A. WAGNER.

DOOR HANGER.

APPLICATION FILED NOV. 2, 1911.

**1,066,458.** Patented July 1, 1913.

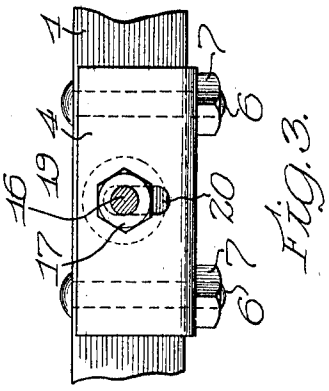


Fig. 3.

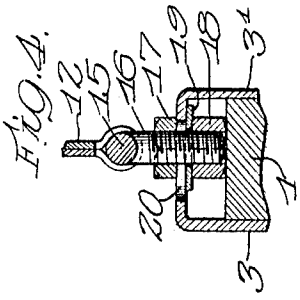


Fig. 4.

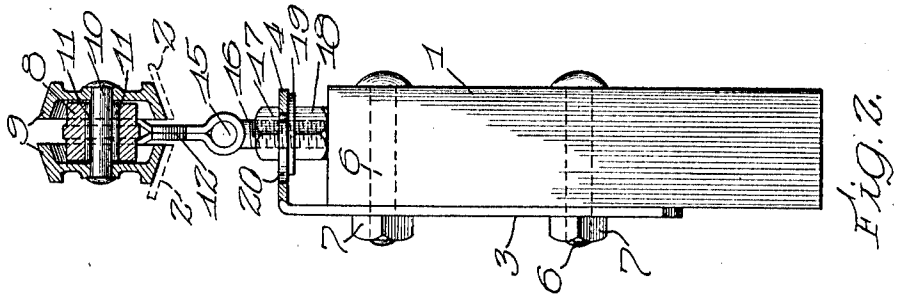


Fig. 2.

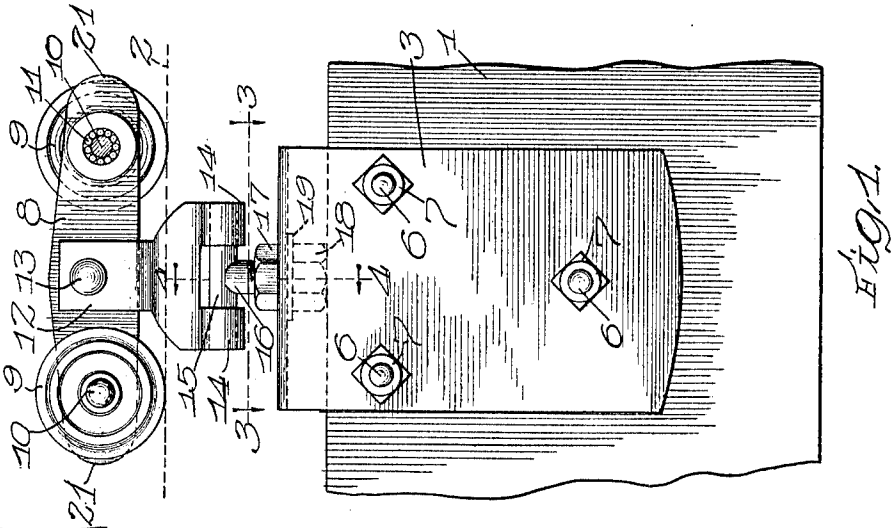


Fig. 1.

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# UNITED STATES PATENT OFFICE.

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## DOOR-HANGER.

1,066,458. Specification of Letters Patent. Patented July 1, 1913.

Application filed November 2, 1911. Serial No. 658,274.

*To all whom it may concern:*

Be it known that I, ADAM WAGNER, a citizen of the United States, residing at Cedar Falls, in the county of Blackhawk and State of Iowa, have invented certain new and useful Improvements in Door-Hangers, of which the following is a description.

