Title (en)

PROCESS AND DEVICE FOR DETERMINING THE COMPOSITION OF THE GAS MIXTURE OF THE FUEL TANK OF A MOTOR VEHICLE FILLED WITH A CNG GAS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG DER ZUSAMMENSETZUNG EINES GASGEMISCHES EINES MIT EINEM CNG-GAS BEFÜLLTEN KRAFTSTOFFTANKS EINES KRAFTFAHRZEUGS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DE LA COMPOSITION D'UN MÉLANGE GAZEUX D'UN RÉSERVOIR DE CARBURANT D'UN VÉHICULE AUTOMOBILE REMPLI DE GAZ CNG

Publication

EP 1951539 A1 20080806 (DE)

Application

EP 07712410 A 20070301

Priority

• EP 2007051959 W 20070301
• DE 102006022357 A 20060512

Abstract (en)

[origin: DE102006022357B3] The process involves permanently measuring a gas pressure (P) and gas temperature (T) in a fuel tank (2) of a motor vehicle. An actual vapor pressure of an integral part of a compressed natural gas mixture, e.g. methane, ethane, propane and butane, is determined from the measured temperature and the measured gas pressure in the fuel tank. The actual composition of the gas mixture is determined by an algorithm under consideration of actual fuel consumption during dropping of the vapor pressure of the integral part of the gas mixture in the fuel tank. An independent claim is also included for a device for the determination of the composition of a gas mixture of a fuel tank.

IPC 8 full level

B60K 15/03 (2006.01); **F02D 19/02** (2006.01)

CPC (source: EP KR US)

F02D 19/02 (2013.01 - KR); **F02D 19/027** (2013.01 - EP US); **F02D 19/029** (2013.01 - EP US); **F02D 41/0027** (2013.01 - EP US); **F02M 21/0215** (2013.01 - EP US); **F02M 21/0221** (2013.01 - EP US); **G01N 7/00** (2013.01 - KR); **G01N 33/225** (2013.01 - EP US); F02D 37/02 (2013.01 - EP US); F02D 2200/0602 (2013.01 - EP US); F02D 2200/0606 (2013.01 - EP US); F02D 2200/0612 (2013.01 - EP US); Y02T 10/30 (2013.01 - EP US)

Citation (search report)

See references of WO 2007131814A1

Designated contracting state (EPC)

DE NL

DOCDB simple family (publication)

DE 102006022357 B3 20071011; CN 101370681 A 20090218; CN 101370681 B 20120627; EP 1951539 A1 20080806; JP 2009531683 A 20090903; KR 100990554 B1 20101029; KR 20080085186 A 20080923; US 2009088983 A1 20090402; US 8073636 B2 20111206; WO 2007131814 A1 20071122

DOCDB simple family (application)

DE 102006022357 A 20060512; CN 200780002969 A 20070301; EP 07712410 A 20070301; EP 2007051959 W 20070301; JP 2009501993 A 20070301; KR 20087018164 A 20070301; US 16203807 A 20070301