

Title (en)

Rail vehicle with variable axel geometry

Title (de)

SCHIENENFAHRZEUG MIT VARIABLER ACHSGEOMETRIE

Title (fr)

Véhicule sur rails doté d'une géométrie d'essieu variable

Publication

**EP 2552761 B1 20200617 (DE)**

Application

**EP 11714719 A 20110328**

Priority

- EP 10158173 A 20100329
- EP 2011054719 W 20110328
- EP 11714719 A 20110328

Abstract (en)

[origin: EP2371656A1] The vehicle (S) has axles (A1) i.e. wheel sets, rotatably supported around a rotating point, and actuators (AKT1, AKT2) connected to sides of the axles, respectively, where ends of the actuators are connected with a frame of the vehicle. Horizontal angle positions ( $\alpha_1$ ,  $\alpha_2$ ) of the respective axles opposite to the frame are adjusted by modulation of lengths of the actuators during the operation of the vehicle, such that a preset transverse displacement and a preset shaft angle ( $\alpha$ ) are achieved, where the displacement and the angle are determined by a model-based method.

IPC 8 full level

**B61F 5/38** (2006.01)

CPC (source: EP RU US)

**B61F 5/38** (2013.01 - EP RU US)

Citation (examination)

- EP 0387742 A1 19900919 - ALSTHOM CREUSOT RAIL [FR]
- EP 0368403 A1 19900516 - SOCIMI [IT]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 10158173 A 20100329**; CA 2794789 A 20110328; CN 201180016942 A 20110328; EP 11714719 A 20110328; EP 2011054719 W 20110328; JP 2013501786 A 20110328; RU 2012145886 A 20110328; US 201113636364 A 20110328