

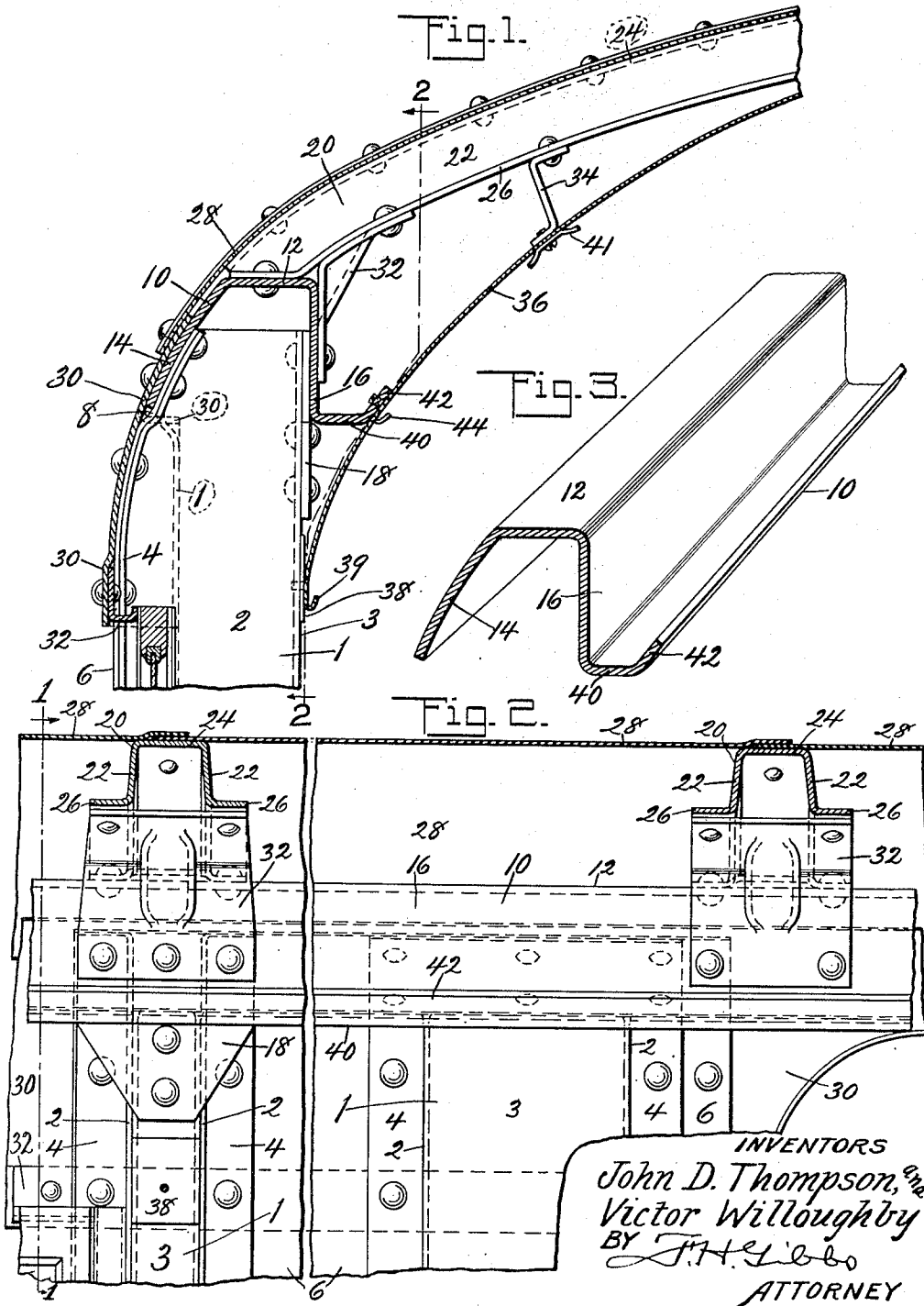
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RAILWAY CAR FRAME

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UNITED STATES PATENT OFFICE.

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RAILWAY-CAR FRAME.

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This invention relates to railway cars and more particularly to the framing thereof and it is an object of this invention to provide an improved construction at the side plates of railway passenger cars which will provide a simple construction of ample strength and which will provide proper support for the car roof and the card holders. It is also an object of this invention to provide an improved side plate for railway passenger cars.

With these and other objects in view, this invention comprises the combinations and arrangements described in the specification and shown in the accompanying drawings in which:

Fig. 1 is a partial vertical transverse section taken as on the line 1—1 of Fig. 2 of a railway passenger car body constructed in accordance with this invention;

Fig. 2 is a broken partial vertical longitudinal section taken on the line 2—2 of Fig. 1; and

Fig. 3 is a perspective view of a portion of the side plate used in the construction shown in Figs. 1 and 2, an end of the side plate being shown in section.

