

Title (en)

Arrangement for filling cracks in railway sleepers

Title (de)

Schwellenrissanierung

Title (fr)

Comblement des lézardes dans une traverse de chemin de fer

Publication

EP 2405080 A1 20120111 (DE)

Application

EP 10405133 A 20100709

Priority

EP 10405133 A 20100709

Abstract (en)

The method involves using a casting agent with pourable epoxy resin mortar for sealing cracks in concrete crossties, where the cracks exhibit width equal to or less than 1 mm. The mortar contains a mixture of epoxy resin binder e.g. Icosit KC 220/60 TX(RTM: 2-component epoxy binder), and quartz sand, where the quartz sand exhibits grain size of 0.1 to 1 mm. A mixture ratio of the binder and the quartz sand is 1 to 1. The sealed cracks are dried by a propane thawing device before the cracks are cast with the mixture. An independent claim is also included for a casting agent comprising pourable epoxy resin mortar.

Abstract (de)

Die Erfindung betrifft ein Verfahren und ein Vergussmittel zum Verschliessen von Rissen in Betonschwellen einer Eisenbahnschiene, insbesondere in Betonschwellen einer festen Fahrbahn, wobei die Risse eine Breite von gleich oder kleiner 1 mm aufweisen. Erfindungsgemäss wird ein Gemisch eines Epoxidharzbindemittels mit Quarzsand verwendet, wobei der Quarzsand eine Körnung von 0.1 mm bis 1 mm aufweist.

IPC 8 full level

E01B 31/20 (2006.01); **E04G 23/02** (2006.01)

CPC (source: EP US)

E01B 31/20 (2013.01 - EP US); **E04G 23/0203** (2013.01 - EP US); **E04G 23/0211** (2013.01 - EP)

Citation (search report)

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- [I] GB 2265901 A 19931013 - BAILEY PAUL DOUGLAS [GB]
- [I] DE 10148533 A1 20030410 - ZUEBLIN AG [DE]
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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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2405080 A1 20120111; AU 2011276931 A1 20130117; CA 2803648 A1 20120112; DK 2591185 T3 20150413; EA 021221 B1 20150430; EA 201291478 A1 20130628; EP 2591185 A1 20130515; EP 2591185 B1 20150114; ES 2531045 T3 20150310; US 2013147075 A1 20130613; WO 2012003594 A1 20120112

DOCDB simple family (application)

EP 10405133 A 20100709; AU 2011276931 A 20110630; CA 2803648 A 20110630; CH 2011000156 W 20110630; DK 11730876 T 20110630; EA 201291478 A 20110630; EP 11730876 A 20110630; ES 11730876 T 20110630; US 201113809005 A 20110630