

Title (en)  
RAILWAY TRAIN AND CARRIAGE FLOOR STRUCTURE THEREOF

Title (de)  
EISENBAHNSCHIENE UND WAGENBODENSTRUKTUR DAFÜR

Title (fr)  
TRAIN DE CHEMIN DE FER ET STRUCTURE DE PLANCHER DE WAGON ASSOCIÉE

Publication  
**EP 3623247 A4 20210317 (EN)**

Application  
**EP 17935073 A 20171228**

Priority  

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- CN 2017119334 W 20171228

Abstract (en)  
[origin: EP3623247A1] A carriage floor structure of a railway train and a railway train having the same. The carriage floor structure comprises: a floor panel (1); side beams (2) connected to two sides of the floor panel (1) and extending in a length direction of a carriage; and two end connection frames (3) respectively arranged at two ends thereof in the length direction of the carriage and installed at a bottom surface of the floor panel (1). An inner side of each of the end connection frames (3) is provided with a buffer beam (4) extending in the length direction of the carriage. An end portion of the buffer beam (4) is connected to the inner side of the end connection frame (3). A top surface of the buffer beam (4) is fixed to the bottom surface of the floor panel (1). A force applied to the end connection frame (3) of the carriage floor structure is sequentially transferred to a coupler beam (53), the buffer beam (4), the floor panel (1) and the side beam (2). The invention changes a force transfer manner of a conventional structure, and transfers a force applied to the end connection frame (3) to the side beam (2) by means of multiple transfers, thereby preventing breakage at a force-receiving point, and enhancing strength, stability and safety of equipment.

IPC 8 full level  
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CPC (source: EP RU)  
**B61F 1/10** (2013.01 - EP RU); **B61G 7/10** (2013.01 - EP)

Citation (search report)  

- [A] EP 2130739 A1 20091209 - BOMBARDIER TRANSP GMBH [DE]
- [A] CN 103832446 B 20170104
- See also references of WO 2019119500A1

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