

No. 871,386.

PATENTED NOV. 19, 1907.

J. H. BURKHOLDER.

DOOR HANGER.

APPLICATION FILED DEC. 31, 1906.

Fig. 1.

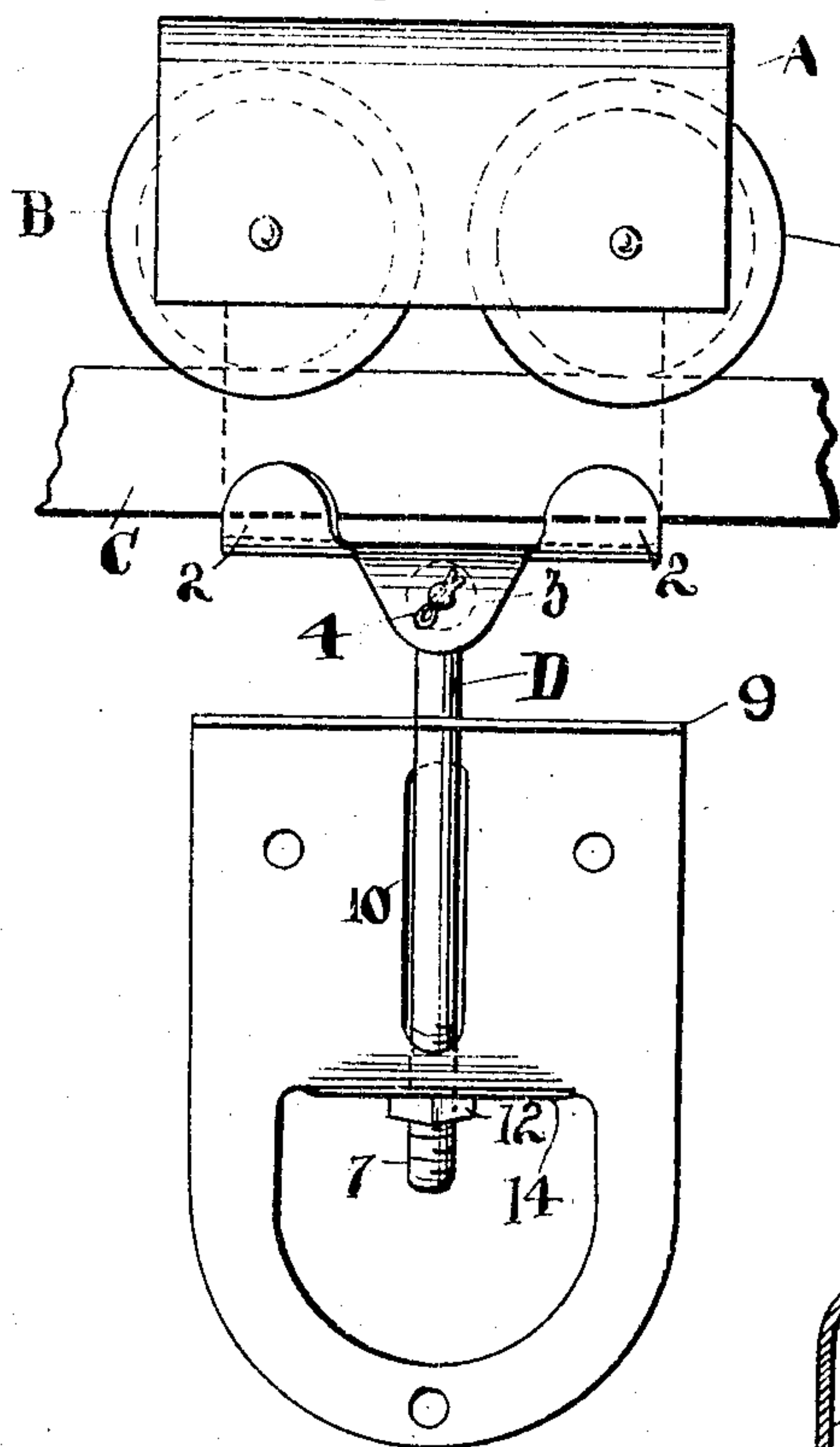


Fig. 2.

