

Title (en)

Apparatus for mode-switching fuel injector nozzle

Title (de)

Vorrichtung für ein Kraftstoffeinspritzventil mit schaltbaren Betriebsarten

Title (fr)

Arrangement pour une soupape d'injection de carburant à mode de commutations

Publication

EP 1719903 A1 20061108 (EN)

Application

EP 05076025 A 20050503

Priority

EP 05076025 A 20050503

Abstract (en)

A fuel injector nozzle for dispersing fuel during a normal combustion operation and a supplemental combustion operation, the fuel injector nozzle comprising: a plurality of first outlet openings (24) configured to disperse fuel during homogeneous charge compression ignition and non-homogeneous charge compression ignition; and a plurality of second outlet openings (48) configured to disperse fuel only during non-homogeneous charge compression ignition, wherein fuel dispersed from the plurality of second outlet openings collides with and subsumes fuel dispersed from the plurality of first outlet openings.

IPC 8 full level

F02M 45/08 (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)

F02M 45/086 (2013.01); **F02M 61/18** (2013.01); **F02M 61/1813** (2013.01); **F02M 61/182** (2013.01); **F02M 61/1826** (2013.01); **F02M 61/1886** (2013.01); **F02M 51/0603** (2013.01); **F02M 51/061** (2013.01); **F02M 2200/07** (2013.01); **F02M 2200/46** (2013.01)

Citation (applicant)

EP 1059437 A1 20001213 - DELPHI TECH INC [US]

Citation (search report)

- [XY] EP 1059437 A1 20001213 - DELPHI TECH INC [US]
- [XY] US 2004055562 A1 20040325 - STEWART CHRIS [US], et al
- [XY] DE 10246973 A1 20040422 - BOSCH GMBH ROBERT [DE]
- [XY] US 2003094517 A1 20030522 - KATO MASAOKI [JP], et al
- [Y] DE 10305187 A1 20040819 - BOSCH GMBH ROBERT [DE]

Cited by

JP2011516787A; CN112459945A; EP2426348A1; JP2017048722A; JPWO2018101118A1; EP2390491A1; EP2650527A1; US8490888B2; US10995655B2; WO2015078941A1; WO2009150512A1; WO2018101118A1; WO2009127850A1; WO2017038393A1

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Designated extension state (EPC)

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