C. V. FISHER.

MOTOR STAND.

APPLICATION FILED MAR. 31, 1920.

1,427,153.

Patented Aug. 29, 1922.

4 SHEETS—SHEET 1.

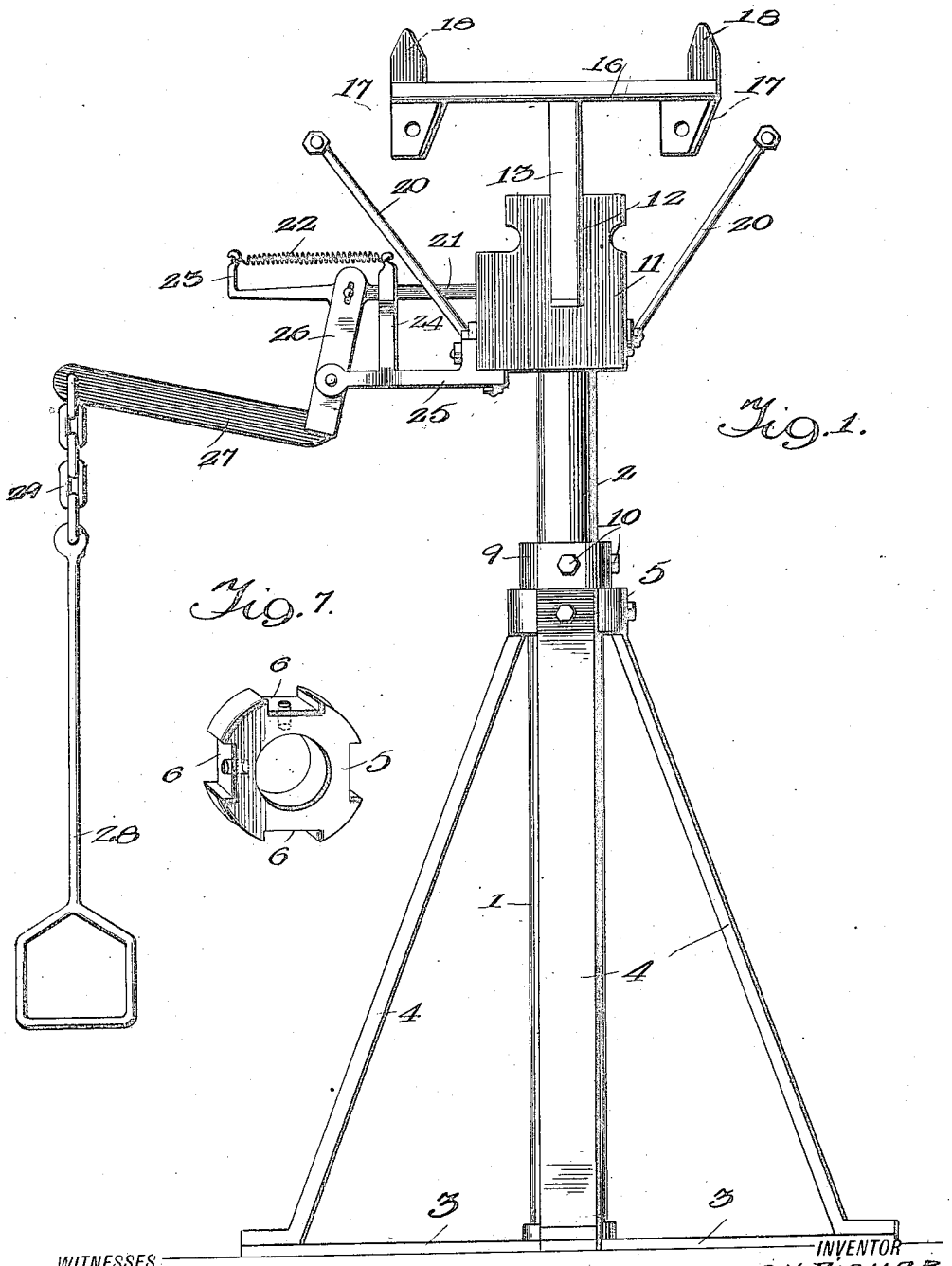


Fig. 1.

Fig. 7.

WITNESSES

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4 SHEETS—SHEET 2.

