

Title (en)

ELASTIC ELEMENT FOR A FASTENING POINT FOR A RAIL FOR RAIL VEHICLES

Title (de)

ELASTISCHES ELEMENT FÜR EINEN BEFESTIGUNGSPUNKT FÜR EINE SCHIENE FÜR SCHIENENFAHRZEUGE

Title (fr)

ÉLÉMENT ÉLASTIQUE POUR UN POINT DE FIXATION POUR UN RAIL DE VÉHICULES FERROVIAIRES

Publication

EP 3472387 C0 20240228 (DE)

Application

EP 17730150 A 20170614

Priority

- DE 102016111064 A 20160616
- EP 2017064558 W 20170614

Abstract (en)

[origin: WO2017216231A1] Elastic element which is intended to be arranged in a fastening point (SB) for a rail (S) for rail vehicles between the rail (S) and the foundation (U) supporting it, wherein the elastic element (1) has a standing surface (2) assigned to the foot (SF) of the rail (S) and a bearing surface (3) assigned to the foundation (U), and wherein the elastic element (1) comprises a basic body (4), which consists of a material which behaves in an elastically flexible manner at least in a loading direction directed towards the standing surface (2), and at least one damping element (D1-D4) which is embedded into the elastic material of the basic body (4), wherein the damping element (D1-D4) has at least one contact portion (14, 19, 23, 25), which is assigned to the standing surface (2) and, with the elastic element (1) unloaded, is oriented flush with the standing surface (2) of the elastic element (1) or projects beyond the standing surface (2) of the elastic element (1), and at least two spaced-apart supporting portions (10, 13, 18, 20, 21, 26) assigned to the bearing surface of the elastic element, and wherein the contact portion (14, 19, 23, 25) is arranged in the region (15) spanned by the damping element (D1-D4) between the supporting portions (10, 13, 18, 20, 21, 26) and is supported in an elastically flexible manner in the manner of a bridge in the loading direction (V).

IPC 8 full level

E01B 1/00 (2006.01); **E01B 9/68** (2006.01); **E01B 19/00** (2006.01)

CPC (source: EP)

E01B 9/681 (2013.01); **E01B 19/003** (2013.01); **E01B 1/005** (2013.01); **E01B 9/685** (2013.01)

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

DE 202017104578 U1 20170830; CN 109312544 A 20190205; CN 109312544 B 20210126; DE 102016111064 A1 20171221; EP 3472387 A1 20190424; EP 3472387 B1 20240228; EP 3472387 C0 20240228; WO 2017216231 A1 20171221

DOCDB simple family (application)

DE 202017104578 U 20170614; CN 201780037606 A 20170614; DE 102016111064 A 20160616; EP 17730150 A 20170614; EP 2017064558 W 20170614