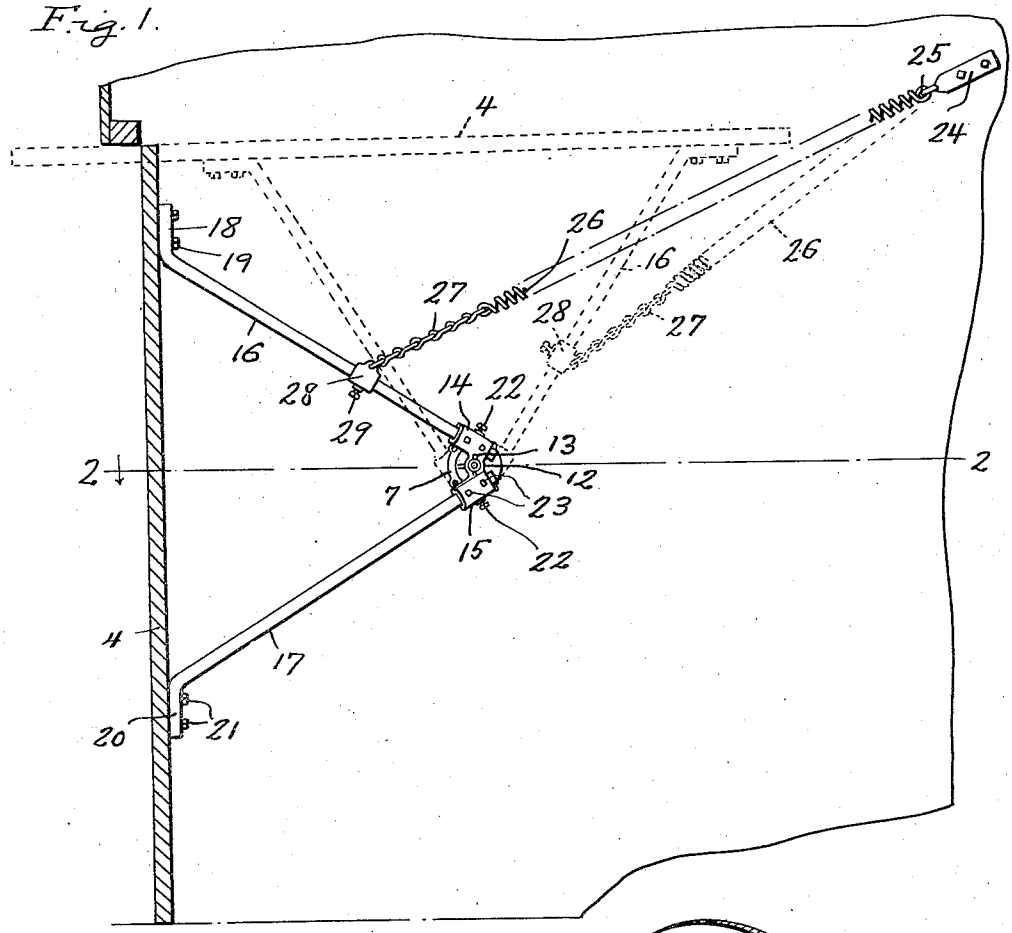
March 4, 1941. F. PECK 2,233,638

DOOR HANGER

Filed Dec. 6, 1939 2 Sheets-Sheet 1

Fig. 1.



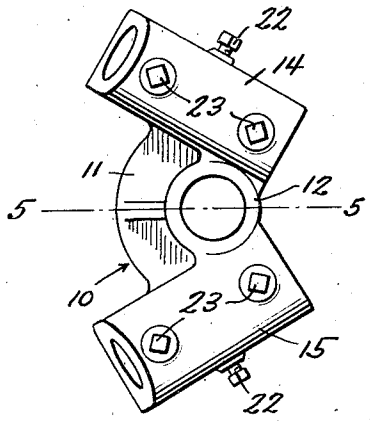


Fig. 3.

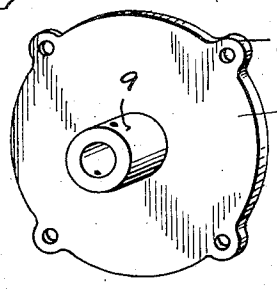


Fig. 4.

