Title (en)

Rail fixing system with impact rings embedded in concrete and concrete anchors

Title (de)

Schienenbefestigungssystem mit einbetonierten Stürzringen und Betonankern

Title (fr)

Système de fixation de rails avec bagues d'appui bétonnées et ancrages en béton

Publication

EP 2644774 A2 20131002 (DE)

Application

EP 13161162 A 20130326

Priority

DE 102012102554 A 20120326

Abstract (en)

The system has instep clamps (3) anchored in a concrete sleeper (10) and frictionally connected with an angular guiding plate (4) and a foot of a rail (9) through a WD bolt (5), which is passed through the guiding plate. The rail is laterally arranged and partially embedded in the guiding plate. A concrete anchor (8) is embedded in the concrete sleeper. The bolt is inserted in a supporting ring (6) and connected with the concrete anchor. The supporting ring and the concrete anchor are concreted in the concrete sleeper. The bolt is designed as a threaded bolt.

Abstract (de)

Die Erfindung beschreibt ein Schienenbefestigungssystem für Schienen auf Betonschwellen, wobei Stützringe und Betonanker in die Betonschwelle einbetoniert sind.

IPC 8 full level

E01B 9/30 (2006.01); **E01B 9/02** (2006.01); **E01B 9/10** (2006.01)

CPC (source: EP)

E01B 9/02 (2013.01); **E01B 9/10** (2013.01); **E01B 9/30** (2013.01)

Citation (applicant)
- WO 2006029803 A1 20060323 - BUTZBACHER WEICHENBAU GMBH [DE], et al
- DE 10148726 A1 20030417 - KRUPP GFT GES FUER TECHNIK MBH [DE]
- DE 3111876 A1 19820609 - SCHMITTHELM FA ERNST [DE]
- DE 19929283 A1 20001228 - GUDEHUS GERD [DE], et al
- JP 2002242103 A 20020828 - RAILWAY TECHNICAL RES INST, et al

Cited by

CN112553980A

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)

EP 2644774 A2 20131002; **EP 2644774 A3 20150902**

DOCDB simple family (application)

EP 13161162 A 20130326