

A. VOIGT.
MOUNTING FOR SLIDING DOORS.
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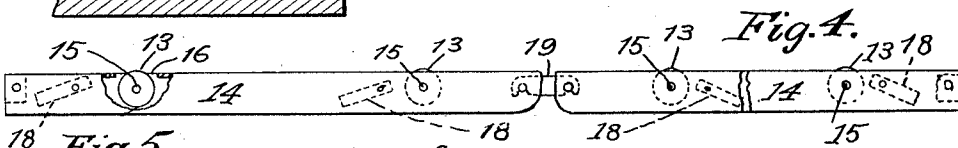
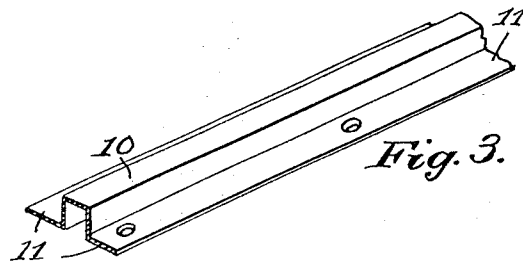
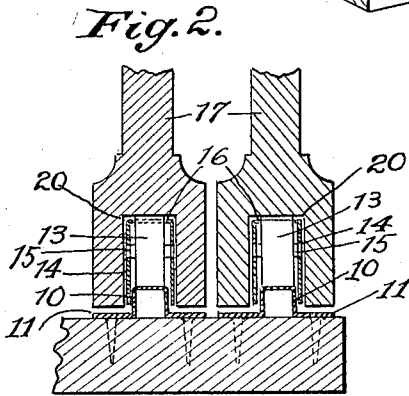
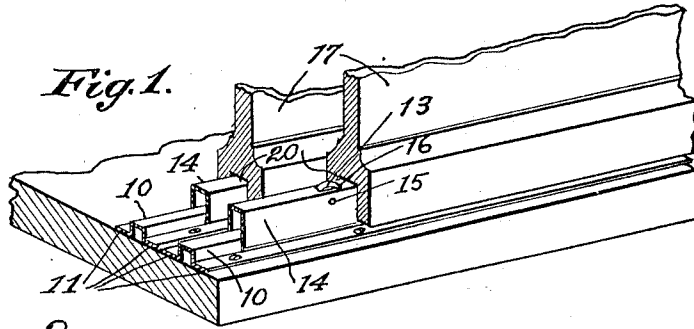


Fig. 5.

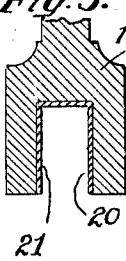
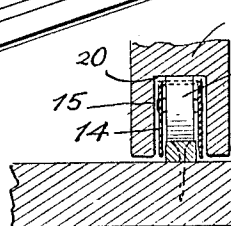
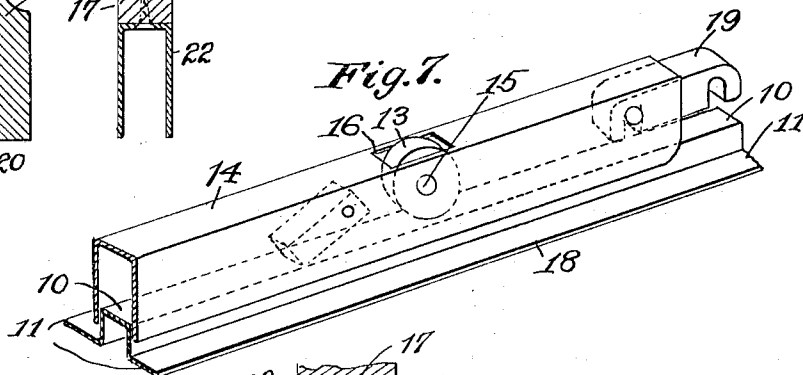
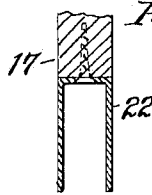


Fig. 6.



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UNITED STATES PATENT OFFICE.

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MOUNTING FOR SLIDING DOORS.

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To all whom it may concern:

Be it known that I, ALBERT VOIGT, a citizen of the United States, residing in the borough of Brooklyn, in the county of Kings, city and State of New York, have invented new and useful Improvements in Mounting for Sliding Doors, of which the following is a specification.

This invention relates to show or wall cases and the like, and particularly to the mounting of sliding doors in which the doors are supported upon a series of rollers.