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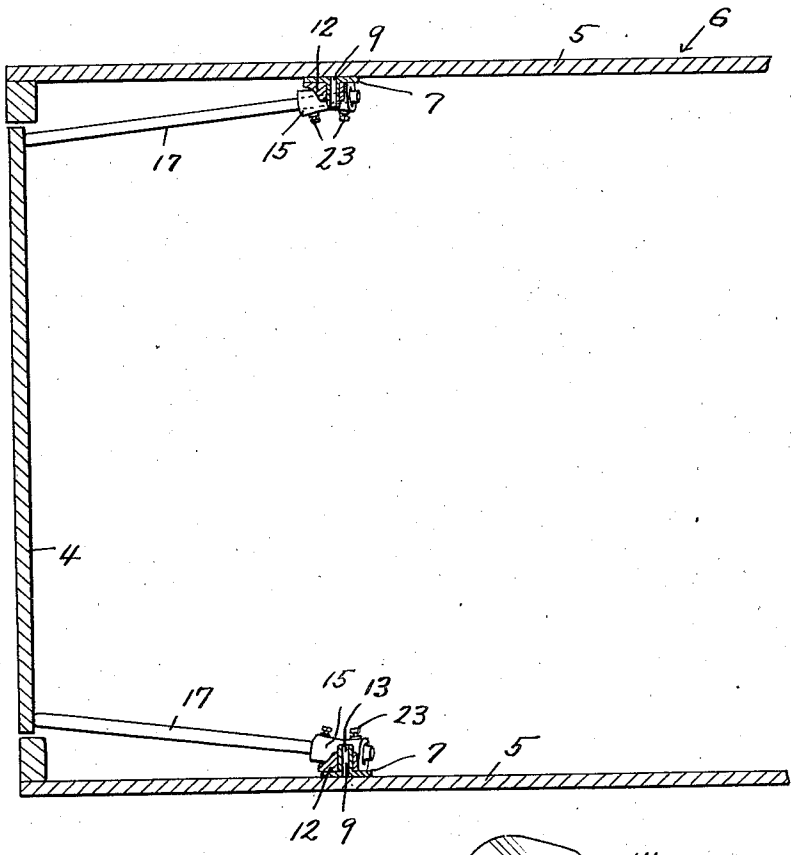
Attorneys

March 4, 1941. F. PECK 2,233,638

DOOR HANGER

Filed Dec. 6, 1939 2 Sheets-Sheet 2

Fig. 2.



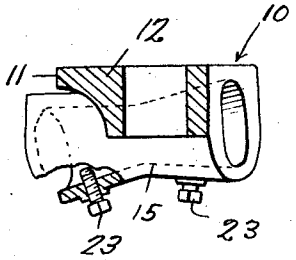


Fig. 5.

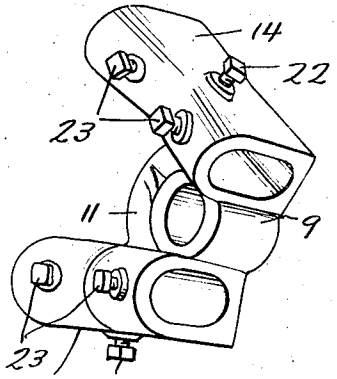


Fig. 6.

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UNITED STATES PATENT OFFICE

2,233,638

DOOR HANGER

Fred Peck, Albuquerque, N. Mex.

Application December 6, 1939, Serial No. 307,911

1 Claim. (Cl. 16—129)

This invention relates broadly to doors such as used in garages and the like, with particular reference to such doors as are generally known in the art as "overhead" doors.

More particularly the invention has reference to an improved hanger, mounting or suspension means for doors of the character mentioned; it being the primary object of the invention to improve upon such hangers, mountings or suspension means as now generally employed.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a fragmentary vertical sectional view through the front portion of a garage having a door equipped with a hanger or suspension means embodying the features of the present invention.

Figure 2 is a horizontal section taken substantially on the line 2—2 of Figure 1.

