

Title (en)

IMPROVED SYSTEMS AND METHODS OF COMPRESSION IGNITION ENGINES

Title (de)

VERBESSERTE SYSTEME UND VERFAHREN FÜR SELBSTZÜNDUNGSMOTOREN

Title (fr)

SYSTÈMES ET PROCÉDÉS AMÉLIORÉS POUR MOTEURS À ALLUMAGE PAR COMPRESSION

Publication

**EP 3607188 A4 20210512 (EN)**

Application

**EP 18781085 A 20180409**

Priority

- US 201762483191 P 20170407
- US 201762490056 P 20170426
- US 201762500475 P 20170502
- US 201762554429 P 20170905
- US 201862627029 P 20180206
- US 2018026743 W 20180409

Abstract (en)

[origin: WO2018187811A1] Apparatuses, systems and method for utilizing multi-zoned combustion chambers (and/or multiple combustion chambers) for achieving compression ignition (and/or spark-assisted or fuel-assisted compression ignition) in an internal combustion engine are provided. In addition, improved apparatuses, systems and methods for achieving and/or controlling compression ignition (and/or spark-assisted or fuel-assisted compression ignition) in a "Siamese cylinder" internal combustion engine are provided.

IPC 8 full level

**F02B 23/06** (2006.01); **F01B 7/18** (2006.01); **F02B 3/06** (2006.01); **F02B 25/02** (2006.01); **F02B 77/00** (2006.01); **F02D 41/30** (2006.01); **F02F 3/26** (2006.01); **F02F 3/28** (2006.01)

CPC (source: EP KR)

**F01B 7/18** (2013.01 - EP); **F02B 3/06** (2013.01 - KR); **F02B 23/06** (2013.01 - EP KR); **F02B 25/02** (2013.01 - KR); **F02B 77/005** (2013.01 - KR); **F02F 3/28** (2013.01 - KR); **F02D 41/3041** (2013.01 - EP); **F02F 3/26** (2013.01 - EP); **F02F 3/28** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

Citation (search report)

- [XA] GB 191406413 A - EMILE PAUL DUMANOIS [FR]
- [XA] FR 730529 A 19320817 - BENDIX AVIAT CORP
- [XA] CH 177024 A 19350515 - SULZER AG [CH]
- [XA] DE 645974 C 19370605 - STEFAN WITKOWSKI
- [XA] US 2256776 A 19410923 - STEPHEN KAMMER GEORGE
- [XA] US 2514730 A 19500711 - KONRAD SONDEREGGER
- [XA] US 2590000 A 19520318 - REGINALD FERGUSON
- [XA] US 2735416 A 19560221
- [XA] US 4164915 A 19790821 - KULHAVY JOSEPH T, et al
- [XA] US 5009207 A 19910423 - MERRITT DAN [GB]
- [XA] EP 0902175 A1 19990317 - TANIGAWA HIROYASU [JP], et al
- See references of WO 2018187811A1

Cited by

EP4163478A4; US10927750B2

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)

**WO 2018187811 A1 20181011**; AU 2018249957 A1 20191128; CA 3096555 A1 20181011; CN 110914525 A 20200324; CN 110914525 B 20220802; EP 3607188 A1 20200212; EP 3607188 A4 20210512; JP 2020513090 A 20200430; KR 20200015472 A 20200212; TW 201842270 A 20181201

DOCDB simple family (application)

**US 2018026743 W 20180409**; AU 2018249957 A 20180409; CA 3096555 A 20180409; CN 201880037947 A 20180409; EP 18781085 A 20180409; JP 2019555003 A 20180409; KR 20197032846 A 20180409; TW 107112347 A 20180409