

Title (en)

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

Title (de)

VERFAHREN UND MESSSYSTEM ZUR ERMITTLUNG EINER POSITION EINES SCHIENENFAHRZEUGS

Title (fr)

PROCÉDÉ ET SYSTÈME DE MESURE POUR DÉTERMINER LA POSITION D'UN VÉHICULE FERROVIAIRE

Publication

EP 4330113 A1 20240306 (DE)

Application

EP 22723550 A 20220324

Priority

- AT 503092021 A 20210426
- EP 2022057766 W 20220324

Abstract (en)

[origin: WO2022228789A1] The invention relates to a method for determining a position of a rail vehicle (1), which is moving along a track (3), by means of a measuring system (6) that comprises a stereo camera system (5) and an evaluation device (16), wherein an image pair is recorded from a reference marker (7) in lateral surroundings of the track (3) by means of the stereo camera system (5) and wherein the position of the rail vehicle (1) in relation to the reference marker (7) is determined by means of photogrammetry. Lateral surroundings of the rail vehicle (1) are illuminated with polarised light by means of at least one light source (21) of the measuring system, wherein the polarised light is reflected by a retroreflector (15) located on the reference marker (7), and wherein the polarised light reflected by the retroreflector (15) is received by a polarisation filter (22) by means of the stereo camera system (5). In this way, sunlight and the light from other artificial light sources are blocked out.

IPC 8 full level

B61L 23/04 (2006.01); **B61L 25/02** (2006.01); **E01B 35/00** (2006.01)

CPC (source: AT EP)

B61L 23/041 (2013.01 - EP); **B61L 25/02** (2013.01 - AT); **B61L 25/025** (2013.01 - EP); **E01B 35/00** (2013.01 - EP); **G01C 11/00** (2013.01 - AT); **G01S 17/02** (2013.01 - AT)

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 2022228789 A1 20221103; AT 524957 A4 20221115; AT 524957 B1 20221115; EP 4330113 A1 20240306

DOCDB simple family (application)

EP 2022057766 W 20220324; AT 503092021 A 20210426; EP 22723550 A 20220324