

No. 876,621.

PATENTED JAN. 14, 1908.

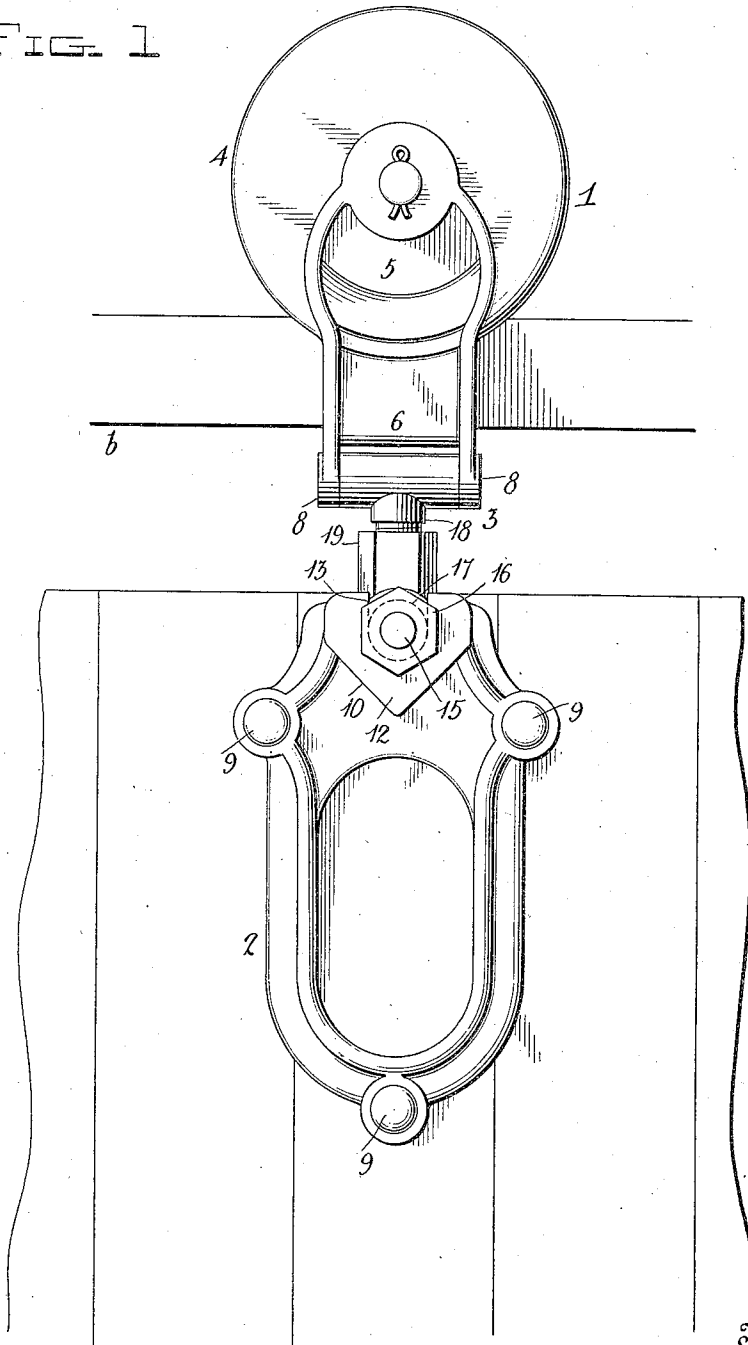
J. H. BURKHOLDER.

DOOR HANGER.

APPLICATION FILED APR. 29, 1907.

2 SHEETS—SHEET 1.

FIG. 1



Witnesses
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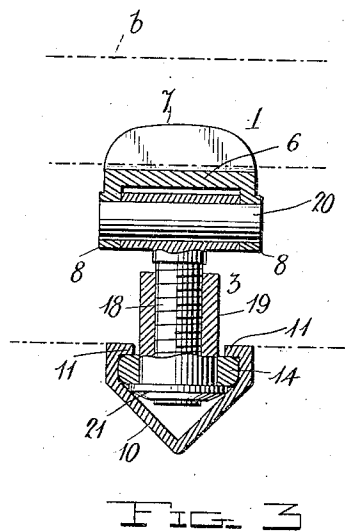
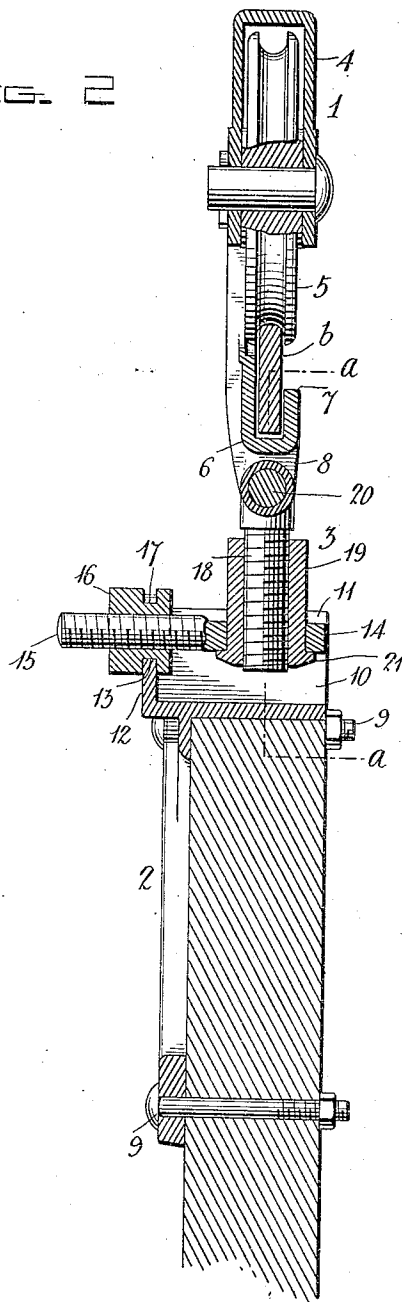


FIG. 2

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN H. BURKHOLDER, OF ASHLAND, OHIO.

