

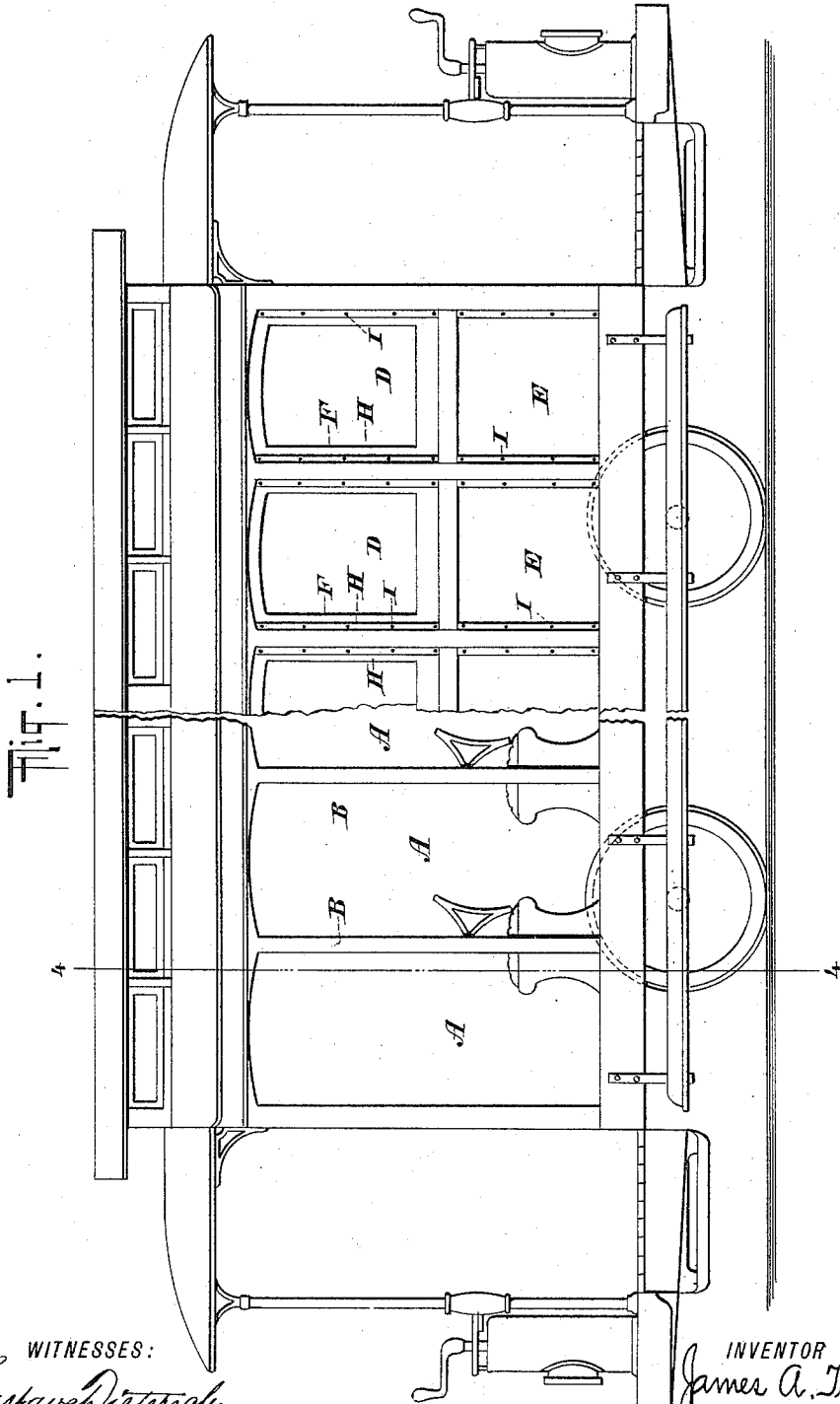
(No Model.)

2 Sheets—Sheet 1.

J. A. TRIMBLE.
STREET CAR.

No. 579,458.

