

I. YASSENOFF.  
MOTOR MOUNTING FOR WASHING MACHINES.  
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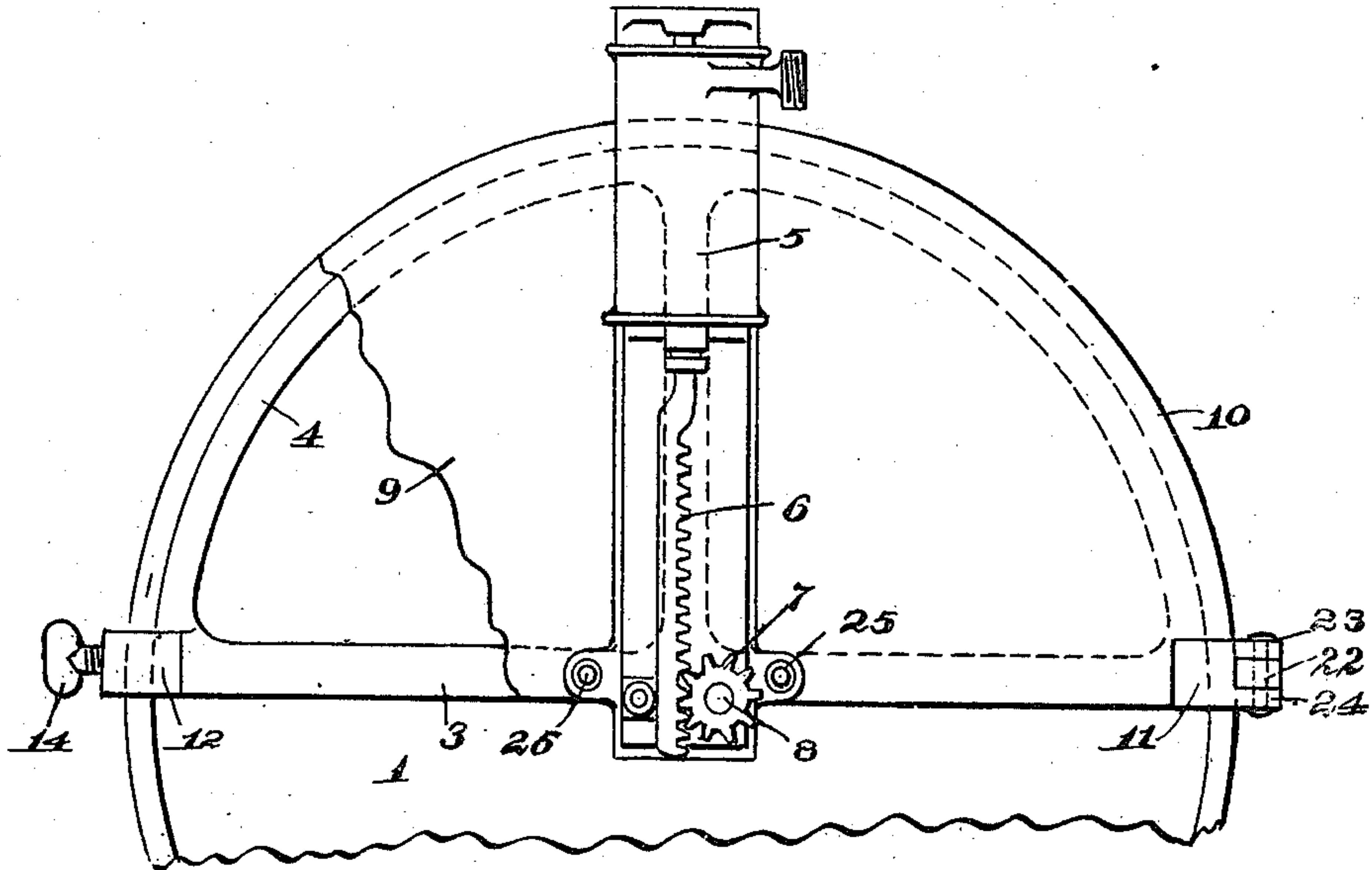


