

Title (en)

METHOD AND MONITORING SYSTEM FOR DETERMINING A POSITION OF A RAIL VEHICLE

Title (de)

VERFAHREN UND ÜBERWACHUNGSSYSTEM ZUR ERMITTLUNG EINER POSITION EINES SCHIENENFAHRZEUGS

Title (fr)

PROCÉDÉ ET SYSTÈME DE SURVEILLANCE POUR DÉTERMINER UNE POSITION D'UN VÉHICULE FERROVIAIRE

Publication

EP 4077098 A1 20221026 (DE)

Application

EP 20811568 A 20201120

Priority

- AT 4022019 A 20191216
- EP 2020082791 W 20201120

Abstract (en)

[origin: WO2021121854A1] The invention relates to a method for determining a position of a rail vehicle (1), which is moving along a track (8), by means of an optical measuring system (5) that comprises a stereo camera system (11) and an evaluation device (12), wherein an image pair is recorded from a reference point (13) in lateral surroundings of the track (8) by means of the stereo camera system (11) and wherein the position of the rail vehicle (1) in relation to the reference point (13) is determined by means of photogrammetry. The position of the rail vehicle (1) is also detected by means of a radio-based measuring system (6) for real-time localisation by means of an anchor module (15) attached to the rail vehicle (1) and by means of transponders (15) attached to a plurality of reference points (13), wherein position data of the two measuring systems (5, 6) are compared by means of a system control centre (17). Two independent measuring systems (5, 6) are used in this way to generate position data.

IPC 8 full level

B61L 25/02 (2006.01); **B61L 23/06** (2006.01)

CPC (source: AT EP US)

B61L 23/06 (2013.01 - EP US); **B61L 25/02** (2013.01 - AT); **B61L 25/025** (2013.01 - AT EP US); **B61L 2205/04** (2013.01 - AT US)

Citation (search report)

See references of WO 2021121854A1

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021121854 A1 20210624; AT 17358 U1 20220215; EP 4077098 A1 20221026; JP 2023506870 A 20230220; US 2023022877 A1 20230126

DOCDB simple family (application)

EP 2020082791 W 20201120; AT 80092021 U 20191216; EP 20811568 A 20201120; JP 2022536851 A 20201120; US 202017783809 A 20201120