

Title (en)

METHOD FOR TESTING THE SEALING TIGHTNESS OF A FUEL TANK SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR PRÜFUNG DER DICHTHEIT EINES KRAFTSTOFFTANKSYSTEMS EINER BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ PERMETTANT DE CONTRÔLER L'ÉTANCHÉITÉ D'UN SYSTÈME DE RÉSERVOIR DE CARBURANT D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 3555448 A1 20191023 (DE)

Application

EP 17811952 A 20171211

Priority

- DE 102016225206 A 20161215
- EP 2017082114 W 20171211

Abstract (en)

[origin: WO2018108761A1] The invention relates to a method for testing the sealing tightness of a fuel tank system of an internal combustion engine, wherein the fuel tank system comprises: a fuel tank (10); a fuel vapor filter (14), which is connected in a fluid-conducting manner to an environment opening (62); a venting line (12), which leads from the fuel tank (10) to the fuel vapor filter (14), a purge air line (16), which leads from the fuel vapor filter (14) to a fresh gas tract (18) of the internal combustion engine; a compressor (64) integrated into the purge air line (16); and a shutoff valve (60), which is integrated into the purge air line (16) and which is arranged between an opening (50) of the purge air line (16) into the fresh gas tract (18) and the compressor (64), is characterized in that sufficient sealing tightness and insufficient sealing tightness are distinguished by a comparison of at least one value or value curve of a parameter that corresponds to an operating parameter of the compressor (64) or to the pressure in at least one section of the purge air line (16) that should be tested, said value or value curve being determined in a defined operating state of the fuel tank system, with an associated set point value or set point value range, which represents said operating state and which corresponds to sufficient sealing tightness.

IPC 8 full level

F02D 41/00 (2006.01); **F02B 37/00** (2006.01); **F02M 25/08** (2006.01)

CPC (source: EP)

F02D 41/0037 (2013.01); **F02M 25/0818** (2013.01); **F02M 25/089** (2013.01); **F02B 37/00** (2013.01)

Citation (search report)

See references of WO 2018108761A1

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)

WO 2018108761 A1 20180621; DE 102016225206 A1 20180621; EP 3555448 A1 20191023; EP 3555448 B1 20201014

DOCDB simple family (application)

EP 2017082114 W 20171211; DE 102016225206 A 20161215; EP 17811952 A 20171211