

Title (en)

PATHWAY DETECTION OF A LIGHT RAIL VEHICLE AHEAD A TURNOUT WITHOUT DETECTING THE TURNOUT POSITION

Title (de)

FAHRWEG ERKENNUNG EINES STADTBAHNFAHRZEUGS VOR EINER WEICHE OHNE ERKENNUNG DER WEICHENSTELLUNG

Title (fr)

DÉTECTION DE VOIE D'UN VÉHICULE FERROVIAIRE LÉGER AVANT UN BRANCHEMENT SANS DÉTECTER LA POSITION DE BRANCHEMENT

Publication

**EP 4079598 A1 20221026 (EN)**

Application

**EP 21169286 A 20210420**

Priority

EP 21169286 A 20210420

Abstract (en)

The present invention relates to a method for anticipating a pathway (3) of a light rail vehicle (1) ahead of a turnout (2) by excluding pathways (3) of possible pathways (3) by inspecting flangeways (6) of the possible pathways with detection means (8) and determining the possible pathway if the flangeways (6) continue throughout the turnout (2), and/or determining the anticipated pathway (3) if the speed of the vehicle (1) is higher than an allowed speed of a possible pathway (3).

IPC 8 full level

**B61L 15/00** (2006.01); **B61L 23/04** (2006.01)

CPC (source: EP)

**B61L 15/0072** (2013.01); **B61L 23/04** (2013.01)

Citation (applicant)

- US 2004073342 A1 20040415 - KANE MARK EDWARD [US], et al
- US 2014247356 A1 20140904 - FORNI VIRGINIE [FR], et al

Citation (search report)

- [XAI] WO 2020012475 A1 20200116 - RAIL VISION LTD [IL]
- [XA] DE 102014220778 A1 20160414 - BOSCH GMBH ROBERT [DE]
- [A] JP 2020179798 A 20201105 - MEIDENSHA ELECTRIC MFG CO LTD
- [XA] GUO ZIMING ET AL: "Frog and Blade Based Branching Direction Detection in LiDAR Data", 2019 IEEE INTELLIGENT TRANSPORTATION SYSTEMS CONFERENCE (ITSC), IEEE, 27 October 2019 (2019-10-27), pages 2687 - 2692, XP033668699, DOI: 10.1109/ITSC.2019.8917377

Designated contracting state (EPC)

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KH MA MD TN

DOCDB simple family (publication)

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