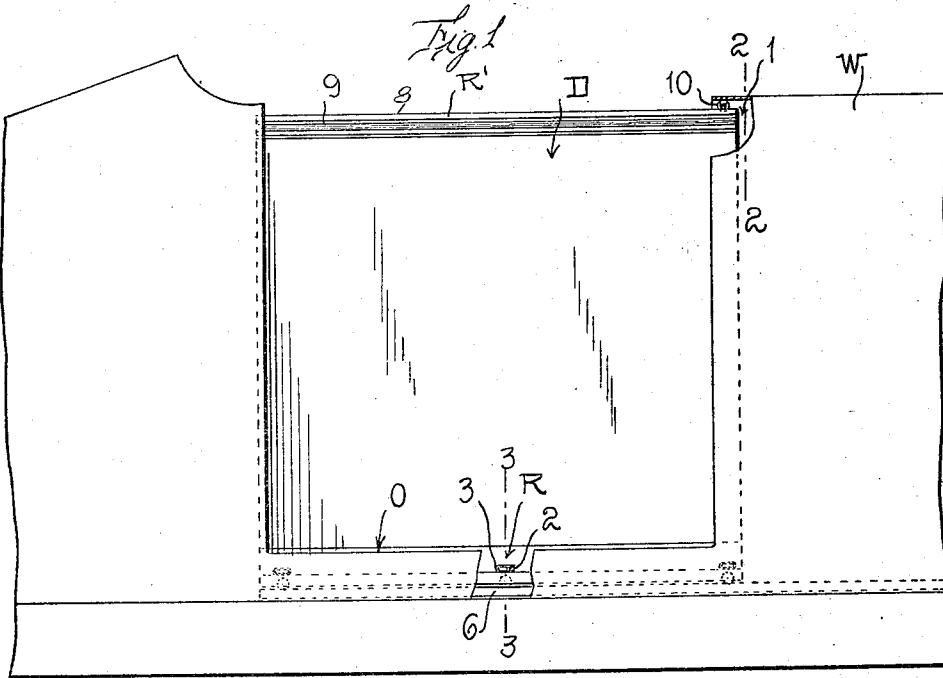
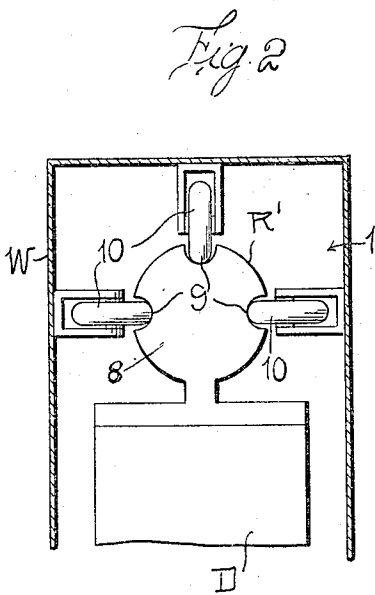
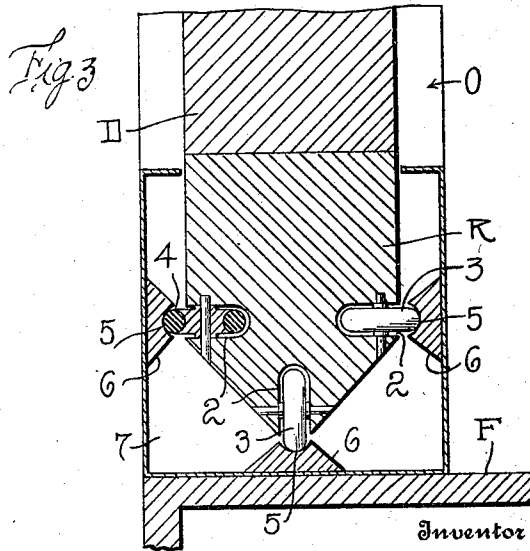


P. A. GORDON.
MOUNTING FOR SLIDING DOORS.
APPLICATION FILED APR. 14, 1917.

1,274,872.

Patented Aug. 6, 1918.



