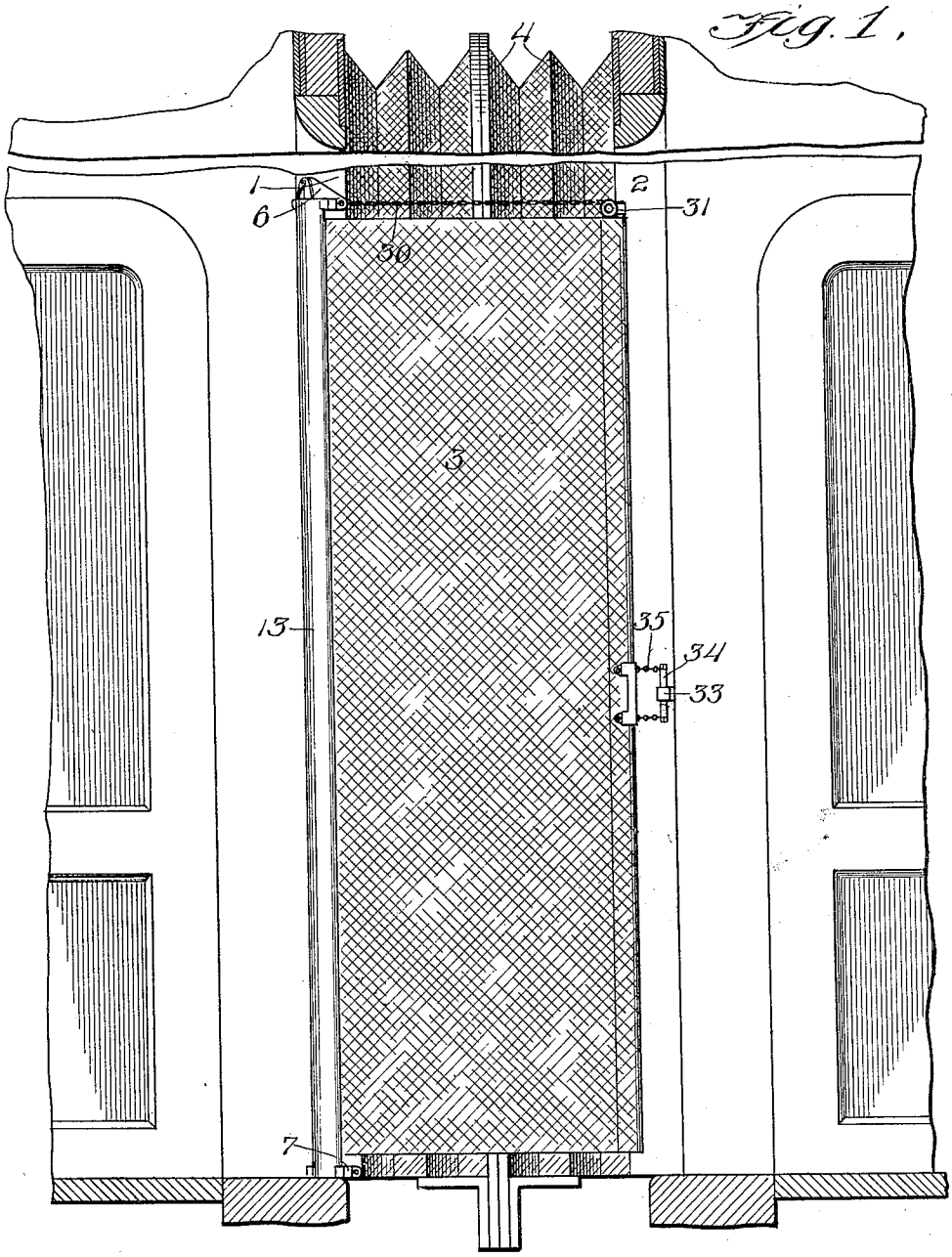
J. H. DONALDSON & B. T. LEWIS.
M. C. LEWIS, EXECUTRIX OF B. T. LEWIS, DEC'D.
CURTAIN FOR CAR VESTIBULES.
APPLICATION FILED APR. 17, 1911.