In the mounting for sliding doors of this type as heretofore constructed, it has been the custom to provide a runway in the form of channels or grooves in the base of the case with a series of rollers and a roller carriage, as well as the door, engaging in such runway. As thus constructed dirt and other foreign substances accumulate in the runway clogging it up and interfering with the easy action of the doors.

It is the object of the present invention to overcome the above disadvantages, and for this purpose I provide the base with a track or rail upon which a series of rollers run and upon which the door is supported, the rollers being carried by a sectional carriage embracing the sides of the track or rail to prevent lateral movement of the roller and carriage relative to the track, this construction of carriage also providing a housing or covering for the track and preventing the accumulation of dirt and the like thereon. The door may also be provided with a longitudinal channel, the rollers engaging with the bottom of the channel to support the door and the sides of the channel embracing the sides of the roller carriage and track serving as a covering therefor and also preventing lateral movement of the door relatively to the carriage and track.

In the drawings accompanying and forming a part of this specification Figure 1 is a perspective view, partly in section, of a portion of a case with a pair of sliding doors, illustrating an embodiment of my invention. Fig. 2 is a sectional end elevation illustrating one manner of constructing the track or rail and the supporting of the doors upon the rollers. Fig. 3 is a perspective view of a portion of the track or rail shown in Figs. 1 and 2. Fig. 4 is a side elevation of the roller carriage. Figs. 5 and 6 are modified forms of constructions of doors. Fig. 7 is a perspective view of a portion of

the track shown in Fig. 3, and a roller and its carriage in operative connection therewith; and Fig. 8 is a sectional end view illustrating a modified form of track or rail.

Similar characters of reference designate like parts throughout the different views of the drawings.

In the drawings I have illustrated my invention in connection with the mounting of sliding doors for show or wall cases and have shown only so much of a case as is essential to an understanding of the invention.

In Figs. 1 and 2, the base of the case is provided with a pair of parallel tracks or rails 10, 10, of sheet metal bent up in channel section and having laterally projecting portions 11, 11 to rest upon the base and to which they are secured, as by means of screws passing through said portions and engaging in the base.

A series of rollers 13, carried and separated by a carriage 14, are adapted to run upon the tracks and upon which a pair of sliding doors 17, 17 are supported to slide one relatively to the other. The roller carriage consists preferably of a metal strip channel shaped in cross section with the open side toward the bottom, the rollers 13 being supported upon transverse pins 15 to project through openings 16. The sides of the carriage are of such length as to extend below the rollers and embrace the sides of the track to prevent the access of dirt and other foreign substances to the track, and also to prevent lateral movement of the roller and carriage relatively to the tracks.

Wipers 18 pivotally supported within the carriage normally rest upon the tracks, and as the roller carriage moves to and fro remove any obstruction which may be in the path of the rollers. The roller carriage is preferably constructed in sections connected together by coupling members 19 having hooked portions to engage over pins extending transversely of the carriage.

The doors 17 are provided in the bottom edge with a longitudinal groove 20 preferably of channel section, the bottom of the channel resting upon the rollers to support the doors with the sides embracing the sides of the roller carriage and track, thus preventing the access of dirt and other foreign substances to the carriage and track and also preventing lateral movement of the door relative to the carriage and track.

In Fig. 5 the door channel 20 is shown as

having a metal lining 21, and while this is not absolutely essential in some instances it may be found desirable. Instead of providing the doors with the channel 20 a metal member of channel section may be secured to the bottom edge of the door, as shown at 22, Fig. 6.

10 Instead of the tracks or rails being constructed of sheet metal bent up in channel section, they may be made of solid metal or wood and fixed to the base of the case, as shown in Fig. 8.

Variations may be resorted to within the scope of my invention.

15 Having thus described my invention, I claim:

20 A mounting for sliding doors for show or wall cases, comprising in combination with the base of the case; a rail secured to said base; a series of rollers to run upon the rail; a roller carriage channel shaped in cross sec-

tion with the open side thereof at the bottom, said carriage having openings in the top; pins extending transversely of the carriage upon which the rollers are mounted so as to project slightly through the openings; the sides of the carriage embracing the sides of the rail to prevent access of dirt to the rail and lateral movement of the rollers and carriage relative to the rail; and a door having a longitudinal channel in the bottom edge, the rollers engaging with the bottom of said channel to support the door, and the sides of the channel embracing the sides of the carriage and rail to prevent access of dirt to the latter and lateral movement of the door relative to the carriage and rail.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."