F. O. HANSON.

DOOR HANGER.

APPLICATION FILED JAN. 8, 1908.

925,176. Patented June 15, 1909.

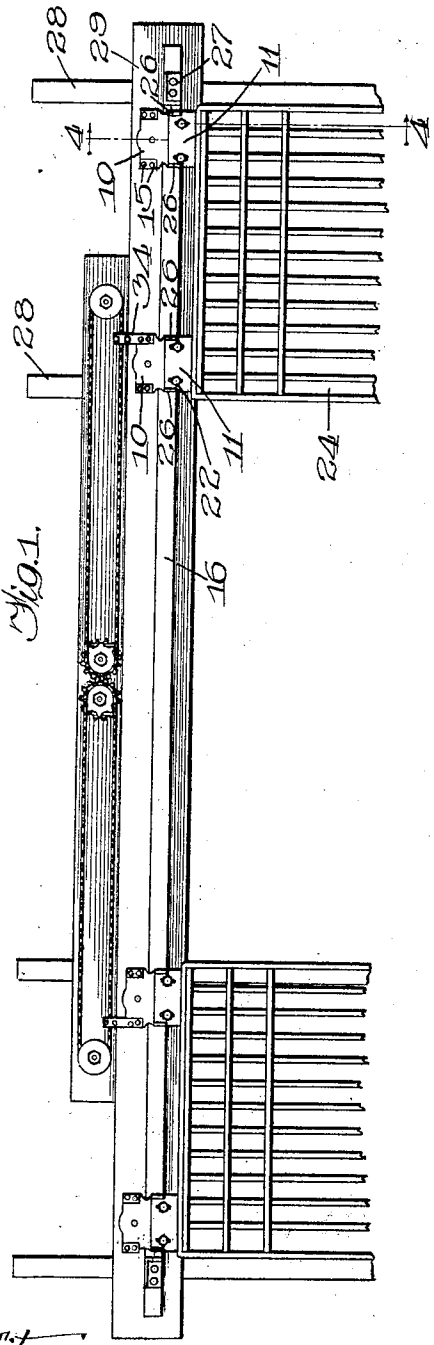


Fig. 1.

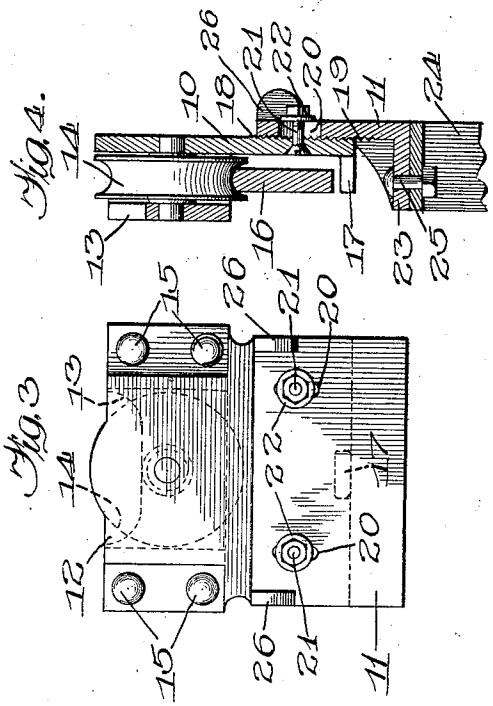


Fig. 4.

Fig. 3.

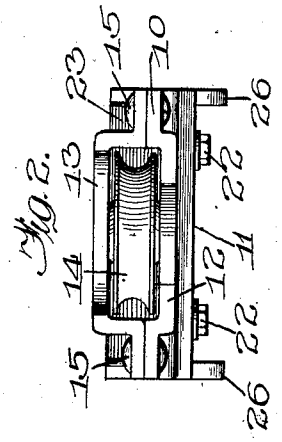


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS O. HANSON, OF INDIANAPOLIS, INDIANA.

DOOR-HANGER.

No. 925,176. Specification of Letters Patent. Patented June 15, 1909.

Application filed January 8, 1908. Serial No. 409,810.

To all whom it may concern:

Be it known that I, FRANCIS O. HANSON, a citizen of the United States, residing at Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Door-Hangers.

This invention relates to improvements in door hangers more particularly adapted for use with elevator doors and the like, and the primary object of the invention is to provide an improved, simple, durable and cheap hanger for the doors which may be readily applied and which is adapted to be easily adjusted whereby the doors may be raised or lowered with relation to the door opening without removing them after having been once hung.

