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F. TETZLAFF

SLIDING DOOR SUPPORT

Filed June 22, 1922

Fig. 1,

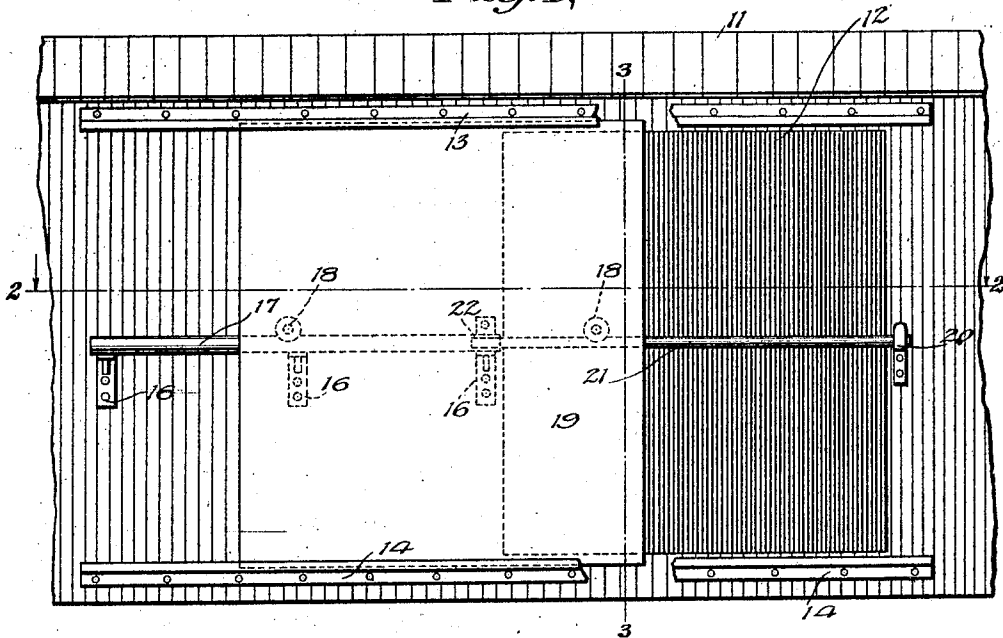


Fig. 2,

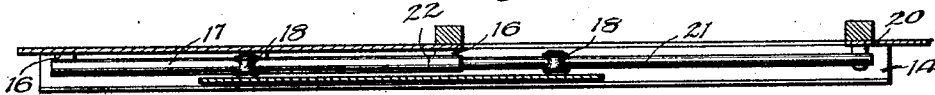


Fig. 3,

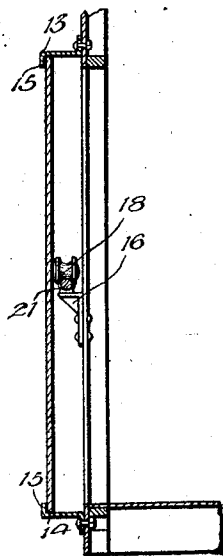
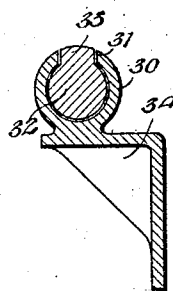


Fig. 4,



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SLIDING-DOOR SUPPORT.

Application filed June 22, 1922. Serial No. 570,164.

To all whom it may concern:

Be it known that I, FRANK TETZLAFF, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Sliding-Door Support, of which the following is a full, clear, and exact description.

The present invention relates to sliding door supports adapted for use in connection with barges, freight cars, and the like.

It is one of the objects of the invention to provide a new and improved sliding door support in which a portion of the support is movable with respect to the door opening in order that it may be positioned thereacross to support the door in closed position and removed from the door opening when the door is in open position.

It is a further object of the invention to so construct the door support that one portion thereof is telescopically received within another portion thereof.

With the above and other objects in view, reference is had to the accompanying drawings, in which—

Figure 1 is a view in elevation of a tool constructed in accordance with the present invention;

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is a detail sectional view of a slightly modified form of the invention.

Referring more particularly to the drawings, the reference character 11 represents the side wall of a barge, freight car, or other similar structure, and said side wall is provided with a door opening 12. Extending along the upper edge of the door opening 12 is a track 13, and a second track 14 extends along the lower edge of said door opening 12. These tracks 13 and 14 are each substantially right-angular members and each member is provided with a flange 15 to prevent outward movement of the door.

Carried by the side wall of the barge or car is a plurality of brackets 16, and mounted on said brackets 16 is a tubular member 17. This tubular member 17 is adapted to form a track which is engaged by a plurality of

rollers 18 carried by the rear of the door 19, said rollers resting on said track.

Secured to the opposite side of the door opening 12 is a bracket 20, and said bracket 20 is adapted to receive a track member 21, as indicated by the reference character 22. The opposite end of this track member 21 is adapted to be received in the end of the tubular member 17, thus providing a support at one end which constitutes the tubular member and a support at the other end which comprises the brackets 20.

The device operates in the following manner:

With the door in the open position, the track member 21 may be moved inwardly of the tubular member 17 in order that the door opening 12 will not be obstructed. When it is desired to close the door, the track member 21 is partially withdrawn from the tubular member 17 and its free end is engaged with the bracket 20. With the parts in this position the door is moved to close the opening 12, the rollers 18 moving along the tubular member 17 and the track member 21 until the door moves to closed position.

When it is desired to open the door, the door is moved to the open position, the rollers 18 traveling on the tubular member 17 until the door opening is entirely uncovered. After this has been done, the track member 21 is inserted into the tubular member 17 in order that the door opening may be unobstructed.

In that form of the invention shown in Fig. 1, the reference character 30 designates a tubular member and said tubular member is provided on its upper face with a slot or cut-out portion 31. The track member is designated by the reference character 32, and said track member 32 has a projecting rib 33 adapted to lie in the notch or cut-out portion 31 of the tubular member 30, with its outer surface flush with the outer surface of the tubular member 30.

In this form of the invention the tubular member 30 is carried by brackets 34 adapted to be secured to the side of the barge or car.

From the foregoing it is apparent that the present invention provides a new and improved support for sliding doors, which is

simple in construction, and, at the same time, permits of readily moving the door to open and closed position, and further leaves the door opening unobstructed when the door is
5 in open position.

What is claimed is:

1. A sliding door support comprising a rigidly supported tubular member for supporting the door in open position, a rigid
10 member slidably mounted in said tubular member and adapted to be withdrawn therefrom and bridged across the door opening to support the door in closed position, and means for supporting said rigid member
15 across the door opening.

2. A sliding door support comprising in combination with a door opening, a tubular member rigidly supported on one side of the door opening, a door, a plurality of rollers carried by said door and adapted
20 to move on said tubular member, a rigid member adapted for telescopic movement within the tubular member when the door is in the open position, said rigid member being adapted to bridge the door opening to
25 support the door in closed position, and means for supporting the free end of said rigid member.

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