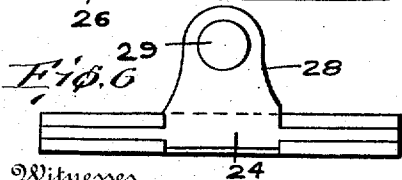
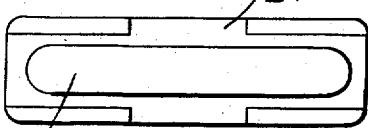
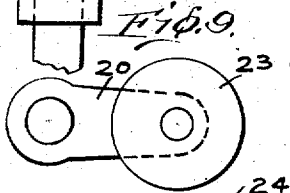
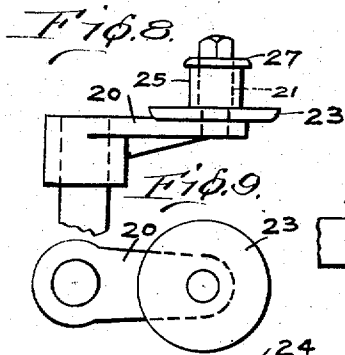
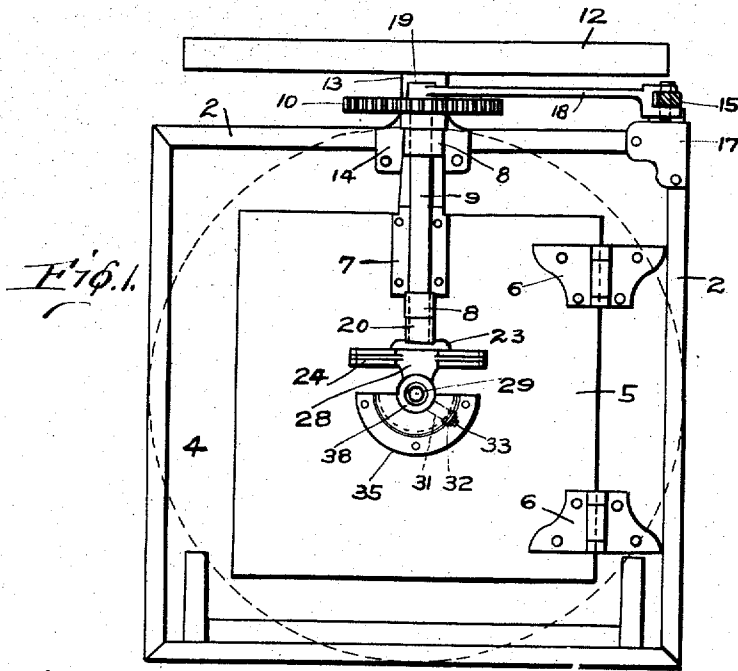


W. H. WYMAN.
WASHING MACHINE.
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957,024.

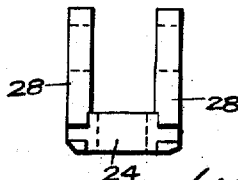
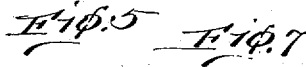
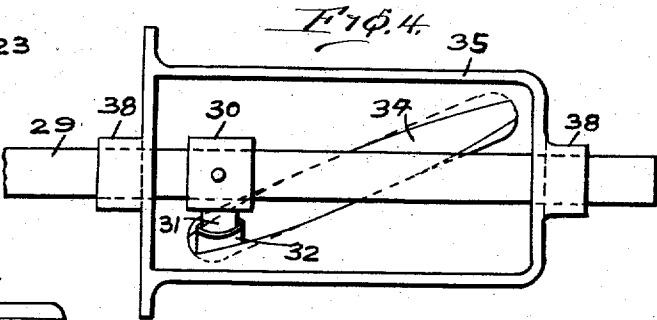
Patented May 3, 1910.