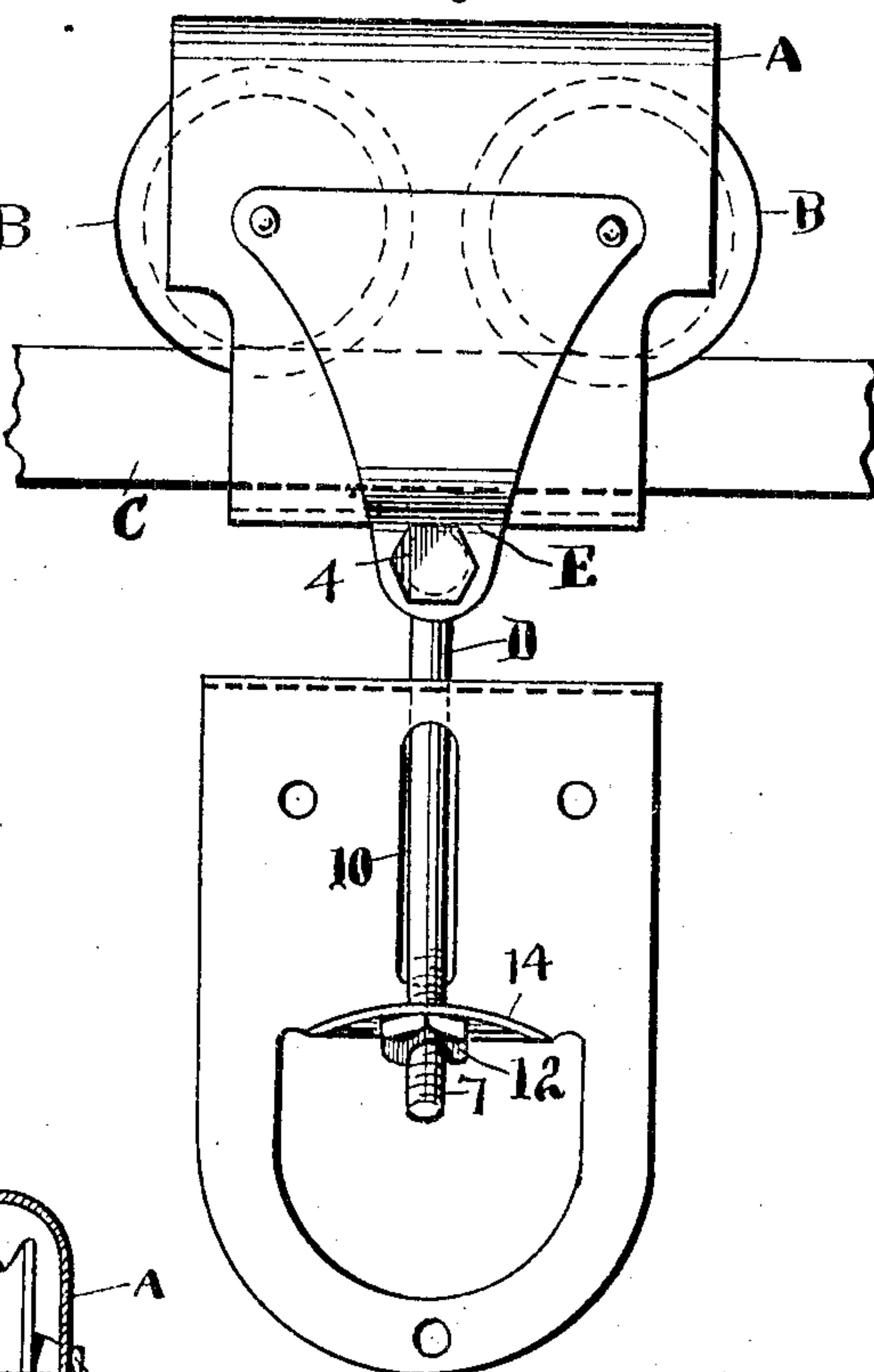


Fig. 3.

