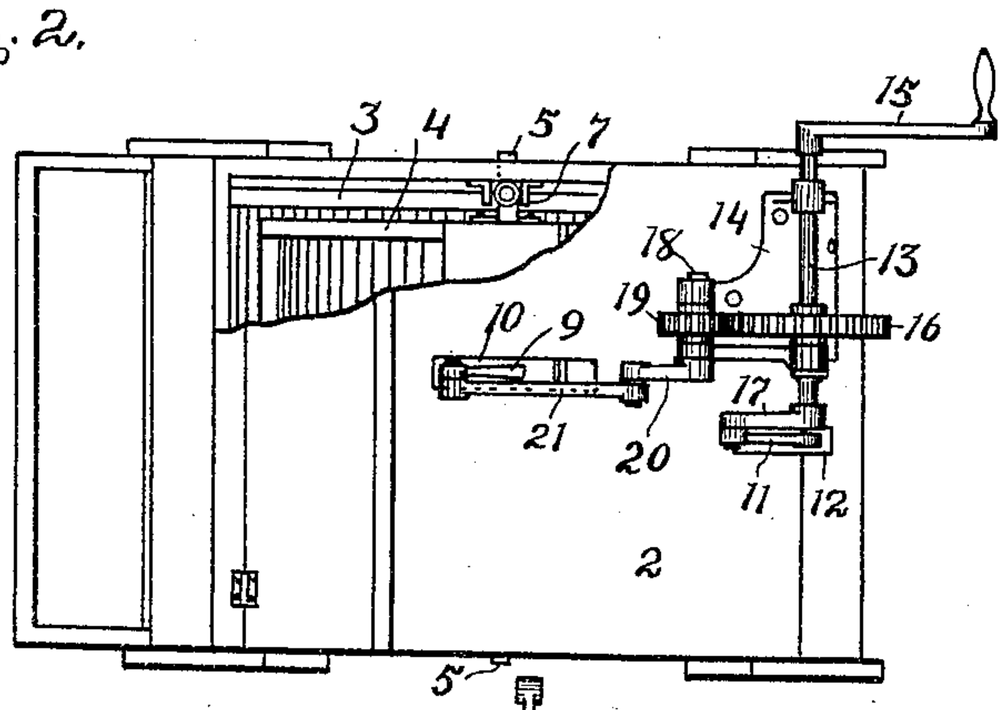
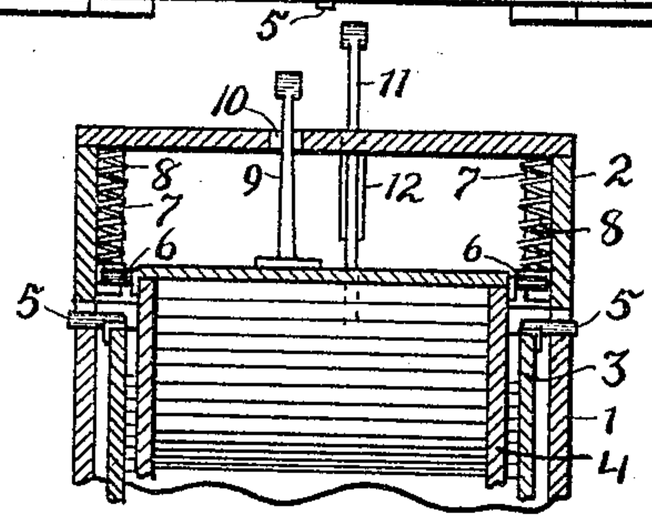


Fig. 3.



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No. 773,761. Patented November 1, 1904.

UNITED STATES PATENT OFFICE.

CHARLES C. MEYER, OF FORT WAYNE, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 773,761, dated November 1, 1904.

Application filed March 16, 1903. Serial No. 147,938. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. MEYER, a citizen of the United States, residing at Fort Wayne, in the county of Allen and 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.

This invention relates to improvements in washing-machines; and the object thereof is to effect a rapid rubbing motion, which will not cause balling of the clothes.

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

Figure 1 is a vertical central section of my washing-machine. Fig. 2 is a plan showing the top partly cut away, and Fig. 3 is a transverse section.

Similar numerals of reference indicate corresponding parts throughout the several views, and referring now to the same 1 is a suds vessel, and 2 is a cover therefor. In the suds vessel is pivotally mounted a clothes-carrier 3, the trunnions 5 of which extend, respectively, through the diametrically opposite walls of said vessel, and thereby support said carrier. The rubber 4 is supported by its trunnions 6, which extend into the ways 7. Tension-springs 8 range in said ways and rest against the trunnions 6 and tend to hold same in lowermost position. An arm 9 is fixed to the rubber 4 and extends through a slot 10 in the cover 2. Another arm 11 is pivoted to the carrier 3 and extends through a slot 12 in said cover.

The driving mechanism consists of a driving-shaft 13, mounted in a frame-casting 14 and having in connection therewith a hand-crank 15, a gear-wheel 16, and a crank 17, and a counter-shaft 18, mounted in said frame-casting and having in connection therewith the pinion 19 and the crank 20, the pinion being engaged with and driven by the gear-wheel 16. The crank 17 is connected with the arm 11, and the crank 20 is coupled, by means of a connecting-rod 21, to the arm 9. The respective diameters of the pinion and gear-wheel are such that their comparative speeds will be approximately as three is to one.

It is obvious that when the hand-crank 15 is operated the carrier and rubber will be swung to and fro upon their trunnions and that the latter will be swung with greater frequency than the former. The effect of the motion of the carrier and rubber is that the former carries the clothes slowly forward and backward, while the latter sets up a vigorous backward-and-forward rubbing motion.

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 cover thereon; a frame-casting mounted upon said cover; a driving-shaft mounted in said frame-casting; a counter-shaft mounted in said frame-casting; gears meshing with one another mounted respectively upon said driving-shaft and counter-shaft, the gear on said driving-shaft being of greater diameter than that of the gear upon said counter-shaft; a clothes-carrier pivotedly mounted in said vessel; a rubber ranging in said carrier and pivotedly mounted in said cover and being carried thereby; a crank connection between said driving-shaft and clothes-carrier; a rigid frame secured to said rubber and extending through the top of said cover; and a crank connection between said arm and counter-shaft.

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

CHARLES C. MEYER.

Witnesses:
WALTER G. BURNS,
M. J. BLITZ.