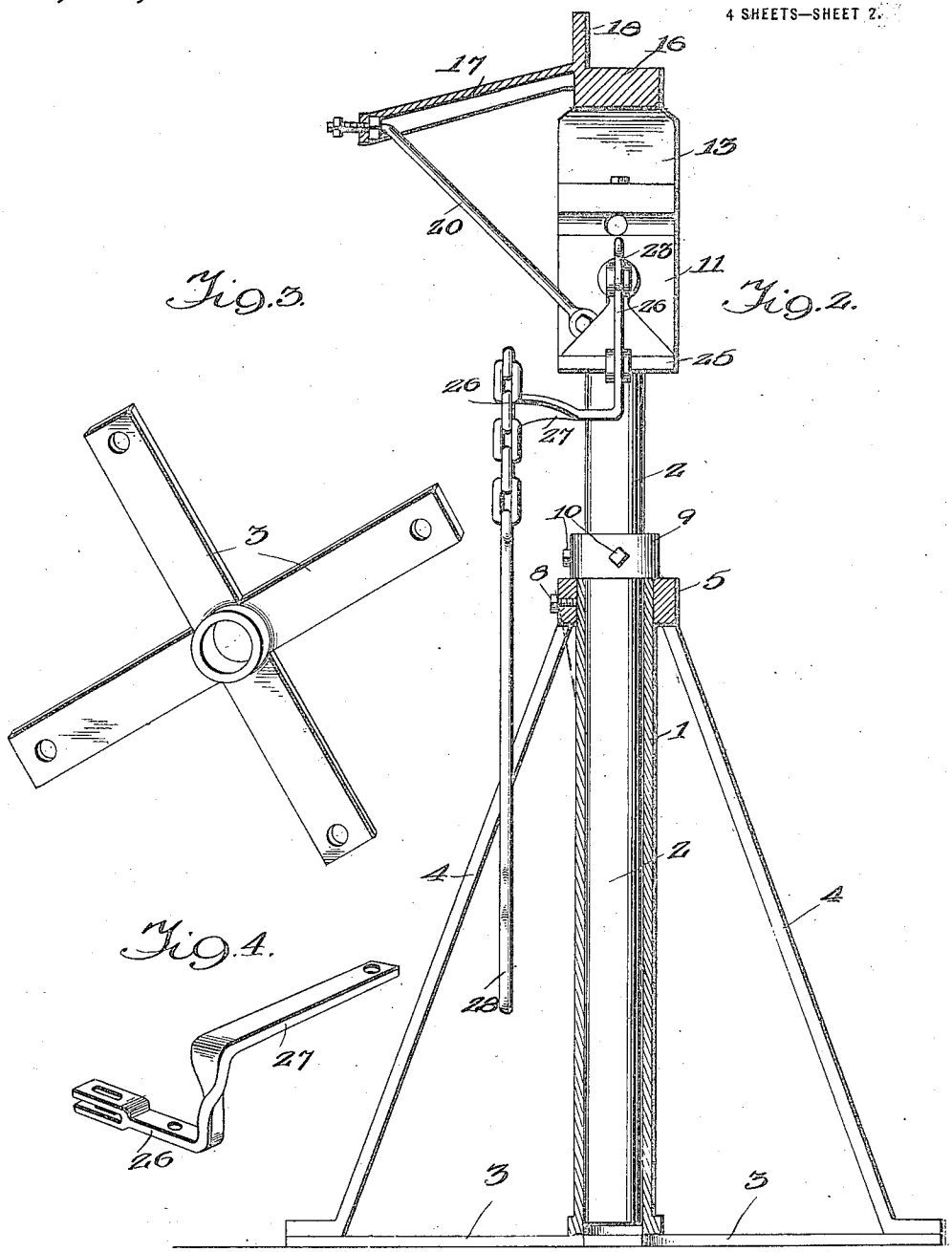


Fig. 3.

Fig. 2.

Fig. 4.

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4 SHEETS—SHEET 3.

Fig. 5.

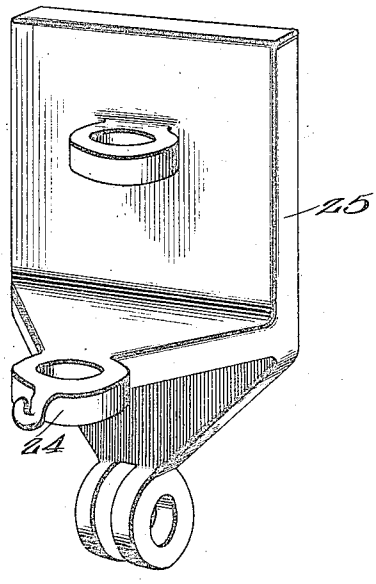
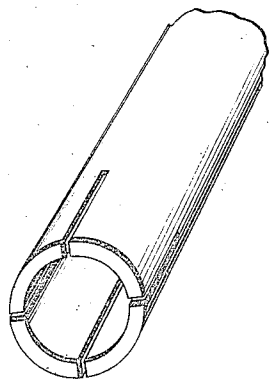


Fig. 6.



