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
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Application
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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 verhicles 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.

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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

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