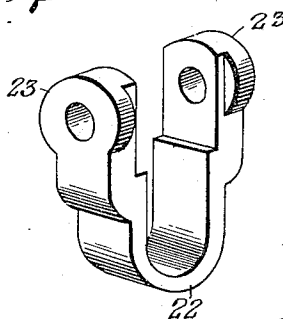
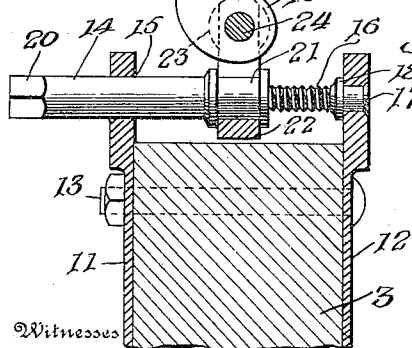
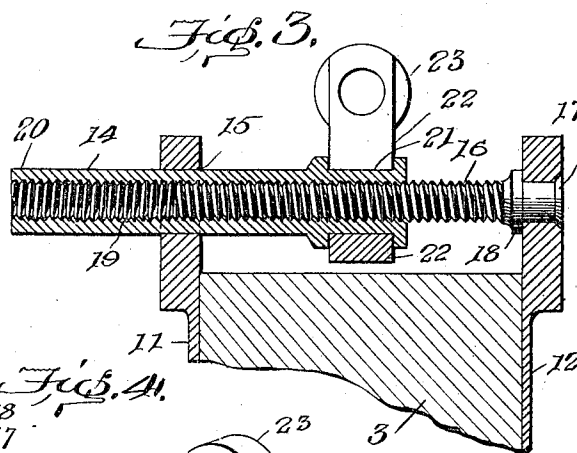
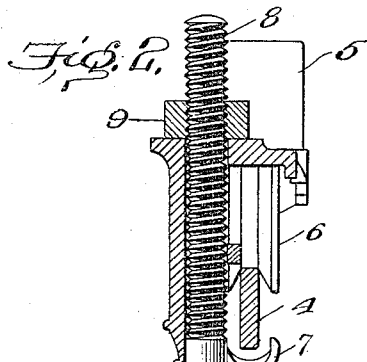
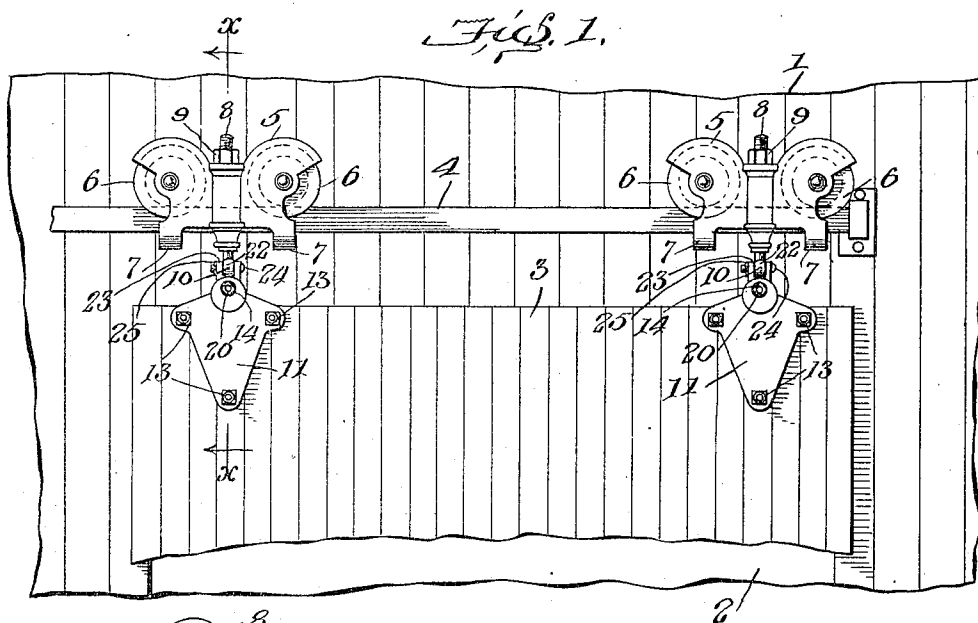


No. 839,621.

PATENTED DEC. 25, 1906.

P. A. MYERS.
DOOR HANGER.

APPLICATION FILED MAR. 12, 1906.



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UNITED STATES PATENT OFFICE.

PHILIP A. MYERS, OF ASHLAND, OHIO, ASSIGNOR TO F. E. MYERS AND BROTHER, OF ASHLAND, OHIO, A COPARTNERSHIP.

DOOR-HANGER.

No. 839,621.

Specification of Letters Patent.

Patented Dec. 25, 1906.

Application filed March 12, 1906. Serial No. 305,452.

To all whom it may concern:

Be it known that I, PHILIP A. MYERS, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Door-Hangers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to door-hangers, and more particularly to that class known as "sliding barn-door hangers," in which the door is uninclosed and preferably free to swing around an axis extending horizontally in the direction of travel of the door. Such structures comprise a track secured to and offset from the building, on which track travel hangers from which the door is suspended.

The object of my present invention is to provide a simple, strong, and efficient construction whereby the door may be adjusted laterally, so that it may be moved bodily toward and from the building, so as to bring it into proper position and cause it to travel in proper relation relatively thereto.

To these ends my invention consists in certain novel features which I will now proceed to describe and will then particularly point out in the claims.