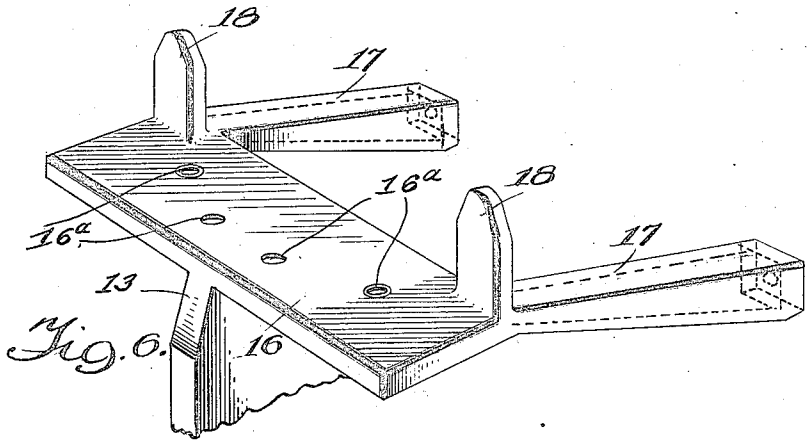


Fig. 6.

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4 SHEETS—SHEET 4.

Fig. 9.

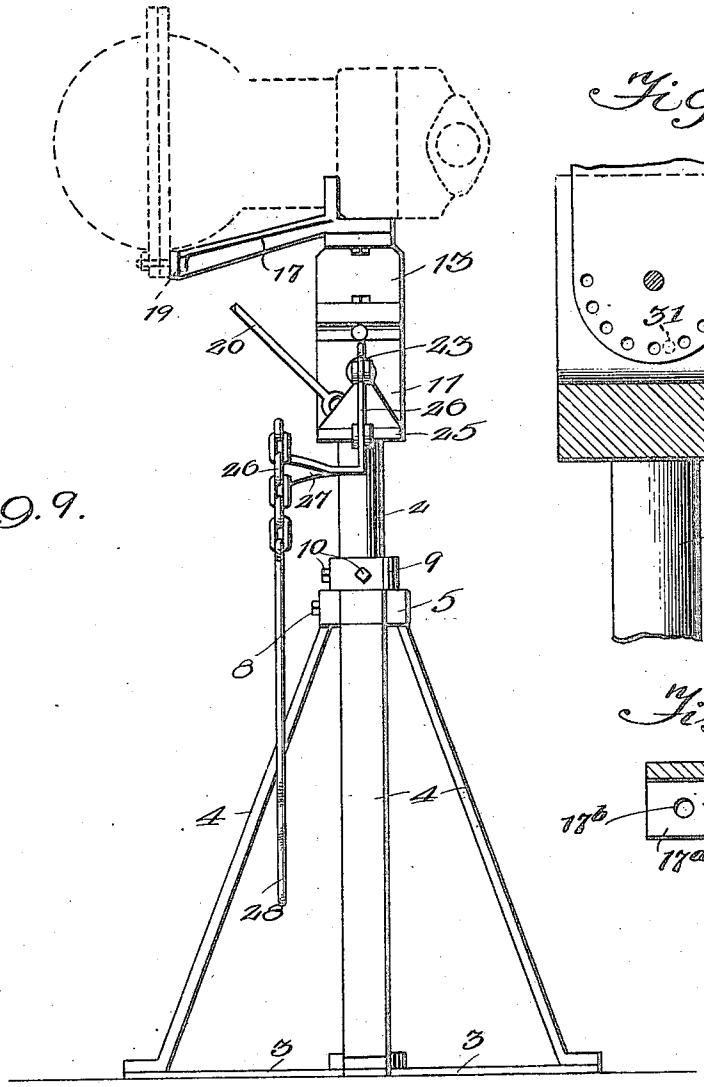


Fig. 11.

Fig. 10.

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UNITED STATES PATENT OFFICE.

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MOTOR STAND.

1,427,153. Specification of Letters Patent. Patented Aug. 29, 1922.

Application filed March 31, 1920. Serial No. 370,209.

To all whom it may concern:

Be it known that I, CHARLES V. FISHER, a citizen of the United States, and a resident of Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Motor Stands, of which the following is a specification.

My invention is an improvement in motor stands, and has for its object to provide a stand of the character specified especially adapted for supporting a motor during testing or repairs, wherein the stand is adjustable and capable of being secured in adjusted position and is provided with means for supporting the motor in any desired position.

In the accompanying drawings:—

Figure 1 is a side view of the improved stand;

Figure 2 is a front view with parts in section;

Figure 3 is a perspective view of the base;

Figure 4 is a similar view of the controlling lever;

Figure 5 is a perspective view of the bracket support for said controlling lever;

Figure 6 is a perspective view of the bed for the motor;

Figure 7 is a perspective view of the collar on the outer section of the post;

Figure 8 is a perspective view of one end of said outer section;

Figure 9 is a side view with the motor in place;

Figure 10 is an enlarged transverse sectional view of one of the supporting arms, and

Figure 11 is an enlarged fragmentary vertical sectional view of the supporting block.

