

Title (en)

RAIL VIBRATION ABSORBER AND FASTENING MECHANISM

Title (de)

SCHIENENSCHWINGUNGSABSORBIERER UND BEFESTIGUNGSMECHANISMUS DAFÜR

Title (fr)

ABSORBEUR DE VIBRATIONS DE RAIL ET MECANISME DE FIXATION

Publication

EP 2513374 A4 20150902 (EN)

Application

EP 10837137 A 20101119

Priority

- US 28603109 P 20091214
- IB 2010055290 W 20101119

Abstract (en)

[origin: WO2011073826A1] A rail vibration absorber and a fastening mechanism are provided. The rail vibration absorber to absorb the vibration from the rail based on a tuned mass damping mechanism. The apparatus comprises at least one vibration absorber (12) adapted to couple to a rail (3, 4), at least one fastening module and at least one mounting module. The mounting module is coupled to the fastening module and also adapted to secure the vibration absorber (12) to the rail (3, 4) at a first location and at a second location substantially different from the first location. When the natural frequencies of the damping system are tuned to the rail vibration frequencies, most of the vibration energy from the rail would be taken up by the absorber.

IPC 8 full level

E01B 19/00 (2006.01)

CPC (source: EP)

E01B 19/003 (2013.01)

Citation (search report)

- [XY] JP 2006002443 A 20060105 - RAILWAY TECHNICAL RES INST, et al
- [Y] WO 2009059512 A1 20090514 - HO WAI LUN [CN]
- [A] EP 1197598 A1 20020417 - COMPOSITE DAMPING MATERIAL NV [BE]
- [A] JP H11132273 A 19990518 - RAILWAY TECHNICAL RES INST, et al
- See references of WO 2011073826A1

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

DOCDB simple family (publication)

WO 2011073826 A1 20110623; CN 102713066 A 20121003; CN 102713066 B 20160106; EP 2513374 A1 20121024; EP 2513374 A4 20150902

DOCDB simple family (application)

IB 2010055290 W 20101119; CN 201080056875 A 20101119; EP 10837137 A 20101119