

Title (en)  
Car structure

Title (de)  
Fahrzeugstruktur

Title (fr)  
Structure de voiture

Publication  
**EP 1944213 B1 20110406 (EN)**

Application  
**EP 07250666 A 20070216**

Priority  
JP 2007002628 A 20070110

Abstract (en)  
[origin: EP1944213A1] A car structure is provided which has the required strength against vertical load and vibration while avoiding increase in weight of the structure. At an entrance (6) of the railroad car structure (20) in which a side structure (2) is formed by a hollow member, the side structure (2) and a frame (7) are coupled via an L-shaped fitting (10). The L-shaped fitting (10) consists of a first joint part (10a) which is in the form of a plate and couples a vehicle outer face plate (8) and a vehicle inner face plate (9) and a second joint part (10b) which is in the form of a plate and butt welds a part of the first joint part (10a) near the vehicle outer face plate (8) and the frame (7). Plate thickness of the second joint plate (10b) is larger than plate thickness of the vehicle outer face plate (8). As a result, the required strength against vertical load can be ensured without increasing the plate thickness of the vehicle outer face plate (8), in other words, with little increase in weight of the structure.

IPC 8 full level  
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CPC (source: EP KR US)  
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