Patented Mar. 23, 1897.



WITNESSES:
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(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

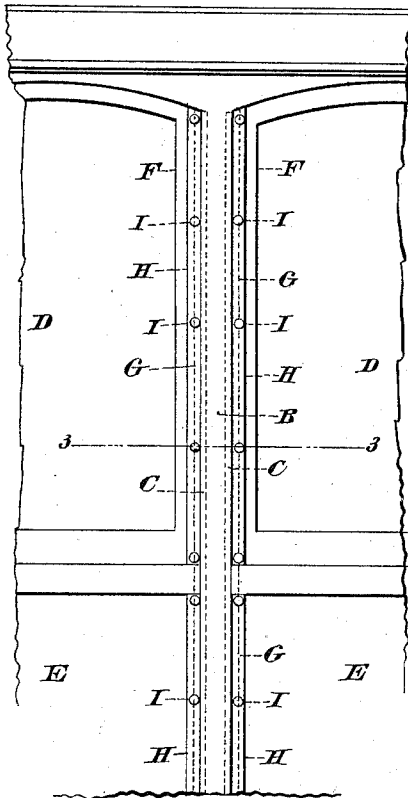


Fig. 4.

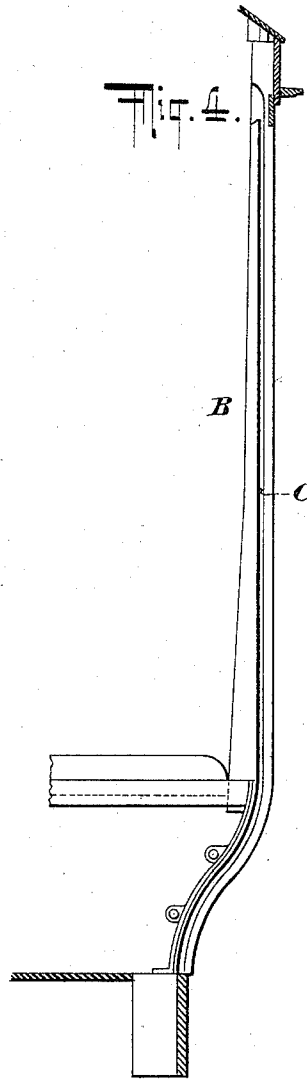
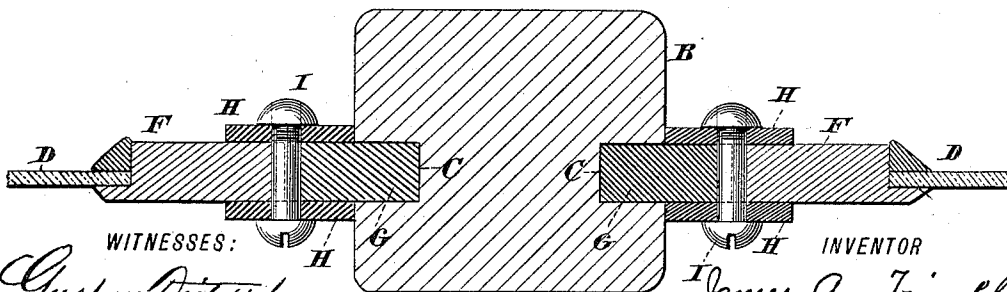


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES A. TRIMBLE, OF NEW YORK, N. Y.

STREET-CAR.

SPECIFICATION forming part of Letters Patent No. 579,458, dated March 23, 1897.

Application filed February 10, 1897. Serial No. 622,773. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. TRIMBLE, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Street-Cars, of which the following is a specification.

The invention relates to improvements in street-cars; and it consists in the means hereinafter described and claimed, whereby with entire convenience and without injury to the car the usual summer-car may be converted into a car for use in winter.

The invention pertains particularly to the means for applying the windows and lower panels to close the usual openings in the sides of an open car, and in accordance with my invention the windows and lower panels are applied without in any manner injuring any part of the car.