1,119,499.

Patented Dec. 1, 1914.

3 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

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3 SHEETS—SHEET 2.

Fig. 2.

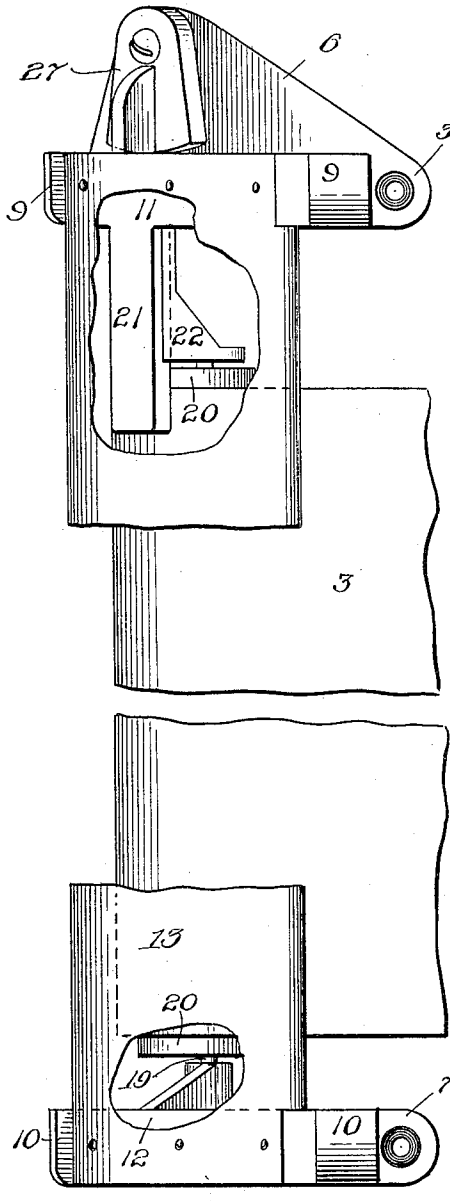


Fig. 3.

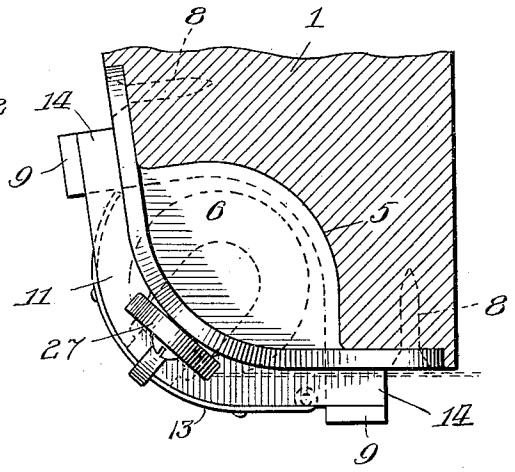
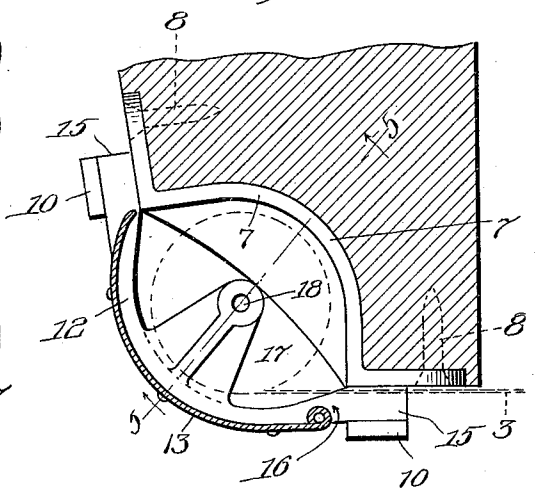


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 5.

