Title (en)

METHOD FOR DETECTING CONTINUOUS INJECTION DURING THE OPERATION OF AN INTERNAL COMBUSTION ENGINE, INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE AND INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM ERKENNEN EINER DAUEREINSPRITZUNG IM BETRIEB EINER BRENNKRAFTMASCHINE, EINSPRITZSYSTEM FÜR EINE BRENNKRAFTMASCHINE UND BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE DÉTECTION D'UNE INJECTION CONTINUE LORS DU FONCTIONNEMENT D'UN MOTEUR À COMBUSTION INTERNE, SYSTÈME D'INJECTION POUR UN MOTEUR À COMBUSTION INTERNE ET MOTEUR À COMBUSTION INTERNE

Publication

EP 3289205 A1 20180307 (DE)

Application

EP 16711982 A 20160316

Priority

- DE 102015207961 A 20150429
- EP 2016000469 W 20160316

Abstract (en)

[origin: WO2016173689A1] A method for detecting continuous injection during the operation of an internal combustion engine (1) with an injection system (3) having a high-pressure accumulator (13) for a fuel is proposed, wherein – a high pressure in the injection system (3) is monitored as a function of time, wherein – in order to detect continuous injection it is checked whether the high pressure has dropped by a predetermined continuous injection differential pressure value (App) within a predetermined continuous injection time interval (At^), wherein – it is checked whether a reduction valve which connects the high-pressure accumulator (13) to a fuel reservoir (7) has been triggered, wherein – continuous injection is detected if – a reduction valve has not been triggered in a predetermined checking time interval (ΔÏM) before the dropping of the high pressure, and if – the high pressure has dropped by the predetermined continuous injection differential value amount (App) within the predetermined continuous injection time interval (Ati).

IPC 8 full level

F02D 41/22 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP US)

F02D 41/221 (2013.01 - EP US); **F02D 41/3863** (2013.01 - EP US); F02D 2041/225 (2013.01 - EP US); F02D 2200/0602 (2013.01 - EP US); F02D 2250/14 (2013.01 - EP US)

Citation (search report)

See references of WO 2016173689A1

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 2016173689 A1 20161103; CN 107532537 A 20180102; CN 107532537 B 20201016; DE 102015207961 A1 20161103; DE 102015207961 B4 20170511; EP 3289205 A1 20180307; EP 3289205 B1 20200902; HK 1248788 A1 20181019; US 10801434 B2 20201013; US 2018010542 A1 20180111

DOCDB simple family (application)

EP 2016000469 W 20160316; CN 201680024828 A 20160316; DE 102015207961 A 20150429; EP 16711982 A 20160316; HK 18108390 A 20180629; US 201615543132 A 20160316