The invention will be readily understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a car partly broken away and illustrating at the left-hand end the car as it is used in summer, or as an open car, and at the right-hand end the car when converted by means of the present invention from a summer-car to a closed or winter car. Fig. 2 is an enlarged side elevation of a part of the side of the car and illustrating the means embodying my invention for securing the windows and lower panels in the side of the car. Fig. 3 is an enlarged horizontal section of same on the dotted line 3 3 of Fig. 2, and Fig. 4 is a vertical transverse section through the side of the car on the dotted line 4 4 of Fig. 1.

In the drawings, A designates the usual spaces left entirely open at the sides of an open car, said spaces being bounded upon opposite sides by the usual posts or standards B, having in their opposite edges the vertical groove C, (shown clearly in Fig. 4,) within which the customary curtain is adapted to move. The standards B, illustrated in the drawings, are of customary form and construction, and while they do not form any part of the present invention they are utilized as a part of the means whereby the windows and panels (lettered, re-

spectively, D E) are applied to the car in accordance with my invention.

The details of the present invention are more clearly illustrated in Figs. 2 and 3, in which it will be observed that the windows and panels D E are, in a corresponding manner and by corresponding means, secured within the grooves C, formed in the standards or posts B B, and upon reference to Fig. 3 it will be seen that the windows D D have sashes F, which are less in width than the width of the spaces A, and that the opposite vertical edges of the sashes F have secured to them the strips G by means of the plates H H, the latter covering the joint between the sashes F and strips G and being clamped toward one another and against said sashes and strips by means of the screws I. The strips G extend the entire height of the sashes F, and the strips H are coextensive in height with the strips G, as illustrated in Fig. 2, and hence the strips H fully cover the entire length of the joints between the sashes F and strips G and are securely held throughout their length by the series of bolts or screws I. In arranging the sashes D or panels E in position between the posts B B one or both of the strips G will first be placed within the grooves C C and thereafter, by means of the strips or plates H and bolts or screws I, the said sashes or panels will be fastened in place. The panels E are secured within the spaces A by means of the metal strips or plates H and edge strips G, as indicated in Fig. 2.

One of the main objects accomplished by the present invention is that in transforming the summer-cars into winter-cars by the means above described it is wholly unnecessary to cut the posts B in even the slightest particular and that even the insertion of a screw into the posts B is entirely avoided. This is an object of great importance, since with the means at present in use for converting a summer-car into a winter-car the posts B B are marred and disfigured, and permanent injury to the car results therefrom.

In accordance with my invention the windows and panels for the sides of the car may be very conveniently and quickly applied, and when applied are entirely safe and secure. The means for applying the windows

and panels to the sides of the car are such as to render it entirely convenient to withdraw said windows and panels for future use, no injury to the same having resulted from their being secured in accordance with the present invention.

My invention is also of utility in that the usual straining of the car has no tendency to break the bolts I, since the window-sashes and the panels E are free in the grooves C, formed in the posts or standards B, instead of being fastened directly to said posts or standards by screws or bolts. In instances in which the window-sashes and panels are fastened by screws or bolts to the standards or posts B the straining of the car acts upon the screws or bolts and tends to break the same and injure the car, and this is an objection which the present invention remedies.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The car having the posts or standards provided with vertical grooves, combined with the sashes or panels for the sides of the

car of less width than the spaces between said posts or standards, vertical strips at the side edges of said windows or panels and adapted to enter said grooves, and means for securing said windows or panels to said strips; substantially as set forth.

2. For a car having the grooved posts or standards B, the sashes or panels less in width than the spaces between said posts or standards, vertical strips entering the grooves of said posts or standards and being in alignment with said windows or panels, the plates extending along the joint between said strips and said windows or panels, and means for clamping said plates against the adjoining edges of said strips and windows or panels; substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 8th day of February, A. D. 1897.

JAMES A. TRIMBLE.

Witnesses:

CHAS. C. GILL,

E. JAS. BELKNAP.