

(No Model.)

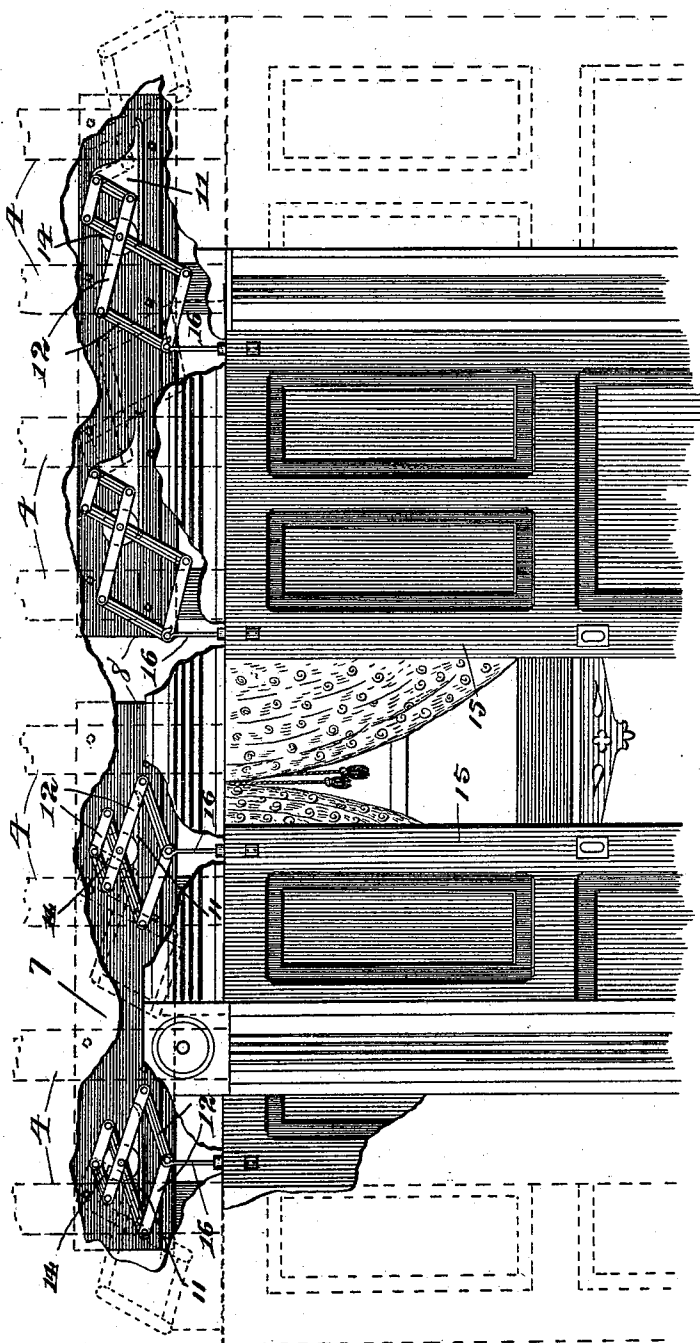
2 Sheets—Sheet 1.

J. R. PAYSON, Jr.
SLIDING DOOR SUPPORT.

No. 506,013.

Patented Oct. 3, 1893.

Fig. 1.