In the accompanying drawings, Figure 1 is a view showing in elevation a structure embodying my invention in one form. Fig. 2 is an enlarged detail sectional view taken on the line *xx* of Fig. 1 and looking in the direction of the arrows. Fig. 3 is a view similar to Fig. 2 with the upper portion of the structure omitted and the adjusting-sleeve shown in full section, and Fig. 4 is a detail perspective view of the knuckle detached.

In the said drawings, 1 indicates a building having a doorway 2 and door 3.

4 indicates a suitable track located above the doorway, on which travel the door-hangers which support the door. Ordinarily there are two of these hangers, as shown, located one near each end of the door. These hangers as to their upper portion may be of any suitable construction, that shown being one set forth in an application filed by me of even date herewith. It comprises a wheel frame or support 5, having grooved track-wheels 6, a guide lug or guard 7, and a threaded vertically-adjustable member 8,

passing through an adjusting-nut 9 and having its lower end laterally deflected and terminating in an apertured lug 10, which when the parts are in their normal working position lies below and in the central vertical plane of the track, as shown in Fig. 2.

Referring now to the lower part of the hanger, it preferably comprises two separate plates 11 and 12, located on opposite sides of the door, secured thereto by bolts 13 or other suitable fastenings, and extending above the top of the door. In the upper end of one of these plates—for instance, the plate 11—there is mounted and supported an adjusting-sleeve 14, the same being arranged transversely with respect to the door and passing through an aperture 15 in its supporting-plate, through which it is longitudinally movable. This adjusting-sleeve is further supported by means of a supporting-pin 16, which latter is secured at one end to the other plate 12 and extends across the top of the door toward the plate 11, being preferably long enough when applied to a door of average thickness to extend somewhat beyond the inner face of the plate 11 and into the aperture 15 therein. The rod 16 may be secured to its plate in any suitable manner—as, for instance, by having its end passed through an aperture in said plate—the outer extremity of the pin being headed or riveted down against the outer face of the plate, as indicated at 17, while the pin is provided on the inner side of the plate with a fixed collar 18, which bears against the inner face of said plate. The adjusting-sleeve 14 is provided with a longitudinal aperture 19 to receive the supporting-pin 16, and said pin and aperture are threaded so that rotation of the adjusting-sleeve will cause it to move longitudinally in a direction transverse with respect to the door and track. To facilitate this rotation of the adjusting-sleeve, its outer end is formed into a wrench-grasp 20, or other provision is made to the same end. The sleeve 14 and pin 16 are made of sufficient length to permit the separate plates 11 and 12 to be applied to doors of different thickness, thus adapting the structure to a wide range of application.

The inner end of the adjusting-sleeve 14 has a circumferential groove 21, and this groove is engaged by a knuckle 22, supported from the top portion of the hanger. This knuckle is preferably in the form of a yoke or

bow, the lower portion of which fits the bottom and sides of the groove 21, while the upwardly-extending arms thereof terminate in apertured lugs 23, adapted to receive between them the apertured lug 10 of the upper portion of the hanger. A removable pivot-pin 24 passes through the lugs 23 and 10, said pin being secured in position by any suitable means—as, for instance, split pins 25.

It will be seen that the adjusting-sleeve is effectively supported throughout its length, so as to adapt it to properly support the weight of the door. It will also be seen that by rotating said sleeve in one direction or the other the door may be moved laterally with respect to the track and building, so as to bring said door into proper relation with the building and the doorway therein. The device therefore constitutes a simple, strong, and effective means for laterally adjusting the door.

I make no claim, broadly, in the present application to the subject-matter claimed in my other application of even date herewith comprising a lateral - adjustment device wherein are found an adjusting-sleeve supported by a door-plate through which it passes and by a supporting-pin from the other plate, over which pin it fits, said sleeve having a threaded connection with either one of its supporting members, my present invention being confined to the structure hereinbefore set forth, in which the adjusting-sleeve passes unthreaded through the supporting-plate and has a threaded connection with the supporting-pin. I wish it to be understood, however, that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

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

1. The combination, with a track, and a door, of a hanger comprising an upper portion and a lower portion, a track-wheel mounted on the upper portion, the lower portion being secured to the door and comprising

plates, a threaded supporting-pin carried by one of the plates and extending toward the other plate, an adjusting-sleeve passing loosely through said other plate and having threaded axial aperture to receive the supporting-pin, and a part supported from the upper portion of the hanger and engaging said adjusting-sleeve so as to move therewith transversely, substantially as described.

2. The combination, with a track, and a door, of a hanger comprising an upper portion and a lower portion, a track-wheel mounted on the upper portion, the lower portion being secured to the door and comprising plates, a threaded supporting-pin carried by one of the plates and extending toward the other plate, an adjusting-sleeve passing loosely through said other plate, having a threaded axial aperture to receive the supporting-pin, and provided with a circumferential groove at its inner end, and a knuckle-piece of yoke-like form engaging said groove and detachably pivoted to the upper portion of the hanger, substantially as described.

3. The combination, with a track, and a door, of a hanger comprising an upper portion and a lower portion, a track-wheel mounted on the upper portion, the lower portion comprising separate plates secured to the sides of the door, a threaded supporting-pin carried by one of the plates and extending toward the other plate, said pin being of greater length than the distance between said plates, an adjusting-sleeve threaded internally to receive said pin passing loosely through said other plate, said sleeve having a length greater than the length of said pin, and a part engaging said adjusting-sleeve, movable transversely thereby to adjust the position of the door and supported from the upper portion of the hanger, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

PHILIP A. MYERS.

Witnesses:

F. B. KELLOGG,
MILTON G. MILLER.