

Title (en)
METHOD FOR MEASURING THE DISTANCE AND SPEED OF OBJECTS

Title (de)
VERFAHREN ZUR MESSUNG DES ABSTANDS UND DER GESCHWINDIGKEIT VON OBJEKTEN

Title (fr)
PROCEDE POUR MESURER LA DISTANCE ET LA VITESSE D'OBJETS

Publication
EP 1216425 A1 20020626 (DE)

Application
EP 00988613 A 20001114

Priority
• DE 0004022 W 20001114
• DE 19963625 A 19991229

Abstract (en)
[origin: WO0150152A1] The invention relates to a method for measuring the distance and speed of objects by using electromagnetic waves in a motor vehicle radar system. According to the method, electromagnetic waves are emitted and simultaneously received. The emitted electromagnetic waves are modulated in a ramped manner. At least the signals, which are received during a rise and fall in the frequency of the emitted signal, are mixed with each emitted signal thus resulting in the formation of a number of intermediate frequency signals. The distance and speed of the object are calculated by using the intermediate frequency signals. A meteorological condition in the surrounding area of the vehicle and/or a malfunctioning of the motor vehicle radar system is determined using characteristic intermediate frequency signals.

IPC 1-7
G01S 13/93; **G01S 13/95**

IPC 8 full level
G08G 1/16 (2006.01); **G01S 13/34** (2006.01); **G01S 13/931** (2020.01); **G01S 13/95** (2006.01); **G01S 7/40** (2006.01); **G01S 7/41** (2006.01)

CPC (source: EP US)
G01S 13/931 (2013.01 - EP US); **G01S 13/956** (2013.01 - EP US); **G01S 7/4004** (2013.01 - EP US); **G01S 7/4039** (2021.05 - EP US); **G01S 7/41** (2013.01 - EP US); **G01S 13/345** (2013.01 - EP US); **G01S 2013/9322** (2020.01 - EP US); **Y02A 90/10** (2017.12 - EP US)

Citation (search report)
See references of WO 0150152A1

Citation (examination)
• JP H1048331 A 19980220 - HINO MOTORS LTD
• DE 19530289 A1 19970220 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
WO 0150152 A1 20010712; DE 19963625 A1 20010712; EP 1216425 A1 20020626; JP 2003519386 A 20030617; US 6633815 B1 20031014

DOCDB simple family (application)
DE 0004022 W 20001114; DE 19963625 A 19991229; EP 00988613 A 20001114; JP 2001550048 A 20001114; US 91455802 A 20020201