

P. WHYTE & H. GESCHWINDNER.

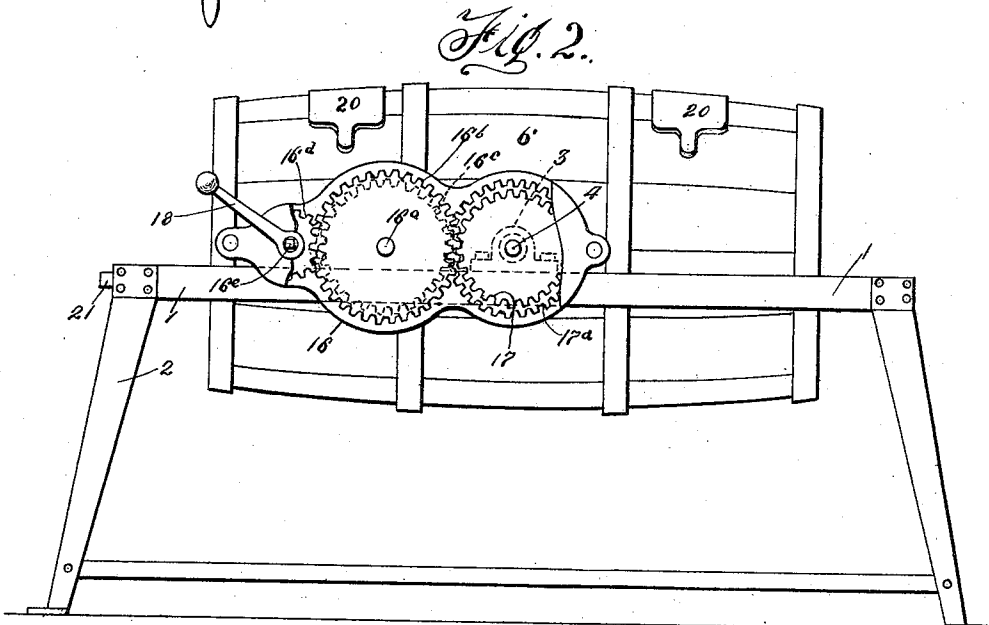
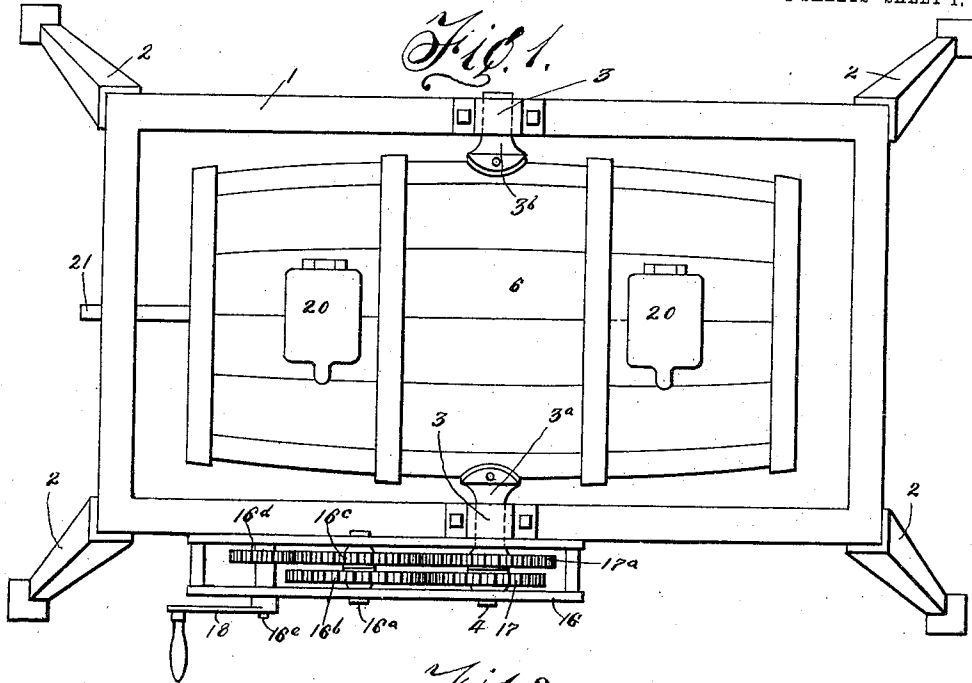
WASHING MACHINE.

APPLICATION FILED DEC. 26, 1908.

914,213.

Patented Mar. 2, 1909.

