

Title (en)

Railcar comprising standardized arrangements beneath the floor of the cars

Title (de)

Triebwagen zum Transport von Reisenden, der standardisierte Anordnungen unter dem Boden der Wagen umfasst

Title (fr)

Automotrice de transport de voyageur comprenant des agencements standardisés sous le plancher des voitures

Publication

EP 2202125 B1 20180815 (FR)

Application

EP 09306276 A 20091218

Priority

FR 0859074 A 20081224

Abstract (en)

[origin: EP2202125A1] The coach (1) has two control carriages (2) and an intermediate carriage (4) equipped with a transformer (12). Two additional carriages (6) are interposed between the control carriages and the intermediate carriage. Unchangeable equipments are arranged under a floor of the additional carriages, where the additional carriages have a free space (22) for receiving a battery, a compressor or optional equipment i.e. high voltage enclosure. The equipments are lavatory tanks, medium voltage enclosures, traction enclosures or electrical/pneumatic apparatuses.

IPC 8 full level

B61C 17/04 (2006.01); **B61D 1/00** (2006.01); **B61D 1/06** (2006.01); **B61D 3/10** (2006.01)

CPC (source: EP KR)

B61C 11/00 (2013.01 - KR); **B61C 15/02** (2013.01 - KR); **B61C 15/14** (2013.01 - KR); **B61C 17/00** (2013.01 - KR); **B61C 17/04** (2013.01 - EP); **B61D 1/00** (2013.01 - EP); **B61D 1/06** (2013.01 - EP); **B61D 3/10** (2013.01 - EP)

Citation (opposition)

Opponent : BOMBARDIER TRANSPORTATION GmbH

- EP 1955917 A1 20080813 - ALSTOM TRANSPORT SA [FR]
- EP 0664250 A1 19950726 - FIREMA RICERCHE SRL [IT]
- EP 1340662 A1 20030903 - BOMBARDIER TRANSP TECHNOLOGY G [DE]
- RAPPENGLÜCK, WALTER: "Die neuen Schnelltriebzüge der Deutschen Bundesbahn Baureihe 403 - Elektrischer Teil", MUNCHEN, O.J., pages: 1 - 43
- ANONYMOUS: "DB-BAUREIHE 403 (1973)", WIKIPEDIA, 29 January 2007 (2007-01-29), XP055593055, Retrieved from the Internet <URL:https://de.wikipedia.org/w/index.php?title=DB-Baureihe_403_(1973)&oldid=27089262>

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2202125 A1 20100630; **EP 2202125 B1 20180815**; **EP 2202125 B2 20211208**; CN 101786458 A 20100728; CN 101786458 B 20141126; ES 2695753 T3 20190110; ES 2695753 T5 20220322; FR 2940227 A1 20100625; FR 2940227 B1 20110211; KR 20100075406 A 20100702; KR 20160150632 A 20161230; PL 2202125 T3 20190131; PL 2202125 T5 20220627

DOCDB simple family (application)

EP 09306276 A 20091218; CN 200911000069 A 20091223; ES 09306276 T 20091218; FR 0859074 A 20081224; KR 20090129768 A 20091223; KR 20160178132 A 20161223; PL 09306276 T 20091218