

No. 836,942.

PATENTED NOV. 27, 1906.

S. OTIS.
RAILWAY CAR.

APPLICATION FILED OCT. 17, 1905. RENEWED OCT. 8, 1906.

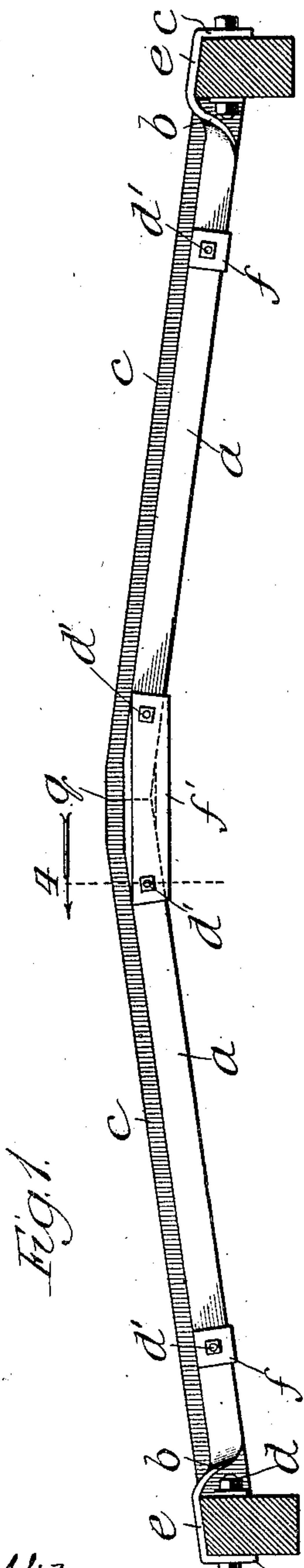


Fig. 1.

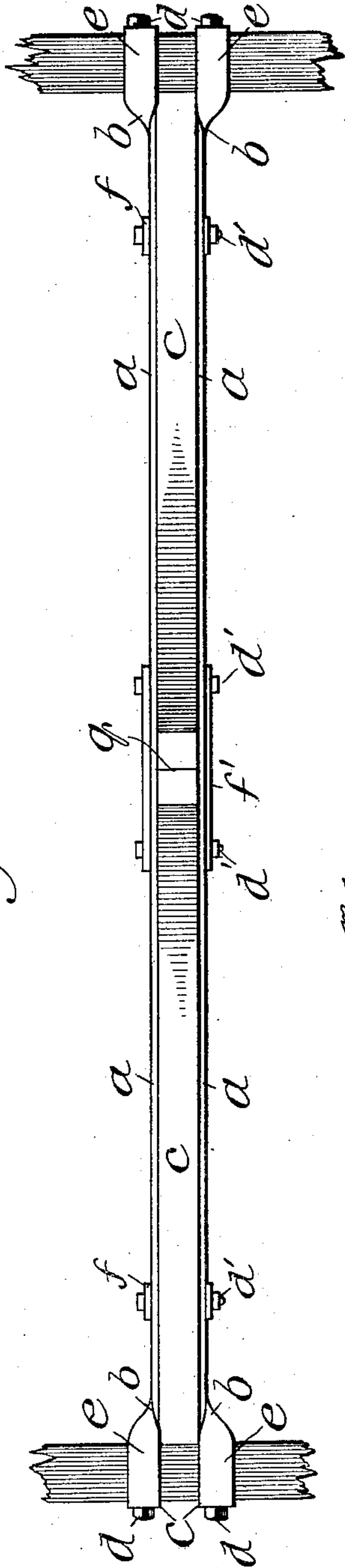


Fig. 2.

