

Title (en)

Concrete sleeper sole for high speed rail track

Title (de)

Betonschwellensohle für ein Hochgeschwindigkeitsgleis

Title (fr)

Patin de traverse en béton pour voie ferrée à grande vitesse

Publication

**EP 1186709 B1 20030924 (EN)**

Application

**EP 01500219 A 20010824**

Priority

ES 200002236 A 20000912

Abstract (en)

[origin: EP1186709A2] The sole is fixed to the concrete sleeper (2) by means of a series of linear, continuous, parallel and equidistant projections (3), arranged longitudinally on the underside (4) of the sole (1) which is applied on the base (5) of the sleeper (2). The respective centre planes of said projections (3) for fixing are orthogonal to said underside (4), and, their transversal sections (6) take the form of a double harpoon which prevents the detachment of the sole (1), with respect to the sleeper (2), with the particularity that the edges (7) or outermost projections (3) are separated from the rims (8) of the base of the sleeper (2). Said sole constitutes a supporting bed for the concrete sleepers (2) employed in high speed railway lines, said supporting bed proving effective for reducing the settlement and the friction of the ballast, and also the disorder from vibration in the latter and the and the deterioration of the geometry of the line. <IMAGE>

IPC 1-7

**E01B 3/42**; **E01B 3/28**

IPC 8 full level

**E01B 3/42** (2006.01); **E01B 19/00** (2006.01)

CPC (source: EP)

**E01B 3/42** (2013.01); **E01B 3/46** (2013.01); **E01B 19/003** (2013.01); **E01B 2204/01** (2013.01)

Cited by

WO2012040798A1; WO2012122610A2; RU206455U1; RU2704761C1; RU209419U1; FR2935399A1; DE102004011610A1; FR2983876A1; FR2983875A1; EP1767696A1; BE1019520A5; WO2011020467A1; WO2008122066A1; US9127410B2; WO2013088072A1; WO2013088073A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1186709 A2 20020313**; **EP 1186709 A3 20020703**; **EP 1186709 B1 20030924**; AT E250689 T1 20031015; DE 60100836 D1 20031030; ES 2166732 A1 20020416; ES 2166732 B2 20030701

DOCDB simple family (application)

**EP 01500219 A 20010824**; AT 01500219 T 20010824; DE 60100836 T 20010824; ES 200002236 A 20000912