

Title (en)

METHOD AND SYSTEM FOR THE ORGANISATION OF VEHICLE PLATOONS

Title (de)

VERFAHREN UND SYSTEM ZUR ORGANISATION VON FAHRZEUGKOLONNEN

Title (fr)

PROCÉDÉ ET SYSTÈME DESTINÉS À L'ORGANISATION DE PELOTONS DE VÉHICULES

Publication

EP 3053156 A4 20170705 (EN)

Application

EP 14850032 A 20140926

Priority

- SE 1351132 A 20130930
- SE 2014051123 W 20140926

Abstract (en)

[origin: WO2015047182A1] A system and a method to organise a vehicle platoon. The system comprises a processor unit that is configured to determine a ratio b_x for a vehicle fx that wishes to become a member of the vehicle platoon, which ratio describes the relationship between the maximum engine power of the vehicle fx and the mass of the vehicle, or the relationship between the maximum engine torque of the vehicle fx and the mass of the vehicle, to compare the ratio b_x with at least one other ratio b_k for a vehicle fk in the vehicle platoon, which ratio describes the relationship between the maximum engine power of the vehicle fk and the mass of the vehicle, or the relationship between the maximum engine torque of the vehicle fk and the mass of the vehicle, and to determine a location for the vehicle fx in the vehicle platoon based on the result of the comparison. The system is further configured to generate a location signal that indicates the location of the vehicle fx and to transmit the location signal to an indicator unit in the vehicle fx , whereby the location of the vehicle fx is designated for the driver of the vehicle fx .

IPC 8 full level

G08G 1/16 (2006.01); **B60W 30/16** (2020.01); **G05D 1/02** (2020.01); **G06Q 10/04** (2012.01); **G06Q 50/30** (2012.01); **G08G 1/00** (2006.01)

CPC (source: EP SE)

G05D 1/0295 (2024.01 - EP); **G05D 1/695** (2024.01 - SE); **G06Q 10/04** (2013.01 - EP); **G06Q 50/40** (2024.01 - EP); **G08G 1/22** (2013.01 - EP); **B60W 30/16** (2013.01 - SE)

Citation (search report)

- [I] WO 2013006826 A2 20130110 - PELOTON TECHNOLOGY INC [US], et al
- [I] WO 2012105889 A1 20120809 - SCANIA CV AB [SE], et al
- [I] KUO-YUN LIANG ET AL: "The impact of heterogeneity and order in heavy duty vehicle platooning networks (poster)", VEHICULAR NETWORKING CONFERENCE (VNC), 2011 IEEE, IEEE, 14 November 2011 (2011-11-14), pages 291 - 297, XP032081859, ISBN: 978-1-4673-0049-0, DOI: 10.1109/VNC.2011.6117113
- See references of WO 2015047182A1

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EP3836110A1; US11472407B2; US10339815B1

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

DOCDB simple family (publication)

WO 2015047182 A1 20150402; EP 3053156 A1 20160810; EP 3053156 A4 20170705; SE 1351132 A1 20150331; SE 537598 C2 20150714

DOCDB simple family (application)

SE 2014051123 W 20140926; EP 14850032 A 20140926; SE 1351132 A 20130930