

Title (en)

DRIVER ASSISTANCE DEVICE HAVING A PLURALITY OF ULTRASONIC SENSORS, VEHICLE HAVING SUCH A DRIVER ASSISTANCE DEVICE, AND METHOD FOR OPERATING A DRIVER ASSISTANCE DEVICE

Title (de)

FAHRERASSISTENZEINRICHTUNG MIT EINER MEHRZAHL VON ULTRASCHALLSENSOREN SOWIE FAHRZEUG MIT EINER DERARTIGEN FAHRERASSISTENZEINRICHTUNG UND VERFAHREN ZUM BETREIBEN EINER FAHRERASSISTENZEINRICHTUNG

Title (fr)

DISPOSITIF D'ASSISTANCE AU CONDUCTEUR COMPRENANT UNE PLURALITÉ DE CAPTEURS D'ULTRASONS AINSI QUE VÉHICULE POURVU D'UN TEL DISPOSITIF D'ASSISTANCE AU CONDUCTEUR ET PROCÉDÉ POUR FAIRE FONCTIONNER UN DISPOSITIF D'ASSISTANCE AU CONDUCTEUR

Publication

EP 2715398 A1 20140409 (DE)

Application

EP 12724127 A 20120525

Priority

- DE 102011102557 A 20110526
- EP 2012059829 W 20120525

Abstract (en)

[origin: WO2012160192A1] The invention relates to a driver assistance device (2), comprising a plurality of ultrasonic sensors, wherein at least one first ultrasonic sensor (8 to 11, 17, 18, 21 to 24) has, as an operating mode, a normal mode in which emitted ultrasonic signals are uncoded and/or in which the first ultrasonic sensor (8 to 11, 17, 18, 21 to 24) is designed to receive uncoded ultrasonic signals and at least one second ultrasonic sensor (6, 7, 13 to 16, 19, 20) can be operated in two different operating modes and has, as a first operating mode, the normal mode and has, as a second operating mode, a special mode in which emitted ultrasonic signals are coded and/or in which the second ultrasonic sensor (6, 7, 13 to 16, 19, 20) is designed to receive coded ultrasonic signals. The invention further relates to a vehicle (1) having a driver assistance device (2) and to a method for operating a driver assistance device (2).

IPC 8 full level

G01S 7/524 (2006.01); **G01S 15/931** (2020.01)

CPC (source: CN EP KR US)

G01S 7/523 (2013.01 - KR); **G01S 7/524** (2013.01 - CN EP US); **G01S 7/537** (2013.01 - CN EP US); **G01S 15/878** (2013.01 - CN EP US); **G01S 15/93** (2013.01 - KR); **G01S 15/931** (2013.01 - CN EP US); **G08G 1/16** (2013.01 - US); **G08G 1/165** (2013.01 - US); **G08G 1/166** (2013.01 - US); **G08G 1/167** (2013.01 - US); **G08G 1/168** (2013.01 - US); **G01S 15/102** (2013.01 - CN EP US); **G01S 15/325** (2013.01 - CN EP US); **G01S 2015/938** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2012160192A1

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)

DE 102011102557 A1 20121129; CN 103649772 A 20140319; CN 103649772 B 20160127; EP 2715398 A1 20140409; JP 2014519035 A 20140807; JP 5976791 B2 20160824; KR 101990158 B1 20190617; KR 20140053892 A 20140508; US 2014247161 A1 20140904; US 9514645 B2 20161206; WO 2012160192 A1 20121129

DOCDB simple family (application)

DE 102011102557 A 20110526; CN 201280035010 A 20120525; EP 12724127 A 20120525; EP 2012059829 W 20120525; JP 2014511903 A 20120525; KR 20137031236 A 20120525; US 201214119572 A 20120525