

Title (en)

Pad underneath a sleeper for protection to ballast

Title (de)

Unterlage unter einer Schwelle als Schutz zum Bettungsmaterial

Title (fr)

Semelle sous traverse pour protection du ballast

Publication

EP 0833008 A1 19980401 (FR)

Application

EP 97402274 A 19970930

Priority

FR 9611872 A 19960930

Abstract (en)

A concrete railway sleeper sole plate (1) has tubular projections (11) on its upper surface to engage with the concrete during casting and release any air container in it, and an elastomer covering layer on its underside. The projections are made with divergent upper edges for an improved grip with the concrete, while the elastomer covering layer is taken over the edges of the plate and fastened to its upper surface. It also forms a lining to the tubular projections.

Abstract (fr)

L'invention concerne une semelle pour traverse (T) de chemin de fer en béton (B), caractérisée en ce qu'elle comprend, d'une part, une plaque de support (1) dont la face supérieure (1a) noyée dans ledit béton (B) est pourvue de moyens d'accrochage (11) dans la traverse (T) et de moyens d'échappement (10) de l'air inclus dans ladite traverse (T) lors de la coulée du béton (B) et, d'autre part, un revêtement élastomère (2) solidaire d'au moins la face inférieure (1b) de ladite plaque (1). <IMAGE>

IPC 1-7

E01B 3/00; E01B 3/28; E01B 3/46; E01B 9/68; E01B 19/00

IPC 8 full level

E01B 3/28 (2006.01); **E01B 3/32** (2006.01)

CPC (source: EP KR)

E01B 3/28 (2013.01 - EP); **E01B 3/42** (2013.01 - KR); **E01B 3/46** (2013.01 - EP); **E01B 2204/01** (2013.01 - EP); **E01B 2204/10** (2013.01 - KR)

Citation (search report)

- [A] EP 0733738 A1 19960925 - VAGNEUX TRAVERSES BETON [FR]
- [A] GB 2207693 A 19890208 - COSTAIN CONCRETE COMPANY LIMIT
- [A] FR 2511405 A1 19830218 - LUCHAIRE SA [FR]
- [A] EP 0465390 A1 19920108 - ETANCHEITE LES REVETEMENTS ET [FR], et al
- [A] EP 0440597 A1 19910807 - PORR ALLG BAUGES [AT]

Cited by

RU2756929C1; GB2582778A; ES2166732A1; EP1186709A3; FR2983876A1; FR2983875A1; RU209004U1; WO2008122066A1; WO2008122065A1; WO2013088072A1; WO2013088073A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0833008 A1 19980401; EP 0833008 B1 20020828; DE 69714932 D1 20021002; DE 69714932 T2 20030327; ES 2185887 T3 20030501; FR 2753998 A1 19980403; FR 2753998 B1 19981218; JP H10183503 A 19980714; KR 19980025137 A 19980706; TW 494163 B 20020711

DOCDB simple family (application)

EP 97402274 A 19970930; DE 69714932 T 19970930; ES 97402274 T 19970930; FR 9611872 A 19960930; JP 25205397 A 19970917; KR 19970049860 A 19970930; TW 86117658 A 19971125