Title (en)

Railway sleeper

Title (de)

Eisenbahnschwelle

Title (fr)

Traverse de chemin de fer

Publication

EP 1905896 A1 20080402 (FR)

Application

EP 07291077 A 20070907

Priority

FR 0608356 A 20060922

Abstract (en)

The sleeper (8) has a rigid concrete block (9) with a lower surface, and an upper face to receive a longitudinal rail (4), where the block has a weight ranging between 400 and 450 kilograms. A shoe (20) receives the rigid block, and is formed of a rigid shell comprising a peripheral edge (50) bordering a base of the shell. A resilient tie plate (22) is arranged between the lower surface of the block and the base of the shoe. The tie plate has a dynamic stiffness ranging from 6-8 kilo-newtons per millimeter.

Abstract (fr)

Cette traverse (8) de chemin de fer comprenant : - un bloc rigide (9) présentant une face inférieure, et une face supérieure destinée à recevoir au moins un rail longitudinal (4), - un chausson (20) destiné à recevoir le bloc rigide (9) et formé d'une coque rigide comportant un fond (48) et un rebord périphérique (50) bordant ce fond (48), - une semelle résiliente (22) disposée entre la face inférieure du bloc rigide (9) et le fond (48) du chausson (20). La semelle résiliente (22) a une raideur dynamique k2 comprise entre 6kN/mm et 10kN/mm, de préférence entre 6kN/mm et 8kN/mm.

IPC 8 full level

E01B 1/00 (2006.01); **E01B 3/40** (2006.01)

CPC (source: EP KR US)

E01B 1/005 (2013.01 - EP KR US); **E01B 3/40** (2013.01 - EP KR US); **E01B 3/44** (2013.01 - EP US); **E01B 9/68** (2013.01 - KR); E01B 2204/01 (2013.01 - KR)

Citation (search report)

- [A] EP 0533645 A1 19930324 - GEN RAILWAYS ACTIVITIES [LU]
- [DA] EP 0919666 A1 19990602 - VAGNEUX TRAVERSES BETON [FR]
- [A] FR 2740788 A1 19970509 - VAGNEUX TRAVERSES BETON [FR]
- [A] US 5725149 A 19980310 - GOOSSENS ARMAND [BE]
- [A] EP 1279769 A2 20030129 - VANHONACKER PATRICK [BE], et al
- [A] EP 0440597 A1 19910807 - PORR ALLG BAUGES [AT]

Cited by

WO2010083935A1; CN111630226A; EP3798360A1; AU2018371681B2; US11427970B2; WO2019100089A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1905896 A1 20080402; **EP 1905896 B1 20100414**; AT E464431 T1 20100415; AU 2007216806 A1 20080410; AU 2007216806 B2 20130926; BR PI0702998 A 20080513; BR PI0702998 A8 20160816; BR PI0702998 B1 20190521; CA 2598637 A1 20080322; CA 2598637 C 20150421; CN 101165272 A 20080423; DE 602007005892 D1 20100527; ES 2341300 T3 20100617; FR 2906269 A1 20080328; FR 2906269 B1 20081219; JP 2008101456 A 20080501; KR 20080027450 A 20080327; MX 2007009521 A 20090204; NZ 561705 A 20090430; PL 1905896 T3 20100930; RU 2007135045 A 20090327; RU 2487207 C2 20130710; SG 141363 A1 20080428; TW 200829752 A 20080716; TW I427208 B 20140221; US 2008083835 A1 20080410

DOCDB simple family (application)

EP 07291077 A 20070907; AT 07291077 T 20070907; AU 2007216806 A 20070917; BR PI0702998 A 20070727; CA 2598637 A 20070823; CN 200710152883 A 20070921; DE 602007005892 T 20070907; ES 07291077 T 20070907; FR 0608356 A 20060922; JP 2007245794 A 20070921; KR 20070096518 A 20070921; MX 2007009521 A 20070807; NZ 56170507 A 20070920; PL 07291077 T 20070907; RU 2007135045 A 20070920; SG 2007083900 A 20070921; TW 96133913 A 20070911; US 90338907 A 20070921