

Title (en)

METHOD FOR DETERMINING THE QUALITY OF LIQUID FUEL

Title (de)

VERFAHREN ZUR QUALITÄTSBESTIMMUNG VON FLÜSSIGEM KRAFTSTOFF

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE LA QUALITÉ D'UN CARBURANT LIQUIDE

Publication

EP 3532719 A1 20190904 (DE)

Application

EP 17783487 A 20171011

Priority

- DE 102016221317 A 20161028
- EP 2017075962 W 20171011

Abstract (en)

[origin: WO2018077620A1] The invention relates to a method for determining the quality of liquid fuel for internal combustion engines in a low-pressure region of a fuel supply system of a motor vehicle using the evaporation behaviour of the fuel, by detecting the point in time at which vapour bubbles appear and establishing an associated fuel temperature. The invention is characterised in that, during steady-state operation of the internal combustion engine, triggered by an engine control unit, vapour bubbles are made to form in the fuel, and the formation of the vapour bubbles is detected by means of a pressure sensor in the low-pressure region, wherein an evaluation of the pressure measurements of the pressure sensor subsequently shows a sudden reduction in amplitude of low-pressure fluctuations.

IPC 8 full level

F02D 41/00 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

F02D 41/0025 (2013.01); **F02D 41/3854** (2013.01); **F02D 2200/0612** (2013.01); **F02D 2250/02** (2013.01); **F02D 2250/04** (2013.01)

Citation (search report)

See references of WO 2018077620A1

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 2018077620 A1 20180503; DE 102016221317 A1 20180503; EP 3532719 A1 20190904

DOCDB simple family (application)

EP 2017075962 W 20171011; DE 102016221317 A 20161028; EP 17783487 A 20171011