

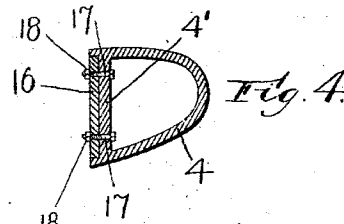
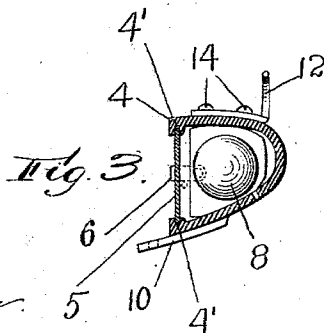
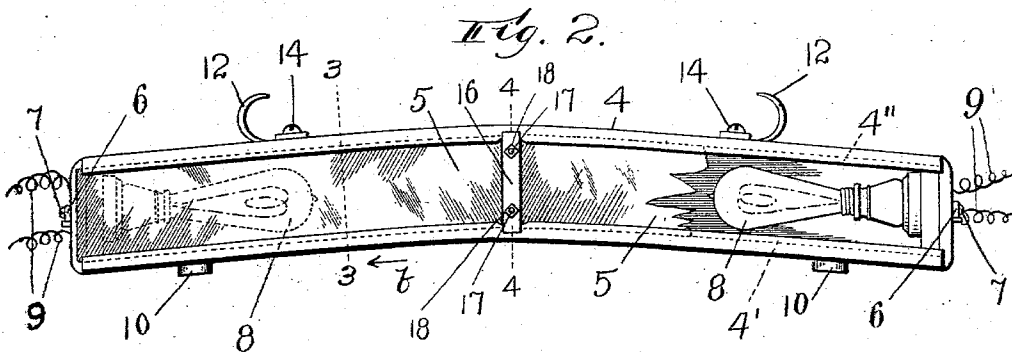
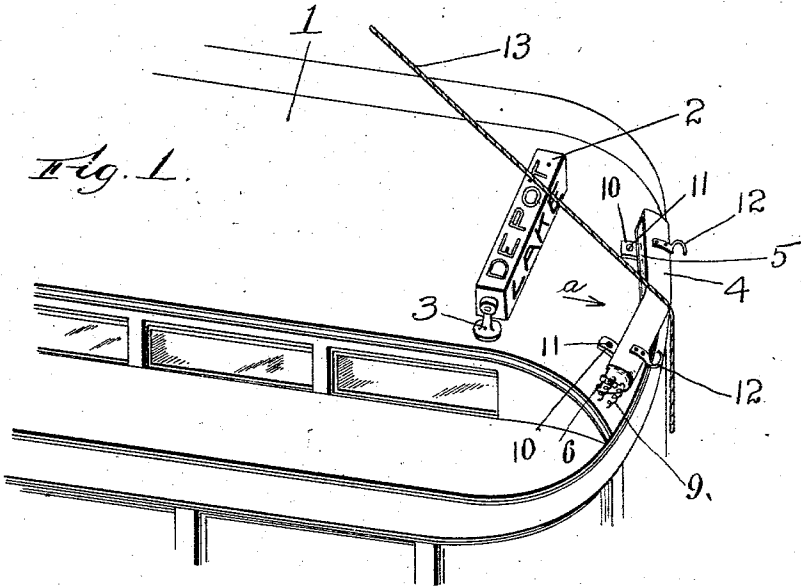
No. 717,758.

PATENTED JAN. 6, 1903.

J. H. McMULLIN.
SIGN ILLUMINATOR.

APPLICATION FILED MAY 2, 1902.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN H. McMULLIN, OF WORCESTER, MASSACHUSETTS.

SIGN-ILLUMINATOR.

SPECIFICATION forming part of Letters Patent No. 717,758, dated January 6, 1903.

Application filed May 2, 1902. Serial No. 105,644. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. McMULLIN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Sign-Illuminators, of which the following is a specification.

My invention relates to a sign-illuminator or a device for illuminating signs and other objects, and is designed particularly to be used on street-cars, and particularly on the top or roof of a street-car to illuminate the signs ordinarily carried on the ends or sides of the car.

The object of my invention is to provide an improved electric sign-illuminator of simple and inexpensive construction to be rigidly attached in front of the sign or object to be illuminated to throw a light thereon; and my invention consists in certain novel features of construction of my sign-illuminator, as will be hereinafter fully described.