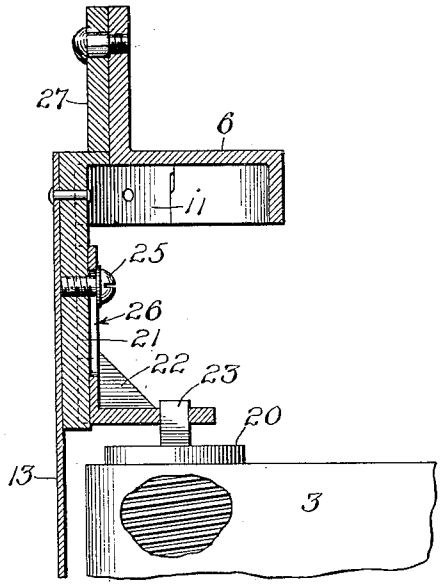


Fig. 6.

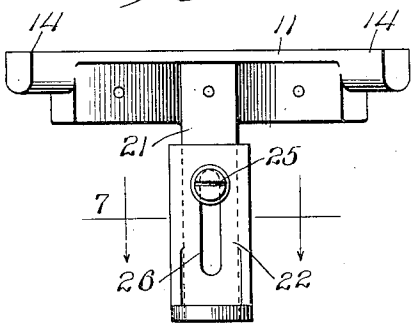


Fig. 7.

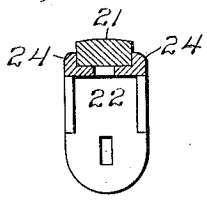
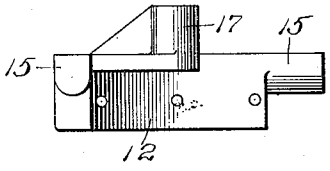


Fig. 8.



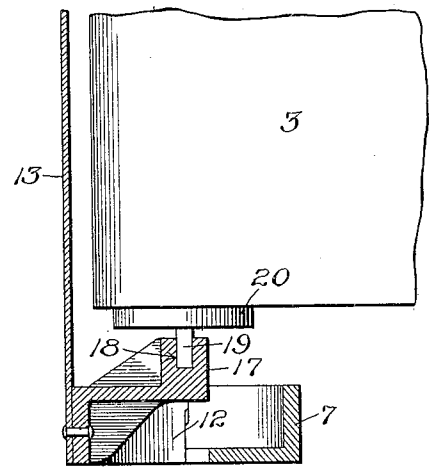


Fig. 9.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES H. DONALDSON, OF OAK PARK, AND BENJAMIN T. LEWIS, OF LA GRANGE, ILLINOIS; MINNIE C. LEWIS EXECUTRIX OF SAID BENJAMIN T. LEWIS, DECEASED.

CURTAIN FOR CAR-VESTIBULES.

1,119,499. Specification of Letters Patent. Patented Dec. 1, 1914.

Application filed April 17, 1911. Serial No. 621,667.

To all whom it may concern:

Be it known that we, JAMES H. DONALDSON and BENJAMIN T. LEWIS, citizens of the United States, residing, respectively, at Oak Park and La Grange, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Curtains for Car-Vestibules, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Our invention has for its object to produce a neat, simple and compact curtain apparatus adapted to cover the diaphragms at the sides of the passageway leading from the vestibule of one car to another.

A further object of our invention is to produce a novel supporting means and mount for vestibule curtains which will permit the curtains to be quickly and easily inspected, removed or replaced.

