

Title (en)

Impact protection for a running gear of a rail vehicle

Title (de)

Aufprallschutz für ein Fahrwerk eines Schienenfahrzeugs

Title (fr)

Protection contre la collision pour un train de roulement d'un véhicule ferroviaire

Publication

EP 2368781 A1 20110928 (EN)

Application

EP 10157308 A 20100323

Priority

EP 10157308 A 20100323

Abstract (en)

The invention relates to a running gear for a rail vehicle, in particular a high speed rail vehicle, comprising a wheel set (105), a running gear frame (104) and a shielding device (109), the running gear frame (104) being supported on the wheel set (105). The shielding device (109) is connected to the running gear frame (104) via a support structure (108) and is spatially associated to at least a shielded component (107) of the running gear (103). The shielding device (109) shields a shielded part (107.1) of the shielded component (107) against impacts of objects (B), in particular pieces of ballast, lifted from a track (T) used during operation of the vehicle. The shielding device (109) and/or the support structure (108) comprises an impact energy absorbing device (109.2, 109.3, 110), the impact energy absorbing device (109.2, 109.3, 110) being adapted to absorb a noticeable fraction of an impact energy of one of the objects (B) hitting the shielding device (109).

IPC 8 full level

B61F 19/06 (2006.01)

CPC (source: EP)

B61F 19/06 (2013.01)

Citation (applicant)

- US 7605690 B2 20091020 - SCHROEDER-BODENSTEIN KASPAR [DE]
- WO 2006021514 A1 20060302 - SIEMENS AG [DE], et al

Citation (search report)

- [YD] WO 2006021514 A1 20060302 - SIEMENS AG [DE], et al
- [Y] DE 102006004814 A1 20070614 - BOMBARDIER TRANSP GMBH [DE]
- [A] EP 1106467 A1 20010613 - ANF IND [FR]

Cited by

DE102015203026A1; EP3109124A1; US2015232107A1; US9469314B2; US10478744B2; WO2024023170A1

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

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2368781 A1 20110928; EP 2368781 B1 20131002; EP 2517944 A2 20121031; EP 2517944 A3 20130227; EP 2517944 B1 20170503; ES 1076280 U 20120222; ES 1076280 Y 20120523; ES 2441122 T3 20140131; ES 2627088 T3 20170726; PL 2368781 T3 20140331; PL 2517944 T3 20171031

DOCDB simple family (application)

EP 10157308 A 20100323; EP 12172761 A 20100323; ES 10157308 T 20100323; ES 12172761 T 20100323; ES 201130313 U 20110323; PL 10157308 T 20100323; PL 12172761 T 20100323