My invention belongs to that general class of devices known as door hangers or the like and relates particularly to a door hanger for sliding doors, having among its objects the production of a simple and efficient device of this character which is so constructed, that the hanger and door may be readily and easily adjusted relatively to each other.

The present invention is in the nature of an improvement over the door hanger in my Letters Patent of the United States No. 962,538, issued June 28, 1910.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claim.

In the drawings, wherein like reference characters indicate like or corresponding parts, Figure 1 is a side elevation of my improved door hanger. Fig. 2 is an end elevation and partial sectional view of the same. Fig. 3 is a sectional view taken substantially on line 3, 3 of Fig. 1, and Fig. 4 is a vertical sectional view of a slightly modified form.

Referring to the drawings, only one hanger and a portion of the door are shown, it being understood that there may be any number of hangers, depending upon the size or weight of the door. In the preferred construction, the door 1 is carried by the hanger from a suitable track indicated by the dotted line marked with the reference character 2. The carriage is substantially similar to that shown and described in my patent previously mentioned, in which 8 is a bar which is carried by one or more wheels or rollers 9, 10 being suitable axles or pins and 11 roller bearings, which may be employed if desired. The bar 8 of the carriage is extended at one or both ends, as shown at 21, past the circumferential face of the wheels or rollers 9, so that the end, which may happen to be on the outside or at the edge of the door, depending upon which end of the door the particular hanger is on, will act as a buffer or stop when the door is opened or closed. By providing an extended end 21 for a buffer, the wheels are prevented from striking at the ends of the track, all shock being on the carriage and not on the wheels or their axles.

The door in the preferred construction is suspended from the carriage 8 in a manner to permit the lateral adjustment of the door. The construction shown comprises a strap or hanger 12 pivotally secured or supported at 13 from the carriage bar 8. Suspended from the looped ends 14 of the hanger 12 is a pin 15, or its equivalent, which carries a depending stem or bolt 16. The bolt 16 extends through a slot 20 in the extended end 4 of a door strap or hanger plate 3, which may be secured to the door in any desired way. As shown, the strap or plate 3 is secured to the door by bolts 6 and nuts 7, it being understood that any equivalent means may be employed for the purpose. The extended end 4 is secured to the bolt 16 by nuts 17 and 18, 19 being a washer, which may be used if desired.

In the modified construction shown in Fig. 4, the strap or door plate 3 is extended over as at $3^1$, the door being secured between the two legs 3 and $3^1$. The advantages of the lateral adjustment are obvious. Briefly, should the track sag or warp out of shape, the door warp or the building settle out of plumb, the door may be laterally adjusted so as to run free upon the tracks. To adjust the position of the door, the nut 17 may be turned off enough to permit the bolt to be moved in the slot 20 the desired direction, after which the nut may be turned down, it being unnecessary to unhang the door or remove any of the fittings from the carriage or door.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention, hence I do not wish to be understood as limiting myself to the exact form, construction or combination of parts herein shown and described, or uses mentioned.

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

A door hanger comprising a carriage, a depending hanger pivotally connected to said carriage, a door hanger strap provided with a portion extending laterally

from the upper end thereof and adapted to overlie the door when the strap is secured thereto, said laterally extending portion being provided with a transversely disposed slot therein, a bolt pivotally connected to the lower end of said depending hanger, and passing through the slot in the transversely extending portion of the strap, a nut in screw threaded engagement with said bolt at the under side of the said laterally extending portion of the hanger strap, a nut in screw threaded engagement with the bolt at the upper side of the said laterally extending portion of the hanger strap, said nut serving to provide a vertically and laterally adjustable connection between the said hanger strap and bolt, the nuts engaging the opposite sides of the laterally extending portion of the strap and rigidly connecting the bolt thereto.

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

ADAM WAGNER.

Witnesses:
W. L. MARCH,
W. C. WILSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."