The various features of novelty whereby our invention is characterized will hereinafter be pointed out with particularity in the claims; but, for a full understanding of our invention and of its various objects and advantages, reference may be had to the following detailed description taken in connection with the accompanying drawings, wherein:

Figure 1 is a longitudinal vertical section through the adjoining vestibule of two passenger cars, illustrating our improvements; Fig. 2 is a view on an enlarged scale, showing the curtain-supporting fixtures detached from the corner post on which they are mounted, parts being broken away for the purpose of uncovering portions which would otherwise be concealed; Fig. 3 is a section taken through the vestibule post just above the upper fixture; Fig. 4 is a view similar to Fig. 3 taken on a plane below the lower end of the curtain door; Fig. 5 is a central vertical section on line 5—5 of Fig. 4; Fig. 6 is an elevation of the detachable member which carries the bearing for the upper end of the curtain roller: Fig. 7 is a section on line 7—7 of Fig. 6; Fig. 8 is an elevation of the detachable member for supporting the lower end of the curtain roller: Fig. 9 is a detailed view of the lower bracket for supporting the lower bearing member of the curtain roller.

In practice there will be two curtains, one on each side of the passage between the two adjacent vestibules; but since both of these curtains and their fixtures are alike, we shall describe only the arrangement on one side.

Referring to the drawings, 1 and 2 represent the vestibule door posts on the adjacent ends of two cars.

3 is a curtain which is mounted upon a suitable roller upon one of the door posts and is adapted to be drawn across the space between the two posts and be connected to the other post, thus forming a cover across the inner sides of the diaphragm 4 and protecting passengers from contact with the diaphragm.

In accordance with our invention we form a longitudinal groove 5 in the inner corner of the door post 1 and provide a detachable cover or casing for closing the groove and supporting the roller of the curtain. In the preferred arrangement we secure in the upper end of the groove a cap 6 and in the lower end of the groove a cap 7. these being permanently held on the post by means of screws 8 or the like; the caps being spaced far enough apart to permit a curtain roller to be placed between them. The cap 7 has a portion cut away so as to permit dirt entering the groove to drop out at the bottom. Projecting outwardly from the cap 6 at each side of the recess in the post is a hook or open-top bearing 9. The member 7 is provided with similar hooks or bearing seats 10. The members 9 and 10 are adapted to support a detachable casing which in turn supports the curtain roller. It will be seen that the casing and the curtain may be removed by simply lifting the casing out of the bearing members. In the preferred arrangement, the casing is formed of an upper bracket 11, a lower bracket 12 and a section of sheet metal or other sheet material 13 which is riveted or otherwise secured at its ends to the two brackets. The brackets are preferably provided with laterally extending fingers 14 and 15 respectively: the fingers 14 being adapted to rest in and be supported by the members 9 and the fingers 15 to be similarly engaged with the bearing members 10. When the casing is placed in position on the post it forms with the recess

or groove in the post a housing for the curtain, the housing being closed except for a long narrow slot 16 which extends down between the outer end of the member 13 and the side of the post, this slot permitting the passage of the curtain as it is wound upon and unwound from its roller.

The lower bracket, 12, is provided with an inwardly extending arm 17 which has a bearing seat 18 at its inner end for the reception of a trunnion 19 on the lower end of the curtain roller 20. The upper bracket, 11, is provided with a suitable bearing member for the upper end of the curtain roller. To this end we have formed on the bracket 11 a downwardly extending arm or post 21 on which is adjustably mounted a bearing bracket 22 adapted to receive the rectangular end of the roller shaft 23. By making the bracket 22 adjustable on its support, it may be raised and lowered so as to permit the curtain roller to be quickly attached and detached. Furthermore, this arrangement compensates for differences in the lengths of rollers, so that a roller will be properly supported regardless of its length. In the arrangement shown the bracket 22 is provided with flanges 24 which overlie the sides of the member 21 and serve as guides for the bracket. A screw 25 passes through an elongated vertical slot 26 in the bracket and into the post 21. When the screw is loosened the bracket may be moved up and down and then be again locked in its adjusted position by tightening the screw.

In accordance with our invention we so proportion the parts that when they are assembled the plane of the sides of the posts 1 and 2 passes through the slot 16 and tangential to the curtain roller; thus permitting the curtain to be drawn out and lie flat between the point where it leaves the roller and the point where it is attached to the post on the opposite car. By this arrangement the curtain is prevented from being worn by rubbing against portions of the post or housing and a long life is assured. In other devices of this kind, of which we are aware, the curtains always rub upon some portion of the post and therefore wear out quickly due to the constant movement when the trains are running. Furthermore, the friction between a curtain and the post, where the curtain rubs upon the post, makes it hard to draw the curtain out.

