

Title (en)
Rail vehicle

Title (de)
Schienenfahrzeug

Title (fr)
Véhicule sur rail

Publication
EP 2165910 B2 20170816 (DE)

Application
EP 08016343 A 20080917

Priority
EP 08016343 A 20080917

Abstract (en)
[origin: EP2165910A1] The vehicle (10) has a vibration damping device including damping masses (15) that are elastically connected with a main frame (11) in a transverse direction of the vehicle such that the device damps arising natural vibrations of the vehicle in a counter phase. A damping mechanism (18) i.e. hydraulic damper, damps movements of the masses. An active actuator controls the masses depending on a movement of the main frame. The masses are suspended at pendulums. The masses are rolled and/or slid on guides, and support elements (16) support the masses.

IPC 8 full level
B61F 1/08 (2006.01)

CPC (source: EP)
B61F 1/08 (2013.01); **B61F 5/24** (2013.01)

Citation (opposition)
Opponent :

- WO 9846467 A1 19981022 - ABB DAIMLER BENZ TRANSP [DE], et al
- JP H06249284 B2
- WO 0078588 A1 20001228 - DAIMLER CHRYSLER AG [DE], et al
- US 3866540 A 19750218 - CAMPH SVEN E
- WO 0134996 A1 20010517 - RAYTHEON CO [US]

Cited by
US11414105B2; WO2019025125A1; WO2019034294A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2165910 A1 20100324; EP 2165910 B1 20110420; EP 2165910 B2 20170816; AT E506238 T1 20110515; DE 502008003291 D1 20110601

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