

Title (en)

Track bed partly injected with foam and method for its production

Title (de)

Teilverschäumter Gleisoberbau und Verfahren für dessen Herstellung

Title (fr)

Assiette de voie partiellement injectée avec une mousse et procédé pour l'exécution de l'assiette

Publication

**EP 1619305 B1 20090506 (DE)**

Application

**EP 05106393 A 20050713**

Priority

- EP 04017427 A 20040723
- EP 05106393 A 20050713

Abstract (en)

[origin: EP1619305A2] The railway track superstructure is located on a base surface (12) and is inclined crossways to the track extent with ballast comprising individual stones (18). Sleepers (20) are embedded in the ballast and rails (24) are fixed to them. Beneath the sleepers the ballast has load absorption areas (26), which when there is train movement on the rails take up loads acting vertically on the ballast and on the base surface beneath the ballast. The hollow spaces between the ballast stones within the load absorption areas are filled with a foam material (28), particularly polyurethane and between the ballast and the base surface an elastic drainage layer (14) is arranged.

IPC 8 full level

**E01B 1/00** (2006.01); **E01B 27/18** (2006.01)

CPC (source: EP)

**E01B 1/001** (2013.01); **E01B 1/008** (2013.01); **E01B 27/18** (2013.01); **E01B 2204/03** (2013.01)

Cited by

EP3385446A1; DE102010062651A1; DE102010016733A1; EP2730699A1; WO2018185702A1; WO2023131652A1; WO2011134967A1; US7891576B2; CN114808565A; CN106545361A; AU2008241025B2; KR101468245B1; DE102010016733B4; CN103003494A; AU2011247647B2; DE102007019669A1; WO2013057068A2; DE102007057064A1; WO2009068169A1; WO2008009882A3; WO2008128665A1; WO2020109267A1; DE102011053368A1; WO2013034643A2; US8978995B2; WO2014072460A1; WO2007090902A1; WO2008101269A1; WO2007090901A3; WO2014006144A1; WO2021005015A1; DE102022200074A1; WO2007090901A2; US7896255B2; WO2013030149A1; US9562332B2; US8938887B2; US9822491B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1619305 A2 20060125**; **EP 1619305 A3 20060906**; **EP 1619305 A8 20060719**; **EP 1619305 B1 20090506**; AT E430837 T1 20090515; DE 502005007225 D1 20090618; ES 2326125 T3 20091001; PL 1619305 T3 20091030

DOCDB simple family (application)

**EP 05106393 A 20050713**; AT 05106393 T 20050713; DE 502005007225 T 20050713; ES 05106393 T 20050713; PL 05106393 T 20050713