

(No Model.)

P. W. LUPHER.
REMOVABLE FRONT FOR STREET CARS.

No. 508,892.

Patented Nov. 14, 1893.

Fig. 1

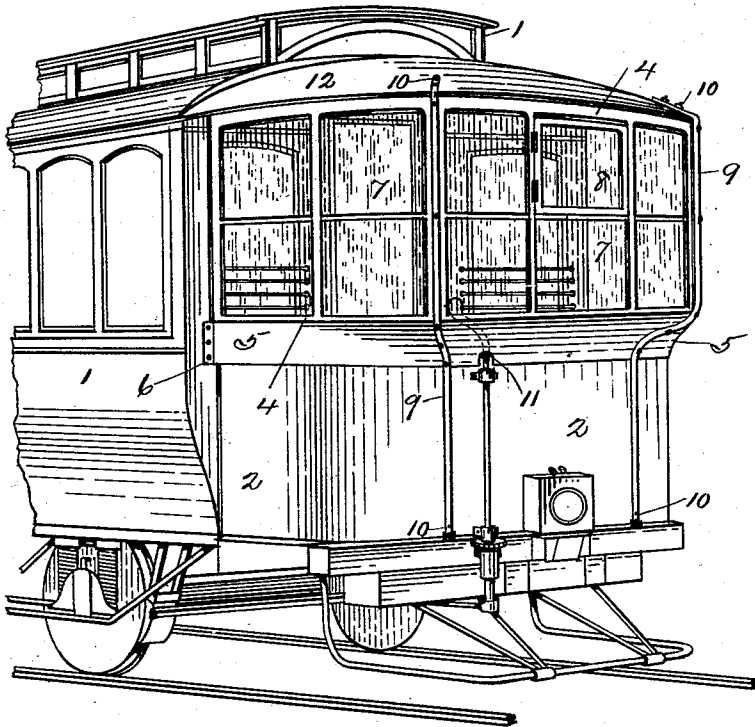
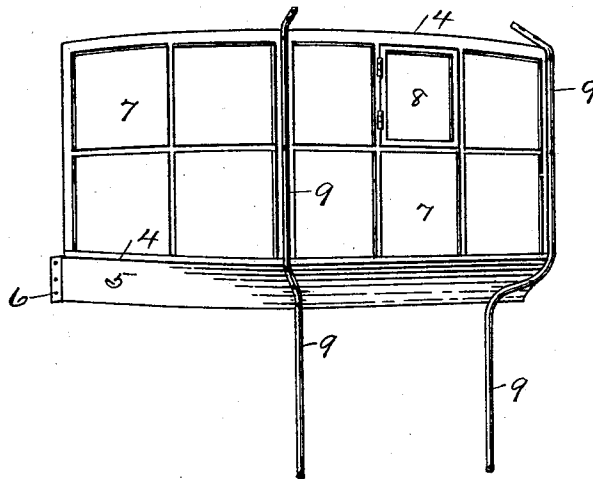


Fig. 2



Witnesses:

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PRESTON W. LUPHER, OF PITTSBURG, PENNSYLVANIA.

REMOVABLE FRONT FOR STREET-CARS.

SPECIFICATION forming part of Letters Patent No. 508,892, dated November 14, 1893.

Application filed January 31, 1893. Serial No. 460,434. (No model.)

To all whom it may concern:

Be it known that I, PRESTON W. LUPHER, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Removable Car-Fronts; and I do hereby declare the following to be a full, clear, and exact description of the invention, 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.

My invention relates to an improved adjustable and removable front for street and other railway cars, and consists in certain details of construction, and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a perspective view of the front portion of an ordinary street railway car, provided with my improved detachable front which is constructed in accordance with my invention. Fig. 2 is a perspective view of the improvement removed from the car.

To put my invention into practice with a street railway car 1 of the usual construction, I construct a frame 4 adapted to fill the space between the overhanging front of the roof 12, and the hand rail arranged about the front apron 2. Arranged about the lower edge of the frame 4 is a thin metallic sheet 5 flaring outwardly to correspond with the contour of the roof 12, and fitting neatly about its lower edge the apron 2. This frame is held in position by means of two vertically arranged rods 9 attached rigidly to the said frame, and by means of small bolts 10 to the roof of the car, and by downward extensions of the said rods 9, entering sockets arranged in the platform, or by means of bolts passing through

the apron 2. At each end of the plate 5 the same is provided with flanges 6 through which wood screws or bolts are passed into the frame of the car to further secure the front in position. This entire frame 4 is fitted with glass 7 to prevent the inrush of cold air or rain, and thereby afford protection to the motorman, or other person operating the car. One of the lights of glass 8, is mounted in a separate frame and attached in position in the main frame 4 by means of hinges, in a manner that the same may be opened which will be found useful for various purposes.

This removable front may be used in cold or rough weather, and may be easily removed and stored away during the summer, and when in use will protect the motorman or other operator from the inclemency of the weather.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A detachable weather guard for street and other railway cars, consisting of the frame 4 fitted with glass and constructed to conform to the contour of the overhanging portion of the roof, the outwardly flaring plate 5 arranged at the base of the frame adapted to fit neatly about the apron 2 of the platform, and the means substantially as described for attaching the said guard in position, all arranged and combined for service, substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 13th day of January, A. D. 1893.

PRESTON W. LUPHER. [L. S.]

In presence of—

JAS. J. McAFEE,
I. A. CARLINE.