

C. JACKSON.
 WASHING MACHINE.
 APPLICATION FILED JAN. 18, 1909.

927,727.

Patented July 13, 1909.

FIG. 1.

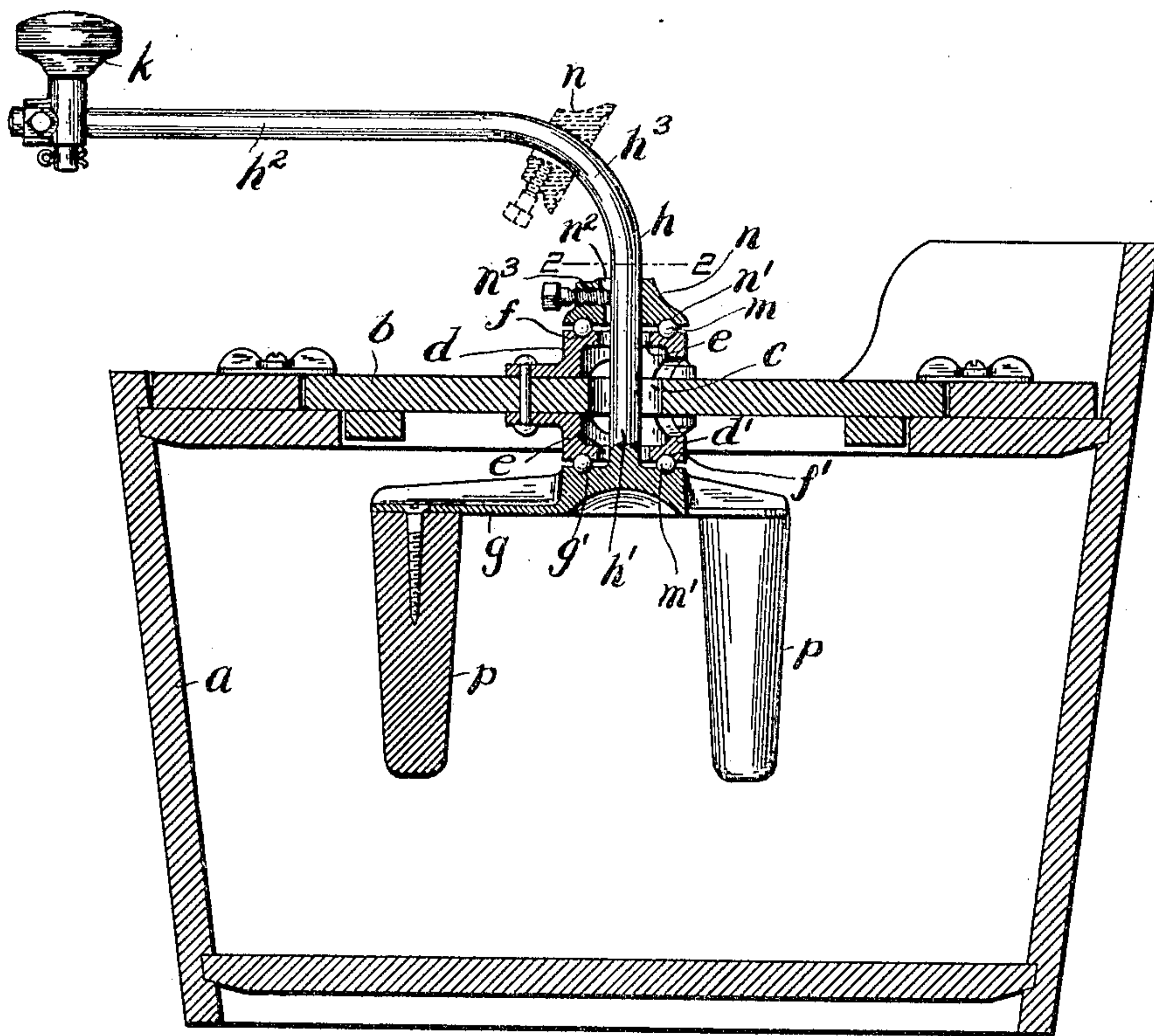
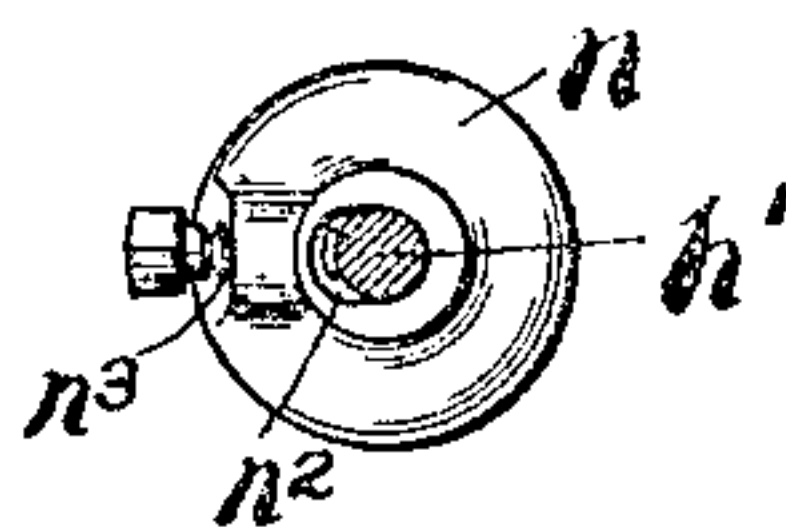


