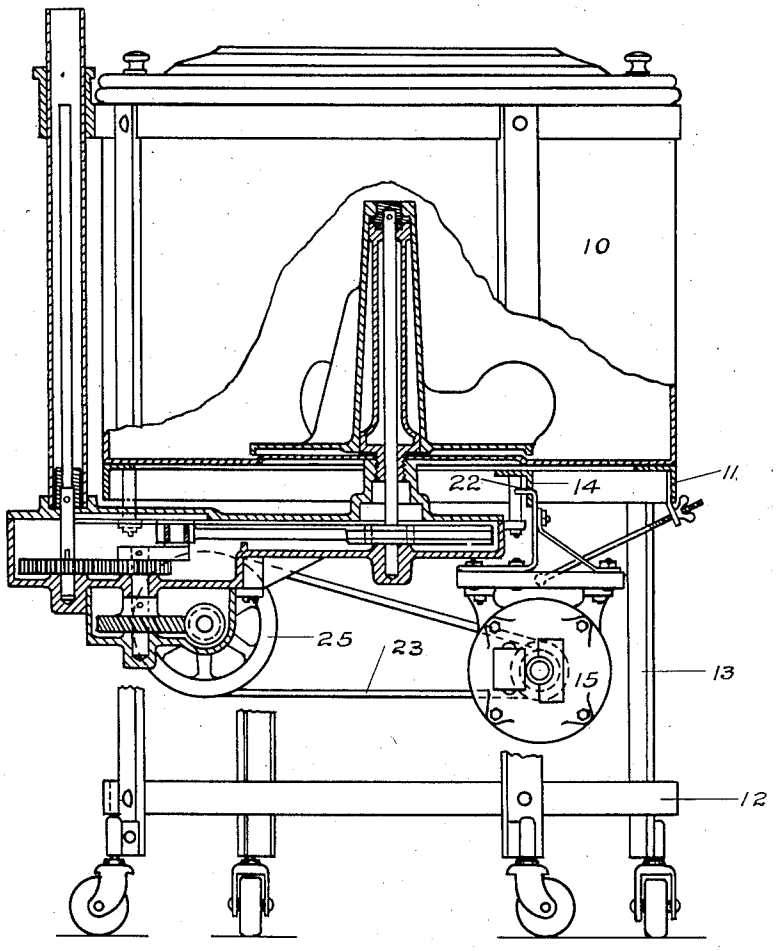
Oct. 16, 1928. 1,688,119

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MOTOR SUPPORT FOR WASHING MACHINES

Filed June 1, 1926 2 Sheets-Sheet 1

FIG. 1



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FIG. 2

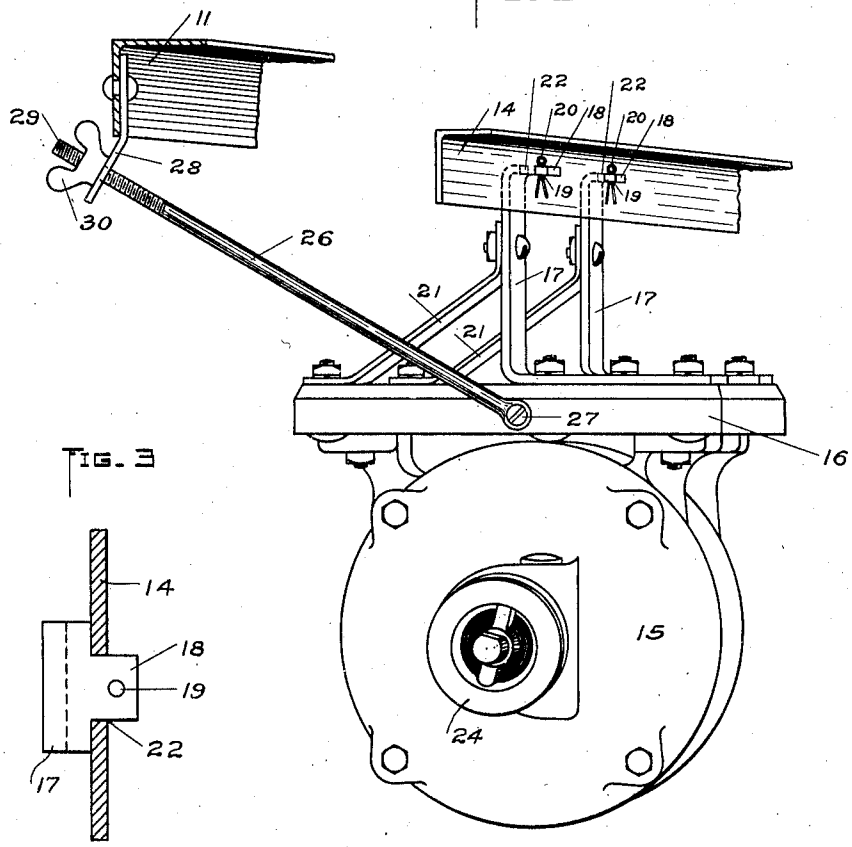


FIG. 3

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UNITED STATES PATENT OFFICE.

