

Title (en)
SPARK ADVANCE ADJUSTMENT

Title (de)
EINSTELLUNG EINES ZÜNDUNGSZEITPUNKTES

Title (fr)
REGLAGE DE L'AVANCE DE L'ALLUMAGE

Publication
EP 2100030 A2 20090916 (FR)

Application
EP 07871848 A 20071212

Priority
• FR 2007002055 W 20071212
• FR 0655506 A 20061214

Abstract (en)
[origin: FR2910075A1] The engine has an electronic engine control module (ECU) comprising a management system to manage a spark advance. A determination unit determines molecular structure of fuel supplied to the engine, and permits to obtain markers (c1, c2) of the structure by using a fuel sensor (FS). The management system adjusts a value of angle of the spark advance from the markers of the structure. The markers are related or correlated with a self-ignition delay of the fuel.

IPC 8 full level
F02P 5/152 (2006.01); **G01N 33/28** (2006.01)

CPC (source: EP US)
F02D 19/087 (2013.01 - EP US); **F02P 5/152** (2013.01 - EP US); **G01N 33/2829** (2013.01 - EP US); **F02D 19/06** (2013.01 - EP US); **F02D 41/0025** (2013.01 - EP US); **F02D 41/2451** (2013.01 - EP US); **F02D 2041/1433** (2013.01 - EP US); **F02D 2200/0611** (2013.01 - EP US); **G01N 33/2882** (2013.01 - EP US); **Y02T 10/30** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)
See references of WO 2008090280A2

Citation (examination)
• US 4448171 A 19840515 - NINOMIYA MASAKAZU [JP], et al
• FR 2212494 A1 19740726 - ESSEX INTERNATIONAL INC [US]
• US 2006080025 A1 20060413 - WANG JUNMIN [US], et al
• US 4442813 A 19840417 - NAGASE MASAOMI [JP], et al
• US 4424568 A 19840103 - NISHIMURA YUTAKE [JP], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2910075 A1 20080620; FR 2910075 B1 20120323; EP 2100030 A2 20090916; JP 2010513770 A 20100430; JP 2014156864 A 20140828; US 2012017873 A1 20120126; WO 2008090280 A2 20080731; WO 2008090280 A3 20081009

DOCDB simple family (application)
FR 0655506 A 20061214; EP 07871848 A 20071212; FR 2007002055 W 20071212; JP 2009540815 A 20071212; JP 2014087423 A 20140421; US 51875907 A 20071212