Fig. 1

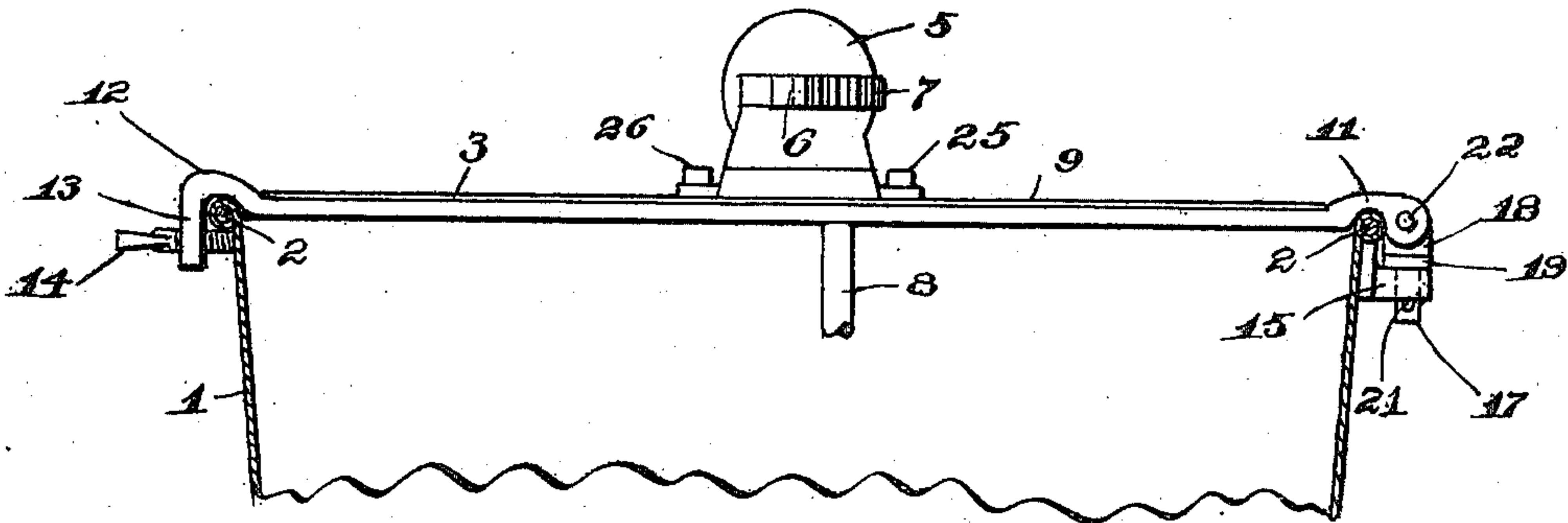


Fig. 2

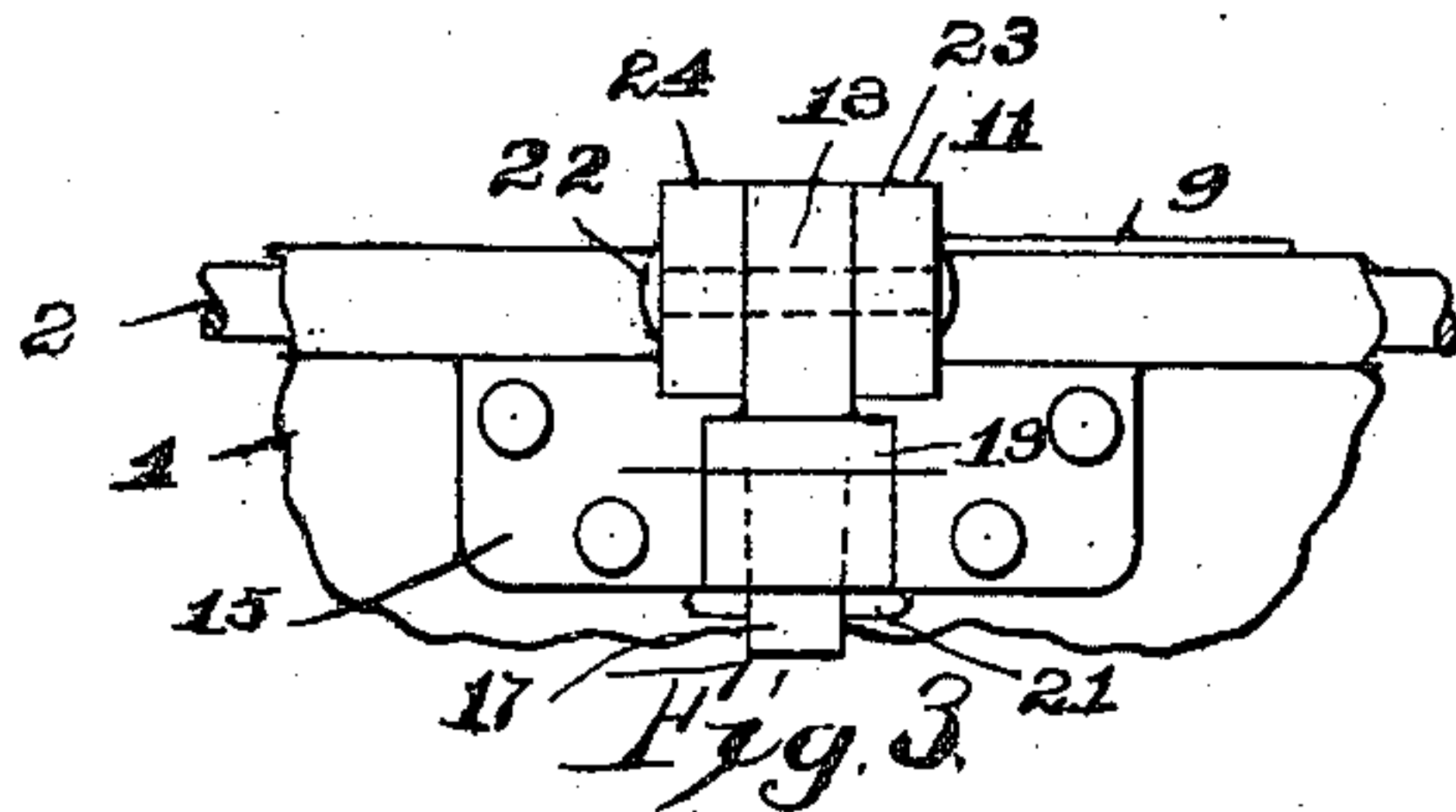


Fig. 3

Witnesses:

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# UNITED STATES PATENT OFFICE.

ISIDOR YASSENOFF, OF COLUMBUS, OHIO, ASSIGNOR TO THE SWASH MOTOR WASHER COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF OHIO.

## MOTOR-MOUNTING FOR WASHING-MACHINES.

975,919.

Specification of Letters Patent.

Patented Nov. 15, 1910.

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*To all whom it may concern:*

Be it known that I, ISIDOR YASSENOFF, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Motor-Mountings for Washing-Machines, of which the following is a specification.

My invention relates to improvements in motor mounting for washing machines, and includes especially a hinged removable member adapted to be placed upon the tub, and the motor for oscillating the dasher or agitator is mounted conveniently thereon.

Since reciprocating motors have come into use for washing machine constructions, a convenient removable means for mounting the motor in such manner as not to interfere with the handling of the clothing in placing the same into and taking the same out of the tub or machine, has been greatly desired. I have devised a simple and easily constructed mounting which is adapted to contain the motor and to be readily swung into and out of position on the machine or tub. A hinge is provided at one point which operates in a swivel fashion, and at the opposite side of the tub a lock is provided which will maintain the cover or mounting in the desired position while the motor is in use. When the motor is stopped and it is desired to take clothing out of the machine or put clothing into the machine, the mounting may readily be unlocked and swung aside for this purpose.