In order to prevent the casing from jumping out of its bearings, we have provided a dog 27 which is pivoted upon the cap 6 directly above the bracket 11 and normally hangs down and engages with the top of the bracket. When it is desired to remove the casing, the dog is swung laterally far enough to permit the casing to be lifted out of its bearings.

The parts 30, 31, 33, 34 and 35 indicate an automatic releasing device for the curtain forming no part of the present invention.

We claim:

1. In combination, a post, two separated caps secured to the inner corner of the post and projecting horizontally therefrom, each of said caps having open-topped bearing seats at its outer edge, a housing curved about the corner of the post and having projections resting in said seats, said housing forming with the post a curtain-receiving chamber, and a curtain roller mounted in said chamber.

2. In combination, a post, two separated caps secured to the inner corner of the post and projecting horizontally therefrom, each of said caps having open-topped bearing seats at its outer edge, a housing curved about the corner of the post and having projections resting in said seats, said housing forming with the post a curtain-receiving chamber, and a curtain roller detachably mounted on said housing within said chamber.

3. In combination, a post, two separated caps secured to the inner corner of the post and projecting horizontally therefrom, each of said caps having open-topped bearing seats at its outer edge, a housing curved about the corner of the post and having projections resting in said seats, said housing forming with the post a curtain-receiving chamber, a curtain roller mounted in said chamber, the lowermost cap having a portion cut away for the purpose of permitting dirt to drop out of said chamber.

4. In combination, a post, separated caps secured to one corner of the post, each of said caps having open-topped bearing seats, and a housing comprising two curved brackets lying in said bearing seats and a curved sheet metal plate secured at its ends to said brackets, said housing forming with the post a curtain-receiving chamber, one of the side edges of the plate being separated from the adjacent side of the post so as to provide a long narrow outlet from said chamber for the passage of a curtain, and a curtain roller supported within said chamber.

5. In combination, a post, separated caps secured to one corner of the post, each of said caps having open-topped bearing seats, and a housing comprising two curved brackets lying in said bearing seats and a curved sheet metal plate secured at its ends to said brackets, said housing forming with the post a curtain-receiving chamber, one of the side edges of the plate being separated from the adjacent side of the post so as to provide a long narrow outlet from said chamber for the passage of a curtain, a curtain roller supported within said chamber, and a dog on the upper of said caps in position to engage with the upper bracket and hold the housing in said seats.

6. In combination, a post, separated caps secured upon one corner of said post, each of said caps having open-topped bearing seats, a housing comprising brackets each of which rests in the bearing seats on one of said caps and a curved sheet metal plate secured at its ends to said bracket, said housing forming with the post a curtain-receiving chamber one edge of said plate being spaced apart from the side of the post to form a long narrow curtain-outlet from said chamber, and each of said brackets having a bearing member projecting inwardly into said chamber for supporting a curtain roller.

7. In combination a post, two separated brackets secured to the inner corner of the post and projecting horizontally therefrom, a housing curved about the corner of the post and detachably connected to said brackets, said housing forming with the post a curtain-receiving chamber, a curtain roller in said chamber, a bearing on the housing for the lower end of the roller, and a bearing for the upper end of the roller mounted on the housing so as to be adjustable axially of the roller.

8. In a device of the class described, a curtain plate, a pair of spaced-apart castings reinforcing said plate, means carried by one of said castings forming part of a means for holding said plate in position, and curtain supporting means carried by said castings and releasable at the top, the roller being bodily removable vertically.

In testimony whereof, we sign this specification in the presence of two witnesses.

JAMES H. DONALDSON.
BENJAMIN T. LEWIS.

Witnesses:
WM. F. FREUDENREICH,
RUBY V. BRYDGES.

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