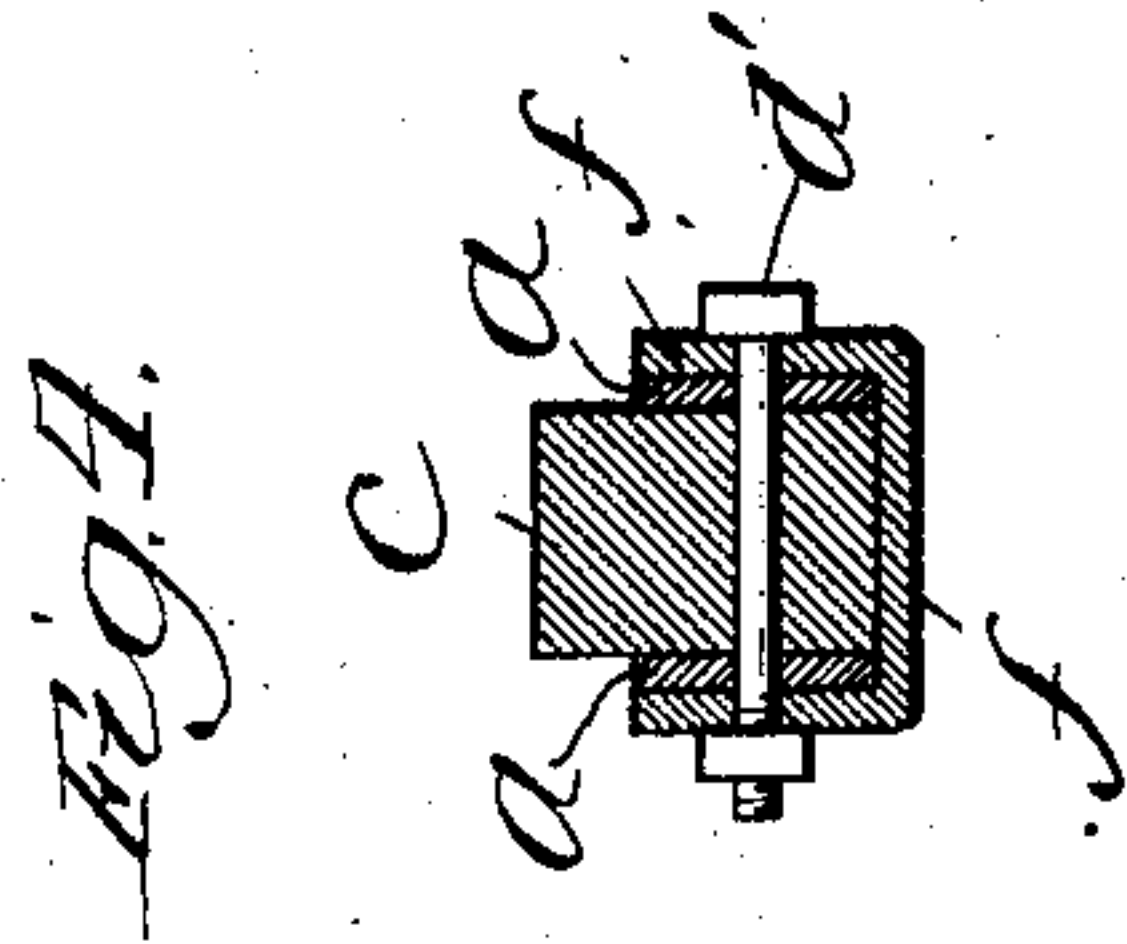


Fig. 4.

