

Title (en)

MULTI-FUEL SYSTEM FOR INTERNAL COMBUSTION ENGINES

Title (de)

MULTITREIBSTOFFSYSTEM FÜR VERBRENNUNGSMOTOREN

Title (fr)

SYSTÈME MULTICARBURANT POUR DES MOTEURS À COMBUSTION INTERNE

Publication

**EP 3420211 A4 20191016 (EN)**

Application

**EP 16891870 A 20160830**

Priority

- US 201615052203 A 20160224
- US 2016049373 W 20160830

Abstract (en)

[origin: WO2017146771A1] In a multi-fuel system for diesel engines, natural gas is mixed with diesel fuel and conditioned in a mixing chamber before being injected into the mixing chamber of the engine. Filtered blow-by gas may also be introduced into the combustion chamber. A computerized controller is used to determine and control the proportion of diesel fuel, natural gas fuel, the mixing and conditioning of these fuels, and the supply of filtered blow-by gas.

IPC 8 full level

**F02D 19/08** (2006.01); **F01M 13/04** (2006.01); **F02D 41/00** (2006.01); **F02M 25/06** (2016.01)

CPC (source: EP KR)

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Citation (search report)

- [Y] US 2015000638 A1 20150101 - MONROS SERGE V [US]
- [Y] US 2011017174 A1 20110127 - ULREY JOSEPH NORMAN [US], et al
- [Y] US 2012004824 A1 20120105 - MILTON TREVOR ROBERT [US], et al
- [A] US 2010076664 A1 20100325 - MONROS SERGE V [US]
- [A] GB 2407620 A 20050504 - MA THOMAS TSOI HEI [GB]
- See also references of WO 2017146771A1

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

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**WO 2017146771 A1 20170831**; AU 2016393847 A1 20180927; AU 2016393847 B2 20190509; CA 3015613 A1 20170831; CA 3015613 C 20191119; CN 109072788 A 20181221; EA 201891835 A1 20190228; EP 3420211 A1 20190102; EP 3420211 A4 20191016; KR 102019278 B1 20191104; KR 20180110146 A 20181008; MX 2018010216 A 20190220; MX 369813 B 20191122; SG 11201807135P A 20180927

DOCDB simple family (application)

**US 2016049373 W 20160830**; AU 2016393847 A 20160830; CA 3015613 A 20160830; CN 201680084902 A 20160830; EA 201891835 A 20160830; EP 16891870 A 20160830; KR 20187026898 A 20160830; MX 2018010216 A 20160830; SG 11201807135P A 20160830