2 SHEETS—SHEET 1.



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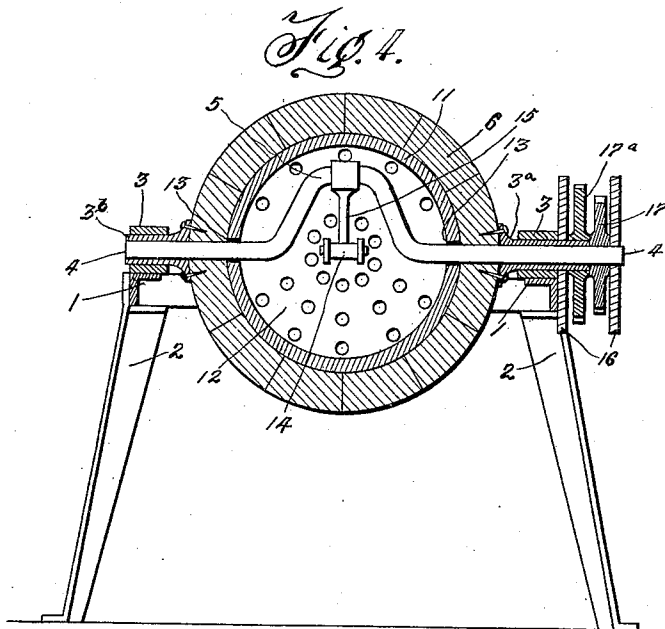
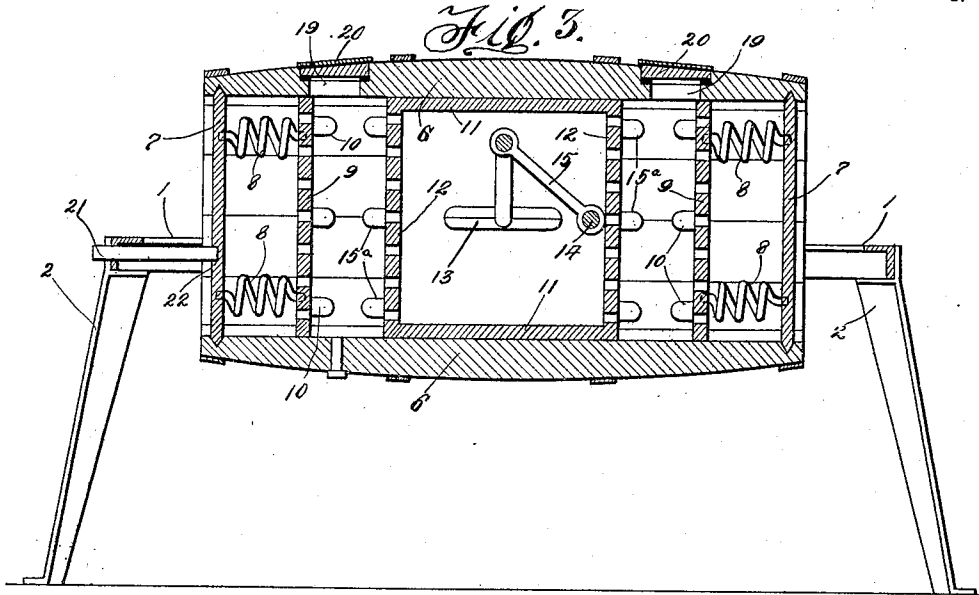
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UNITED STATES PATENT OFFICE.

PETER WHYTE AND HENRY GESCHWINDNER, OF PITTSBURG, PENNSYLVANIA.

WASHING-MACHINE.

No. 914,213.

Specification of Letters Patent.

Patented March 2, 1909.

Application filed December 26, 1908. Serial No. 469,257.

To all whom it may concern:

Be it known that we, PETER WHYTE and HENRY GESCHWINDNER, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to washing machines particularly designed for domestic use and the object thereof is to provide a washing machine with means in a manner as hereinafter set forth whereby a positively reliable mechanism is set up for agitating and cleaning clothes within a revoluble tub or housing.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings, wherein the preferred embodiments of the invention are shown, and it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

Referring to the drawings: Figure 1 is a plan of a washing machine in accordance with this invention, Fig. 2 is a side elevation of the same, Fig. 3 is a longitudinal sectional view, and Fig. 4 is a cross sectional view.