3 SHEETS—SHEET 1.



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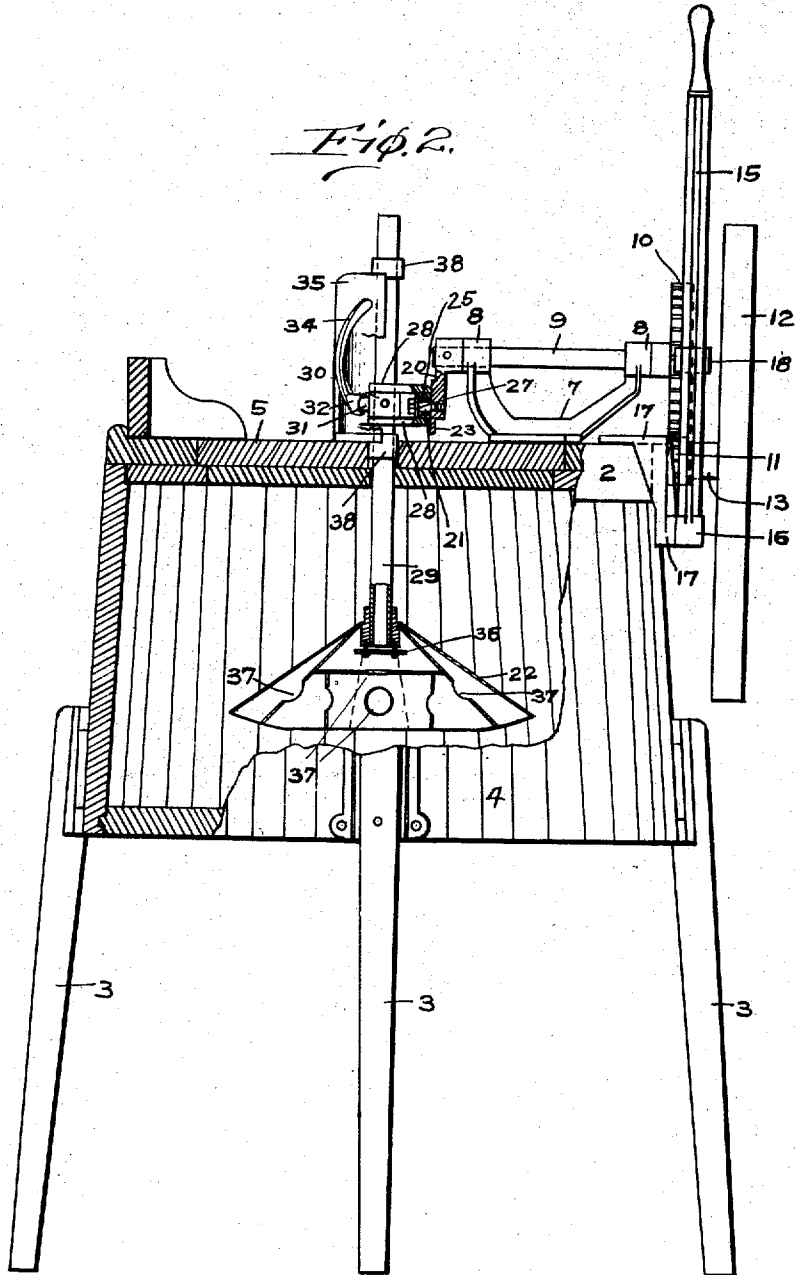
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3 SHEETS—SHEET 2.

Fig. 2.



