

Title (en)

Support plate for flexible fastenings of railway rails

Title (de)

Stützplatte für flexible Befestigungen von Eisenbahnschienen

Title (fr)

Plaque support pour fixations flexibles de rails de chemin de fer

Publication

**EP 1950347 A3 20100922 (EN)**

Application

**EP 08380021 A 20080128**

Priority

ES 200700170 U 20070126

Abstract (en)

[origin: US2008179419A1] Support plate for flexible fastenings of railway rails applicable in the scope of the railway industry, destined to allow an elastic and flexible fastening for the absorption of deformations produced on the rail, which basically comprises a single-piece structure with means of guiding and supporting a rail ( 21 ) on a bearing area ( 18 ), a plurality of contact slits ( 5 ) and rail shoes ( 9 ) to house and fasten a fastening rail splice ( 6 ) of said rail ( 21 ), an upper part with a flat central span ( 12 ) configured to support a rail ( 21 ) flange ( 22 ), a plurality of securing holes ( 11 ) in each outer area ( 20 ) configured to secure the support plate on a bearing area ( 18 ) and a plurality of ridges ( 16 ) on its underside ( 15 ).

IPC 8 full level

**E01B 9/38** (2006.01); **E01B 9/68** (2006.01)

CPC (source: EP US)

**E01B 9/38** (2013.01 - EP US); **E01B 9/40** (2013.01 - EP US); **E01B 9/483** (2013.01 - EP US); **E01B 9/685** (2013.01 - US)

Citation (search report)

- [X] WO 03012204 A1 20030213 - CHOI TAE WOONG [KR]
- [X] US 2380991 A 19450807 - PAYNE RALPH W
- [YD] US 3439874 A 19690422 - MEIER HERMANN OSKAR, et al
- [YD] ES 285328 U 19860301

Cited by

DE102009041833A1; DE102009041848A1; DE102017106422A1; DE102009041816A1; WO2011032974A1; WO2018172396A1; ES2596238R1; RU206132U1; CN105378181A; RU168914U1; DE102009041833B4; DE102009041817A1; DE102009041817B4; CN105151209A; DE102009041816B4; CN102498246A; EA026788B1; US9758933B2; WO2014140530A1; WO2015004252A1; DE202009014430U1; WO2011032970A2; US8413910B2; DE202009014434U1; US7992796B2; DE202009014462U1; WO2011032969A1; US11702799B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**US 2008179419 A1 20080731**; EP 1950347 A2 20080730; EP 1950347 A3 20100922; EP 1950347 B1 20140305; ES 1064713 U 20070416; ES 1064713 Y 20070716; ES 2473276 T3 20140704

DOCDB simple family (application)

**US 1992208 A 20080125**; EP 08380021 A 20080128; ES 08380021 T 20080128; ES 200700170 U 20070126