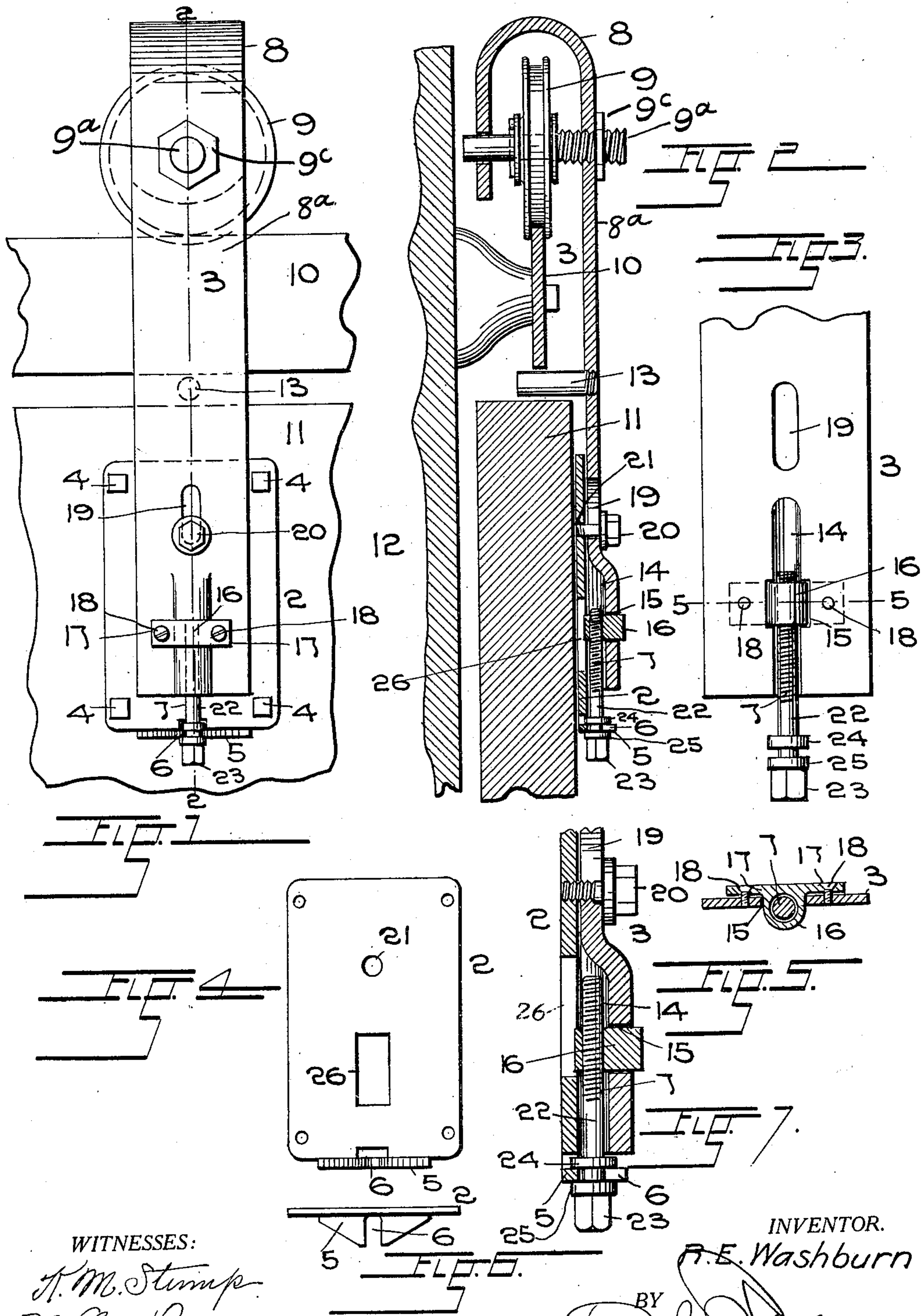


No. 890,950.

PATENTED JUNE 16, 1908.

R. E. WASHBURN.  
HANGER FOR SLIDING DOORS.  
APPLICATION FILED SEPT. 19, 1907.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

RICHARD E. WASHBURN, OF DENVER, COLORADO.

## HANGER FOR SLIDING DOORS.

No. 890,950.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed September 19, 1907. Serial No. 393,666.

*To all whom it may concern:*

Be it known that I, RICHARD E. WASHBURN, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Hangers for Sliding Doors, of which the following is a specification.

My invention relates to hangers for use on overhung sliding doors such as employed on barns, warehouses, freight cars, etc., or in large stores and public buildings to close the openings between adjoining apartments.

