

Title (en)

Railway vehicle suspension provided with roll stiffness control means

Title (de)

Schienenfahrzeugaufhängung mit Rollsteifigkeit-Steuerungsmitteln

Title (fr)

Suspension de véhicule ferroviaire doté de moyens de commande de résistance au roulis

Publication

**EP 2724912 A1 20140430 (EN)**

Application

**EP 12189656 A 20121024**

Priority

EP 12189656 A 20121024

Abstract (en)

A pneumatic suspension comprises: at least one left air bellows (34L) and at least one right air bellows (34R) to be positioned between a vehicle body (12) of a railway vehicle (10) and a running gear (14) respectively on a left and on a right side of a median longitudinal vertical plane (102) of the running gear (14) to support the vehicle body (12) on the running gear (14), and additional air volume means (36L, 36R) connected to the left and right air bellows (34L, 34R) by means of anti-roll valve means (40L, 40R). A curve detector (42) is connected to the antiroll valve means (40L, 40R) such as to isolate the left and right air bellows (34L, 34R) from the additional air volume means (36L, 36R) when a curve is detected to stiffen the pneumatic suspension when a curve is detected.

IPC 8 full level

**B61F 5/10** (2006.01); **B61F 5/22** (2006.01)

CPC (source: CN EP)

**B61F 5/144** (2013.01 - CN EP); **B61F 5/22** (2013.01 - CN EP)

Citation (applicant)

EP 0568043 A1 19931103 - MAN GHH SCHIENENVERKEHR [DE]

Citation (search report)

- [X1] JP H05238387 A 19930917 - SUMITOMO METAL IND
- [XD1] EP 0568043 A1 19931103 - MAN GHH SCHIENENVERKEHR [DE]
- [A] DE 102005024190 A1 20060126 - SIEMENS TRANSPORTATION SYSTEMS [AT]
- [A] JP 2008239043 A 20081009 - SUMITOMO METAL IND
- [A] JP 2008100614 A 20080501 - RAILWAY TECHNICAL RES INST

Cited by

CN112141153A

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2724912 A1 20140430**; **EP 2724912 B1 20190306**; CN 104755352 A 20150701; CN 104755352 B 20170808; WO 2014064164 A1 20140501

DOCDB simple family (application)

**EP 12189656 A 20121024**; CN 201380055259 A 20131023; EP 2013072197 W 20131023