

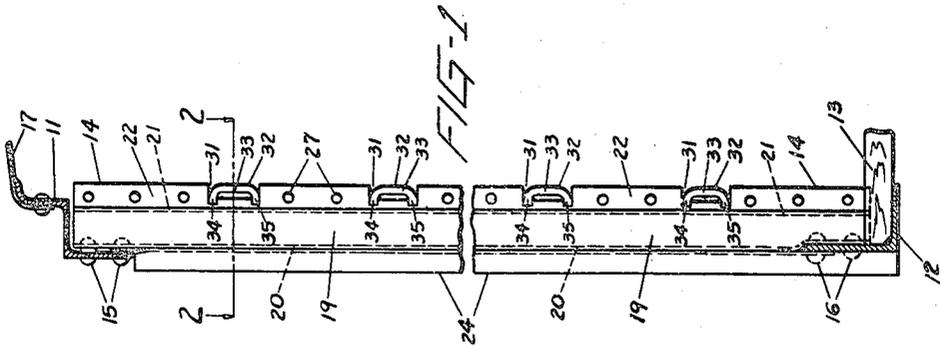
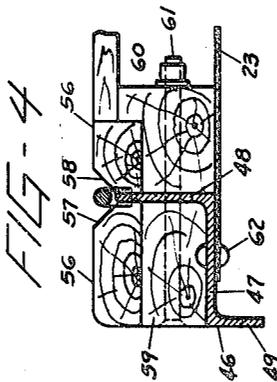
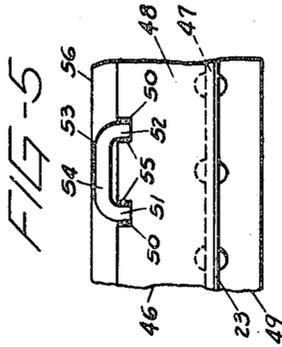
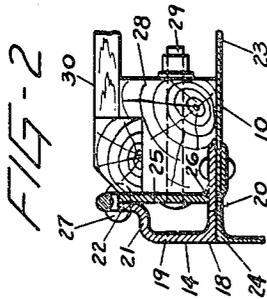
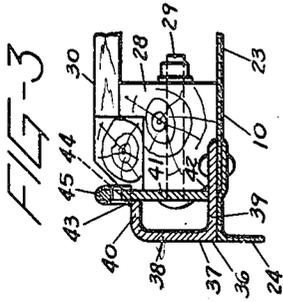
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LADING STRAP ANCHORS

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LADING STRAP ANCHORS

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5 Claims. (Cl. 105—369)

This invention relates to lading strap anchors and is concerned primarily with lading strap anchors for railway freight cars.

It is an object of this invention to provide lading strap anchors for posts of the side walls of railway freight cars.

A further object is to provide posts for the side walls of railway freight cars which shall embody lading strap anchors.

A further object is to provide posts for the side walls of railway freight cars which shall embody lading strap anchors and effect a strengthening of the posts.

A further object is to provide posts for the side walls of railway freight cars which shall incorporate lading strap anchors in a relatively inexpensive manner.

A further object is to provide posts for the side walls of railway freight cars which shall embody lading strap anchors which do not project beyond the posts.

Other objects of the invention will become clear as the description thereof proceeds.

In the drawings forming part of this specification:

Fig. 1 is a transverse vertical section taken through the door opening in a side of a railway freight car, an intermediate portion being broken away in order to permit an increase in the scale of the section.

Fig. 2 is a horizontal section taken on line 2—2 of Fig. 1.

Fig. 3 is a horizontal section similar to Fig. 2 of a modified form of the invention.

Fig. 4 is a horizontal section similar to Fig. 2 of a further form of the invention.

Fig. 5 is a side elevation of the structure illustrated in Fig. 4 looking from the right omitting the wooden lining and furring strip.

Referring to the drawing and first to Figs. 1 and 2 thereof which illustrate one embodiment of the invention, the numeral 10 designates generally one side wall of a railway freight car, a portion only of this wall being illustrated. The side wall 10 embodies the usual side plate 11 and angle side sill 12 upon which the floor 13 of the car is supported. A door post 14 extends between and is secured to the side plate and side sill as by means of rivets 15 and 16. A roof, indicated generally by the reference numeral 17, is secured upon the side plate.

The door post 14 of the considered embodiment of the invention embodies a substantially channel-shaped member 18 having a transverse inwardly extending web 19, an outer longitudinally extending flange 20 and an inner longitudinally extending flange 21. The flange 21, as is more clearly shown in Fig. 2 of the drawings, is bent so as to provide a transverse inwardly extending flange 22. Metallic sheathing 23 and a post protection angle 24 are secured to the flange 20 of the door post.

With further reference to Fig. 2 of the drawings, it will be seen that the door post 14 embodies a plate member 25 which is co-extensive with the post as appears more clearly from Fig. 1 of the drawings and which is secured along one edge as by means of welding 26 to the inner

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face of flange 20. The plate member 25 extends transversely in spaced relationship to the web 19 of the channel member 18 and is secured to the transversely extending flange 22 as by means of rivets 27. The door post construction described embodies accordingly a box section which materially increases the strength of the post.

A furring strip 28 is secured to the plate member 25 by means of bolts such as 29 and an inner wooden lining 30 is fastened to the furring strip 28 in the usual manner.

