

Title (en)

DUCTED FUEL INJECTION WITH IGNITION ASSIST

Title (de)

KANALISIERTE KRAFTSTOFFEINSPRITZUNG MIT ZÜNDUNGSASSISTENT

Title (fr)

INJECTION DE CARBURANT CANALISÉE AVEC ASSISTANCE À L'ALLUMAGE

Publication

EP 3433485 A4 20191120 (EN)

Application

EP 17770736 A 20170112

Priority

- US 201662311753 P 20160322
- US 201615364002 A 20161129
- US 2017013187 W 20170112

Abstract (en)

[origin: WO2017164964A1] Various technologies presented herein relate to enhancing mixing inside a combustion chamber to form one or more locally premixed mixtures comprising fuel and charge-gas to enable minimal, or no, generation of soot and/or other undesired emissions during ignition and subsequent combustion of the locally premixed mixtures. To enable sufficient mixing of the fuel and charge-gas, a jet of fuel can be directed to pass through a bore of a duct causing charge-gas to be drawn into the bore creating turbulence to mix the fuel and the drawn charge-gas. The duct can be located proximate to an opening in a tip of a fuel injector. An ignition assist component can be located downstream of the duct to facilitate ignition of the fuel/charge-gas mixture.

IPC 8 full level

F02B 19/18 (2006.01); **F02B 23/06** (2006.01); **F02B 23/10** (2006.01); **F02M 57/06** (2006.01); **F02P 23/00** (2006.01); **F02P 23/02** (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP KR)

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Citation (search report)

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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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DOCDB simple family (application)

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