In the drawing, the invention is shown applied to a car-body having posts 1 of substantially U-shape with the legs 2 thereof projecting outwardly from the web 3 and provided with laterally projecting flanges 4 to which the sheathing 6 is attached. As shown in Fig. 1, the upper ends of the posts are shaped to conform to the curvature of the car body and the posts and sheathing are inset as at 8 so as to provide a smooth surface when the side plate 10 is applied to the upper ends of the posts.

The side plate 10 which extends from end to end of the car is of substantially inverted U-shape having a web 12 extending horizontally and downwardly projecting legs 14 and 16, the leg 14 being shaped to correspond to the curvature of the roof and the upper portion of the posts. The leg 16 extends parallel to the webs 3 of the posts and is secured thereto by means of gusset plates

18 which are riveted to the web 3 and to the leg 16. Mounted upon the web 12 of the side plate 10 are the carlines 20 of substantially inverted U-shape with the legs 22 projecting downwardly from the web 24 and provided with laterally projecting flanges 26 which rest upon and are secured to the web 12 of the side plate. Attached to the web 24 of the carlines 20 are the roof sheets 28 which overlap the upper end of the leg 14 of the side plate 10. Interposed between the roof sheets 28 and the leg 14 of the side plate 10 is the letter board or fascia plate 30 which conforms to the curvature of the posts and extends downwardly to overlap the upper edge of the upper window frame member 32. Rivets extending through the flanges 4 of the posts 1, the sheathing 6, the leg 14 of the side plate 10 and the fascia plate 30 and roof sheets 28 unite the members together. To further secure the carlines to the side plates, brackets 32 are placed between the carlines and the side plates and secured to the flanges 26 of the carlines and to the leg 16 of the side plate 10 and the gusset plates 18. To the flanges 26 of the carlines 20 brackets 34 are attached. The brackets 34 serve to support a card holder 36 which is attached adjacent its lower edge to plates 38 welded to the webs 3 of the posts. The lower edge of the card holder 36 is bent upwardly as at 39 to form a clip which engages the lower edges of the cards, the upper edges of which are engaged by clips 41 carried by the brackets 34.

To provide a support for the card holder and additional stiffness for the side plate, the leg 16 of the side plate is provided with an outwardly projecting flange 40, the outer edge portion 42 of which is inclined upwardly and has the card holders 36 attached thereto. In the region of the door openings, the posts 1 are shallower as shown in dotted lines in Fig. 1 but they have their upper end portions bent to conform to the curvature of the car roof and the leg 14 of the side plate fits thereover and is secured thereto in the same manner as to the other posts. Also in the region of the car doors, the card

holder 36 terminates at the flange 40 of the side plate 10, as shown at 44.

While the preferred form of the invention has been shown and described, it is to be understood that the invention is not limited to the exact details of construction shown and described, as it is obvious that various modifications thereof within the scope of the claims will occur to persons skilled in the art.

What is claimed is:

1. In a car, a side plate having a flange the outer edge portion of which is inclined upwardly with respect to the remaining portion of the flange.

2. In a car, a side plate having a laterally projecting flange the outer edge portion of which is inclined to the remainder of the flange.

3. In a car, a side plate having a laterally projecting flange and a card holder secured to said flange.

4. In a car, a side plate having a laterally projecting flange, the outer edge portion of which is inclined, and a card holder attached to the inclined portion of said flange.

5. In a passenger car, a side plate of inverted U-shape, with one of the legs having an outwardly projecting flange, the outer edge of which is bent upwardly.

6. In a passenger car, a side plate of inverted U-shape having one leg shaped to conform to the roof curvature and the other leg provided with a laterally extending flange, the outer edge portion of which is bent upwardly.

7. In a passenger car, a side plate having one leg curved to conform to the roof curvature and the other leg provided with a laterally extending flange, the outer edge of which is bent upwardly.

8. In a passenger car, a side plate having a horizontal web and downwardly projecting legs, one of said legs being provided with a laterally projecting flange, the outer edge portion of which is inclined upwardly.

9. In a car, a post, a side plate mounted on said post, a carline connected to said plate, a bracket carried by said carline and a card holder attached to said bracket, said side plate having a flange to which said card holder is attached.

10. In a car, posts, a side plate mounted on said posts, carlines mounted on said side plate, brackets carried by said carlines, and a card holder attached to said bracket, said side plate having an upwardly bent flange engaging said card holder.

11. In a car, posts, a side plate fitting said posts, carlines mounted on said side plates and brackets connecting said side plate and carlines, brackets carried by said carlines, a card holder attached to said brackets, and a

laterally projecting flange on said side plate having an upwardly inclined portion to which the card holder is secured.

In witness whereof we have hereunto set our hands.

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