

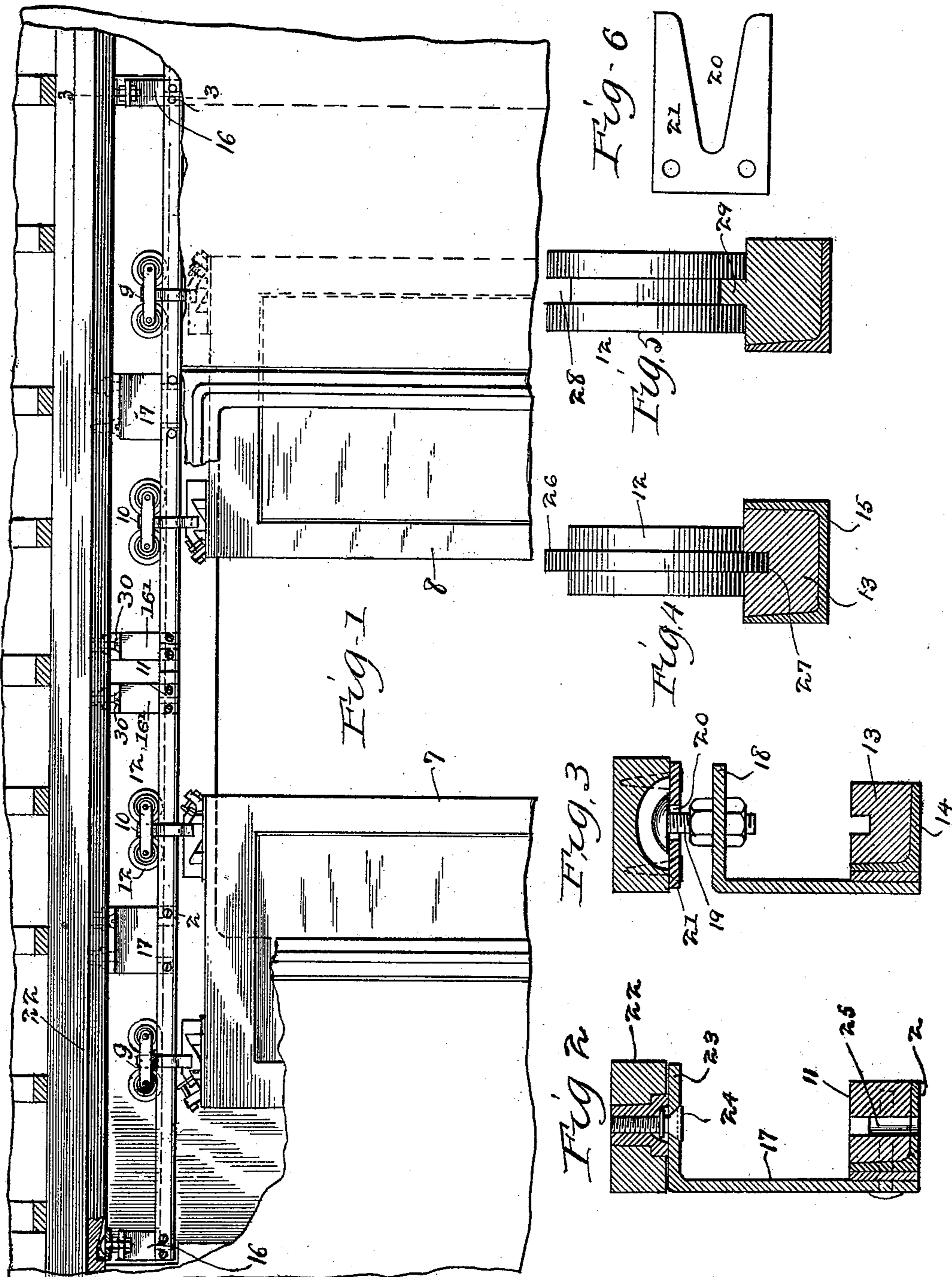
**No. 635,410.**

**Patented Oct. 24, 1899.**

**G. WIDEMAN.  
DOOR HANGER.**

(Application filed Aug. 17, 1898.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 635,410, dated October 24, 1899.

Application filed August 17, 1898. Serial No. 688,758. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAVUS WIDEMAN, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Door-Hangers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to door-hangers, and has for its object to provide certain improvements in the brackets by which the hanger-rail is supported by which the bracket may be used interchangeably either for right or left hand rails or at either side of a door-opening, to provide an improved track by which the movement of the hanger will be made smooth and noiseless and by which it will be prevented from becoming displaced, to provide improved means for adjusting the rail, and to provide certain other improvements, which will be hereinafter pointed out.