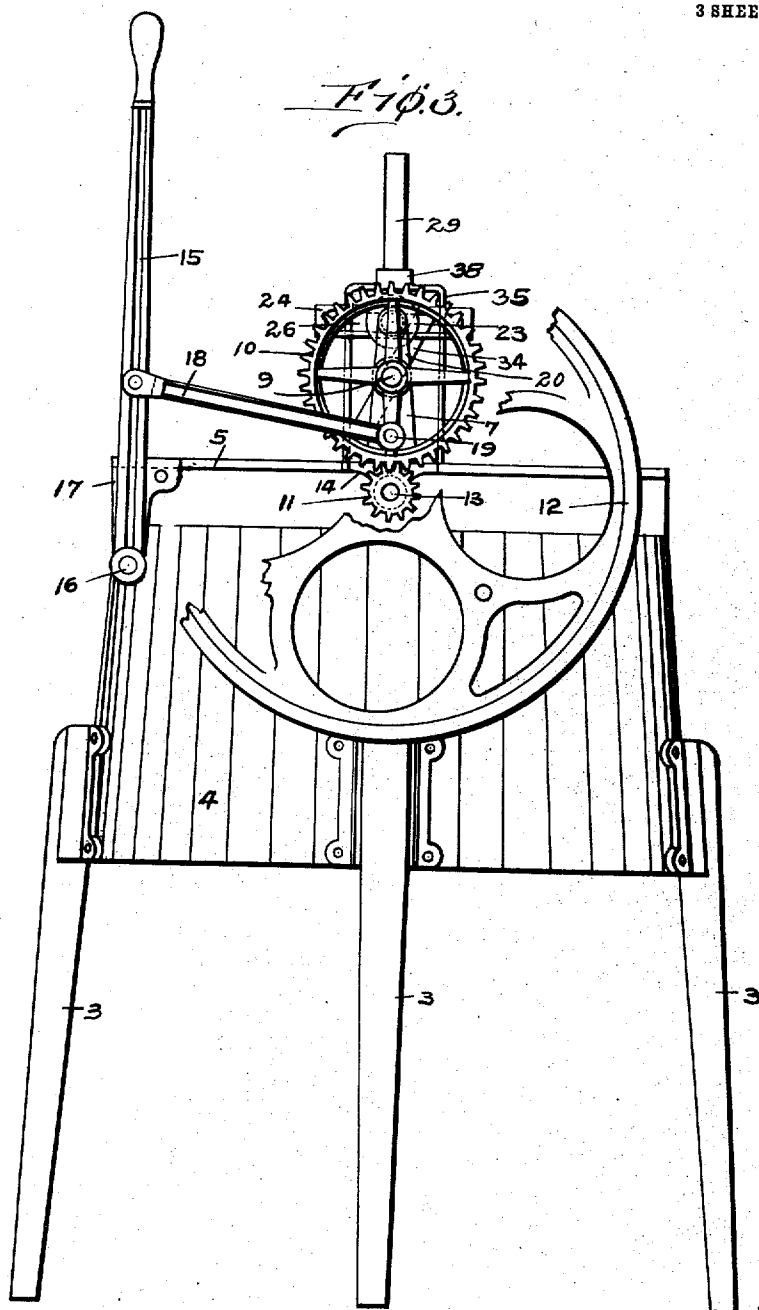
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

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WASHING-MACHINE.

957,024.

Specification of Letters Patent.

Patented May 3, 1910.

Application filed September 17, 1909. Serial No. 518,197.

To all whom it may concern:

Be it known that I, WILLIAM H. WYMAN, citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to improvements in washing machines and one of the objects of my invention is to provide a simple and durable machine, easy of operation and with a minimum of parts.

A further object of my invention is to provide means for operating a perpendicularly arranged dasher with a spiral movement.

The primary object of my invention is to simplify the construction and operations of washing machines of this class.

In the accompanying drawing Figure 1 represents a plan view of my invention. Fig. 2 represents a side view with a portion of the tub cut away showing the parts in section. Fig. 3 represents an end view with a portion of the balance wheel cut away. Fig. 4 is a detail view showing the standard and dasher shaft guide. Figs. 5, 6, 7, are detail views of the yoke. Figs. 8 and 9 are detail views of the crank which operates the yoke.

Referring to the drawing by numerals 2 represents the frame.

4 represents the tub supported by legs 3, 3, 3, etc.

5 represents a cover of double construction which is hinged at 6, 6 to the top frame.

7 represents a bracket attached to the cover 5 and provided with two bearings 8, 8. The operating shaft 9 is journaled in the bearings 8, 8.