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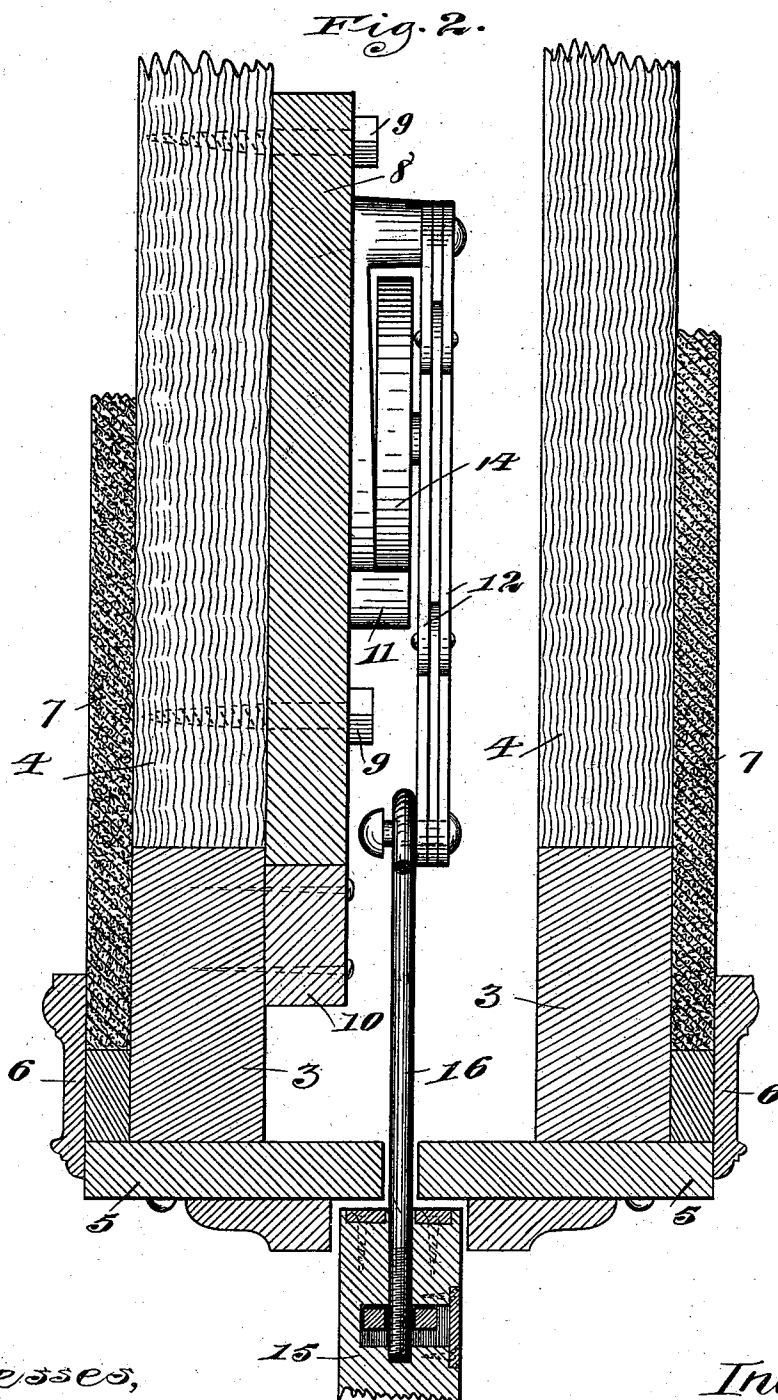
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UNITED STATES PATENT OFFICE.

JOSEPH R. PAYSON, JR., OF CHICAGO, ILLINOIS, ASSIGNOR TO EDWARD PAYSON, OF SAME PLACE.

SLIDING-DOOR SUPPORT.

SPECIFICATION forming part of Letters Patent No. 506,013, dated October 3, 1893.

Application filed February 20, 1893. Serial No. 463,132. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH R. PAYSON, JR., of Chicago, Illinois, have invented certain new and useful Improvements in Sliding-Door Supports, of which the following is a specification.

This invention relates to means for supporting sliding doors.

The invention is particularly adapted for use with that class of door hangers in which an extensible arm is employed having a traveling support adapted to work upon a short track plate. Two of these track plates are used for each door and they are located in the space between the studs, one above the pocket into which the door slides, and the other in the space above the door. A hanger of this class is shown in my Patent, No. 426,314, dated April 22, 1890, and is known in the trade as a "pendulum hanger." In putting up this pendulum hanger it is customary to employ what is termed a cross-board, which is a board secured in the space above the door and parallel to the top edge thereof. With hangers of the kind above mentioned, it is possible to employ a short cross-board, that is, one which is only a trifle longer than the width of the door over which it is used.

