

Title (en)

METHOD FOR DETERMINING AN ORIENTATION OF A RAIL VEHICLE IN A TRAIN ASSEMBLY

Title (de)

VERFAHREN ZUR BESTIMMUNG DER AUSRICHTUNG EINES SCHIENENFAHRZEUGS IN EINEM ZUGVERBAND

Title (fr)

PROCÉDÉ DE DÉTERMINATION D'UNE ORIENTATION D'UN VÉHICULE FERROVIAIRE DANS UN ENSEMBLE DE TRAIN

Publication

EP 3269616 A1 20180117 (EN)

Application

EP 16179751 A 20160715

Priority

EP 16179751 A 20160715

Abstract (en)

A method for determining an orientation of a rail vehicle in a train assembly - the train assembly (10) comprising a plurality of rail vehicles (1, 11, 12), - wherein said plurality of rail vehicles are linked by a pressurized air line (17), - wherein at least one of the rail vehicles (1, 11, 12) comprises, at a first position, in longitudinal direction (L), a first sensor (2, 13, 15), for detecting a pneumatic signal in the air line (17), and - wherein the at least one rail vehicle (1, 11, 12) comprises, at a second position, in longitudinal direction (L), a second sensor (3, 14, 16), for measuring a pneumatic signal in the air line (17), the method comprising - Sending a pneumatic signal through said air line (17), - Detecting the pneumatic signal at the first sensor (2, 13, 15) and at the second sensor (3, 14, 16), - Determining a signal-time shift between the pneumatic signal at the first sensor (2, 13, 15) and the pneumatic signal at the second sensor (3, 14, 16), - Determining the orientation of the rail vehicle (1, 11, 12) from said signal-time shift.

IPC 8 full level

B61L 25/02 (2006.01); **B61L 15/00** (2006.01)

CPC (source: EP RU)

B61L 25/028 (2013.01 - EP RU); **B61L 15/0036** (2013.01 - EP); **B61L 15/0054** (2013.01 - EP); **B61L 15/0081** (2013.01 - EP)

Citation (applicant)

US 5986579 A 19991116 - HALVORSON DAVID H [US]

Citation (search report)

- [X] EP 0968897 A2 20000105 - SAB WABCO SPA [IT], et al
- [X] EP 2662258 A2 20131113 - DB SCHENKER RAIL DEUTSCHLAND AG [DE]
- [X] US 2016114819 A1 20160428 - SMITH EUGENE [US], et al

Cited by

WO2023227524A1

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

DOCDB simple family (publication)

EP 3269616 A1 20180117; **EP 3269616 B1 20210901**; ES 2892648 T3 20220204; PL 3269616 T3 20220124; RU 2017125269 A 20190115; RU 2017125269 A3 20201105; RU 2739634 C2 20201228

DOCDB simple family (application)

EP 16179751 A 20160715; ES 16179751 T 20160715; PL 16179751 T 20160715; RU 2017125269 A 20170714