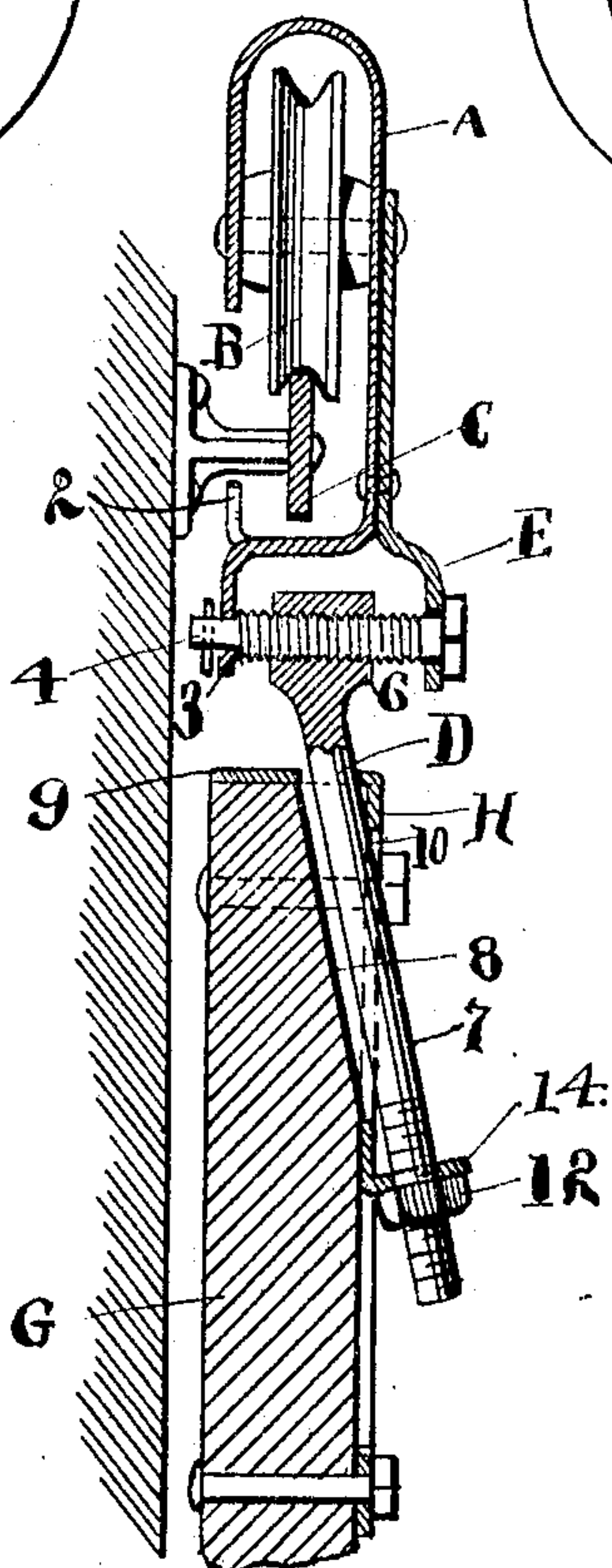
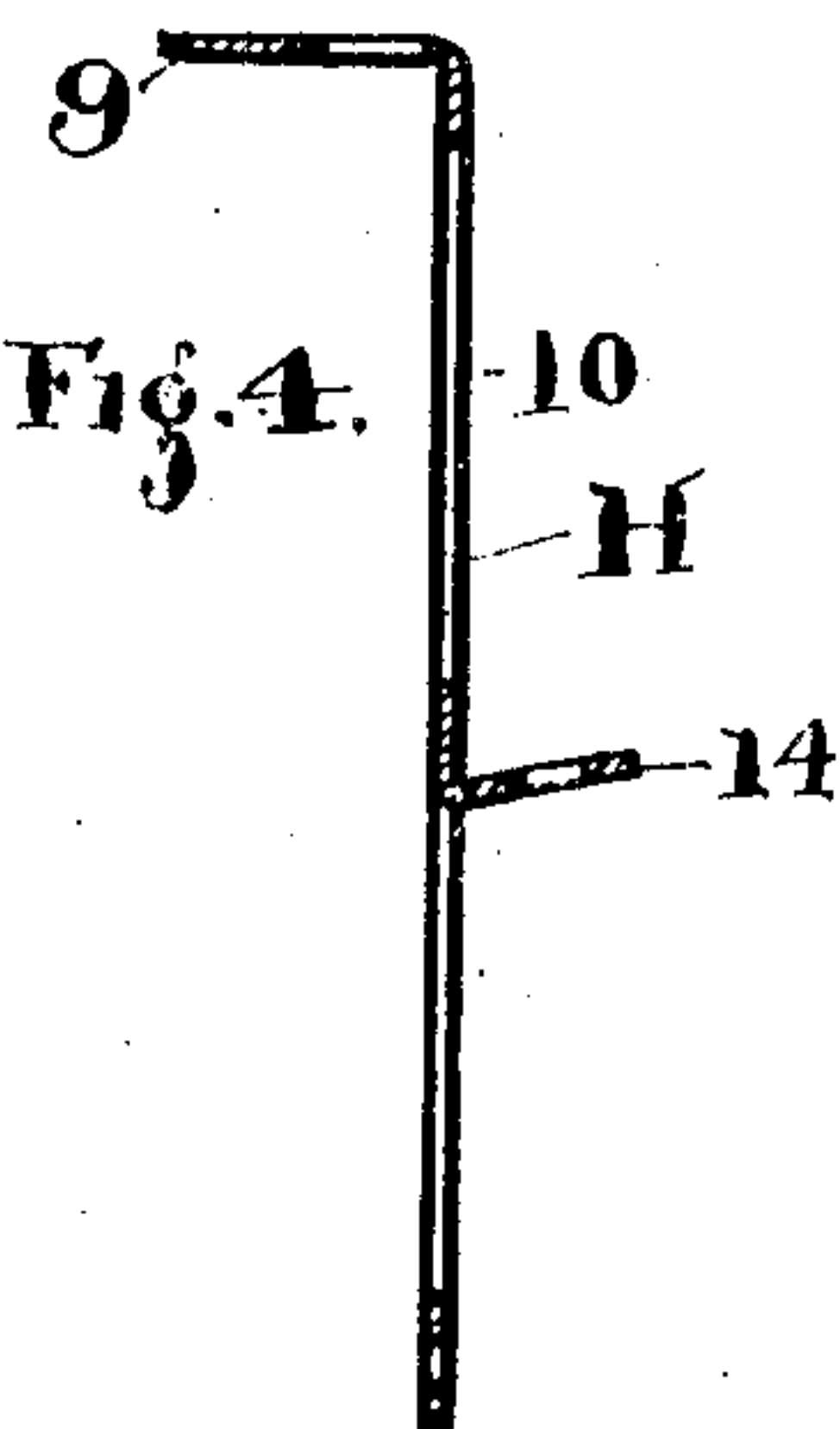


