A. A. BYERLEIN.

ADJUSTABLE MOTOR MOUNT.

APPLICATION FILED SEPT. 20, 1920.

1,373,795. Patented Apr. 5, 1921.

Fig. 1.

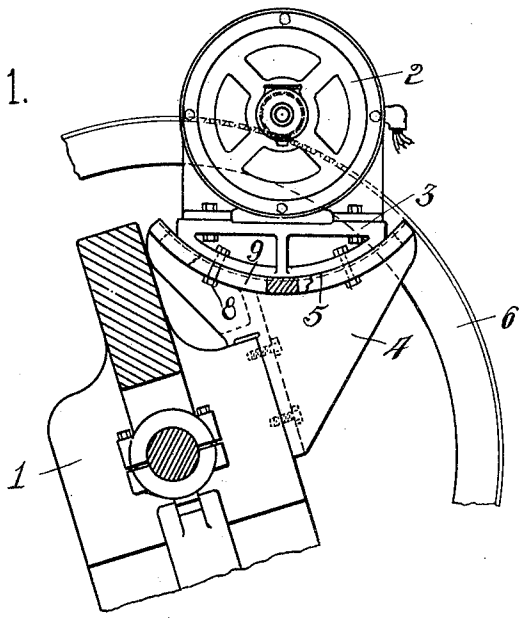
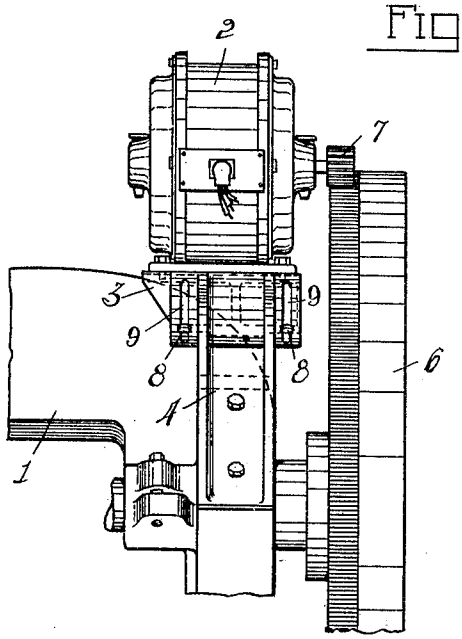


Fig. 2.



INVENTOR

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ARTHUR A. BYERLEIN, OF TOLEDO, OHIO, ASSIGNOR TO THE TOLEDO MACHINE & TOOL COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO.

ADJUSTABLE MOTOR-MOUNT.

1,373,795. Specification of Letters Patent. Patented Apr. 5, 1921.

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To all whom it may concern:

Be it known that I, ARTHUR A. BYERLEIN, a citizen of the United States, and resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Adjustable Motor-Mount; and I do hereby 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 characters of reference marked thereon, which form a part of this specification.

This invention relates to an adjustable mount for the drive motors of stamping machines and the like, and particularly for use in connection with machines of this class which are adjustable to adapt them to be operated in either upright or inclined positions and which have the adjustable frame part thereof carrying the motor.

The object of my invention is the provision of a simple and efficient mount of the class described which enables the motor to be easily and quickly adjusted to stand in upright position irrespective of the position of the machine frame carrying the same.

The invention is fully described in the following specification, and while in its broader aspect it is capable of embodiment in numerous forms, a preferred embodiment thereof is illustrated in the accompanying drawings, in which,—

Figure 1 is a fragmentary sectional view of a machine frame in inclined position and provided with a motor mount embodying the invention, and Fig. 2 is a front elevation thereof.

Referring to the drawings, 1 designates a machine frame capable of adjustment to stand in upright or inclined positions, or to have its inclination varied, and 2 an electric drive motor mounted thereon for adjustment therewith.

The motor frame is formed or provided with a base 3 having its bottom of segmental form with its curve concentric to the axis of the motor shaft.

The motor and its base are supported by a bracket 4 that is mounted on the upper portion of the frame 1 and which has its top provided with a concaved seat 5 for the motor base. The arc of the seat 5 is of the same curvature as the base, being struck from the same axis, so that the base fits therein and is capable of rotary adjustment relative thereto to change the inclination or position of the motor relative to the frame 1 without disturbing the position of the motor axis relative to the driven gear 6 of the machine, provided of course, that the drive pinion 7 for the gear is carried by the motor shaft, the axis of adjustment being preferably that of the drive pinion which engages the driven gear 6 of the machine. It is preferable to make the bracket seat of greater length than the base 3 to facilitate considerable range of adjustment.

The motor base is fixedly secured in adjusted position to the bracket by bolts 8 which project through apertures in the base 3 and slots 9 in the bracket flange forming the seat thereof, the slots extending lengthwise of the curvature of the seat.

It is evident that with this manner of mounting a motor on a machine frame an adjustment of the motor relative to the frame so that the former is retained in upright position when the inclination of the frame is varied, may be effected in an easy and rapid manner without changing the position of the drive pinion with respect to the driven gear of the machine.

I wish it understood that my invention is not limited to any specific construction, arrangement or form of the parts as it is capable of numerous modifications and changes without departing from the spirit of the claims.

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

1. In combination, a tiltable support, a bracket carried by the support and having a concaved seat on its top, a motor having its frame base provided with a curved bottom for seating in the concavity of the bracket and for adjustment lengthwise thereof to vary the position of the motor relative to the bracket, a pinion driven by the motor shaft, the curvature of the bracket seat and motor bottom being concentric to the axis of the pinion, and means for adjustably securing the motor base to the bracket.

2. The combination with a tiltable machine frame, and a driven gear carried thereby with its axis transverse to the plane

of tilting adjustment of the frame, of a bracket carried by the frame and having a concaved seat, the length of which is in the plane of adjustment of the frame, a motor having the bottom of its frame base circular in form for seating in the bracket seat and for adjustment lengthwise thereof, a pinion driven by the motor and in mesh with the machine gear, the curvatures of the bracket seat and motor base being concentric to the axis of the pinion, and means for adjustably connecting the motor base and bracket.

3. The combination with a tiltable machine frame, and a driven gear mounted thereon with its axis transverse to the plane of adjustment of the frame of the bracket fixed to the frame at one side of the gear and having a top flange forming a curved seat and provided with slots extending lengthwise of its curvature, a motor, a base fixed to the bottom of the motor frame and having its bottom curved to seat in and conform to the curvature of the bracket top, securing bolts connecting the base and bracket and extending through the slots of the latter, and a drive pinion carried by the motor shaft in mesh with the gear, the curvature of the bracket and base being concentric to the axis of the pinion.

In testimony whereof I have hereunto signed my name to this specification.

ARTHUR A. BYERLEIN.