

Title (en)
Internal combustion engine with a fuel system

Title (de)
Verbrennungsmotor mit einem Kraftstoffsystem

Title (fr)
Moteur à combustion interne avec un système de carburant

Publication
EP 2602470 A3 20141210 (DE)

Application
EP 12008126 A 20121205

Priority
DE 102011120465 A 20111207

Abstract (en)
[origin: EP2602470A2] The internal combustion engine (12) has a fuel system which has a fuel valve (26) with a housing, in which a fuel chamber is formed, where the fuel system has a fuel pump (34) which conveys the fuel from a fuel tank (32) into the fuel chamber. The fuel system comprises a conveying pump (69) for forcibly feeding the fuel in the fuel system. The conveying pump is arranged in a feed line (50) for the fuel chamber of the fuel valve and feeds the fuel in the fuel chamber. The fuel chamber is connected with a relief duct (58), in which a valve (73) is arranged.

IPC 8 full level
F02M 1/16 (2006.01); **F02M 37/00** (2006.01); **F02M 37/16** (2006.01); **F02M 37/18** (2006.01); **F02M 37/20** (2006.01); **F02M 69/10** (2006.01)

CPC (source: EP US)
F02B 15/00 (2013.01 - US); **F02M 1/16** (2013.01 - EP US); **F02M 37/0023** (2013.01 - EP US); **F02M 37/0029** (2013.01 - EP US); **F02M 37/007** (2013.01 - EP US); **F02M 37/16** (2013.01 - EP US); **F02M 37/18** (2013.01 - EP US); **F02M 37/20** (2013.01 - EP US); **F02M 69/10** (2013.01 - EP US)

Citation (search report)

- [X] US 6701900 B1 20040309 - MILLAR JAMES S [US], et al
- [A] US 5664532 A 19970909 - AUGUST REX DAVID [US]
- [A] US 2009007892 A1 20090108 - BURKITT JOSEPH [US]
- [A] DE 19732741 A1 19990204 - BOSCH GMBH ROBERT [DE]

Cited by
WO2022093099A1

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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BA ME

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EP 2602470 A2 20130612; **EP 2602470 A3 20141210**; **EP 2602470 B1 20160629**; CN 103174566 A 20130626; CN 103174566 B 20170613; DE 102011120465 A1 20130613; US 2013340722 A1 20131226; US 9534528 B2 20170103

DOCDB simple family (application)
EP 12008126 A 20121205; CN 201210521852 A 20121207; DE 102011120465 A 20111207; US 201213707832 A 20121207