

Title (en)

Evaporative fuel control apparatus for internal combustion engine

Title (de)

Vorrichtung zur Steuerung des Kraftstoffdampfs für einen Verbrennungsmotor

Title (fr)

Appareil de commande de carburant évaporatif pour moteur à combustion interne

Publication

EP 2434136 A2 20120328 (EN)

Application

EP 11175942 A 20110729

Priority

JP 2010211682 A 20100922

Abstract (en)

In an evaporative fuel control apparatus (10), a first passage (48) of a bypass conduit (40) is connected between an upstream side of an intake passage (24b) and a switching valve (42), and second passages (50a to 50d) interconnect the switching valve (42) and downstream sides of respective intake passages (24a to 24d), whereas a purge conduit (46) to which the evaporative fuel is supplied is connected with respect to the switching valve (42). The switching valve (42) is operated responsive to a driven state of the internal combustion engine (12), thus switching between a communication state between the first passage (48) and the second passages (50a to 50d), and a communication state between the purge conduit (46) and the second passages (50a to 50d), such that intake air or evaporative fuel is made to flow to the intake passages (24a to 24d).

IPC 8 full level

F02M 31/18 (2006.01); **F02D 9/10** (2006.01); **F02M 25/08** (2006.01)

CPC (source: EP)

F02D 9/1095 (2013.01); **F02M 25/0836** (2013.01); **F02M 25/0872** (2013.01); **F02M 25/089** (2013.01); **F02M 2025/0845** (2013.01)

Citation (applicant)

- JP H04342863 A 19921130 - TOYOTA MOTOR CORP
- JP 2000186653 A 20000704 - SANSHIN KOGYO KK

Cited by

CN110392778A; EP3176417A4; EP3176418A4; CN107076060A; EP4431720A1; US2024309818A1; CN106662043A; EP3176419A4; EP3633178A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2434136 A2 20120328; **EP 2434136 A3 20140917**; **EP 2434136 B1 20160427**; JP 2012067645 A 20120405; JP 5579554 B2 20140827

DOCDB simple family (application)

EP 11175942 A 20110729; JP 2010211682 A 20100922