

Title (en)

ALTERNATIVE INSTALLATION OF A CONCEALED ULTRASONIC SENSOR IN A MOTOR VEHICLE

Title (de)

ALTERNATIVER EINBAU EINES VERDECKTEN ULTRASCHALLSENSORS IM KRAFTFAHRZEUG

Title (fr)

VARIANTE D'INTÉGRATION D'UN CAPTEUR À ULTRASONS DISSIMULÉ DANS UN VÉHICULE

Publication

EP 2877872 A1 20150603 (DE)

Application

EP 13740276 A 20130723

Priority

- DE 102012106691 A 20120724
- EP 2013065507 W 20130723

Abstract (en)

[origin: WO2014016293A1] The invention relates to an ultrasonic sensor arrangement (2) for a motor vehicle (1), having a trim component (4, 5, 8, 9) and a first ultrasonic sensor (10 to 13) which is arranged with its diaphragm on a rear side of the trim component (4, 5, 8, 9), with the result that the diaphragm is designed to transmit and/or receive ultrasonic signals through the trim component (4, 5, 8, 9), wherein the trim component (4, 5, 8, 9) is a mudguard (4, 5, 8, 9) for the motor vehicle (1).

IPC 8 full level

G01S 7/521 (2006.01); **G01S 15/931** (2020.01)

CPC (source: CN EP US)

B60R 19/483 (2013.01 - US); **G01S 7/521** (2013.01 - CN EP US); **G01S 7/54** (2013.01 - US); **G01S 15/06** (2013.01 - US);
G01S 15/931 (2013.01 - CN EP US); **G01S 15/876** (2013.01 - EP US); **G01S 2015/932** (2013.01 - CN EP US);
G01S 2015/937 (2013.01 - CN EP US); **G01S 2015/938** (2013.01 - EP US)

Citation (search report)

See references of WO 2014016293A1

Citation (examination)

- DE 102010028829 A1 20111117 - BOSCH GMBH ROBERT [DE]
- EP 2293102 A1 20110309 - BOSCH GMBH ROBERT [DE]
- DE 102011016287 A1 20120719 - VOLKSWAGEN AG [DE]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014016293 A1 20140130; CN 104737032 A 20150624; CN 104737032 B 20170524; DE 102012106691 A1 20140130;
DE 102012106691 B4 20240711; EP 2877872 A1 20150603; US 2015177378 A1 20150625; US 9377531 B2 20160628

DOCDB simple family (application)

EP 2013065507 W 20130723; CN 201380049689 A 20130723; DE 102012106691 A 20120724; EP 13740276 A 20130723;
US 201314416112 A 20130723