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W. J. DELMAGE.
WASHING MACHINE.
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Patented Jan. 4, 1910.

2 SHEETS—SHEET 1.

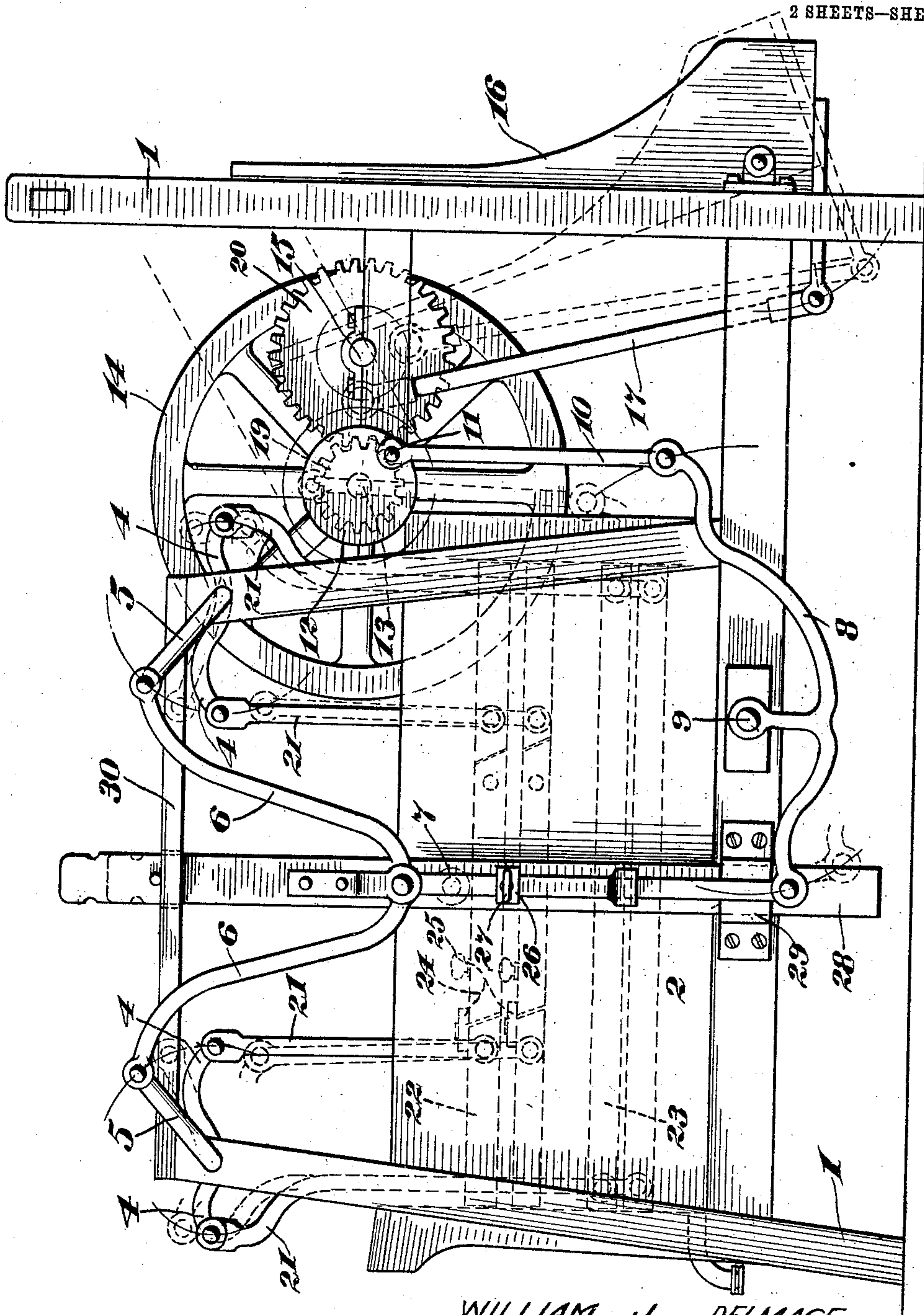


Fig. 1

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UNITED STATES PATENT OFFICE.

WILLIAM JULIUS DELMAGE, OF CAMDEN EAST, ONTARIO, CANADA.

WASHING-MACHINE.

945,021.

Specification of Letters Patent.

Patented Jan. 4, 1910.

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To all whom it may concern:

Be it known that I, WILLIAM J. DELMAGE, a subject of the King of Great Britain, residing at Camden East, counties of Lennox and Addington, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Washing - Machines; and I do hereby declare that the following is 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.

