Title (en)

METHOD AND DEVICE FOR MONITORING A FUEL METERING SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG EINES KRAFTSTOFFZUMESSSYSTEMS

Title (fr)

PROCEDE ET DISPOSITIF DE SURVEILLANCE D'UN SYSTEME DE DOSAGE DE CARBURANT

Publication

EP 1926900 A1 20080604 (DE)

Application

EP 06793414 A 20060911

Priority

- EP 2006066234 W 20060911
- DE 102005043971 A 20050915

Abstract (en)

[origin: WO2007031492A1] A device and a method for monitoring a fuel metering system are described, in which system fuel is fed from a low-pressure region into a high-pressure region. The pressure in the high-pressure region is sensed. A fault is detected on the basis of the pressure profile in the high-pressure region. The type of fault is detected on the basis of the shape of a pressure reduction curve. The profile of the pressure variable over time is approximated with a function such as a hyperbolic function. The type of fault is identified on the basis of the variable which characterizes the function.

IPC 8 full level

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

CPC (source: EP KR US)

F02D 41/22 (2013.01 - EP KR US); **F02D 41/38** (2013.01 - KR); **F02D 41/3845** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 65/003** (2013.01 - EP US); F02D 2041/1423 (2013.01 - EP US); F02D 2041/224 (2013.01 - EP US); F02D 2041/225 (2013.01 - EP US)

Citation (search report)

See references of WO 2007031492A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2007031492 A1 20070322; CN 101263291 A 20080910; CN 101263291 B 20120425; DE 102005043971 A1 20070322; EP 1926900 A1 20080604; EP 1926900 B1 20160629; JP 2009508054 A 20090226; JP 4646261 B2 20110309; KR 101046825 B1 20110706; KR 20080055832 A 20080619; US 2009199627 A1 20090813; US 8191411 B2 20120605

DOCDB simple family (application)

EP 2006066234 W 20060911; CN 200680033822 A 20060911; DE 102005043971 A 20050915; EP 06793414 A 20060911; JP 2008530499 A 20060911; KR 20087006220 A 20060911; US 99210606 A 20060911