

Title (en)

Collision protection device for railway vehicles

Title (de)

Kollisionsschutzeinrichtung für Schienenfahrzeuge

Title (fr)

Dispositif de protection anti-collision pour véhicules ferroviaires

Publication

EP 1310416 B1 20060510 (DE)

Application

EP 02024783 A 20021107

Priority

DE 10155257 A 20011109

Abstract (en)

[origin: EP1310416A1] Collision protection device for rail vehicles without side buffers at the front comprises energy-absorbing elements (1) arranged in the usual region of the side buffers and suitable for coming into contact with the buffer plate of the side buffers (2) of a second rail vehicle. The energy-absorbing element is designed as a pot (1a) whose opening faces forward in the impact direction and is filled with energy-absorbing material. The pot is fixed to a pressure piece (5) which is connected to the rail vehicle body over a stage (7) so that it can be longitudinally displaced relative to the rail vehicle body (6) to absorb additional deformation energy. Devices for the driver including his seat (8) fixed on the pressure piece are longitudinally displaced together with the pressure piece into the vehicle interior. <??>Preferred Features: The pot has a load-bearing casing forming a longitudinal guide and preventing lateral yielding of the penetrating side buffer.

IPC 8 full level

B61D 15/06 (2006.01); **B61D 17/06** (2006.01); **B61F 19/04** (2006.01)

CPC (source: EP)

B61D 15/06 (2013.01); **B61D 17/06** (2013.01); **B61F 19/04** (2013.01)

Cited by

DE102013009121B3; DE102012221313B3; GB2411632A; EP2033868A1; FR2879549A1; KR101274493B1; EP3168103A1; EP2066545A4; WO2008029970A1; WO2006070103A3; WO2023231424A1; WO2005085031A1; WO2018040892A1; WO2006061038A1; EP3560787A1; EP2808222A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1310416 A1 20030514; **EP 1310416 B1 20060510**; AT E325733 T1 20060615; DE 10155257 A1 20030522; DE 10155257 B4 20080221; DE 50206737 D1 20060614; ES 2261578 T3 20061116

DOCDB simple family (application)

EP 02024783 A 20021107; AT 02024783 T 20021107; DE 10155257 A 20011109; DE 50206737 T 20021107; ES 02024783 T 20021107