

Title (en)

VEHICLE IDENTIFICATION AND LOCATION USING SENSOR FUSION AND INTER-VEHICLE COMMUNICATION

Title (de)

FAHRZEUGIDENTIFIKATION- UND -LOKALISIERUNG MITTELS SENSORFUSION UND KOMMUNIKATION ZWISCHEN FAHRZEUGEN

Title (fr)

IDENTIFICATION ET LOCALISATION DE VÉHICULES PAR FUSION DE CAPTEURS ET COMMUNICATION ENTRE VÉHICULES

Publication

**EP 3353615 A4 20190410 (EN)**

Application

**EP 16858471 A 20161102**

Priority

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- US 2016060167 W 20161102

Abstract (en)

[origin: WO2017070714A1] Systems and methods for coordinating and controlling vehicles, for example heavy trucks, to follow closely behind each other, or linking to form a platoon, in a convenient, safe manner and thus to save significant amounts of fuel while increasing safety. In an embodiment, on-board controllers in each vehicle interact with vehicular sensors to monitor and control, for example, relative distance, relative acceleration/deceleration, and speed. Various data is supplied by the vehicle's onboard systems to a Network Operations Center. The data generated locally from the vehicle's onboard sensors is combined in some embodiments to provide multiple modalities for identifying partner vehicles as well as managing operation of vehicles in close proximity to one another. Various techniques for improving relative position data are also disclosed.

IPC 8 full level

**G08G 1/0968** (2006.01); **G01S 19/28** (2010.01); **G01S 19/51** (2010.01); **G05D 1/02** (2006.01); **G08G 1/00** (2006.01); **G08G 1/123** (2006.01); **G08G 1/16** (2006.01); **H04W 4/40** (2018.01); **H04W 12/02** (2009.01); **H04W 12/04** (2009.01)

CPC (source: EP)

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Citation (search report)

- [X] WO 2015016159 A1 20150205 - HITACHI CONSTRUCTION MACHINERY [JP] & US 2016018531 A1 20160121 - BANDO MIKIO [JP], et al
- [X] JP H112675 A 19990106 - MITSUBISHI ELECTRIC CORP
- [X] JP 2011106870 A 20110602 - TOYOTA MOTOR CORP
- [I] US 5999880 A 19991207 - OKADA TSUYOSHI [JP], et al
- See references of WO 2017070714A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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