

Title (en)

Superstructure and substructure of railway bed for rail vehicles.

Title (de)

Gleisober- und Gleisunterbau für schienengebundene Fahrzeuge.

Title (fr)

Superstructure et infrastructure de voie pour véhicules ferroviaires.

Publication

**EP 0440597 B1 19940202 (DE)**

Application

**EP 91890009 A 19910123**

Priority

AT 19990 A 19900130

Abstract (en)

[origin: EP0440597A1] Superstructure and substructure of railway bed for rail-borne vehicles, rails (10) with the rail foot (11) indirectly or directly, preferably via intermediate plates (14) which are constructed of rubber-elastic material, for example rubber, polyurethane or the like, being detachably connected to sleepers (1), the concrete sleepers (1) which are if appropriate provided with a prestressed armouring (6, 7), in particular a steel, reinforcement, are connected in each case to at least two rails (10) and rest on the support surface via a ballast bed, the concrete sleepers having on their faces in contact with the ballast bed (16) at least one coating (18, 21) which is constructed with rubber-elastic materials and is connected adhesively at least partially to the surface of the concrete sleeper (1). <IMAGE>

IPC 1-7

**E01B 3/46**; **E01B 19/00**

IPC 8 full level

**E01B 3/28** (2006.01); **E01B 1/00** (2006.01); **E01B 3/32** (2006.01); **E01B 3/34** (2006.01); **E01B 3/46** (2006.01); **E01B 19/00** (2006.01)

CPC (source: EP)

**E01B 1/001** (2013.01); **E01B 3/46** (2013.01); **E01B 19/00** (2013.01); **E01B 1/005** (2013.01); **E01B 2204/01** (2013.01)

Cited by

JP2006037349A; DE29721118U1; CN108486963A; EP1908881A1; EA014736B1; US2018272522A1; US11247327B2; EP0733738A1; FR2732046A1; EP1279769A3; EP1905896A1; AU2007216806B2; DE102009039288B4; CN108660867A; EP0833008A1; FR2753998A1; EP0826827A3; CN108951309A; WO2010083935A1; WO2008040549A1; WO2008134336A1; WO2014197916A1; WO2009108972A1; US7942342B2; US8430334B1; US9080291B2; EP0465390B1; EP4083320A1; WO9614470A1; WO2013068259A1; WO2024077669A1

Designated contracting state (EPC)

AT CH DE LI

DOCDB simple family (publication)

**EP 0440597 A1 19910807**; **EP 0440597 B1 19940202**; AT 405197 B 19990625; AT A19990 A 19981015; AT E101218 T1 19940215; CS 9100201 A2 19911015; CZ 278333 B6 19931117; DE 59100962 D1 19940317; HU 216174 B 19990428; HU 910311 D0 19910828; HU T56894 A 19911028; SK 279244 B6 19980805

DOCDB simple family (application)

**EP 91890009 A 19910123**; AT 19990 A 19900130; AT 91890009 T 19910123; CS 20191 A 19910129; DE 59100962 T 19910123; HU 31191 A 19910129; SK 20191 A 19910129