

(No Model.)

S. W. & O. G. HENGIST.  
DOOR HANGER.

No. 446,816.

Patented Feb. 17, 1891.

Fig. II.

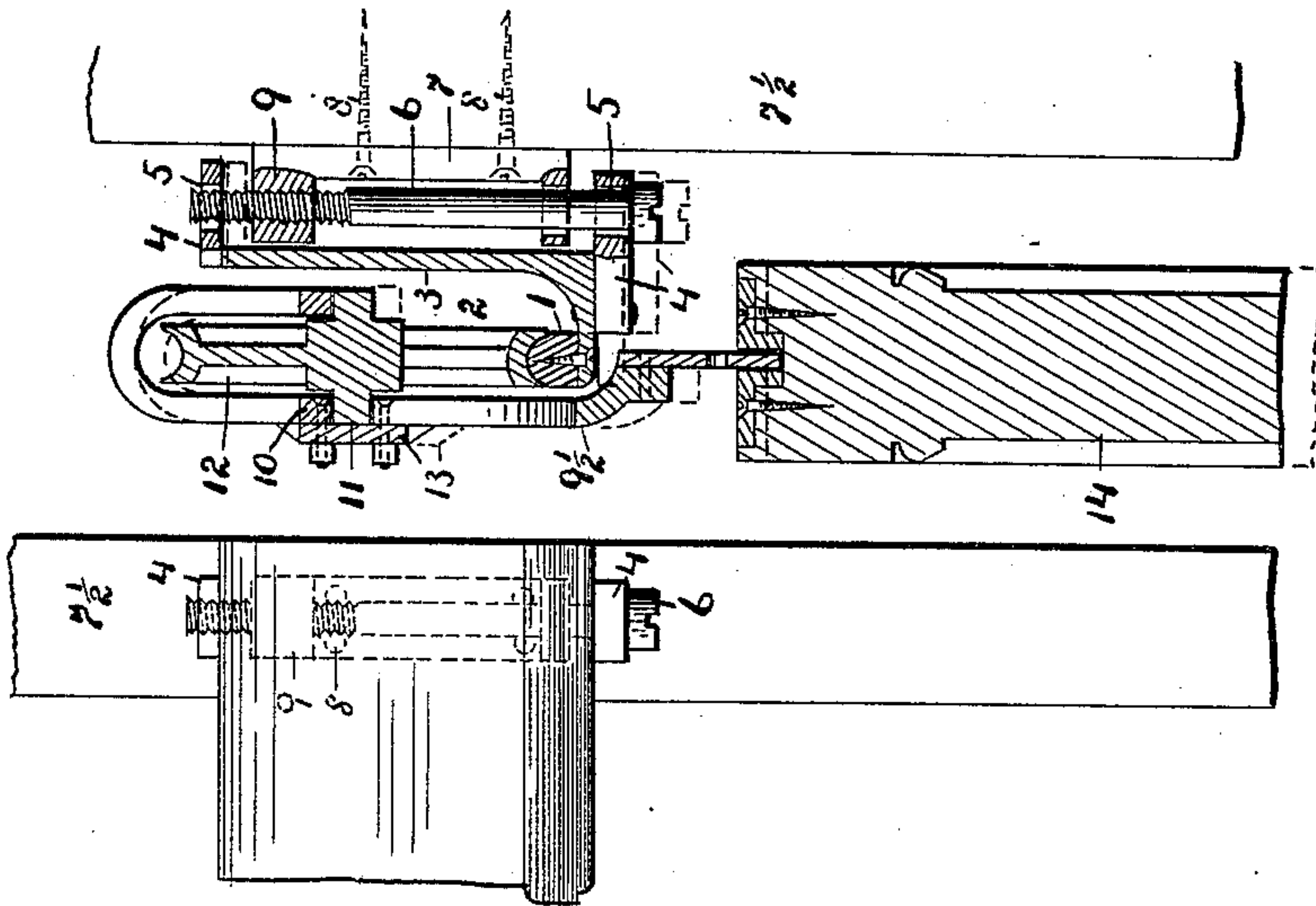
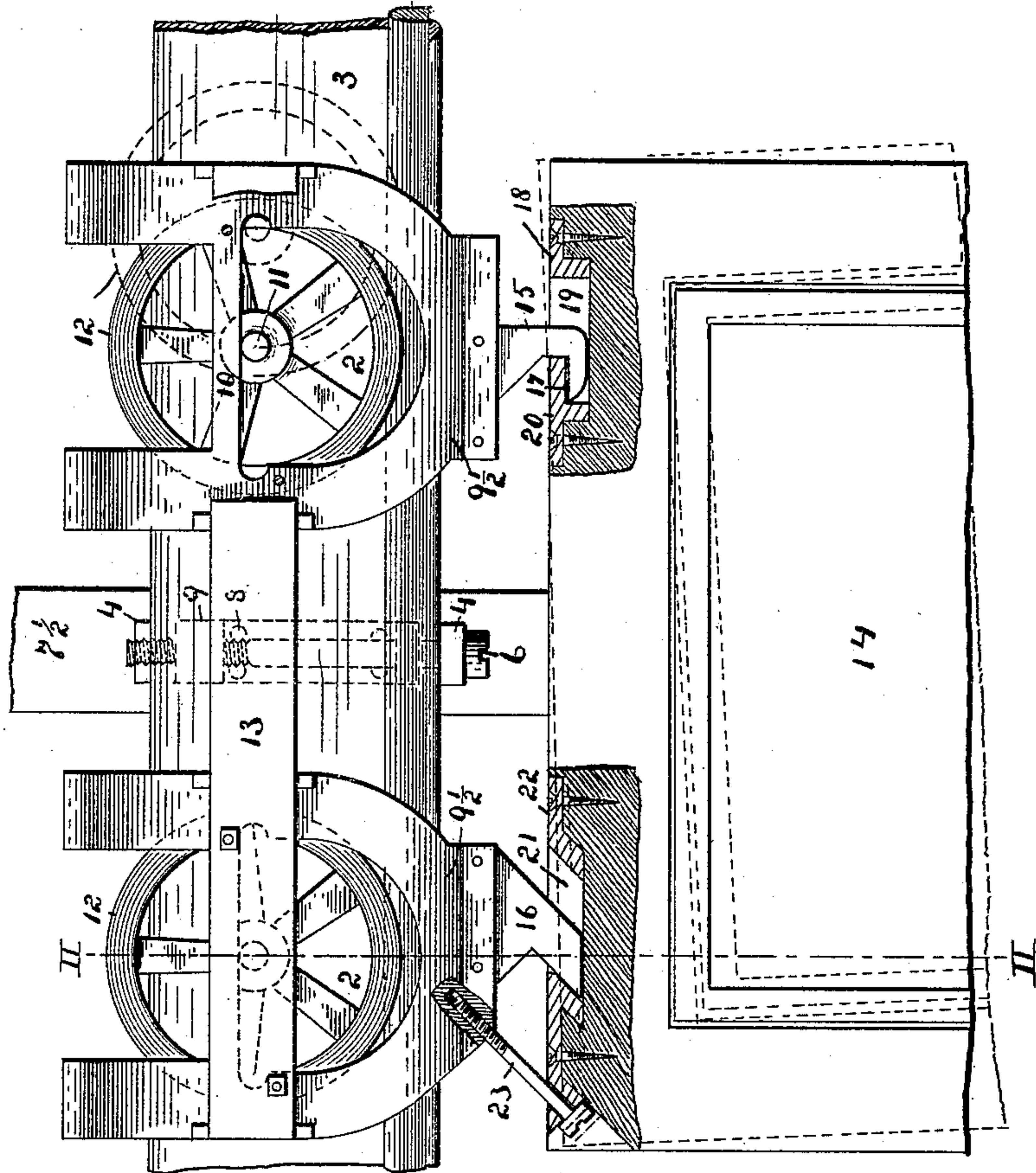


Fig. I.



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# UNITED STATES PATENT OFFICE.

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## DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 446,816, dated February 17, 1891.