In accordance with the instant invention, furthermore, the flange 22 and the adjacent portion of the plate member 25 are provided preferably throughout the height of the post with a plurality of vertically spaced recesses 31 shown more clearly in Fig. 1 of the drawings. These recesses extend through the inner edges of the flange 22 and plate member and receive U-shaped anchor members 32. Each of these anchor members comprises a bight 33 which is arranged vertically and legs 34 and 35. These legs are welded to the flange 22 and the plate member 25 so that the bight 33 of each of the anchor members 32 lies in spaced relationship to the adjacent portion of the flange 22 and plate member. This construction provides for the insertion of lading straps between the bight and said adjacent portion of the flange 22 and plate member. It will be observed, moreover, from Fig. 1 of the drawings that the anchor members 32 do not project inwardly beyond the inner edge of the door post 14.

In the embodiment of the invention illustrated in Fig. 3 of the drawings the door post 36 comprises a substantially channel-shaped member 37 having a transverse inwardly extending web 38, an outer longitudinally extending flange 39 and an inner longitudinally extending flange 40. In this embodiment of the invention the flange 40 is not bent so as to extend inwardly but lies substantially in a single plane. A plate member 41 substantially co-extensive with the channel-shaped member 37 is secured to the flanges 39 and 40 in spaced relationship to the web 38 as by means of welding 42 and 43. The plate member 41 extends inwardly beyond the flange 40 and is provided with a plurality of vertically spaced recesses, one of which is shown at 44 similar to the recesses 31. Anchor members, one of which is illustrated at 45, are secured in the recess 44 in the manner hereinabove described. The anchor members 45 are similar in construction to the anchor members 32.

A further embodiment of the invention is illustrated in Figs. 4 and 5 of the drawings. The door post 46 of this embodiment is substantially Z-shaped in cross section and is arranged relative to the side wall of the car so that the web 47 extends longitudinally and the flanges 48 and 49 extend transversely of the wall. The inwardly extending flange 48 is provided with a plurality of vertically spaced recesses 50 as is more clearly shown in Fig. 5 of the drawings. These recesses are adapted to receive the legs 51 and 52 of U-shaped anchor members 53 in such a manner that the bight 54 of each of the anchor members lies in spaced relationship to the inner edge of flange 48. Legs 51 and 52 are secured to the flange 48 within the recess 50 as by means of welding 55. It will be understood that the anchor members 53 are spaced vertically along the post so as to provide a plurality of anchorages to which lading straps may be secured. In this embodiment of the invention the anchor members 53 project inwardly beyond the inner edge of the flange 48 but lie within the inner plane of the lining 56 as is shown in Fig. 4 of the drawings. As there shown, moreover, the lining 56 adjacent to the anchor members is sloped as indicated at 57 and 58 in order to provide guide surfaces for lading straps to increase the ease of securement of these straps to the anchor members.

Furring strips 59 and 60 are bolted to the flange 48 of the door post as shown at 61 and metallic sheathing 23

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is secured to the web 47 of the door post as by means of rivets 62.

The construction of the posts illustrated in Figs. 2 and 3 not only provide great strength and resistance to the pull exerted by lading straps fastened thereto, but also effect a savings in the amount of lumber used for the furring strips.

It will be apparent that numerous changes and modifications in the details of the invention will be clear to those skilled in the art. It is intended, therefore, that all such modifications and changes be comprehended within this invention, which is to be limited only by the scope of the claims appended hereto.

I claim:

1. In a railway freight car having a side wall embodying a side plate and a side sill, a post extending between and secured to said side plate and side sill, said post comprising a vertical flange extending transversely of said side wall, said vertical flange presenting an edge to the interior of the car which lies outwardly of the inner face of said side wall, vertically spaced recesses extending into said flange from said edge, U-shaped lading strap anchors disposed in said recesses in alinement with said flange, each of said anchors having legs and a vertically arranged bight spaced inwardly from the adjacent portion of said flange, and welding material securing said legs to said flange.

2. A post for the side walls of railway freight cars comprising a substantially channel-shaped member having a web and spaced flanges, a plate member secured to said flanges in spaced relationship to said web, said plate member extending beyond one of said flanges, said extending portion of said plate member presenting an edge lying beyond said one flange, vertically spaced recesses extending into said extending portion of said plate member from said edge thereof, U-shaped lading strap anchors disposed in said recesses inwardly of said edge and in alinement with said plate member, each of said anchors having legs and a vertically arranged bight spaced from the adjacent portion of said extending portion of said plate member and welding material securing said legs to said extension.

3. A post for the side walls of railway freight cars

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comprising a substantially channel-shaped member having a web and spaced flanges, one of said flanges being bent to form a portion extending beyond said one flange in spaced substantially parallel relation to said web, a plate member secured to the other of said flanges and to said portion of said one flange in spaced relationship to said web, said plate member and said portion presenting edges lying beyond said one flange, vertically spaced recesses extending into said portion and said plate member from said edges thereof, U-shaped lading strap anchors disposed in said recesses inwardly of said edges and in alinement with said portion and said plate member, each of said anchors having legs and a vertically arranged bight spaced from the adjacent portions of said flange portion and plate member, and welding material securing said legs to said flange portion and plate member.

4. A substantially Z-shaped post for the side walls of railway freight cars, said post comprising a web and oppositely extending flanges, one of said flanges presenting an edge remote from said web, vertically spaced recesses extending into said one flange from said edge, U-shaped lading strap anchors, each of said anchors having legs and a vertically arranged bight, said legs being disposed in said recesses in alinement with said one flange, said bight being spaced from said edge of said flange, and welding material securing said legs to said latter flange.

5. A post for the side walls of railway freight cars, said post comprising a flange presenting an edge, said flange being provided with vertically spaced recesses extending into said flange from said edge, U-shaped lading strap anchors, each of said anchors having legs and a vertically arranged bight, said legs being disposed in said recesses in alinement with said flange, said bight being spaced from the adjacent portion of said flange, and welding material securing said legs to said flange.

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