H. BUDD.

MOTOR SUPPORTING PLATFORM.

APPLICATION FILED JUNE 16, 1917.

1,278,846. Patented Sept. 17, 1918.

Fig. I.

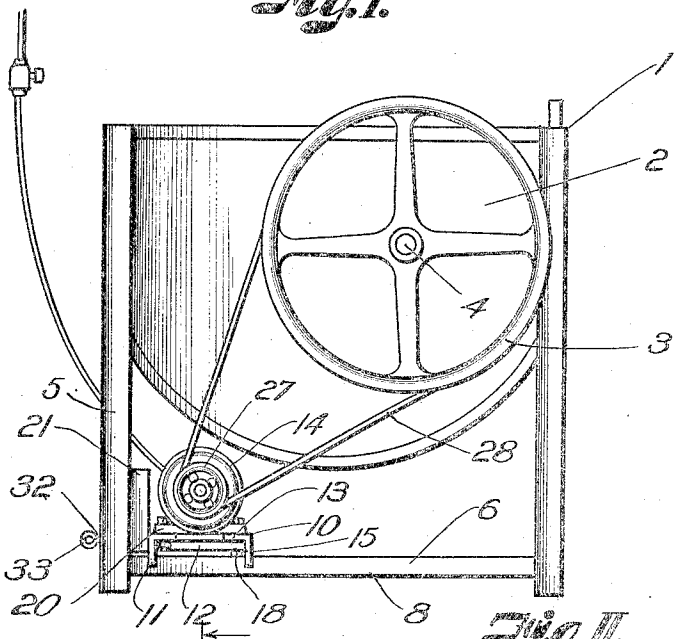


Fig. II.

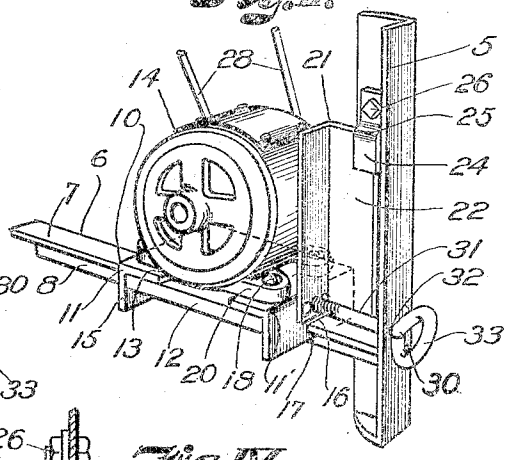


Fig. III.

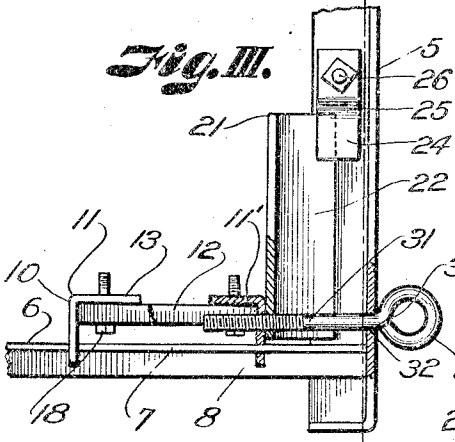


Fig. IV.

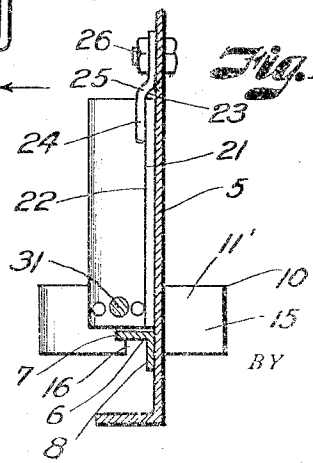
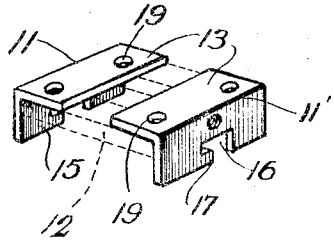


Fig. V.



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MOTOR-SUPPORTING PLATFORM.

1,278,846. Specification of Letters Patent. Patented Sept. 17, 1918.

Application filed June 16, 1917. Serial No. 175,225.

To all whom it may concern:

Be it known that I, HARRY BUDD, a citizen of the United States, residing at Independence, in the county of Montgomery and State of Kansas, have invented certain new and useful Improvements in Motor-Supporting Platforms; and I do declare the following to be 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a motor platform and more particularly to a platform for supporting a motor on the frame of a washing machine, the principal object of the invention being to provide a platform of this character which may be readily mounted on or removed from its supporting frame and when mounted may be adjusted along its support to loosen or tighten its driving connection with the operating parts.

In accomplishing this object, I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawings, wherein:

Figure I is a side elevation of a washing machine equipped with a motor supporting platform constructed and mounted according to the present invention.

Fig. II is a detail perspective view of the platform, the motor and the platform supporting and adjusting members.

Fig. III is a side view of the supporting members and platform, shown partly in section to illustrate the adjusting screw.