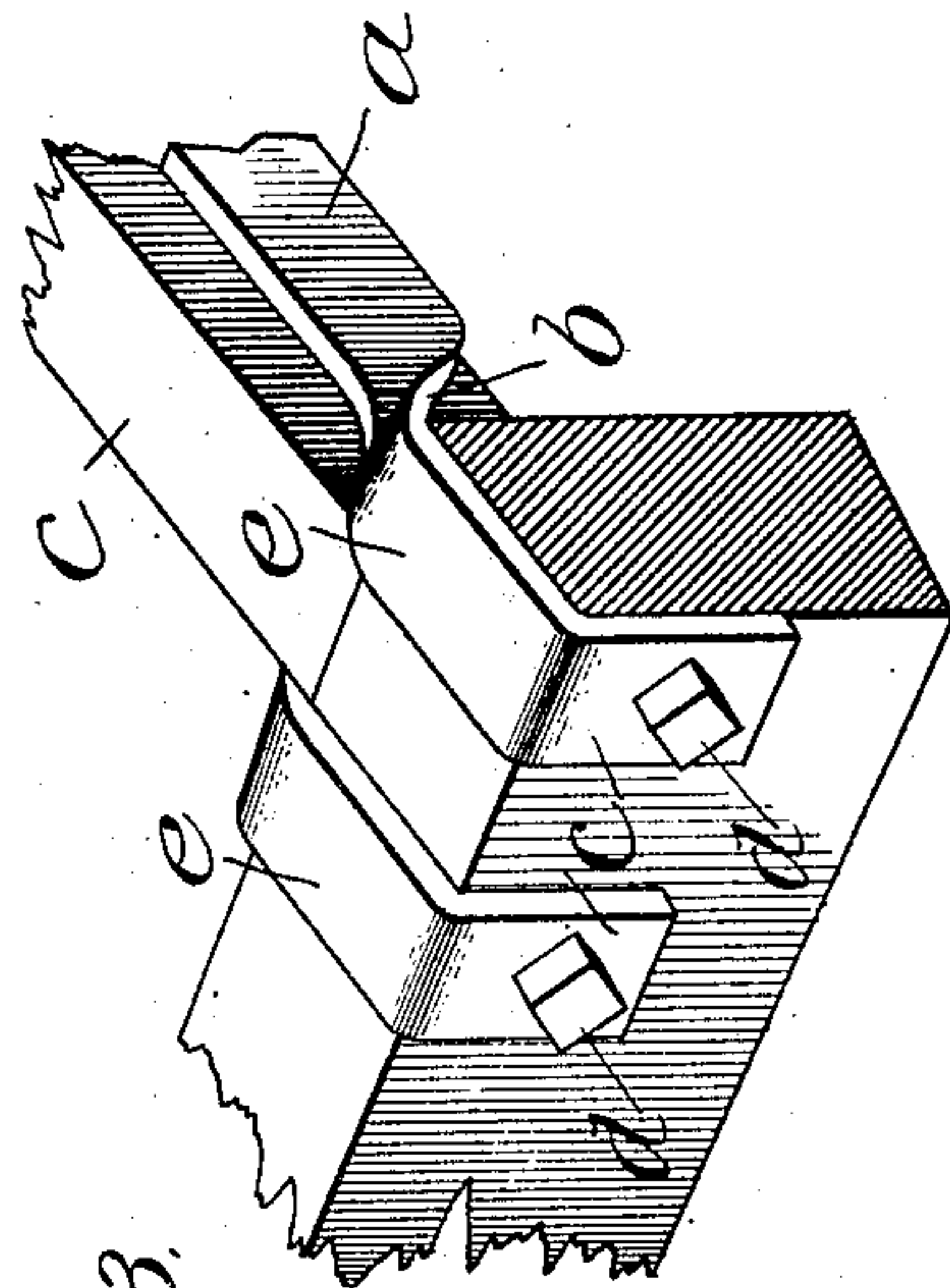


Fig. 3.

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UNITED STATES PATENT OFFICE.

SPENCER OTIS, OF CHICAGO, ILLINOIS, ASSIGNOR TO NATIONAL PATENT HOLDING COMPANY, OF RAPID CITY, SOUTH DAKOTA, A CORPORATION OF SOUTH DAKOTA.

RAILWAY-CAR.

No. 836,942.

Specification of Letters Patent:

Patented Nov. 27, 1906.

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To all whom it may concern:

Be it known that I, SPENCER OTIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Railway-Cars, of which the following is a specification.

My invention relates specifically to freight-cars; and it consists in an improved carline therefor.

Referring to the drawings, Figure 1 is a side elevation of my improved carline; Fig. 2, a top plan view thereof; Fig. 3, a detail in perspective, showing the method of attaching the carline to the sides of the car; and Fig. 4, a transverse section of the carline through one of the U-shaped braces.

In the drawings the letters *a a* represent two parallel metallic straps inclined from their central point downward toward the sides of the car. These straps are twisted at *b* and bent to form supporting-hooks *e*, which are attached to the sides of the car by suitable bolts *d*. Between these straps are filling-pieces *c* of wood or other suitable material, which are adapted to receive fastening devices for securing the roofing to the carline. As shown, there is one of these pieces for each side of the car extending from a line longitudinally central thereof to the sides of the car. These filling-pieces are held between the straps by bolts *d'*, and they are further supported by U-shaped braces *f*, the bolts *d'* passing through the U-shaped braces and straps and the filling-pieces, as clearly shown in Fig. 4. At the central point of the carline, at the junction of the filling-pieces *c*, is arranged an elongated U-shaped brace *f'* and secured in like manner to the straps and filling-pieces. It will be observed that the filling-pieces project slightly above the edge of the metallic straps. It will be seen by this arrangement I have produced a simple

and exceedingly strong support for the roof to which the roofing may be easily secured and one which will so brace and strengthen the car as to add greatly to its resistance in case of collisions.

I claim—

1. A carline comprising parallel straps inclined downwardly from their middle point toward each end and secured to the sides of the car, filling-pieces extending one from each side of the car to a line longitudinally central thereof and held between the straps secured thereto by suitable fastening means, and an elongated U-shaped brace secured to the straps and filling-pieces at the junction-point of the latter.

2. A railway-car having side plates and a combined brace and carline comprising parallel flat metallic straps twisted at their ends and formed into hook portions lapped over the side plates, means for securing the hook portions to the side plates, and a filling-piece secured between the metallic straps.

3. In a railway-car having side plates, a combined brace and carline comprising parallel flat metallic straps bent at their ends to form hooks engaging the side plates, a filling-piece secured between the straps, and U-shaped clips secured to the straps to support the filling-piece.

4. In a railway-car having side plates, a combined brace and carline comprising flat metallic straps conforming to the shape of the car-roof, said straps being bent at their ends to form hooks engaging the side plates, a filling-piece secured between the straps, and an elongated U-shaped central brace secured to the straps, substantially as described.

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