Dec. 1, 1931. H. C. SPAHN 1,834,294

MOTOR SUPPORTING STAND

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Fig. 1.

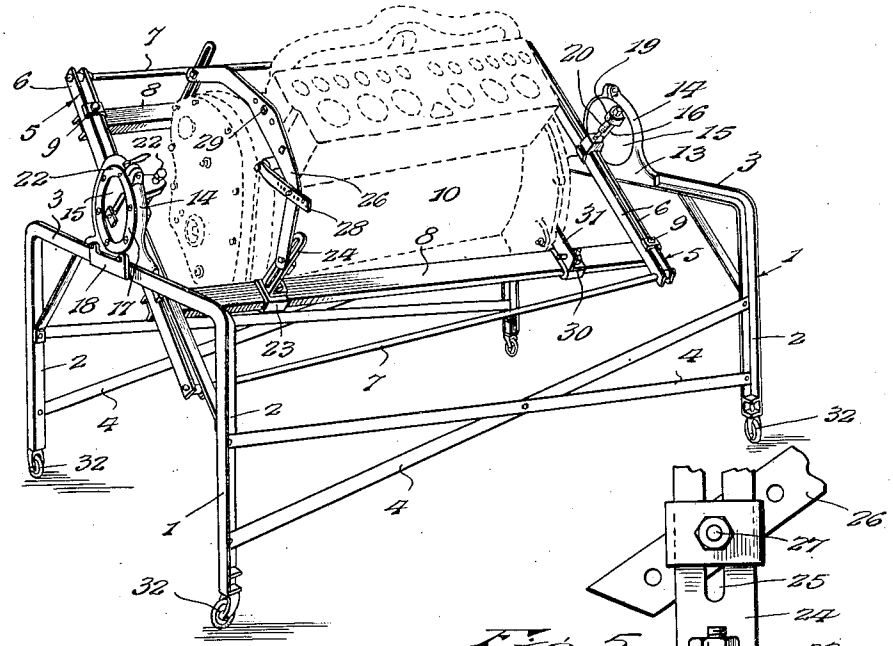

Fig. 5.

Fig. 4.

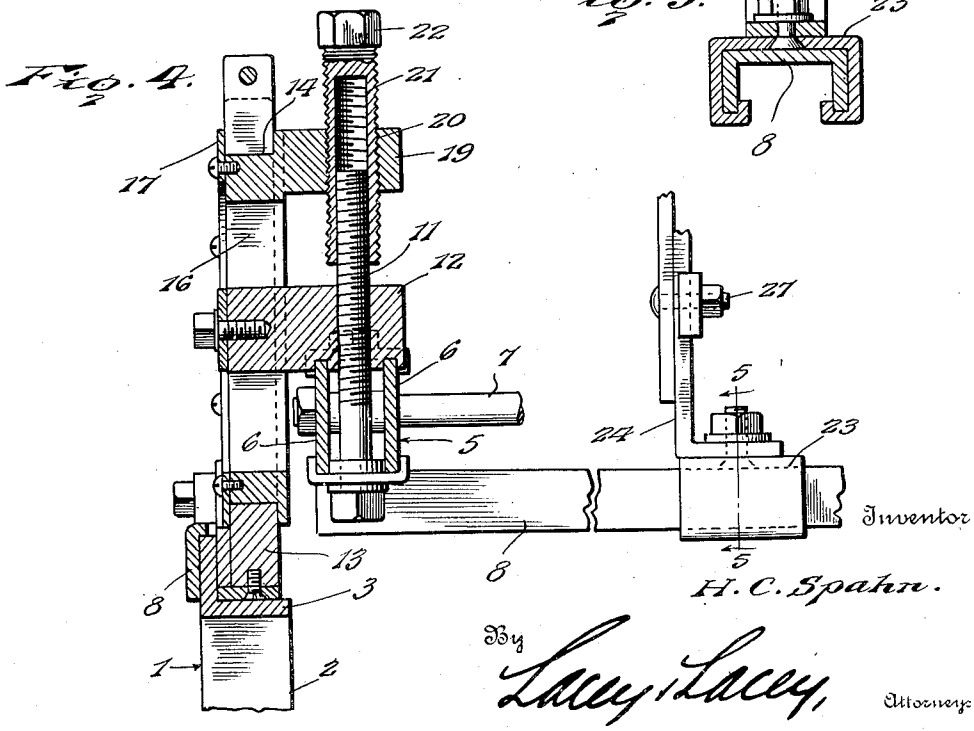

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Fig. 2.