A further object is to provide improved means for preventing the hanger from leaving the track, and a further object is to provide an improved bumper for the hanger.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawing illustrating an embodiment of the invention and in which—

Figure 1 is a detail elevation of an elevator door having hangers constructed in accordance with the principles of this invention applied thereto. Fig. 2 is a top plan view of one of the hangers. Fig. 3 is a side elevation of Fig. 2. Fig. 4 is a detail sectional view taken on line 4—4 of Fig. 1.

Referring more particularly to the drawing and in the present exemplification of the invention, the hanger proper comprises two sections 10 and 11. The section 10 constitutes the body portion of the hanger and is provided with an off set portion 12 adjacent the upper extremity thereof and intermediate its ends, and secured to the face of the member 10 adjacent the off set portion 12 is a member 13 which is provided with an off set portion intermediate its extremities and said off set portion is located adjacent the off set portion 12 to form a housing for a pulley 14. The member 13 may be secured to the member 10 in any desired or suitable manner preferably by means of bolts or rivets 15. The pulley 14 is located to one side of the member 10 and is adapted to rest and travel upon a suitable supporting track 16, and projecting laterally from the face of the member 10 is a lug or extension 17 which extends below the track 16 and serves as a means for preventing the hanger from jumping the track. The opposite face of the member 10 adjacent the lower extremity is provided with a series of grooves or corrugations 18, and one face of the upper extremity of the member 11 is provided with similar corrugations 19 adapted to engage the corrugations 18 when the members 10 and 11 are overlapped. One of the members, preferably the member 11, is provided with slots or apertures 20 adjacent the upper extremity thereof and passing through the other member are screws or bolts 21, which extend through the slots or apertures 20, and a nut 22 engages the free extremities of the screws or bolts for clamping the extremities of the members 10 and 11 together.

The member 11 is provided with a laterally projecting flange 23 which is preferably located so as to extend below the lug or projection 17 and the track 16 and this flange 23 serves as a means by which the section 11 of the hanger may be secured to the door 24. Any suitable fastening means may be provided for securing the door and hanger section together and in the present exemplification of the invention screws or bolts 25 are provided for this purpose.

Projecting laterally from the face of the member 11 preferably the face opposite to that from which the flange 23 extends and located adjacent the upper extremity thereof are ears or lugs 26 and secured to any suitable support, preferably the track 16, and adjacent the extremities thereof, are bumpers 27 which are arranged in the path of movement of the ears or lugs 26 when the hanger is moved upon the track 16, so that when the doors 24 are opened, the respective ear or lug 26 will engage the bumper 27 when the door reaches the limit of its movement to prevent the parts from being jarred.

With the improved construction it will be apparent that when the hanger is secured to the door and the pulley 14 placed upon the track 16, the overlapping members 10 and 11 may be adjusted with respect to each other to raise and lower the door with respect to the door opening and the entire hanger will be located substantially within the planes formed by the faces of the door, whereby a compact construction will be produced so that the hanger will not project beyond the

faces of the door. In order to adjust the members 10 and 11 with relation to each other, all that is necessary is to loosen the nuts 22 on the bolts 21 to permit one of the sections to be moved laterally with respect to the other to disengage the grooves or corrugations 18 and 19 thereon, after which one of the sections may be moved vertically with respect to the other to raise or lower the door, the slots 20 in one of the members permitting such adjustment. When the door has been properly adjusted, the two sections may be placed together again so that the grooves or corrugations 18 and 19 will intermesh and the nuts 22 may be tightened on the bolts 21 to secure the parts together.

In the present exemplification of the invention Fig. 1 shows in detail elevation the door opening of an elevator well or shaft including the spaced uprights 28, across which is secured a suitable support, such as a beam 29 or the like and to which the track 16 is secured and spaced therefrom in any desired or suitable manner, also the mechanism by which the door sections may be operated in unison, but the construction and operation of such mechanism forms no part of the present invention.

In order that the invention might be fully understood by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described but

What I claim as new and desire to secure by Letters Patent is—

In combination, a door, a hanger comprising separable members having overlapping portions, said members being adjustable with respect to each other, means for securing the members in their adjusted position, one of the said members being secured to the edge of the door and being provided with a lateral projection extending beyond one face thereof, a pulley journaled to the other member the entire hanger being located substantially within the planes formed by the faces of the door, a track upon which the pulley is adapted to travel, and a bumper arranged within the path of movement of the said projection and adapted to be engaged by the projection when the hanger has reached the limit of its travel in one direction, the said other member of the hanger being provided with a projection extending from one face thereof below the track for preventing displacement of the pulley with relation to the track.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 3rd day of January A. D. 1908.

FRANCIS O. HANSON.

Witnesses:

NANCY E. PENCE,

JOHN B. HARDEBECK.