In the present embodiment of the invention, a supporting post is provided consisting of an outer section 1 and an inner section 2, the inner section being mounted to slide in the outer section which is held on a base consisting of a cross 3, the arms of the cross being braced against the top of the section 1 by means of inclined braces 4. A collar 5 is arranged at the upper end of the section 1, and the upper ends of the braces 4 are connected with this collar, the lower ends being connected to the arms of the cross.

Referring to Figure 7 it will be seen that the collar is recessed, as indicated at 6, adjacent to each brace, and the upper end of the brace is received in the recess and is secured to the collar by a set screw 8.

The inner section 2 is mounted to slide in the outer section, and the said section 2 has a collar 9 for limiting its downward movement in the section 1, the collar 9 being secured on the section 2 by set screws 10. A block 11 of cast steel is connected with the upper end of the inner section 2 in any suitable manner. This block has in its upper face a passage or recess 12 extending longitudinally of the block, and there is received in this recess a depending portion 13 on a Ford Model T bracket. The bracket consists of a plate or body 16 and the rib or fin 13 depending therefrom, and arms 17 extend laterally from the ends of the body at one side, the said arms extending down.

The arms 17 are of angle formation, each having a horizontal portion and a vertical portion, and the arms being similarly arranged and the portions are connected at the ends of the arms remote from the plate by webs 17^a as shown, the webs having openings 17^b. At the junction of each arm with the body of the bracket there is an upstanding lug 18.

The bracket is arranged to tilt as a whole with respect to the block, the rib or fin having openings 30 which are adapted to register with an opening 31 through the anvil extending transversely of the slot 12 in which moves a locking pin or bolt 21. Any one of these openings in the fin may be brought into register with the pin, and the pin is normally spring pressed toward the fin by a coiled spring 22 which is arranged between an upstanding lug 23 on the outer end of the locking pin and an upstanding arm 24 on the bracket 25 which supports the locking pin, the locking pin being slidable through the upstanding arm 24.

The bracket 25 as shown is rigidly secured to the block and one of the arms 26 of a bell-crank lever 26—27 is pivoted to the outer end of the bracket. The arm 26 of the bell crank lever has a pin and slot connection with the locking pin, as shown in Figure 1, and a treadle 28 is connected with the other arm 27 of the bell-crank by a flexible member 29. Referring to Figure 4 it will be seen that the arms 26—27 are offset laterally with respect to each other.

Braces 20 extend upwardly and outwardly from the opposite sides of the block, each brace having at its free end an eye, and

these braces may be connected with the motor block, being bolted directly thereto, when the said block is on the bracket. The braces are used only when the bracket occupies the position shown in Figure 2, that is, directly above the block. When the motor block and bracket are swung into other positions, the braces are released. When any bracket or motor bed is used other than the Ford Model T, said bracket or bed will bolt to the openings 16ª shown in Figure 6. The lugs 18 fit in recesses in the model T Ford motor block, when the motor block is placed upon the bracket. In Figure 9, the motor indicated in broken lines is shown in place on the stand.

I claim:

1. A device of the character specified comprising a sectional post, the sections being adjustable vertically with respect to each other, means for holding the sections in adjusted position, a block connected with the uppermost section, and a motor supporting bracket adjustably connected with the block, normally active means for holding the bracket in adjusted position with respect to the block, and a treadle for releasing said means.

2. A motor stand comprising a post, a block supported on the upper end of the post and provided with a vertical recess extending through the upper face thereof, a motor engaging bracket having a plurality of arms and lugs disposed in spaced relation and provided with a fin pivotally mounted in the recess to swing to vertical or horizontal positions or positions intermediately thereof and provided with a plurality of apertures around the pivots concentric thereto, a bearing bracket at one side of the block, a locking pin slidably mounted therein and normally held in engagement with one of the apertures of the fin, the block having an opening receiving the pin therein, a lever pivoted on the bearing bracket and having engagement with the pin for withdrawing it, said lever being offset, and a treadle connected with the lever for actuating the device by the foot in close proximity to the floor.

3. A motor stand comprising a post, a block supported on the upper end of the post and provided with a vertical recess extending through the upper face thereof, a motor engaging bracket having a plurality of arms and lugs disposed in spaced relation and provided with a fin pivotally mounted in the recess to swing to vertical or horizontal positions or positions intermediately thereof and provided with a plurality of apertures around the pivots concentric thereto, a bearing bracket at one side of the block, a locking pin slidably mounted therein, and a spring normally holding said pin in engagement with one of the apertures of the fin, the block having an opening receiving the pin therein.

CHARLES VIGUS FISHER.