Referring to the accompanying drawings, Figure 1 is a view showing the general arrangement of the rail-brackets and the door-hangers. Fig. 2 is a vertical section on line 2 2 of Fig. 1. Fig. 3 is a section on line 3 3 of Fig. 1. Figs. 4 and 5 are views showing modifications of the track and hanger wheels, and Fig. 6 is a plan view of one of the end supports.

In the form of apparatus shown in the accompanying drawings, 7 and 8 indicate folding doors which are mounted upon hangers 9 10.

11 indicates the rails upon which the hanger-wheels 12 run. Each rail 11 consists of a strip 13 of wood or other equivalent material, said strip having an integral covering 14, of metal, which incloses a plurality of its sides. In Figs. 2, 3, and 5 I have shown the strip 13 as being inclosed on two sides by an angle-iron 14, and this form I prefer. In Fig. 4 I have shown the strip 13 as being fitted into a channel-bar 15, so that three of its sides are inclosed. The object of thus inclosing the strip 13 is to stiffen it and prevent its becoming warped, and it also adds rigidity to the entire apparatus.

Each rail is supported in the apparatus shown in Fig. 1 by three brackets, there being end brackets 16 16' and an intermediate

bracket 17. The end brackets 16 are bolted, riveted, or otherwise secured to the rail and are provided with horizontal ears or flanges 18, which extend over the track and carry bolts 19, which fit into forks 20 in plates 21 at one end, which are secured to a bar or header 22 or other permanent part of the structure in which the door-hanger is to be placed. The forks 20 open toward each other, so that the bolts 19 may be inserted by an endwise movement, the heads of the bolts lying above the plates 21, as shown in Fig. 3.

The intermediate brackets 17 are secured to the rails in any suitable manner and are provided with horizontal flanges or lugs 23, as shown in Fig. 2. The brackets 17 are secured to the bar or header 22 by screws 24, which pass through the ears 23 and are screwed into the bar 22, as shown in Fig. 2, a single screw being used for each bracket. As illustrated in Fig. 1, each bracket 17 is provided with two screw-holes arranged longitudinally with reference to each rail, the object of which is to permit the brackets to be used interchangeably either for right or left hand tracks or at either side of a door-opening.

In mounting the brackets 17 they are placed centrally over the sides of the door-openings, and the screw-holes of each bracket are placed at opposite sides of the center, so that the screw by which the bracket is secured in place may be placed in the screw-hole which projects beyond the side of the door-opening, and is therefore accessible, and as each bracket contains two screw-holes, which are at opposite sides of the center thereof, the bracket may be placed centrally over either side of the door-opening and one of its screw-holes will nevertheless be readily accessible, which would not be true were a single screw-hole alone provided placed centrally of the bracket.

In order to permit of the adjustment of the screws 24 to adjust the rails vertically, the rails are provided with passages 25, directly under and registering with the screws 24, so that a screw-driver may be inserted through such passages and the screws 24 adjusted without disarranging any parts of the apparatus. The brackets 16' are secured to the header 22 by screws 30, similar to the screws

24, and they are also provided with passages 25 for the adjustment of said screws.

In order to make the door-hanger run more smoothly and prevent its disarrangement and to guide it properly, the wheels 12 are provided with angular tongues or ribs 26, which run in a groove 27 in the rails, or, if desired, the wheels 12 may be provided with a peripheral groove 28, which receives a tongue 29, with which the rails are provided, as shown in Fig. 5.

Instead of using double wheels, as shown in the drawings, door-hangers having single wheels may be employed.

That which I claim as my invention, and desire to secure by Letters Patent, is—

1. In a single-track door-hanger, the combination with a rail, of a supporting-bracket therefor having a horizontal ear or flange, which extends over the rail and is provided with a plurality of screw-holes arranged longitudinally of said ear or flange, said rail provided with a plurality of passages registering with said screw-holes, whereby access through the rail may be had for securing the bracket in place by a single screw when said bracket is used at either side of a doorway, substantially as and for the purpose described.

2. In combination with a door-frame, a door-

hanger track, a supporting-bracket therefor having a horizontal flange extending over the rail, and provided with two screw-holes registering with two holes in the track, said bracket and track being located so that one pair of registering holes is accessible from the doorway and the other pair is covered by the door-frame, substantially as and for the purpose described.

3. In a mounting for door-hanger rails, the combination with a rail, of brackets 16, 16' at the ends thereof, said brackets 16 having bolts 19, plates 21 having forks 20 to receive said bolts, and an intermediate bracket 17 having a plurality of screw-holes arranged longitudinally of the rail, substantially as described.

4. In a mounting for door-hanger rails, the combination with a rail, of brackets 16, 16' at the ends thereof, said brackets 16 having bolts 19, plates 21 having forks 20 to receive said bolts, and an intermediate bracket 17 having a plurality of screw-holes arranged longitudinally of the rail, the rail having a passage directly below and registering with one of said screw-holes, substantially as described.

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