Referring to the drawings in detail, 1 denotes a rectangular frame mounted upon supports 2 and upon the frame 1 is arranged oppositely disposed bearings 3 in which is mounted a drive shaft 4 provided with a crank 5 intermediate its ends. Upon the shaft 4 and inclosing the crank 5 is a cylindrical tub or housing 6 having its ends closed through the medium of the heads 7 and connected to each of the heads 7 and arranged within the tub or housing 6 are a pair of coil springs 8. Each pair of coil springs 8 is also connected to a perforated agitated disk 9 which is positioned within the tub or housing 6 and is formed with a plurality of pegs or agitators 10 which project towards the shaft 4. Arranged within the tub or housing 6 and interposed between the agitator disk 9 is a reciprocatory cylinder 11 formed with perforated ends 12 and also with slotted sides 13. The slots in the sides 13 are provided for the purpose of clearing the revoluble shaft 4. Each perforated end 12 of the cylinder has projecting therefrom a plurality of pegs or

agitators 15^a which extend towards the pegs or agitators 10. The inner face of one of the perforated ends 12 of the cylinder 11 is provided with a lug 14 which is attached to one end of a pitman 15. The other end of the pitman is connected to the crank 5 on the shaft 4.

Upon one side of the frame 1 is supported a casing 16 in which is arranged a train of gears through the medium of which the shaft 4 and the tub 6 are revolved. To accomplish such function, sleeves 3^a and 3^b are mounted in the bearings 3, these sleeves being secured at their inner ends to the tub 6 and are rotatably mounted in the bearings 3, the shaft 4 being revoluble in the sleeves 3^a and 3^b. The train of gears comprises the gears 17, 17^a, 16^b, 16^c and a pinion 16^d. To the shaft 16^c is attached a crank 18. The gear 17^a is mounted upon the sleeve 3^a and is of a larger diameter than the gear 17, which is mounted upon the crank shaft 4. The gears 16^c and 16^b are mounted upon the shaft 16^a and the gear 16^c which meshes with the gear 17^a is of smaller diameter than the gear 16^b which meshes with the gear 17. The pinion 16^d mounted upon the shaft 16^c meshes with the gear 16^c. The tub or housing 6 is provided with openings 19 to permit of the clothes being placed therein between the perforated end of the cylinder 11 and the perforated agitator disk 9. The openings 19 are closed by suitable leaves or covers 20.

To hold the tub or housing in a horizontal position while clothes or water are being placed therein preparatory to operating the machine, one end of the frame 1 is provided with a slidable pin 21 adapted to engage in a recess 22 formed in one of the heads 7 and which will prevent the tub or housing from rocking upon the shaft 4.

In operation, the turning of the crank 18 will cause the train of gears to revolve the tub and at the same time rotate the shaft 4 and through the connection of the crank 5 with the cylinder 11, reciprocate the latter in the tub as the latter is being revolved. When the cylinder is reciprocated in the manner as stated, the water and air within the tub or housing will be forced from one end of the tub to the other thereof commingling with the clothes and thoroughly agitating the same.

We would have it understood that in lieu of the cranks, eccentrics or suitable operating mechanism can be employed for revolving

the tub and the shaft 4 independently of one another.

Having now described our invention what we claim as new, is:—

- 5 1. In a washing machine, the combination with a metallic frame, of a crank shaft revolv-
ably mounted thereon, a train of gears lo-
cated upon said frame for imparting a ro-
tary movement to said shaft, a tub or hous-
10 ing loosely mounted upon said shaft, per-
forated disks resiliently mounted in the ends
of said tub, pegs carried by said disks, a per-
forated cylinder arranged in said tub and
connecting with said cranked shaft, said tub
15 having openings formed therein, lids nor-
mally closing said openings, and means ar-
ranged at one end of said frame for holding
said tub in a stationary horizontal position.
2. In a washing machine, the combination
20 with a metallic frame, of a crank shaft revolv-
ably mounted thereon, a train of gears lo-
cated upon said frame for imparting a rotary
movement to said shaft, a tub or housing
loosely mounted upon said shaft, perforated
25 disks resiliently mounted in the ends of said

tub, pegs carried by said disks, a perforated
cylinder arranged in said tub and connecting
with said cranked shaft, said tub having
openings formed therein, and lids normally
closing said openings. 30

3. In a washing machine, the combination
with a metallic frame, of a crank shaft revolv-
ably mounted thereon, means located ad-
jacent to said frame for imparting a rotary
movement to said shaft, a tub or housing 35
loosely mounted upon said shaft, perforated
disks resiliently mounted in the ends of said
tub, pegs carried by said disks, a perforated
cylinder arranged in said tub and connecting
with said cranked shaft, said tub having 40
openings formed therein, and lids normally
closing said openings.

In testimony whereof we affix our signa-
tures in the presence of two witnesses.

PETER WHYTE.

HENRY GESCHWINDNER.

Witnesses:

MAX H. SROLOVITZ,

A. J. TRIGG.