The specific details will appear hereinafter, and in the drawings accompanying this description, Figure 1 is a top plan view of the mounting with the motor conventionally shown thereon in place, the mounting being in proper position for the operation of the motor; Fig. 2 is an edge view of the mounting showing the means of securing the same; Fig. 3 is a detail of the swivel joint.

Referring to the drawings, 1 is a washing machine tub or receptacle of the usual pattern, provided with the reinforcing ring 2 at its upper edge; 3 is the transverse frame piece of the mounting, to which is connected either by casting or securing the same in some other manner, the semi-circular frame piece 4 which is adapted to lie inside of the upper edge of the tub and engage the same, thereby bracing the inner face of the tub throughout and strengthening and support-

ing the same against any jarring due to the operation of the motor, which is shown conventionally at 5, the reciprocating rack 6 being adapted to engage the pinion 7 which is fixed on the upper end of the shaft 8, the latter having agitating means connected therewith (not shown). The frame 3, 4 is provided with the cover sheet 9, which is shown broken away in Fig. 1, to disclose the frame pieces; this cover 9 extends beyond the frame and overlies the top edge of the tub as appears clearly at 10; the cover thus overlying the upper edge of the tub and the circular frame piece 4 engaging the inner face thereof, causes the mounting to fit the tub snugly and to give the supporting or shock resisting effect above mentioned. The frame piece 3 is appropriately curved at 11 to take over the upper edge of the tub and at its opposite end is curved at 12 to take over the upper edge of the tub on that side.