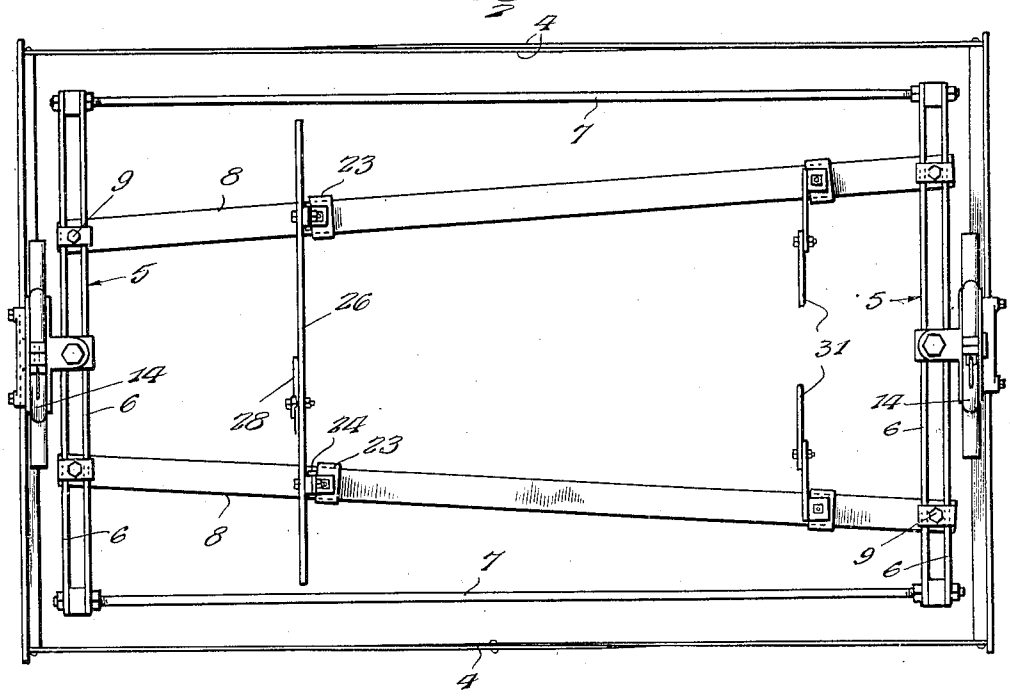
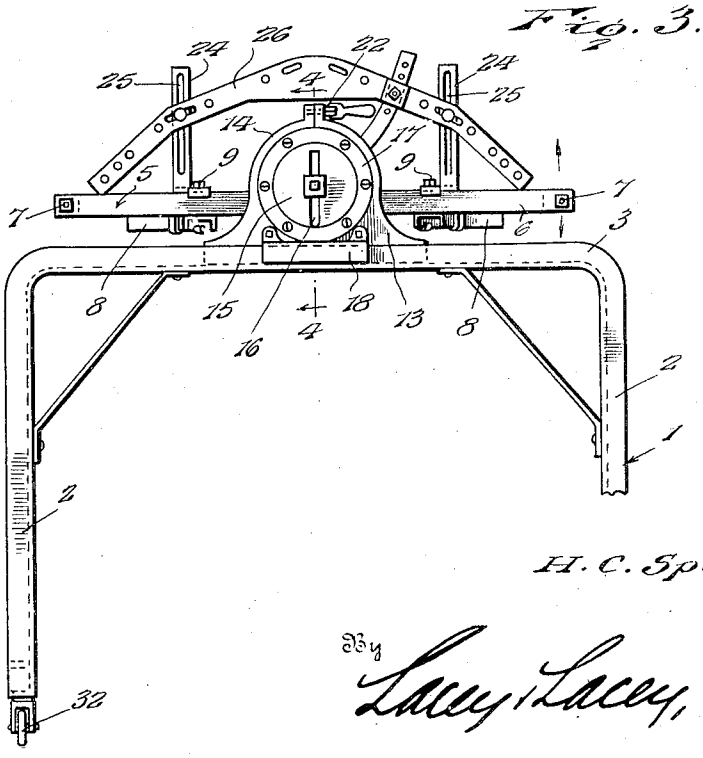


Fig. 3.



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Patented Dec. 1, 1931 1,834,294

UNITED STATES PATENT OFFICE

HILBERT C. SPAHN, OF KEWANEE, ILLINOIS

MOTOR SUPPORTING STAND

Application filed November 27, 1929. Serial No. 410,194.

The present invention is directed to improvements in motor supporting stands and is an improvement in my co-pending application, Serial No. 314,441, filed October 23, 1928 now issued as Patent No. 1,750,200, dated March 11, 1930.