Referring to the drawings, Figure 1 is a perspective view of one end of the roof portion of a street-car of any ordinary construction, showing my sign-illuminator attached thereto. Fig. 2 is a front view of my sign-illuminator shown in Fig. 1, detached, looking in the direction of arrow *a*, same figure. Fig. 3 is a cross-section on line 3-3, Fig. 2, looking in the direction of arrow *b*, same figure; and Fig. 4 is a cross-section on line 4-4, Fig. 2. Figs. 2, 3, and 4 are shown on an enlarged scale.

In the accompanying drawings, 1 is the top or roof portion of one end of a street-car, which may be of any ordinary construction.

2 is a revoluble sign of ordinary construction supported at each end on a stand 3, secured to the roof portion 1.

My sign-illuminator 4 is shown in this instance attached upon the end of the roof portion 1 in front of the sign 2 and with its outer edge extending slightly beyond the edge of the roof, as shown in Fig. 1.

My illuminator 4 has the body portion preferably made of cast metal in one piece, with one side open. The open side has preferably straight edges, which are slightly inclined from the center toward the ends, making the illuminator of slightly-angular shape in the

direction of its length, or diverging from the center toward the ends, as shown in Fig. 1, on its open side. The open side of the illuminator 4 has, preferably at its central portion, a bar 4', extending between its upper and lower edges, which acts as a brace.

The rear or closed side of the illuminator 4 is preferably of rounded shape in cross-section, as shown in Fig. 3, and the top and bottom of the illuminator are slightly inclined from the center toward the ends, as shown in Fig. 2.

The open side of my illuminator 4 is preferably made with longitudinal grooves 4" in its upper and lower edges to receive the edges of the panes of glass 5 or other transparent material, preferably two in number, which are removable and are inserted from the ends of the sign-illuminator 4 and are held at their outer ends in this instance by a pivoted catch 6, secured to the end of the body of the illuminator 4 by a screw 7 and adapted to be turned up to engage the end of the pane of glass 5 after it has been inserted in the grooves 4" to hold it in position, as shown in Fig. 3.

To hold the inner ends of the panes of glass 5 in place, I may use a removable bar 16, extending in front of the bar 4', with its ends extending into notches or recesses in the upper and lower edges of the open side of the illuminator 4, said bar 16 being secured to the bar 4' by bolts 17 and nuts 18. (See Fig. 4.)

The inner surface of the body of the illuminator 4 may be painted white or otherwise treated to produce a reflecting-surface.

Secured within each end of the body of the illuminator 4 is in this instance an electric bulb 8, connected with circuit-wires 9 in any well-known way.

On the under side of the body of the illuminator 4, and preferably made integral therewith, are two projections or lugs 10, having holes therein for screws 11, which secure the illuminator 4 rigidly to the roof portion 1, as shown in Fig. 1.

I preferably combine with my sign-illuminator 4 two guide-hooks 12 for the trolley-cord 13 to prevent the cord from getting out of place. The hooks 12 are preferably secured upon the top of the body of the illuminator 4 by screws 14 or otherwise.

My illuminator-sign, as above stated, has the body portion thereof made in one piece and is preferably of cast metal; but it may be made of sheet metal or of any other suitable material, as leather-board, if preferred.

5 The lights or electric bulbs are secured within the body of the illuminator at each end thereof.

My sign-illuminator is preferably attached to the end of a car, with the closed body portion extending beyond the end, so as to serve for a support and bearing-surface for the trolley-rope, as shown in Fig. 1.

The advantages of my improvements in sign-illuminators for street-cars, &c., will be readily appreciated by those skilled in the art. Being made in one piece and rigidly secured to the roof of the car, there is nothing to work loose or rattle or get out of order. The guide-hooks for the trolley-rope, combined with my illuminator, do away with any other guide ordinarily employed for the trolley-rope.

It will be understood that the details of construction of my improvements in sign-illuminators may be varied, if desired, and it may be attached to the roof at the side of the car to illuminate the side signs as well as at the end of the car, and it may also be used for any other illuminating purposes.

30 Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. A sign-illuminator comprising a body portion made from a single piece of material with one open side, the edges of said side being straight and inclined from the center toward the ends, and guide-hooks secured to the body portion on opposite sides of the center thereof to guide and engage the trolley-cord to hold the same in position, substantially as described.

2. A sign-illuminator, comprising a body portion made from a single piece of material with one side open, the edges of said side being straight and inclined from the center toward the ends, electric lights or bulbs secured within the body portion and projecting toward each other from the ends thereof, means for securing said illuminator in position on the car with the body of the illuminator projecting over the edge of the car, and guide-hooks secured to the illuminator on opposite sides of the center thereof and having their open portions facing each other to thereby act as guides for a trolley-cord.

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