DOOR-HANGER.

No. 876,621.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed April 29, 1907. Serial No. 370,983.

To all whom it may concern:

Be it known that JOHN H. BURKHOLDER, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, has invented new and useful Improvements in Door-Hangers, of which the following is a specification.

This invention relates to improvements in door hangers, and particularly with reference to a door hanger provided with improved means whereby the door may be adjusted both vertically and laterally.

The object of the invention is to improve and simplify the construction and operation of devices of this character and increase the efficiency of the same.

The invention consists in combining with a door member having a lateral arm, a traveler connected with said arm for movement thereon, a track member, a screw depending therefrom, and a nut having a bearing in said traveler, said nut engaging said screw and coacting therewith to connect said door member to the track member for vertical adjustment.

The invention further consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a front elevation of a door hanger embodying this invention, a portion of the door to which the door member is attached, and a portion of the track on which the track member operates being also indicated; Fig. 2 is a vertical sectional view of the same; and Fig. 3 is a detail sectional view, taken on the plane indicated by the line *a— a* of Fig. 2.

This improved door hanger comprises a track member 1, a door member 2, and a connection 3 between said members for vertically and laterally adjusting the door member with reference to the track member to effect corresponding adjustments of the door. The track member is provided with a housing 4, in which is journaled a grooved wheel 5, adapted to run upon the track *b*, which may be of any form and construction. The lower depending portion 6 of the track member is formed at its rear side with an upwardly-extending guard lip 7 to engage the lower side of the track and keep the wheel from becoming casually disengaged therefrom. Said lower portion of the track mem-

bers is further provided with a pair of depending lugs 8.

The door member 2 may be of the form here shown or of any other suitable form and is adapted to be secured to the outside of the door by suitable means, such as bolts 9. Said door member is provided at its upper end with a laterally-extending arm 10, here shown as substantially V-shaped in cross section, and channeled in its upper side and provided at its upper edges with inwardly-extending guide flanges 11. The inner end of said arm is open. Its outer end is closed, as at 12, and the wall which closes the outer end of the channel in said arm is provided with a recess or opening 13.

A traveler 14 is movable in the direction of the length of the lateral arm 10 in the channel thereof, and bears against the under side of the flanges 11 of said arm. Said traveler has an outwardly-extending screw arm 15, on which is an adjusting nut 16, provided with an annular circumferential groove 17, which engages the sides of the recess in the front end wall of the arm 10, which recess provides a bearing for the said nut and coacts with the groove of the nut to swivel the latter at said bearing and enable the nut to be readily removed from said bearing after the nut has been disengaged from the screw 15. It will be understood that by turning said nut in the required direction, said traveler may be moved laterally with respect to the door member and the door in the required direction to laterally adjust the door. The traveler forms one member of the adjustable connection between the track member and the door member. Said connection also comprises a vertically adjusting nut 19 movable on a screw 18 having a T-shaped head, the ends of which are disposed between the lugs 8. A pin 20 passes through aligned openings in said head and said lugs 8 and serves to pivotally connect said screw 18 to the track member. The nut 19 is tubular in form and passes through an opening in the traveler and has a flange 21 at its lower end, which bears against the underside of the traveler and coacts therewith to connect said nut to the lateral arm of the door member. The nut 19 engages the screw 18, and it will be understood that by turning said nut the door member may be adjusted verti-

cally as may be required with reference to the track member.

The various portions of this improved door hanger may be readily disassembled, and if any of them should become worn or broken, the same may be readily replaced by another at small expense.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

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

1. In a door hanger, the combination of a hanger member, a screw carried by said hanger and depending therefrom, a door member having a lateral arm, a traveler engaging said arm and adapted to be moved longitudinally thereof, means rotatably mounted on said arm and operatively connected to said traveler, and a nut rotatably mounted in said traveler and adapted to engage said depending screw, whereby provision is made for the lateral and vertical adjustment of the door.

2. The combination of a hanger member, a screw depending therefrom, a door member having a lateral arm, and a nut rotatably mounted at one end of said arm, with a traveler connected with and mounted to be moved longitudinally of said arm and having a screw for engagement with said nut, and a nut rotatably mounted in said traveler for

engagement with the screw carried by the hanger member to provide for the lateral and vertical adjustment of a door.

3. The combination of a hanger member, a screw pivotally connected therewith and depending therefrom, a door member having a lateral arm provided with a guide channel, and a nut rotatably mounted in one end of said arm, with a traveler mounted in said lateral arm and movable longitudinally in said guide channel, said traveler having a screw portion for engagement with said nut, and a nut rotatably mounted in said traveler and adapted to engage the screw carried by the hanger member, whereby a door may be vertically and laterally adjusted.

4. In a door hanger, the combination with a hanger member, a connecting member comprising a screw depending from said hanger member, a door member having a lateral arm provided with a V-shaped channel having intumed flanges along the edges thereof, one end of said channel being closed, and a nut having a groove therein rotatably mounted on the end closure of said channel, of a traveler mounted to be moved longitudinally in said channel and having a screwthreaded arm for engagement with said nut, a nut rotatably mounted in said traveler and engaging the screw carried by said hanger member and coacting therewith to connect said door and hanger members for vertical and lateral adjustment.

In testimony whereof, I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN H. BURKHOLDER.

Witnesses:

F. N. PATTERSON,
GEO. A. HELTMAN.