

Title (en)
VALVE-CONTROLLED IGNITION PRECHAMBER

Title (de)
VENTILGESTEUERTE ZÜNDVORKAMMER

Title (fr)
PRECHAMBRE D'ALLUMAGE A CLAPET

Publication
EP 3568579 A1 20191120 (FR)

Application
EP 18713713 A 20180108

Priority
• FR 1750264 A 20170112
• FR 2018050041 W 20180108

Abstract (en)
[origin: CA3048883A1] The valve-controlled ignition pre-chamber (1) is intended for an internal combustion engine (2) which has a combustion chamber (5) in which a main charge (30) more less diluted with a neutral gas is ignited, said prechamber (1) comprising a stratification cavity (6) into which ignition means (11) open and into which a stratification injector (8) can inject a pressurized readily-inflammable pilot charge (9), a stratification valve (13) being able to close off the stratification duct (7) in full or in part, notably under the effect of the pressure of the gases obtaining in the combustion chamber (11).

IPC 8 full level
F02B 19/02 (2006.01); **F02B 19/10** (2006.01); **F02B 19/12** (2006.01); **F02M 63/00** (2006.01); **F02P 13/00** (2006.01); **H01T 13/24** (2006.01); **H01T 13/54** (2006.01)

CPC (source: EP KR)
F02B 19/02 (2013.01 - EP KR); **F02B 19/1014** (2013.01 - EP KR); **F02B 19/1061** (2013.01 - EP KR); **F02B 19/1085** (2013.01 - KR); **F02B 19/109** (2013.01 - EP KR); **F02B 19/12** (2013.01 - EP KR); **F02M 57/06** (2013.01 - EP KR); **F02M 69/042** (2013.01 - KR); **F02P 13/00** (2013.01 - KR); **F02P 15/006** (2013.01 - EP KR); **H01T 13/24** (2013.01 - EP KR); **H01T 13/40** (2013.01 - EP KR); **H01T 13/54** (2013.01 - EP KR); **F02B 19/1085** (2013.01 - EP); **F02M 69/042** (2013.01 - EP); **F02P 13/00** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP KR)

Cited by
US11408329B2

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)
FR 3061743 A1 20180713; **FR 3061743 B1 20190816**; AU 2018207981 A1 20190718; AU 2018207981 B2 20230406; CA 3048883 A1 20180719; CN 110291278 A 20190927; CN 110291278 B 20211105; EP 3568579 A1 20191120; JP 2020505542 A 20200220; JP 7214638 B2 20230130; KR 102581717 B1 20230922; KR 20190104551 A 20190910; WO 2018130772 A1 20180719

DOCDB simple family (application)
FR 1750264 A 20170112; AU 2018207981 A 20180108; CA 3048883 A 20180108; CN 201880006741 A 20180108; EP 18713713 A 20180108; FR 2018050041 W 20180108; JP 2019537092 A 20180108; KR 20197021691 A 20180108