(No Model.)

J. BRAUN.

DOOR HANGER.

No. 332,185. Patented Dec. 8, 1885.

Fig. 1.

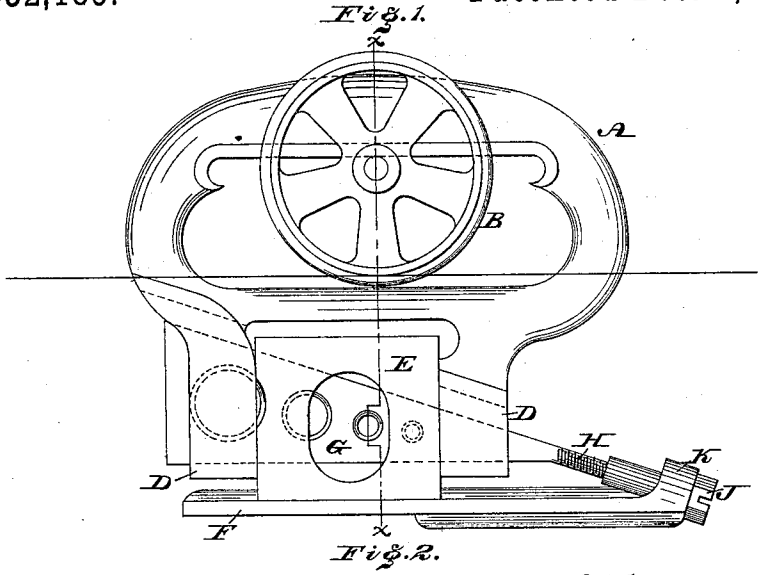


Fig. 2.

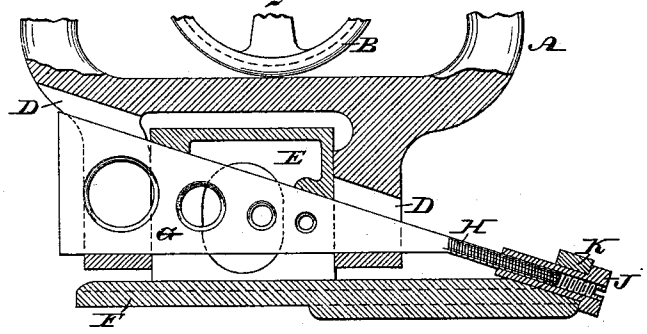
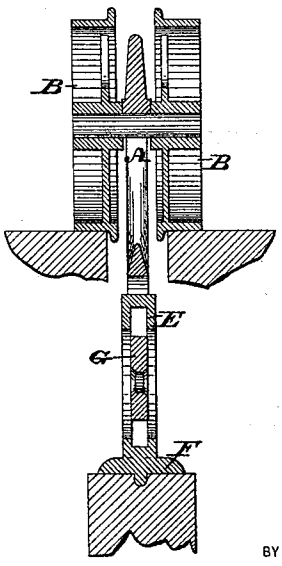


Fig. 3.



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JOHN BRAUN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE AMERICAN MANUFACTURING COMPANY, OF SAME PLACE.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 332,185, dated December 8, 1885.

Application filed September 26, 1885. Serial No. 178,279. (No model.)

To all whom it may concern:

Be it known that I, JOHN BRAUN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Door-Hangers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a front view of a door-hanger embodying my invention. Fig. 2 represents a view of a portion of Fig. 1 with certain parts broken away. Fig. 3 represents a vertical section in line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a door-hanger provided with means whereby the door may be readily adjusted in setting up and when sagging.

It also consists of the construction of the hanger whereby strain is materially removed from the screw employed to adjust the same.

It also consists of the construction of the hanger whereby the sheave or pulley is prevented from displacement from the frame of the hanger.

Referring to the drawings, A represents a frame, and B represents sheaves or flanged pulleys whose axle rolls on the upper wall of the opening of said frame, said sheaves running on tracks, as usual.

Depending from and connected with the frame A are boxes D, between which is fitted a rising and falling box, E, the latter being cast with or secured to a plate, F, which, by means of screws or other suitable devices, is attached to a door. The boxes D E are open on their sides, and the upper wall of the opening of the box E extends in inclined direction, and through said boxes is passed a wedge or wedge-shaped piece, G, which, as will be seen, connects the boxes with each other, and consequently the frame A with the plate F, said wedge bearing against the inclined wall of the box E, so that as the wedge is moved said box is raised or lowered, as the case may be, the motion being imparted to the door.

In order to move or operate the wedge, its point or shank H is threaded, and on the same is fitted a nut, J, which is passed through a boss, K, on the end of the plate F, the nut being extended to form a sleeve, which rotates within the boss and prevents contact of the threads of the shank H with the interior of said boss. It will be seen that when the sheaves are properly placed on the tracks and the plate F is secured to the door the latter is reliably suspended or hung in position, and may be moved with ease. Should it be desired to raise or lower the door for any purpose, whether for primarily adjusting the same or in case of sagging or otherwise, the nut J is properly rotated, whereby the wedge is moved out or in from the boxes, the effect of which is communicated to the box E, and the latter is accordingly raised or lowered, and with it the plate F and the door. As the upper edge of the wedge bears against the wall of the inner openings of the box E, the weight of the door is received in the main by the wedge, thus relieving the screw or screw-shank H and nut J of material strain. Again, as the box E closes the space between the boxes D just below the center of the frame A, the sheaves are prevented from tilting in transverse directions, and thus leaving the frame A, it being noticed that said box E acts as a stop against which the sheaves abut when lowered, and prevents removal of the sheaves through the openings of the frame. When the box E is lowered to considerable extent or entirely removed, a space exists between the boxes D, which, when the sheaves are lowered, permits the peripheries thereof that are below to be moved outwardly or inwardly to some extent, whereby the opposite or upper parts of the peripheries clear the top wall of the opening of the frame, and thus the sheaves may be fully withdrawn from the frame.

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

1. A door-hanger having a frame with fixed boxes, a rising and falling box, a door-plate connected with the latter, and a movable wedge, said wedge passing through the several boxes and having its upper edge bearing against the movable box, substantially as described.

2. A frame with fixed boxes, a plate attachable to a door connected with a rising and

falling box, and a movable wedge passing through the several boxes and bearing against the movable box, said plate having a boss, and said wedge a threaded end or shank on which is fitted an adjusting-nut, which bears against the boss, substantially as and for the purpose set forth.

3. In a door-hanger, a frame having depending boxes fixed thereto, a rising and falling box, and means for moving the latter, said box being connected with the door-plate and located between the fixed boxes, whereby the space below the frame is closed and the displacement of the sheaves thereby prevented, substantially as described.

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