Prior to my invention there has been a radical defect in the operation of these devices, owing to the fact that it is impossible to reach the hanger located above the pocket when it gets out of level. Various devices have been proposed for the purpose of adjusting long tracks to compensate for settling and to preserve the parts in alignment, but nothing has heretofore been devised that will permit the hangers and their supports to be removed bodily and leveled, repaired or lubricated as occasion may require.

The object of the present invention is to provide a support for the hangers and track plates so constructed and arranged that whenever desired the support and its attached hangers and track plates may be removed bodily through the opening above the door after the removal of the soffits flanking the slot through which the supporting hooks pass. It is well known that re-adjustment of the hangers or their track plates often becomes necessary owing to the settling of the build-

ing and therefore some means for conveniently removing them for re-adjustment, lubricating, &c., are of the greatest importance. To this end I employ a removable cross-board to which the track plates are fastened and upon which plates the hanger supports travel. This cross-board is secured to the studs so as to prevent its being drawn laterally therefrom when in use by lag screws or equivalent fastenings which can be removed by a suitable instrument when it is desired to take out the cross board. The cross-board is vertically supported by a cleat which is fixedly secured to the studs and upon which the lower edge of the cross-board rests.

In the drawings, Figure 1 is an elevation, partly broken away, and parts showing in dotted lines, of a pair of sliding doors with their supports secured to the cross-board. Fig. 2 is a transverse section through the hanger space and a part of one of the doors, the hanger showing in edge view.

In the drawings, 3 represents the headers, 4 studs erected thereon, 5 soffits, 6 casings, and 7 the plaster.

8 represents a cross-board which is removably secured to the studs 4 by the lag screws 9 or equivalent fastenings. These screws are intended only for the purpose of preventing the board from being pulled laterally away from the studs when in use.

10 is a cleat which is fixedly secured to the header and forms a vertical bearing and support for the cross-board, and this cleat sustains the weight of the door and its hangers.

11 represents the track plates, and 12 the extensible arms of the hangers, which arms are pivoted to the upper angle of the track plate and have the movable or rolling support 14. The doors 15 are supported from the pivot of the lower arms by means of the hook bolts 16.

The operation of this hanger is fully described in my said prior patent and will be sufficiently obvious from an inspection of the drawings without detailed description.

The cross board is usually put in place during the erection of the building and when access can be had thereto. After being leveled the hangers are secured to the cross-board. Whenever it becomes necessary to reach the

hangers for re-adjustment, to replace a broken part, or for lubrication, the soffits are removed and the hook bolts disconnected. The lag screws are then removed, which can be readily effected with a long handled wrench and then the cross-board is moved side-wise until it clears its supporting cleat, when the cross-board and its attached hangers can be removed bodily through the opening. To permit the removal of the soffits without marring them, they are preferably secured upon the headers by means of the screws shown.

I claim—

1. In means for supporting sliding doors, the combination with a cross board removably secured above the door, of hangers secured to said board, and the cross board and hangers being adapted to be removed bodily through the opening, substantially as described.

2. In means for supporting sliding doors, the combination with a cross board remov-

ably secured above the door, of a cleat fixedly secured in position to form a vertical support for the cross board and hangers secured to the cross board, the latter being of less length than the hanger space above the door opening so as to adapt it to be bodily removed through the opening with its attached hangers, substantially as described.

3. In means for supporting sliding doors, the combination with a cross board removably secured above the door, of a cleat forming a vertical support therefor, track plates secured to the cross board and hangers having an extensible arm pivotally connected to the track plate and door and a movable or rolling support on the track plate, substantially as described.

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