10 represents the main gear-wheel carried by the shaft 9 and which engages the pinion 11. The pinion 11 is constructed integral with the balance-wheel 12 and revolves with the balance-wheel upon the bearing-stem 13 which is supported rigidly by the bracket 14 attached to the frame 2.

15 represents the power lever pivoted at 16 to the bracket 17 which is attached to the frame 2. The power lever is connected by means of the pitman 18 with the gear-wheel 10 at 19. The operation of the lever 15 revolves the gear-wheel 10.

The function of the pinion 11 and the

balance-wheel 12 is only to regulate the speed and secure an even motion. The balance-wheel also affords momentum and may be used as a band-wheel in applying mechanical power either by water power or electric power. In the application of mechanical power, the use of the lever 15, the pitman 18, and the bracket 17 will not be necessary and they should be detached. The revolution of the shaft 9 operates the crank 20. The crank 20 operates to raise and lower the dasher with a spiral turn approximating 90 degrees. This result is accomplished through the mechanism shown. The mechanism supporting the dasher is attached to the cover 5.

23 represents a flange integral with the crank arm 20 and is provided for the purpose of securing a long bearing against the yoke 24.

The crank pin 21 is provided with a roller 25 which travels interiorly within the yoke 24 along the slot 26. The crank-pin 21 is provided with a flange 27 which rides the edges of the yoke opposite to the flange 23 to secure the yoke in proper alinement. The yoke 24 is provided with two lugs 28, 28 which are journaled to the tubular dasher shaft 29.

30 represents an annular attachment rigidly fixed to the tubular dasher shaft 29, having a lug 31 which carries a roller 32.

35 represents a semi-circular standard bolted to the cover 5, having upper and lower bearings 38, 38 through which the tubular dasher shaft 29 travels. The standard 35 is provided with a spiral slot 34 in which the roller 32 is permitted to travel freely.

The revolution of the crank arm 20 raises and lowers the yoke 24. The yoke-lugs 28, 28, extending above and below the annular attachment 30 carry it upwardly and downwardly at each revolution of the crank 20 and permit it to revolve between the lugs at the same time. The annular attachment 30 carries the tubular dasher shaft and by reason of the roller 32 operating within the spiral slot 34 causes the dasher shaft to rotate as it ascends and descends. The dasher 22 is secured to the lower end of the tubular shaft 29. In the operation of the machine the dasher is raised and lowered and rotated by reason of the spiral mechanism. A valve 36 is provided at the lower end of the tubu-

lar shaft 29 arranged to open upon the upward motion permitting a suction of air through the open top of the shaft and to close upon the downward motion by force of the air through the openings 37, 37, 37 etc.

When the hinged cover 5 is raised the pinion 11 is thrown out of engagement with the main gear-wheel 10.

Having thus described my invention what I claim is:

1. In a washing machine, a tub, a dasher arranged in said tub, a vertical shaft secured to said dasher and extending through the top of said tub, a guiding member for guiding said vertical shaft in its movement, said guiding member being formed with an arc-shaped guide-way, a roller connected with said vertical shaft and engaging said guide-way, a yoke connected with said vertical shaft, a crank connected with said yoke, a shaft connected with said crank, and means connected with said last mentioned shaft for rotating the same, whereby power is conveyed to said yoke for raising vertically said vertically positioned shaft, which movement will cause said roller in said

guide-way to be moved for partially rotating said vertically mounted shaft at the same time that the same is raised.

2. A washing machine comprising in its construction power applying mechanism attached to the frame and mechanism for operating the dasher, consisting of a power shaft supported by the cover, a crank carried by the power shaft, a yoke adapted to ride the crank pin, forks integral with the yoke, a tubular dasher shaft carried by the forks of the yoke, an annular attachment to the dasher shaft interposed between the forks of the yoke, a lug integral with said annular attachment carrying a roller, a semi-circular standard attached to the cover and provided with a spiral slot in which said roller is permitted to travel, and a dasher attached to the base of the tubular dasher shaft, substantially as shown.

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

WILLIAM H. WYMAN

Witnesses:

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A. R. WATERHOUSE.