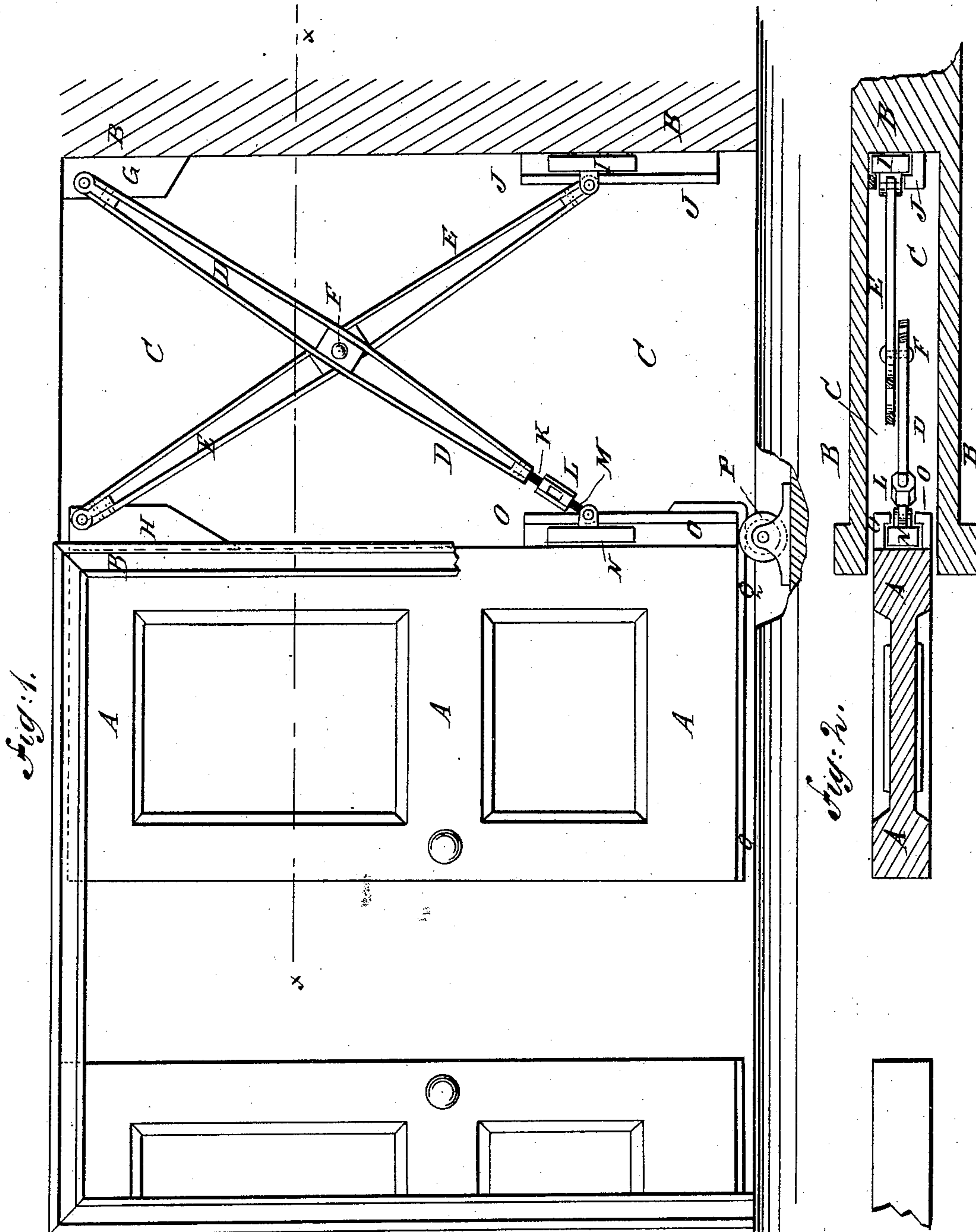


(No Model.)

J. ALLAN.
SLIDING DOOR HANGER.

No. 352,906.

Patented Nov. 23, 1886.



WITNESSES:

Chas. Nida
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INVENTOR:

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UNITED STATES PATENT OFFICE.

JAMES ALLAN, OF NEW YORK, N. Y.

SLIDING-DOOR HANGER.

SPECIFICATION forming part of Letters Patent No. 352,906, dated November 23, 1886.

Application filed March 9, 1886. Serial No. 194,572. (No model.)

To all whom it may concern:

Be it known that I, JAMES ALLAN, of the city, county, and State of New York, have invented a new and useful Improvement in Sliding-Door Hangers, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is an elevation of my improvement, part of the casing and of the floor being broken away. Fig. 2 is a sectional plan view of the same, taken through the line *x x*, Fig. 1.

The object of this invention is to provide hangers for sliding doors, by the use of which the said doors will be so supported that they can be opened and closed without coming in contact with the floor or the carpet placed upon the floor.

The invention consists in the construction and combination of various parts of the hangers, as will be hereinafter fully described.

A represents a sliding door, and B the casing, within which is formed the pocket C, that receives the said door when opened.

Within the casing B are placed two bars, D E, which are pivoted to each other at or near their centers by a bolt or rivet, F. The upper end of the bar D is pivoted to a block, G, or other support, secured to the casing B, or to a stud at the inner upper corner of the pocket C. The upper end of the bar E is pivoted to a block, H, or other support attached to the upper part of the rear edge of the door A. To the lower end of the bar E is pivoted a block, I, which slides up and down in a grooved guide block or way, J, attached to the casing B, or to a stud at the inner lower part of the pocket C. Upon the lower end of the bar D is formed, or to it is rigidly secured, a screw, K, upon which is screwed one end of a long right and left nut, L, the other end of which is screwed upon a screw, M. To the screw M is pivoted a block, N, which slides up and down in a grooved guide block or way, O, attached to the lower

part of the rear edge of the door A. One of the screws K M is made with a right screw-thread and the other with a left screw-thread, so that the bar D can be lengthened or shortened by turning the nut L in one or the other direction, so as to plumb the door should it sag. With this construction the door will be plumb when open, when closed, and when moving out or in; and will be supported above the floor, so that the carpet can be continued through the doorway without break.

P is a grooved pulley, pivoted to a support secured in a recess in the floor at or near the forward lower corner of the pocket C. To the lower edge of the door A is attached a tongue, Q, to enter the groove of the pulley P, so that the door will be made to move out and in in a straight line while being supported by the bars or hangers D E.

I am aware that it is not broadly new to support sliding doors by means of pivoted levers, and I therefore do not claim such invention.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In sliding doors, the combination, with the door A and casing B, provided with guide-ways O J, respectively, of the hanging bars D E, pivoted together at or about their centers, and having their upper ends pivoted to the door and casing, respectively, the bar D being adjustable in length, and the pivoted blocks I N, substantially as herein shown and described.

2. In folding doors, the combination, with the pivoted hanger D and its sliding block N, of the right and the left screws K M, and the long right and left nut L, substantially as herein shown and described, whereby the said hanger can be readily lengthened or shortened to plumb the door, as set forth.

JAMES ALLAN.

Witnesses:

JAMES T. GRAHAM,
EDGAR TATE.