Fig. 4.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN H. BURKHOLDER, OF ASHLAND, OHIO, ASSIGNOR TO F. E. MYERS & BRO., OF ASHLAND, OHIO, A COPARTNERSHIP.

DOOR-HANGER.

No. 871,386.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed December 31, 1906. Serial No. 350,132.

To all whom it may concern:

Be it known that I, JOHN H. BURKHOLDER, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Door-Hangers, and do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

My invention relates to door hangers, and the invention consists in a hanger which makes provision for both vertical and lateral adjustment of the door according as either
15 may be needed at the time the door is originally placed in position or afterwards, all substantially as shown and described and particularly pointed out in the claims.

In the accompanying drawings Figure 1 is
20 a side elevation of my new and original hanger shown as supported upon a section of rail, and Fig. 2 is a reversed view of Fig. 1. Fig. 3 is a vertical cross sectional elevation of the hanger and the rail on which it is sup-
25 ported.

The invention as thus shown comprises the traveling carrier or roller mounting A, formed of sheet or other metal and affording a housing for wheels or rollers B, one or
30 more, but two are employed in this instance. The carrier and rollers are retained upon the rail C by means of lips 2 formed by bending the lower portion of the housing at right angles thereto and thence upward on the inner
35 side of the rail to engage with the same and prevent lateral displacement of the carrier from the rail. A downwardly extending lip 3 between lips 2 serves on that side to support adjusting screw shaft 4. The other end
40 of said adjusting screw shaft 4 is supported by a supplementary plate E riveted or otherwise permanently fixed upon the side of housing or carrier A and practically forming a part thereof. This or an equivalent con-
45 struction of housing or carrier for the rollers and for operatively hanging the door from or upon rail C may be employed. However, the means especially essential to this inven-
50 tion comprise the suspensory member D for the door referred to herein also as an eye bolt, because of its resemblance to such a bolt, and a screw shaft 4 which engages the eye of said bolt or member D, and which is adjustable laterally in either direction there-
55 on according as either may be needed to get

