

Title (en)

TRACK WITH A LEVELLING CURVE AND FORCE-MINIMAL SUPERELEVATION RAMP

Title (de)

GLEIS MIT ÜBERGANGSBOGEN UND KRÄFTEMINIMALER ÜBERHÖHUNGSRAMPE

Title (fr)

VOIE FERREE A COURBE DE RACCORDEMENT ET A RAMPE DE SURHAUSSEMENT A FORCES MINIMALES

Publication

EP 1523597 A1 20050420 (DE)

Application

EP 03765068 A 20030722

Priority

- AT 11162002 A 20020723
- EP 0307936 W 20030722

Abstract (en)

[origin: WO2004009906A1] A track comprising a track centre line of variable curvature on a horizontal section and having a variable superelevation angle. The curvature is determined on the basis of an assumed superelevation function such that the overall non-compensated lateral acceleration at a selected fixed aligning height, taking into account the amount of non-compensated lateral acceleration caused by the swaying movement, has a characteristic curve like that of said function and fulfils the following differential equation (formula I) wherein: KH(S) represents the curvature of the track centre line on a horizontal section, s represents the curve length along the track centre line, KC represents the constant reference curvature (in an arc), C represents the constant reference elevation angle (in an arc), (S) represents the elevation angle, h represents the aligning height, d represents the differential operator.

IPC 1-7

E01B 5/14; E01B 26/00

IPC 8 full level

E01B 2/00 (2006.01)

CPC (source: EP)

E01B 2/00 (2013.01)

Citation (search report)

See references of WO 2004009906A1

Cited by

WO2022178612A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

WO 2004009906 A1 20040129; AT 412975 B 20050926; AT A11162002 A 20050215; AT E401455 T1 20080815; AU 2003251430 A1 20040209; AU 2003251430 A8 20040209; DE 50310165 D1 20080828; DK 1523597 T3 20081117; EP 1523597 A1 20050420; EP 1523597 B1 20080716; ES 2310671 T3 20090116; ME P15108 A 20100610; PT 1523597 E 20081023; RS 20050056 A 20070803; RS 51441 B 20110430; SI 1523597 T1 20081231

DOCDB simple family (application)

EP 0307936 W 20030722; AT 03765068 T 20030722; AT 11162002 A 20020723; AU 2003251430 A 20030722; DE 50310165 T 20030722; DK 03765068 T 20030722; EP 03765068 A 20030722; ES 03765068 T 20030722; ME P15108 A 20030722; PT 03765068 T 20030722; SI 200331396 T 20030722; YU P20050056 A 20030722