

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 B1 20080716 (DE)

Application

EP 03765068 A 20030722

Priority

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- 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 8 full level

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