

Title (en)  
ENGINE UNIT AND SADDLED VEHICLE

Title (de)  
MOTOREINHEIT UND SATTELFahrzeug

Title (fr)  
UNITÉ DE MOTEUR ET Véhicule à selle

Publication  
**EP 3633178 B1 20210407 (EN)**

Application  
**EP 19211277 A 20150423**

Priority  
• JP 2014163072 A 20140808  
• EP 15830604 A 20150423  
• JP 2015062369 W 20150423

Abstract (en)  
[origin: EP3176419A1] A desired amount of fuel vapor is introduced to a combustion chamber. A communication passage member 163 through which fuel vapor is introduced from a canister 161 into an intake passage member 110 is provided. A solenoid valve 170 is provided to the communication passage member 163. The solenoid valve 170 is provided so that the capacity of a part a communication passage 163a in the communication passage member 163, the part extending between the downstream intake passage 110x and the valve, is smaller than a half of the displacement of an engine 130. In a downstream intake passage portion 110d, pressure varies in a pressure-variation manner such that: a larger depression having a larger difference from atmospheric pressure and a smaller depression having a smaller difference from atmospheric pressure are created in each four-stroke cycle; and the creation of the larger and smaller depressions is repeated on a four-stroke basis. The solenoid valve 170 is controlled in association with the four-stroke-basis pressure-variation manner.

IPC 8 full level  
**F02M 25/08** (2006.01); **F02D 9/10** (2006.01); **F02D 41/00** (2006.01); **F02M 35/10** (2006.01); **F02M 35/16** (2006.01)

CPC (source: EP)  
**F02D 41/0032** (2013.01); **F02D 41/004** (2013.01); **F02M 25/0836** (2013.01); **F02M 25/0872** (2013.01); **F02M 25/089** (2013.01); **F02M 35/10072** (2013.01); **F02M 35/10222** (2013.01); **F02M 35/162** (2013.01); **F02D 9/109** (2013.01); **F02D 2200/0406** (2013.01); **F02M 2025/0845** (2013.01)

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

DOCDB simple family (publication)  
**EP 3176419 A1 20170607**; **EP 3176419 A4 20170816**; **EP 3176419 B1 20200108**; BR 112017002534 A2 20171205; BR 112017002534 B1 20220621; BR 112017002534 B8 20220906; BR 122020018307 B1 20221025; CN 106662043 A 20170510; CN 106662043 B 20191001; CN 110529271 A 20191203; CN 110529271 B 20220809; EP 3633178 A1 20200408; EP 3633178 B1 20210407; TW 201612410 A 20160401; TW I592570 B 20170721; WO 2016021245 A1 20160211

DOCDB simple family (application)  
**EP 15830604 A 20150423**; BR 112017002534 A 20150423; BR 122020018307 A 20150523; CN 201580042693 A 20150423; CN 201910837408 A 20150423; EP 19211277 A 20150423; JP 2015062369 W 20150423; TW 104125839 A 20150807