Application filed April 12, 1890. Serial No. 347,701. (No model.)

*To all whom it may concern:*

Be it known that we, SAMUEL W. HENGIST and OETTING G. HENGIST, of Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Adjustable Door-Hangers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

Our invention relates to an adjustable door-hanger and track; and our invention consists in features of novelty hereinafter described, and pointed out in the claims.

Figure I is a side elevation of my improved hanger. Fig. II is a vertical section taken on line II II, Fig. I.

Referring to the drawings, 1 represents the track on which the hanger-wheels 2 travel. The track is secured to and supported by adjustable brackets 3. The brackets 3 are provided with rearwardly-extending lugs 4, one of said lugs being situated at the top of the brackets and the other situated at the bottom of the brackets. These lugs are provided with openings 5, in which screw-threaded bolts 6 engage. These bolts also engage in brackets 7, which may be attached to the studding  $7\frac{1}{2}$  by screws 8. The brackets 7 have a screw-threaded portion 9, in which the screw-threaded bolts 6 engage. Thus it will be seen that by manipulating the bolts 6 the brackets 3 may be raised and lowered and thus raise and lower the track on which the hanger-wheels travel, so that the door may be adjusted vertically.

$9\frac{1}{2}$  represents U-shaped hanger-frames having cross-pieces 10, which rest on the axles 11 of the pulleys or wheels 12, and form an anti-friction bearing for the same, permitting the wheels to travel between the upright portions of the hangers, as shown in dotted lines, Fig. I, and thus avoid friction.

13 represents a plate by which the U-shaped hanger-frames are rigidly connected to each other. This plate, being located in front of the bearing cross-pieces 10, strengthens the U-frames and forms a guard for the wheels, to prevent displacement when the door is jolted.

14 represents the door, which is adjustably secured to hooks 15 16, rigidly attached to the lower part of the hanger-frames  $9\frac{1}{2}$ . The hook 15 is formed with a right-angle extension 17, which engages a plate 18 set into the door, there being an opening 19 in the plate into which the hook may be inserted in suspending the door, and a projection 20 on the plate beneath which the hook 15 passes in order to support the door. The hook 16 is formed at an acute angle and engages in an opening 21 in a plate 22, also set into the door, said plate 22 having a bearing-surface for the hook constructed at an acute angle.

23 represents a set-screw, which engages the rear edge of the door and screws into one of the hanger-frames  $9\frac{1}{2}$ . By adjusting the screw 23 the door can always be kept in a perfectly upright position, the construction of the hooks by which the door is suspended permitting the rear edge of the door to be raised or lowered. (See dotted lines, Fig. I.)

We claim as our invention—

1. In a door-hanger, the combination of the track 1, adjustable bracket 3, to which the track is secured, stationary bracket 7, having a screw-threaded portion 9, and a bolt 6, engaging the screw-threaded portion 9, said bolt also engaging the bracket 3, whereby said bracket may be held at a fixed point or may be raised or lowered at will, substantially as described, and for the purpose set forth.

2. In a door-hanger, the combination of the door 14, plates 18 22 in said door, plate 18, having an extension 20, and plate 22, having a bearing-surface formed at an acute angle, hanger-frames  $9\frac{1}{2}$ , hooks 15 16 on said hanger-frames, hook 15, having an extension 17 formed at a right angle to the body of the hook, and hook 16, formed at an acute angle, substantially as described, and for the purpose set forth.

3. In a door-hanger, the combination, with the door 14, the independent hanger-frames  $9\frac{1}{2}$ , having rigid lower ends, and suitable means for moving the door on the hangers for adjustment, of the bracing guard-plate 13, rigidly connected to the hangers  $9\frac{1}{2}$  and maintaining them in fixed relation, substantially as described.

4. In a door-hanger, the combination of the independent hanger-frames 9 $\frac{1}{2}$ , pulleys 12 on which the hanger-frames rest, and independent means for securing the respective hanger-frames to the door, one of said frames being secured at a fixed point and the other being adjustable, whereby the vertical position of the door may be maintained by the adjustment of one hanger only, substantially in the manner set forth.

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