

Title (en)

Energy absorbing device for a vehicle body of a multi-unit vehicle

Title (de)

Energieverzehrvorrichtung für einen Wagenkasten eines mehrgliedrigen Fahrzeuges

Title (fr)

Dispositif d'absorption d'énergie pour une caisse d'un véhicule composé de plusieurs unités

Publication

EP 2072370 B1 20100623 (DE)

Application

EP 07123312 A 20071217

Priority

EP 07123312 A 20071217

Abstract (en)

[origin: EP2072370A1] The damper (10) between rail wagons, to take up pull and push forces, has a regenerative damping element (11) to absorb forces under normal travel conditions. It also has an energy assimilation unit (20) with a destructive element (21) which converts energy above a critical push force into heat and distortion forces. The damper has two pressure plates (12,13) with the damping element between them. The distorting tube section (23) has at least one guide surface (24) for the interaction between the plates moving the energy assimilation assembly (1) in a longitudinal direction (L).

IPC 8 full level

B61G 9/04 (2006.01); **B61G 11/16** (2006.01)

CPC (source: EP)

B61G 9/06 (2013.01); **B61G 9/22** (2013.01); **B61G 11/16** (2013.01)

Cited by

DE102015204008A1; DE102019113907A1; CN106573630A; CN107667050A; CN103523044A; CN109941304A; CN109070912A; DE102019106961A1; EP2851260A1; CN104512432A; DE102016203921A1; CN108698618A; WO2020239458A1; WO2012016723A1; US10507850B2; US10611387B2; US9878728B2; US11332170B2; WO2016026708A1; WO2016188758A1; WO2013056950A1; WO2017153149A1; WO2020035223A1; WO2017178213A1

Designated contracting state (EPC)

CH DE LI PL SE

DOCDB simple family (publication)

EP 2072370 A1 20090624; **EP 2072370 B1 20100623**; DE 502007004212 D1 20100805; PL 2072370 T3 20101231

DOCDB simple family (application)

EP 07123312 A 20071217; DE 502007004212 T 20071217; PL 07123312 T 20071217