FIG. 2.



Calvin Jackson,

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Witnesses

D. M. Stewart
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By

[Signature]

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UNITED STATES PATENT OFFICE.

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WASHING-MACHINE.

No. 927,727.

Specification of Letters Patent.

Patented July 13, 1909.

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To all whom it may concern:

Be it known that I, CALVIN JACKSON, a citizen of the United States, and a resident of the city of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to washing machines having a rotary agitator, and my object is to provide a simple construction employing a one-piece rotary agitator-frame with curved-rod crank shaft having a vertical shaft portion which is readily and satisfactorily mounted in the lid of the tub and a horizontal portion serving as a permanently secured crank handle for the agitator.

The invention is fully described in connection with the accompanying drawing and is specifically pointed out in the claim.

Figure 1 is a sectional elevation of a washing machine embodying my improvements. Fig. 2 is a plan view of the removable bearing collar showing the inclosed shaft in section on the line 2—2 of Fig. 1.

The tub *a* and lid *b* are of ordinary construction. The latter is provided with an enlarged agitator-shaft aperture *c*, and with upper and lower shaft-bearing rings *d d'* secured thereto; said rings being also provided with enlarged shaft apertures *e* and with reversely arranged ball-race grooves *f f'*.

The agitator frame *g* has a crank-shaft *h* fixed thereto to form a one-piece device; said shaft consisting of a curved rod of round cross-section, having a straight vertical portion *h'* extending upward from the ball-race hub *g'* of the agitator frame through and above said bearing rings, and a horizontal handle portion *h²* with curved connecting portion *h³*. A handle *h* is removably secured to the portion *h²*.

In mounting the one-piece agitator frame

and crank shaft, in the lid *b*, the curved-rod shaft is readily passed through the enlarged apertures of the lid and bearing rings, so that the lid rests upon anti-friction balls *m'* placed in the race-ways of the agitator hub *g'* and lower ring *d'*. To carry the agitator I employ a bearing-collar *n* having a race-way *n'* and an aperture *n²* the main portion of which is concentric with the race-way *n'* but which is made oblong, in the direction of a set-screw opening *n³*, so as to enable the collar to be freely strung upon the shaft by passing it over the horizontal and curved portions *h² h³* to the vertical portion *h'*, where it is adjustably fixed by means of the set screw, upon the interposed anti-friction balls *m*.

In my improved construction the one-piece frame and crank shaft prevents any possible loosening or disengagement such as ordinarily involves considerable trouble; and in connection with the attached agitator pegs *p* is readily stored in the tub *c* when disassembled by removing the bearing collar *n* and anti-friction balls.

What I claim is:

In a washing machine the combination with a lid having upper and lower shaft-bearing rings fixed thereto and enlarged shaft apertures therein, of a one-piece rotary agitator-frame with curved-rod crank-shaft, a vertical portion of said shaft extending through and above said shaft-bearing rings; and a bearing collar with oblong opening therein strung upon said curved-rod crank-shaft and centrally secured thereto above the upper shaft-bearing ring, substantially as set forth.

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

CALVIN JACKSON.

Witnesses:

D. M. STEWART,
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