JOSEPH H. FEDLER, OF KANSAS CITY, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO MODERN LAUNDRY MACHINE MANUFACTURING COMPANY, A CORPORATION OF MISSOURI.

MOTOR SUPPORT FOR WASHING MACHINES.

Application filed June 1, 1926. Serial No. 113,063.

This invention relates to washing machines.

More particularly, the invention relates to means and manner of supporting a motor in a cushioned or yielding relationship to the framing of a washing machine structure, and incidentally, to means and method of rendering the motor and its connecting members which constitute an integral unit when assembled for use, susceptible of ready removal as an integrated unit.

The invention includes the provision of a motor support, suspension members therefor, adjustable positioning members and also, generally, to means for simple placement and removal from the operative relationship with washing machine parts.

Referring to the drawings—

Fig. 1 is a side elevation of a washing machine, showing among other things, a motor and means for attaching same to a washing machine framing;

Fig. 2 is a perspective view, including a diagrammatic showing of framing members and also showing a motor, its support and attaching connections of the motor support with the framing;

Fig. 3 is a detail view, partly in section, showing the manner of attaching hanger bars to a framing member.

Further referring to the drawings, 10 is a tub or container; 11 is a circular framing member; 12 is similarly a circular framing member; 13 are reach members serving as legs for the frame, and 14 is a cross framing member. 15 is a motor which, in practice, serves to effect movement of certain operating parts of a washing machine.

Referring particularly to Fig. 2, 16 is a support, to which motor 15 may be attached by the means shown, or any other suitable means, such motor and support constituting an integral unit adapted for suspension in conjunction with the washing machine framing. To the motor unit, and as shown, to motor support 16, are attached suspension bars 17 which are laterally deflected at their upper ends to form attachment fingers 18, the same being perforated, as at 19, to permit entrance of key members 20. 21 are reinforcing bars adapted to contribute to the maintenance of bars 17 in permanent vertical relationship to support 16. Framing member 14 is slotted as at 22 (see Figs. 1 and 3) to permit the entrance of finger members 18, of bar 17, for purposes of support of said motor from said cross framing member 14. Finger members 18 are held from displacement with respect to framing member 14 by means of key members 20, whereby said motor is supported in a detachable and swingable relationship in connection with the washing machine framing.

In establishing a functioning relationship of the motor to driving means for the agitator of a washing machine, a belt 23 is shown, serving as a connecting means between belt wheel members 24 and 25 respectively on the motor shaft and belt wheel connection with gear mechanism of the washing machine structure. In view of the requirement for tensioned relationship as between said belt wheel members, it is necessary to anchor the motor unit in conjunction with the washing machine framing. To that end, rod 26 is provided, having at one end a pivotal connection with the stud 27 on motor support 16 and at its other end a take-up connection with framing member 11, the latter connection including a plate member 28 fixed to frame member 11 and perforated to permit the entry of the threaded end portion 29 of rod 26, and also including a take-up nut 30. Through and by means of the connecting means shown, as between the motor unit and the frame, the former will be held under capability of tension adjustment that will serve to establish the proper driving connection between the motor and the driving element for the washing machine gear, but at the same time affords a connection non-rigid and of such relative yielding relationship with respect to the motor unit and the frame as will prevent the transmission of such excessive vibration to the washing machine framing and supported washing machine parts, as might serve to effect general deterioration of the washing machine structure, and also to minimize vibratory noises of a motor when attached to a more or less rigidly integrated washing machine organization.

Special attention is called to the detachable unit organization of the motor, and its support with respect to the washing machine framing as a unit, and to the simple means

for relating the motor unit to the framing, whereby detachment of the former may be quickly and readily effected by the simple removal of key members and a nut member, thereby contributing materially to convenience of assembly and separation, as between said motor and framing, as obviously desirable and serviceable in washing machine structures.

What I claim is:

1. In a washing machine, a frame member, means for suspending a motor from said frame, said means including a motor supporting block, a motor secured to said block, a bracket attached at one end to said block, the other end of said bracket being provided with an offset T-shaped portion, the leg of which is detachably mounted in the frame to provide a pivotal support for the block and motor unit, and means for holding said motor supporting block in various positions of angular adjustment, said holding means comprising a rod pivotally connected to the block at one end, the other end of said rod being threaded, the threaded end of said rod extending through an opening in the frame, and means on the threaded end of the rod for limiting the movement of the rod through the opening in one direction, the rod being free to move through the opening in the opposite direction.

2. In a washing machine, a frame member provided with an opening therein, means for suspending a motor from said frame, the said means including a substantially horizontal supporting block, a motor secured to the lower surface of said block, a vertically extending bracket having the upper end bent at right angles to the main body portion thereof and extending through the opening in the frame member, means for preventing the withdrawal of the end of the bracket from the opening, and means for holding said motor supporting block in various positions of angular adjustment, the said holding means including a rod pivotally connected to the block at one end, the other end of said rod being threaded, a depending member secured to the frame, and having an opening therein, the threaded end of said rod extending through said opening, and means on the end of the rod to limit the movement of the rod through the opening in one direction, the rod being free to move through the opening in the opposite direction.

In testimony whereof I have hereunto affixed my signature.

JOSEPH H. FEDLER.