P. A. GORDON

By *Watson E. Coleman*
Attorney

UNITED STATES PATENT OFFICE.

PETER A. GORDON, OF DETROIT, MICHIGAN.

MOUNTING FOR SLIDING DOORS.

1,274,872.

Specification of Letters Patent.

Patented Aug. 6, 1918.

Application filed April 14, 1917. Serial No. 162,091.

To all whom it may concern:

Be it known that I, PETER A. GORDON, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Mountings for Sliding Doors, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain improvements in mountings for sliding doors and has relation more particularly to a device of this general character especially designed and adapted for use in connection with vehicle bodies; and it is an object of the invention to provide a novel and improved device of this general character which is capable of sliding movement with a minimum of friction and with noise substantially eliminated.

20 The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved mounting for a sliding door whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

30 The novel features of the invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

35 Figure 1 is a fragmentary view partly in elevation with parts broken away illustrating a mounting for a sliding door constructed in accordance with an embodiment of my invention;

40 Fig. 2 is an enlarged sectional view taken substantially on the line 2—2' of Fig. 1; and

Fig. 3 is an enlarged sectional view taken substantially on the line 3—3 of Fig. 1.

As disclosed in the accompanying drawings, W denotes a side wall of a vehicle body of the type employed in connection with automobiles, and said wall W is provided with an entrance opening O, extending to the top of the wall W. The wall W 45 to one side of the opening O is hollow, as indicated at 1, to receive the door D. The door D is mounted for sliding movement and is adapted to close the entrance opening O.

55 The lower edge of the door D has suitably secured thereto the rail R extending the

entire length of said door and at the opposite end portions and at a point substantially midway its length the rail R is provided with a series of recesses 2, one of said 60 recesses being produced in the under face of said rail at the transverse center thereof and the remainder of said recesses being diametrically opposed and produced in the side faces of the rail.

65 Mounted within each of the recesses 2 is a wheel 3 having its periphery 4 preferably of yieldable material such as rubber. The wheels 3 are adapted to engage within the grooves 5 produced in the guide members 6. 70 The guide members 6 extend within the hollow portion 1 of the wall W and are suitably secured to the bottom and sides thereof. The guide members 6 are also continued along the channel 7 produced in the floor F 75 of the body and extending across the opening O.

The top of the door D is provided with a rail R' having a head 8 substantially circular in cross section and which is provided 80 in its top and its side faces with the grooves 9 extending the entire length thereof. Rotatably supported within the hollow portion 1 of the wall W and in longitudinally spaced relation are the wheels 10 similar to 85 the wheels 3 hereinbefore referred to and which wheels 10 are adapted to engage within the grooves 9 of the upper rail R'.

By this arrangement it is thought to be self-evident that the door D may be readily 90 moved with a minimum of frictional resistance and with the possibility of noise substantially eliminated.

It will also be observed by employing a sliding door in a vehicle body, the possibility of injury to pedestrians by an open 95 door is eliminated. It will also be self-evident that with a sliding door the vehicle may be driven with the door open which is of material advantage in warm weather. It 100 is to be further noted that by having the peripheries 4 of the wheels 3 and 10 yieldable, the door is effectively prevented from rattling either when open or closed.

From the foregoing description, it is 105 thought to be obvious that a mounting for a sliding door constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason 110 of the convenience and facility with which it may be assembled, and it will also be ob-

vious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not
5 wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice, except as hereinafter claimed.

10 I claim:

In combination with a side wall of an automobile provided with an entrance opening through the top of the wall, the wall at one side of the entrance being hollow, a door
15 for said entrance slidable within the hollow portion of the wall, a rail mounted upon the upper edge of the door and extending the

entire length thereof, said rail being provided in its top and side faces with grooves extending the entire length thereof, and a 20 single series of rollers arranged within the upper portion of the hollow wall and supported by the sides and top thereof adjacent the entrance, said rollers being in the same vertical plane transverse of the wall, said 25 rollers contacting with the rail within the grooves thereof, the peripheral portions of the rollers being expansible.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 30

PETER A. GORDON.

Witnesses:

EDWARD J. JONES,
JAMES A. DANT.

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