The depending lip 13 is provided with an opening into which is turned the set screw 14, which when turned to its inner position as shown in Fig. 2, engages the side of the tub beneath the reinforced upper edge 2 and thereby prevents the mounting from being lifted upwardly at that side. The positioning of the set screw also tends to engage the curved portion 12 snugly and securely with the reinforced upper edge 2 of the tub. On the opposite side of the tub I place a lug 15 which is appropriately secured to the tub near its upper edge and is provided with an opening therethrough; through this opening is inserted the reduced end 17 of a swivel 18, which is provided with the shoulders 19 to rest upon the upper face of the lug 15. A pin hole is adapted to receive a cotter 21 for locking the swivel 18 against removal. This swivel 18 is free to rotate in the lug 15. The outer end of the curved portion 11 of the frame member 3 is enlarged and contains the opening 22, and is preferably bifurcated as shown at 23 and 24, and in this bifurcated portion is adapted to be received the upper end of the swivel 18, an appropriate pin being inserted through the opening 22 which passes through a registering opening in the swivel member 18. In this manner the swivel member is connected with the frame member 3 and mounted rotatably upon the lug 15. Preferably the swivel member 18 is connected with the frame piece 3 to remain



thereon when the mounting is disconnected from the tub.

5 The motor 5 is properly positioned upon the mounting and secured thereto as shown at 25 and 26, and is therefore adapted always to remain in place, and the shaft 8 carrying the dasher or agitator (not shown) is appropriately mounted on the tub to be removed as desired.

10 When the clothing and the water have been placed in the tub 1, the mounting is lifted into place thereon as appears in Fig. 1, the reduced end 17 of the swivel member 18 is inserted through the lug or member 15 and the pin placed in the hole 21 to lock the same in position; the set screw 14 is then turned to its locking position and the motor is ready for use. When the washing operation is completed, or when on any other occasion it is desired to remove the mounting temporarily, the set screw is turned loose and the cover or mounting is then lifted upwardly to disengage the frame 4 from the tub, and the cover is then swung 25 on the swivel 18, remaining secured to the tub at that point. This operation is done quickly and easily. When it is desired to move the mounting into place for the further operation of the motor, the cover may be swung back to normal position with slight effort and the set screw is again turned into proper locking position.

30 In this manner a motor mounting is provided which operates as a partial covering for the tub, is in such engagement with the tub as to brace the same against shocks due to the washing operation, is readily placed on and taken off of the tub, and is mounted with a swivel construction which permits 40 the cover or mounting to be swung aside and yet remain secured to the tub, rendering

it unnecessary to lift off the motor from the tub in the ordinary use thereof. When the cover is lifted and swung to one side sufficiently to place the frame member 4 45 on the upper edge of the tub, the remainder of the moving operation may be accomplished by sliding the same on the upper edge, without lifting; this makes it easy to remove the cover and to restore it to proper operating position, and this is found to be of great advantage, inasmuch as in most cases the washing is done by women, and consequently the demand is for appliances which can be handled without the use 55 of great strength. The mounting may also be swung in an arc on the pin 22 and thereby suspended from the tub, if desired. Movement of the cover or mounting in both horizontal and vertical planes is possible 60 with my construction.

Variations in the construction herein described may be made to accomplish the same purpose and applicant does not therefore limit himself to the specific description disclosed. 65

What I claim is:

In a washing machine a tub, a cover thereon constructed to overlie the upper edge thereof and abut against the inner face 70 thereof, a swivel connection between said cover and one side of said tub to permit said cover to swing both vertically and horizontally thereon, fastening means to secure said cover in normal position to another side of 75 said tub, and a motor mounted on said cover.

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

ISIDOR YASSENOFF.

Witnesses:

GEO. W. RIGHTMIRE,  
A. RAGER.