Figure 3 is an elevational view of a rotating casting forming part of the invention.

Figure 4 is a perspective view of a stud-equipped mounting plate forming part of the invention.

Figure 5 is a sectional view taken substantially on the line 5—5 of Figure 3, and

Figure 6 is a perspective view of the aforementioned casting.

Referring more in detail to the drawings it will be seen that secured to the inner face of each side wall 5 of a garage or like building, indicated generally by the reference numeral 6, is a mounting plate 7; the same being shown as provided with apertured ears 8 for accommodating bolts or other fastening elements through the medium of which said plate is secured to its associated side wall 5.

The plate 7 is provided in the center thereof with a stud 9 about which is rotatable a casting indicated generally by the reference numeral 10.

The casting 10 embodies a web or body plate 11 provided with a hub 12 that receives the stud 9 and is rotatably retained on the stud between the plate 7 and a cotter pin or other suitable retaining element 13.

The casting 10 is also formed to provide a pair of integral sleeves 14 and 15 that are relatively arranged substantially in the form of a V as shown.

The sleeves 14 and 15 accommodate hanger arms 16 and 17, respectively, hanger arm 16 having an angularly disposed end portion 18 that is bolted or otherwise secured as at 19 to the inner face of the door 4 of the garage or similar building 6 adjacent the upper edge of the door, while arm 17 has an angularly disposed end 20 that is bolted or otherwise secured as at 21 to the inner face of the door 4 slightly upwardly from the bottom edge thereof.

The free ends of the arms 16 and 17 are accommodated by the sleeves 14 and 15, which latter are provided with set screws 22 for bearing engagement with the arms 16, 17, to hold the arms relatively rigid with respect to the sleeves 14 and 15. Said sleeves 14 and 15 are flared outwardly and laterally toward the ends thereof from the transverse centers of the sleeves, as best shown in Figure 5, so as to allow for adjustment of the arms 16 and 17 laterally therein to extend obliquely therefrom at different angles. The sleeves 14 and 15 are also provided with pairs of set screws 23 for securing the sleeves 14 and 15 in proper adjustment with respect to the arms 16 and 17, and as might be required because of various offsets and for centering the door 4 in the opening or doorway of the garage or similar building.

Also secured to the inner face of each side wall 5 of the garage or building is an anchor plate 24 provided at one end with a hook 25 with which is engaged one end of a coil spring 26. Coil spring 26 has the other end thereof suitably connected with a length of chain or other flexible element 27, and which chain, in turn, is secured to an adjusting sleeve 28 embracing an arm 16, and equipped with a set screw 29 through the medium of which the sleeve 28 may be secured at the desired position of adjustment on the hanger arm 16.

Obviously the springs 26 act as counter-balancers for the door, and the tension on the springs may be adjusted as found desirable by proper adjustment of the sleeves 28 on the arms 16. Thus it will be apparent that the springs will tend to balance the door in any position and that the door may be raised or lowered with little or no effort.

From the above it will also be readily apparent that the door 4 is mounted for vertical swinging movement about the axes of the studs 9 for swinging from the vertical operative position shown by full lines in Figure 1 to the raised horizontal open position suggested by broken lines in said Figure 1, or vice versa.

It will also be understood that while the door may be operated by hand it might also be operated mechanically or automatically by proper adjustment of the tension of springs 26.

It is also to be understood that while I have herein illustrated and described a preferred em-

bodiment of the invention, changes in the construction and in the combination and arrangement of the several parts may be made provided that such changes fall within the scope of the appended claim.

Having thus described the invention what is claimed as new is:

A hanger for an overhead opening garage door, said hanger including a mounting plate having an integral laterally projected horizontal stud, a casting rotatably mounted on said plate and embodying a hub accommodating said stud and a pair of integral angularly related sleeves upon opposite sides of said hub, respectively, hanger arms having end portions trained through said sleeves, said sleeves being provided with set screws for securing said hanger arms and sleeves against relative rotation, and said sleeves from the transverse centers thereof flaring outwardly and laterally toward the ends of the same to provide for securing said arms therein to extend obliquely of the plate at different angles relative to said plate.

FRED PECK.