

Title (en)  
DOUBLE-DECKER RAIL VEHICLE

Title (de)  
DOPPELSTOCK-SCHIENENFAHRZEUG

Title (fr)  
VEHICULE FERROVIAIRE A DEUX ETAGES

Publication  
**EP 2247485 B1 20120912 (DE)**

Application  
**EP 09716240 A 20090227**

Priority  
• EP 2009052369 W 20090227  
• DE 102008012549 A 20080304

Abstract (en)  
[origin: WO2009109528A1] The present invention relates to a double-decker rail vehicle (1) having an upper deck (2) which extends in the direction (F) of travel of the rail vehicle (1), having a lower deck (3) which extends in the direction (F) of travel of the rail vehicle (1), wherein the lower deck (3) runs in a plane underneath the upper deck (2), and having a staircase (4) which connects the upper deck (2) to the lower deck (3), wherein the staircase (4) is a spiral staircase with a plurality of steps (5a, 5b,..., 5i) arranged in a helical shape. In order to form the connection between the upper deck (2) and lower deck (3) in as space-saving a manner as possible, the invention proposes that a plurality of steps (5a, 5b,..., 5h) are constructed and arranged according to the evolute method or circular cutting method.

IPC 8 full level  
**B61D 1/06** (2006.01)

CPC (source: EP)  
**B61D 1/06** (2013.01)

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 TR

DOCDB simple family (publication)  
**DE 102008012549 A1 20090910**; EP 2247485 A1 20101110; EP 2247485 B1 20120912; PL 2247485 T3 20130228;  
WO 2009109528 A1 20090911

DOCDB simple family (application)  
**DE 102008012549 A 20080304**; EP 09716240 A 20090227; EP 2009052369 W 20090227; PL 09716240 T 20090227