The invention to be hereinafter described relates to washing machines, and more particularly to the mechanism for operating the same.

Broadly speaking, it comprises a framework for supporting the several operating parts, coöperating reciprocable plunger frames mounted in the framework, rock shafts for reciprocating the plungers, crank mechanism for operating the rock shafts, gearing for operating the crank mechanism, and means for operating the gearing.

In order to more clearly disclose the construction, operation and use of the invention, reference should be had to the accompanying drawings forming part of the present application.

Throughout the several figures of the drawings, like reference characters designate the same parts.

In the drawings: Figure 1 is a side elevation of the invention; and, Fig. 2 is a plan view of the same.

Referring to the drawings in detail, 1 indicates a frame adapted to support the several working parts of the machine and the tank 2. In the opposite ends of the upper part of the frame are journaled rock shafts 3, provided with pairs of oppositely directed rock arms 4 and operating cranks 5. The cranks 5 are connected to a yoke 6, which, in turn, is connected to a rod 7 pivotally connected to one end of a lever 8 fulcrumed at 9 to the framework 1, and operated by a pitman 10 connected to a wrist pin 11 on the disk 12 secured to the shaft 13 provided with a fly wheel 14. In order to start the shaft 13, a crank and treadle mechanism has been provided, comprising a crank shaft 15, a treadle 16 pivotally mounted in the framework 1, a link 17 connecting the treadle and the crank 18 of the crank shaft 13, and intermeshing gears 19 and 20 on the shafts 13 and 15, respectively.

To the ends of the rock arms 4 are pivotally connected links 21, from which are suspended slatted plungers 22 and 23, the plunger 22 being provided with a hinge door section 24 and turn button 25 for holding the door section in closed position. In operation, articles to be washed will be passed through the opening of the door 24, the door will be closed, and the turn buttons turned to holding position.

The rod 7 is made of two sections telescopically connected and adapted to be held in adjusted position by means of the collar 26 and clamping screw 27. The upper end of the rod 7 is rigidly secured to the reciprocable bar 28 mounted to have sliding movement through the keeper 29, and an opening through the top bar 30.

The operation of the invention is as follows: The turn buttons 25 will be rotated to release the door section 24 of the plunger 22. The door will then be raised, and the articles to be washed will be passed there-through and drop upon the top of the lower plunger 23. The door will then be closed and the turn buttons rotated to holding position. The treadle 16 will then be operated, causing rotation of the gears 20 and 19. As the gear 19 rotates, it will drive the shaft 13 which will rotate the disk 12, causing reciprocation of the pitman 10. The reciprocation of the pitman 10 will cause rocking of the lever 8, which will reciprocate the bar 28, the rod 7 and yoke 6. As the yoke 6 reciprocates, the arms 5 cause rocking of the shafts 3. As the shafts 3 rock, the links 21 connected to the oppositely directed arms 4 will be reciprocated in opposite directions and the slatted plungers will be moved alternately toward and from each other.

Changes may be made in the construction, arrangement and disposition of the several parts of the invention, without in any way departing from the field and scope of the same, and it is meant to include all such within this application, wherein only a preferred form has been disclosed.

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

1. A machine of the character described, comprising a framework, rock shafts journaled therein and provided with oppositely extending rock arms, plunger frames suspended from said rock arms, operating

cranks extending from said rock shafts, a yoke slidably mounted on the aforesaid frame, connections between said yoke and said operating cranks, and means for moving said yoke.

5 2. A machine of the character described, comprising a framework, rock shafts journaled therein and provided with oppositely extending rock arms, plunger frames suspended from said rock arms, operating cranks extending from said rock shafts, a yoke slidably mounted on the aforesaid frame, connections between said yoke and said operating cranks, a lever pivotally mounted on said frame, connections between said lever and said yoke, and means for operating said lever.

15 3. A machine of the character described,

comprising a framework, rock shafts journaled therein and provided with oppositely 20 extending rock arms, plunger frames suspended from said rock arms, operating cranks extending from said rock shafts, a yoke slidably mounted on the aforesaid frame, connections between said yoke and 25 said operating cranks, a lever pivotally mounted on said frame, connections between said lever and said yoke, and treadle operated means for operating said lever.

In witness whereof I have hereunto set my 30 hand in the presence of two witnesses.

WILLIAM JULIUS DELMAGE.

Witnesses:

JANE E. HAUS,

W. A. GRANGE.