

Title (en)
AUTONOMOUS VEHICLE: VEHICLE LOCALIZATION

Title (de)
AUTONOMES FAHRZEUG:FAHRZEUGLOKALISIERUNG

Title (fr)
LOCALISATION DE VÉHICULE AUTONOME

Publication
EP 3516422 A1 20190731 (EN)

Application
EP 16781618 A 20160929

Priority
US 2016054438 W 20160929

Abstract (en)
[origin: WO2018063245A1] In an embodiment, a localization module can provide coordinates of the vehicle relative to the Earth and relative to the drivable surface, both of which are precise enough to allow for self-driving, and further can compensate for a temporary lapse in reliable GPS service by continuing to track the car's position by tracking its movement with inertial sensors (e.g., accelerometers and gyroscopes) and RADAR data. The localization module bases its output on a geolocation relative to the Earth and sensor measurements of the drivable surface and its surroundings to determine where the car is in relation to the Earth and the drivable surface.

IPC 8 full level
G01S 19/45 (2010.01); **G01C 21/28** (2006.01); **G01S 13/06** (2006.01); **G01S 19/46** (2010.01); **G01S 19/48** (2010.01); **G01S 19/49** (2010.01)

CPC (source: EP US)
G01C 21/30 (2013.01 - EP); **G01S 19/45** (2013.01 - EP); **G01S 19/46** (2013.01 - EP); **G01S 19/49** (2013.01 - EP US); **G01S 13/06** (2013.01 - EP); **G01S 19/396** (2019.07 - EP); **G01S 19/40** (2013.01 - EP)

Citation (search report)
See references of WO 2018063245A1

Cited by
CN110717007A

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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

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WO 2018063245 A1 20180405; **WO 2018063245 A8 20180531**; **WO 2018063245 A8 20190418**; EP 3516422 A1 20190731;
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