

Title (en)

RAIL TRACK BRANCH DETECTION APPARATUS AND PROGRAM

Title (de)

VORRICHTUNG UND PROGRAMM ZUR ERKENNUNG VON SCHIENENVERZWEIGUNGEN

Title (fr)

APPAREIL ET PROGRAMME DE DÉTECTION DE BRANCHEMENT DE VOIE FERRÉE

Publication

EP 4223614 A1 20230809 (EN)

Application

EP 22211385 A 20221205

Priority

JP 2022007295 A 20220120

Abstract (en)

It is an objective to provide a rail track branch detection apparatus and a program that can detect a branching track of a railroad with higher accuracy. The rail track branch detection apparatus according to an embodiment includes a track detector and a clustering device. The track detector executes track detection of detecting a track of one route of a railroad vehicle from an image captured in an advancing direction of the railroad vehicle, multiple times according to the number of a plurality of preset detection parameters. The clustering device detects a branch of the track in the image by classifying a plurality of track detection results obtained by the track detector into a plurality of clusters.

IPC 8 full level

B61L 23/04 (2006.01); **B61K 9/08** (2006.01)

CPC (source: CN EP)

B61K 9/08 (2013.01 - CN EP); **B61L 15/00** (2013.01 - CN); **B61L 23/04** (2013.01 - EP); **B61L 23/041** (2013.01 - CN)

Citation (applicant)

- JP H0476213 B2 19921203
- JP H063477 B2 19940112

Citation (search report)

- [X] WO 2018073778 A1 20180426 - RAIL VISION LTD [IL]
- [I] EP 1236634 A1 20020904 - DIGITAL IMAGE RES LTD [GB]
- [I] WO 2015015494 A1 20150205 - KATZ ELEN JOSEF [IL], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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