

Title (en)

Railway vehicle with crash absorber, in particular tramway

Title (de)

Schienenfahrzeug mit Crashabsorber-Anordnung, insbesondere Straßenbahn

Title (fr)

Véhicule ferroviaire doté d'un absorbeur d'énergie, notamment pour un tramway

Publication

EP 2277762 A3 20121031 (DE)

Application

EP 10090007 A 20100723

Priority

DE 102009034682 A 20090724

Abstract (en)

[origin: EP2277762A2] The vehicle has lower and upper bumper bars (3, 5) forming impact surfaces and arranged at two heights, respectively. Irreversible crash absorbers (13a, 13b, 15a) are connected to the bumper bars and absorb impact energy on the surfaces during collision, respectively. A coupling has a rod (43) that directs linear movement of a coupling element (47) fastened to the upper bumper bar during collision. The coupling has a stop striking at the coupling element during the linear movement so that the impact energy is absorbed by one of the crash absorbers (13a). An independent claim is also included for a method for manufacturing a crash absorber-arrangement for a railway vehicle.

IPC 8 full level

B61D 15/06 (2006.01); **B61G 11/16** (2006.01)

CPC (source: EP)

B61D 15/06 (2013.01); **B61G 11/16** (2013.01)

Citation (search report)

- [A] US 2008250965 A1 20081016 - CLARK PETER [US], et al
- [A] EP 1854690 A2 20071114 - HITACHI LTD [JP]
- [A] DE 102004016216 A1 20051020 - SIEMENS AG [DE]
- [A] JP 2008126856 A 20080605 - HITACHI LTD
- [A] EP 1215098 A1 20020619 - ALSTOM [FR]
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AT16104U1; CN103608233A; AU2012269183B2; EP2594452A1; US8783479B2; EP3059137A1; FR3032677A1; EP3812232A1; WO2012171880A1

Designated contracting state (EPC)

AL 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)

BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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