The primary object of the invention is to provide a stand of this kind constructed in such manner that a motor can be easily and quickly secured to the stand and supported in various positions to permit a mechanic to have access to all parts of the motor in a convenient manner.

Another object of the invention is to provide a stand of this character so constructed that a motor can be mounted thereon for inspection, repairs or assembling or disassembling upon the stand.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the device.

Figure 2 is a top plan view, the motor removed.

Figure 3 is an end view of Figure 2.

Figure 4 is a sectional view on the line 4—4 of Figure 3.

Figure 5 is a sectional view on the line 5—5 of Figure 4.

The stand includes a pair of end frames 1 having their legs 2 connected by upper bars 3, all of which are formed from suitable gauge angle iron. The frames 1 are connected by crossed brace bars 4 which serve to maintain the end frames in rigid spaced relation.

A cradle is employed for supporting the motor and consists of end members 5 comprising spaced bars 6—6, there being tie rods 7 for connecting said bars. Supporting bars 8—8 of angle iron and have clamping bolts 9 upon their ends for engagement in the spaces between the respective bars 6 and serve to clamp the bars 8 in adjusted position. The bars 8 serve to support the motor 10 in a manner to be hereinafter described.

Fixed to each member 5 by a bolt 11 is a block 12.

Mounted upon the bars 3 of the end frames are blocks 13 having split bearings 14 and in which are mounted for rotatable adjustment, discs 15, said discs having formed therein slots 16 for slidably receiving the blocks 12.

The discs have rings 17 bolted to their outer faces to prevent endwise movement of the discs within the bearings.

The blocks 13 slidably engage the horizontal webs of the bars 3 and are held in adjusted position thereon by clamping plates 18 which are bolted to said blocks to clamp the vertical webs of said bars.

The discs are provided with lugs 19 having threaded openings 20 therein and in which are threaded the sleeves 21, said sleeves having their bores threaded for engagement with the bolts 11, as clearly shown in Figure 4 of the drawings. The sleeves have upon their upper ends tool engaging heads 22 to facilitate the rotation thereof.

The bearings 14 are provided with clamping devices 22 in order that the discs can be firmly clamped after adjustment or released for adjustment.

Obviously, rotation of the sleeves 20 in one direction will move the bolts 11 upwardly to elevate the cradle and downwardly when rotated in a reverse direction to lower the same. In this manner, the cradle can be adjusted vertically and can be swung to various positions of inclination upon adjustment of the discs 15 and their respective bearings 14.

Slidable upon the bars 8 are clips 23 having bolted thereto brackets 24 provided with longitudinal slots 25. An arcuate bar 26 is provided, there being clamping bolts 27 carried by its ends for adjustably engaging the slots 25 of the brackets. This bar has adjustably connected thereto an arm 28 adapted to be bolted to the motor 10. The bar 26 is provided with bolts 29 adapted to engage in bolt openings of the motor and serve to support the front end of said motor.

Clamps 30 are slidable on the bars 8 and have carried thereby arms 31 adapted to be bolted to the rear end of the motor. Thus,

it will be seen that the bar 26 and arms 31 will support the motor between the bars 8, and since the cradle can be adjusted vertically and angularly, all parts of the motor are readily accessible for inspection, repair, and assembling or disassembling when on the cradle.

The legs 2 of the end frames are provided with casters 32 to permit the stand to be easily rolled from place to place.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

What is claimed is:

1. A stand of the class described comprising end frames having discs supported thereby, said discs having slots formed therein, lugs carried by the discs, a cradle having blocks carried thereby for engaging the slots, bolts connecting the blocks with the cradle, and means carried by the lugs and engaged with the bolts for adjusting the blocks in said slots.

2. A stand of the class described comprising end frames, blocks carried thereby, said blocks having bearings, discs rotatably adjustable in the bearings, said discs having slots therein, lugs carried by the discs, a cradle, blocks engaged with the cradle, bolts for holding said blocks engaged with the cradle, sleeves threaded in said lugs and having threaded engagement with the bolts, said sleeves being rotatable to slidably adjust the latter blocks in said slots.

3. A stand of the class described comprising end frames, a cradle adjustably engaged with the frames and including bars, brackets slidably mounted on the bars, an arcuate bar adjustably connected with the brackets and adapted to engage a motor, an arm adjustably carried by the bars for engagement with the motor, and arms adjustably mounted on said bars for engaging the motor.

In testimony whereof I affix my signature.

HILBERT C. SPAHN. [L. S.]