the door in right working position. Said shaft or screw can be engaged by a wrench or key to turn the same, the screw thread serving as means for adjusting the door-supporting member laterally of said shaft. To these
60 ends the adjusting screw 4 is adapted to rotate in its immediate supports 3 and E, and is threaded to engage the threaded eye 6 of the bolt or hanger D. Otherwise the said eye might be unthreaded and side nuts used
65 to make the adjustments. The present arrangement however, serves as a convenient means of making such adjustment of said bolt and door G hung thereon, and in effect and practically is equivalent to a rigid con-
70 nection of the door support with the carrier. This is obvious, because of the long transverse bearing of the hanger on its shaft 4, and such rigid connection as to lateral conditions is desirable in order to fix and hold the
75 door where it may be adjusted. Hence whatever lateral adjustment of the door is effected through this mechanism is positive and secures the door fixedly in adjusted position. The construction of the door itself and
80 the manner of connecting the bolt or hanger D therewith carry out this arrangement. To this end the said bolt or hanger is constructed to have an outward inclination from its eye or head so as to engage with the door
85 relatively as shown, thus enabling the hanger to pass down through the top edge of the door and project its threaded extremity 7 outside the door at a lower plane. To these ends, also, the door is provided with an inclined
90 groove or channel 8 for said bolt from its top edge downward and outward and is equipped with a plate H which lies against the side of the door and has a right angled flange 9 resting
95 on the top edge thereof and provided with a hole for the bolt coincident with said groove 8, and slot 10 in the side of plate H accommodates the bolt lower down. The nut 12 engages the extremity 7 of the bolt
100 beneath the lateral lip 14 on plate E, and by these means the door is hung and the elevation thereof and its vertical adjustment on its hangers are determined.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious
105 modifications will occur to a person skilled in the art.

What I claim is:

1. A door hanger comprising a roller car- 110

rier, a shaft mounted on said carrier and extending transversely of the direction of travel thereof, and a door supporting member carried by said shaft and means for laterally adjusting the same thereon.

2. A door hanger comprising a roller carrier, a threaded shaft rotatably mounted in said carrier and extending transversely thereof, and a door supporting member suspended from said shaft and means for adjusting the same thereon.

3. A door hanger comprising a roller carrier, a threaded shaft rotatably mounted in the lower part of said carrier and extending transversely thereof, and a suspensory member having a threaded head mounted on said shaft and laterally adjustable thereon.

4. A door hanger comprising a roller carrier, a threaded shaft rotatably mounted therein, a door supporting member having a threaded aperture engaging said shaft, and means to adjustably engage said member with a door.

5. A door hanger comprising a roller carrier, a threaded shaft rotatably mounted therein and extending transversely of the direction of travel of said carrier, a door supporting member having a threaded aperture adapted to engage said shaft, and means for engaging said member with a door.

6. A door hanger comprising a roller carrier having downward projections at its bottom, a threaded shaft rotatably mounted in said projections, and a door support having a head with a threaded aperture adapted to engage said shaft, in combination with a door and means carried by said door for connecting the same to said support.

7. A door hanger comprising a door support, a roller carrier provided with projec-

tions extending downwardly from opposite sides thereof, a transverse shaft mounted in said projections and adapted to suspend said door support therefrom substantially beneath the rollers in said carrier.

8. A door hanger comprising a roller carrier having an inverted U-shaped lower portion, a shaft mounted in said U-shaped portion, and a door supporting member mounted on said shaft between the arms of said U-shaped portion.

9. A door hanger comprising a roller carrier having an inverted U-shaped lower portion, a shaft rotatably mounted in said U-shaped portion, a door supporting member mounted on said rotatable shaft between the arms of said U-shaped portion and means for adjusting the same thereon.

10. A door hanger comprising a roller carrier, a threaded shaft rotatably mounted therein and extending transversely of the direction of travel of said carrier, a door, a door-supporting member having a threaded aperture in one end thereof adapted to engage said threaded shaft, said door-supporting member being secured to said door with said apertured end located above the upper edge thereof, and means for adjusting said door-supporting member vertically of said door, whereby said door may be adjusted vertically or transversely of said roller carrier and maintained in position beneath the same.

In testimony whereof I sign this specification in the presence of two witnesses.

JOHN H. BURKHOLDER.

Witnesses:

P. E. COUNTRYMAN,
GEO. A. NICOL.