

Title (en)
RAIL FASTENING SYSTEM

Title (de)
SCHIENENBEFESTIGUNGSSYSTEM

Title (fr)
SYSTÈME DE FIXATION DE RAIL

Publication
EP 3044372 A1 20160720 (DE)

Application
EP 14759163 A 20140903

Priority
• DE 102013218424 A 20130913
• EP 2014068752 W 20140903

Abstract (en)
[origin: WO2015036304A1] The invention relates to a rail fastening system (S) for fixing a rail element (3) to a ballastless track (5), an intermediate construction (2) being arranged between the rail element (3) and the ballastless track (5), and the rail element (3) being operatively connected to the solid track (5) in an elastic manner. The intermediate construction (2) has only a single elastic intermediate layer element (1; 101) which has a variable modulus of distribution over its cross-section (6) in the direction (7A) of its longitudinal extent, (8) and/or in the direction (7B) transversely to its longitudinal extent (8).

IPC 8 full level
E01B 9/68 (2006.01)

CPC (source: EP IL RU US)
E01B 9/68 (2013.01 - IL RU); **E01B 9/681** (2013.01 - EP IL US); **E01B 9/685** (2013.01 - IL)

Citation (search report)
See references of WO 2015036304A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015036304 A1 20150319; AU 2014320579 A1 20160310; AU 2014320579 A2 20160609; CA 2920961 A1 20150319; CL 2016000557 A1 20160909; CN 105518215 A 20160420; CN 105518215 B 20171215; DK 3044372 T3 20210412; EP 3044372 A1 20160720; EP 3044372 B1 20210106; ES 2856000 T3 20210927; IL 244562 A0 20160421; IL 244562 B 20200930; JP 2016534262 A 20161104; JP 6521980 B2 20190529; KR 102032515 B1 20191015; KR 20160027010 A 20160309; MA 38786 A1 20170131; MA 38786 B1 20171031; MY 179476 A 20201107; PH 12016500251 A1 20160516; PH 12016500251 B1 20160516; PL 3044372 T3 20210823; RU 2016113822 A 20171016; RU 2016113822 A3 20180618; RU 2719086 C2 20200417; SG 11201601574Y A 20160428; TN 2016000091 A1 20170705; UA 118454 C2 20190125; US 10094070 B2 20181009; US 2016138226 A1 20160519

DOCDB simple family (application)
EP 2014068752 W 20140903; AU 2014320579 A 20140903; CA 2920961 A 20140903; CL 2016000557 A 20160310; CN 201480050243 A 20140903; DK 14759163 T 20140903; EP 14759163 A 20140903; ES 14759163 T 20140903; IL 24456216 A 20160313; JP 2016541886 A 20140903; KR 20167001663 A 20140903; MA 38786 A 20140903; MY PI2016700676 A 20140903; PH 12016500251 A 20160204; PL 14759163 T 20140903; RU 2016113822 A 20140903; SG 11201601574Y A 20140903; TN 2016000091 A 20140903; UA A201603970 A 20140903; US 201414900880 A 20140903