Title (en)

BEARING SYSTEM AND BEARINGS

Title (de)

LAGERSYSTEM UND LAGER

Title (fr)

SYSTEME SUPPORT ET SUPPORT Y RELATIF

Publication

EP 1395709 A1 20040310 (DE)

Application

EP 02764569 A 20020516

Priority

- DE 10128362 A 20010612
- EP 0205418 W 20020516

Abstract (en)

[origin: DE10128362A1] The bearing system for high-speed rail links (1) comprises beam units (2) on several supports (4, 5, 6) which allow displacements and/or rotations of the beam units to take place. Also claimed are a bearing for the proposed bearing system, and a device for height adjustment of such a bearing.

[origin: DE10128362A1] The invention relates to a bearing system for bearing a large number of transport route supports (2), which together form a line (1) that is supported on a substructure, for a high-speed train (3). The bearing system for a transport route support (2) comprises three bearing units (4, 5, 6), each consisting of two bearings lying opposite one another (2) on the central longitudinal plane of the transport route support. As the high-speed train (3) passes over the transport route support (2) at approximately 500km/h, it subjects said support to a sinusoidal oscillation (7) in such a way that the support deforms in a corresponding manner between the bearing pairs. This produces a tilting and displacement motion in the bearing units, which must be absorbed by a suitable bearing construction and appropriate bearing materials, without causing a misalignment at the joint of two transport route supports (2).

IPC 1-7

E01D 19/04; E01B 25/00

IPC 8 full level

E01B 25/30 (2006.01); **E01D 19/04** (2006.01)

CPC (source: EP)

E01B 25/305 (2013.01); **E01D 19/04** (2013.01)

Citation (search report)

See references of WO 02101151A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10128362 A1 20021219; **DE 10128362 A9 20061019**; AT 534771 T 20111215; CN 100447028 C 20081231; CN 1390732 A 20030115; EP 1395709 A1 20040310; EP 1395709 B1 20111123; WO 02101151 A1 20021219

DOCDB simple family (application)

DE 10128362 A 20010612; AT 02764569 T 20020516; CN 01118893 A 20010629; EP 0205418 W 20020516; EP 02764569 A 20020516