Fig. IV is an end view of the same parts.

Fig. V is a detail perspective view of the flanged platform members.

Referring more in detail to the drawings:

1 designates a washing machine, the body 2 of which may be of any ordinary type wherein the movable washing parts are contained and adapted for operation by a belt wheel 3 on a horizontal drive shaft 4 that is revolubly mounted in bearings on the body 2.

The body 2 is supported by legs 5 which, to add to the strength and rigidity of the structure, are connected at their lower ends by horizontal rails 6, one of which serves as a supporting member for the motor platform later described.

The legs 5 and rails 6 are preferably of angle iron construction and in mounting the legs on the body the inner faces of the angle members are turned to receive the corners of the body, and the rails 6 riveted to the legs so that the horizontal flanges 7, particularly that of the platform supporting rail, will extend inwardly from the upper edge of the vertical flange 8 so that proper mounting of the platform may be accomplished.

Mounted on the rail 6 is a motor supporting platform 10, comprising base plates 11—11′ oppositely disposed in parallel, spaced relation, and joined by connecting blocks 12; the plates 11—11′ comprising angle members having horizontal flanges 13 whereon an electric motor 14 may be mounted and having downturned, vertical flanges 15 provided with coöperating sockets 16 for slidably receiving the upper horizontal flanges 7 of the rail 6; each of the plates being held to the rail flange by means of a tooth 17 that extends from the edge of the socket to underlie the flange. The motor 14 and connecting blocks 12 are attached to the plates by bolts 18 which extend through the ends of the blocks, through apertures 19 in the plate flanges 13 and through registering apertures in the base 20 of the motor, so that all of the parts are rigidly connected when assembled.

Attached to one of the plate flanges 15, preferably by riveting, is a standard 21, comprising an angle iron member having a flange 22 adapted to extend along the machine supporting leg 5 and is slidably contained at its upper end within a socket 23, formed between the leg and the offset wing 24 of a plate 25 that is secured thereto by a bolt 26 so that with the flange in position back of the wing 24 the platform will be maintained in a rigid horizontal position but when moved therefrom will permit tilting of the platform to release the same from the supporting rail.

The motor 14 is equipped with a belt wheel 27 which is located in operative alinement with the belt wheel 3 and extending thereover and over the belt wheel 3 on the vertical operating shaft is a belt 28, by which the driving mechanism of the washing parts may be operated from the motor.

To secure the platform on the rail 6 so that the standard flange 22 will remain back of the wing 24 and hold the platform in functional position, I provide an adjusting screw 30, having a shank 31 extending

through aperture 32 in the leg 5 and threaded into the side flange of the plate 11', the outer end of the shank having a turning head 33 engaging the leg to limit inward movement of the shank and thereby prevent unseating of the standard flange from its socket.

If it is desired to loosen or tighten the belt about the wheels when the machine is in operation, the platform may be moved within certain limits by turning the screw head 33 to either draw the platform toward the leg 5 or permit it to move therefrom under pull from the belt.

Assuming that the parts are so constructed, in assembling the same the motor is first seated on the plates 11—11' and attached thereto by extending the bolts 18 through the underlying blocks 12, the apertured flanges 13 and the motor base 20.

With the motor in place, the platform is seated on the rail flange 7 and moved therealong to bring the upper end of the standard 21 back of the offset portion of the plate 25. The belt is then applied to the wheels 3 and 27, and the adjusting screw 30 extended through the leg aperture and threaded into the platform plate 11'. The platform is then adjusted along the rail 6 to tension the belt by adjustment of the screw.

To remove the platform from its support it is only necessary to loosen the screw sufficiently to allow the standard 21 to be unseated from the wing 24 so that the platform may be tipped upwardly and thereby released from the rail.

While I have described the platform only in connection with a washing machine, it is apparent that the motor mounting may be used for various other machines with equal success and without departing from the spirit of the invention.

With this construction it is apparent that the motor may be quickly and easily removed or mounted and may be adjusted to tension or loosen the belt as may be necessary.

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

1. A platform comprising spaced side flanges having slots in their free edges, offset at their inner ends to provide locking connection between the platform and a supporting member.

2. In combination with a flat base member, a platform comprising side flanges having slots opening through their free edges to receive the edges of the base and offset at their inner ends to permit the platform to turn and form a locking seat on the base.

3. In combination with a flat base, a platform comprising side flanges having slots opening through their free edges to receive the edge of the base and offset at their inner ends to permit the platform to turn and form a locking seat on the base, one of the flanges having a threaded aperture therein, a standard on said base and an adjusting screw on the standard engageable with the platform to adjust the same.

4. In combination with a supporting frame, a platform comprising spaced side flanges having slots in their free edges offset at their inner ends to provide locking connection between the platform and a member of the supporting frame, a standard fixed to the base adapted to seat within a socket formed by an offset wing fixed to the frame, and an adjusting screw threaded through the standard and frame and engageable with the platform to adjust the same.

In testimony whereof I affix my signature.

HARRY BUDD.