The object of my invention is to provide a hanger which while being firmly secured to the door which it sustains, allows of a limited vertical adjustment of the latter's position in relation to the point of suspension. I attain this object by the mechanism illustrated in the accompanying drawings in the various views of which like parts are similarly designated and in which

Figure 1—represents a face view of the device in operative position on a sliding door, Fig. 2—a longitudinal section taken along a line 2—2, Fig. 1, Fig. 3—an inside view of the lower portion of the suspension member of the device, Fig. 4—a front or face view of the member which is secured to the door, Fig. 6—a top view thereof, Fig. 5—a transverse section taken along the line 5—5, Fig. 3, and Fig. 7—an enlarged sectional view of the lower portions of the assembled members.

The device comprises two coöperative members 2 and 3, the former of which consists of a plate adapted to be secured to the door by means of a plurality of bolts or screws 4. The plate is provided at its lower edge with an outwardly ranging projection or flange 5, bent at right angles to the main body and provided with a central, transverse slot 6, extending from its outer edge for the reception of the shank of a bolt 7 which is applied to the lower end of the suspension member 3.

The latter consists of a strap, the upper extremity 8 of which is bent into a hook to form a bearing for a double flanged, roller 9 which, in practice, engages the upper edge of a track plate 10 from which the door 11 is suspended and which is rigidly secured to the wall 12 of the building. The roller 9 is revolvably mounted upon a shaft 9<sup>a</sup>, which is longitudinally movably supported in axially aligned openings in the hook member 8 and

whose forward portion is formed with a screw thread for the reception of a nut 9<sup>c</sup> which engages the outer face of the downwardly extending strap 8<sup>a</sup>. By manipulation of the nut, the roller 9 may be adjusted laterally to bring the door in parallel relation to the wall. An inwardly projecting pin 13 on the strap, below the roller 9, prevents accidental derailment of the latter by vertical displacement.

The lower extremity of the member 3 has in its inner face, a central longitudinal depression 14 which extends from its lowermost edge, and an aperture 15 opening into the said depression through which projects a nut 16, the outwardly extending flanges 17 of which engage the outer surface of the strap and are rigidly secured thereto by screws or bolts 18. The member 3 is furthermore provided with a slot 19 extending in longitudinal alinement with and above the depression 14, and through which passes a set screw 20, the threaded portion of which is screwed into a coöperatively tapped aperture 21 in the plate 2, while its head engages the outer surface of the suspension strap with the object of maintaining the latter in its adjusted position in relation to the door member 2.

The hereinbefore mentioned adjusting bolt 7 is, in practice, disposed within the depression 14 of the member 3, its threaded end projecting through the coöperatively tapped nut 16, while its opposite headed extremity projects below the lower edge of the strap. The portion of its shank 22, adjoining the head 23, is formed with two integral collars 24 and 25, the distance between which slightly exceeds the thickness of the slotted flange 5, on the member 2 and which when the two members are assembled, respectively engage the latter's upper and lower surfaces while the intermediate portion of the shank 22 occupies the slot 6.

The member 2 is provided with an opening 26 into which the innermost portion of the nut 16 projects. After the member 2 has been secured to the door, in suitable proximity to its upper edge, the lower end of the suspension member 3 is attached thereto by inserting the shank 22 of the bolt 7 in the slot 6 in the manner hereinbefore described, after which the two parts are rigidly connected by means of the set bolt 20.

When the door 11 is suspended from the track 10 through instrumentality of the roller 9, its position in relation to the floor of



the building or to the plate 10 may readily be adjusted by loosening the bolt 20 and subsequently turning the adjustable bolt 7 whose lower extremity is rotatably held in fixed relation to the member 2 on the door 11 and which as it advances through the stationary nut 16 on the member 3, causes the member 2 and with it the door 11, to move vertically towards or away from the point of suspension.

Having thus described my invention what I claim is:—

1. A hanger for sliding doors comprising a member adapted to be secured to a door, and having a bolt-seat upon its lower portion, an adjusting bolt rotatably supported upon the said seat and laterally detachable therefrom, said bolt being constructed to be held against longitudinal movement thereon, a suspension strap having upon its inner face a nut tapped to receive the threaded portion of the

said bolt and means to secure the said strap upon the said member.

2. A hanger for sliding doors comprising a plate adapted to be secured to a door and having at its lower portion outwardly spaced projections, an adjusting bolt rotatably seated in the space formed by the said projections and laterally detachable therefrom, said bolt being constructed to be held against longitudinal movement therein, a suspension strap having upon its inner face a nut tapped to receive the threaded portion of the said bolt and a set bolt projecting through a slot in the strap and into a threaded aperture in the plate.

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

RICHARD E. WASHBURN.

Witnesses:

G. J. ROLLANDET,  
A. M. STUMP.