

Title (en)
AN IGNITION ASSEMBLY AND A METHOD OF IGNITING A COMBUSTIBLE FUEL MIXTURE IN A COMBUSTION CHAMBER OF AN INTERNAL COMBUSTION PISTON ENGINE

Title (de)
ZÜNDANORDNUNG UND VERFAHREN ZUR ZÜNDUNG EINES BRENNBAREN KRAFTSTOFFGEMISCHS IN EINER BRENNKAMMER EINES HUBKOLBENMOTORS

Title (fr)
ENSEMBLE D'ALLUMAGE ET PROCÉDÉ D'ALLUMAGE D'UN MÉLANGE DE COMBUSTIBLE DANS UNE CHAMBRE DE COMBUSTION D'UN MOTEUR À COMBUSTION INTERNE À PISTON

Publication
EP 3234348 A1 20171025 (EN)

Application
EP 14805958 A 20141112

Priority
FI 2014050852 W 20141112

Abstract (en)
[origin: WO2016075357A1] Invention relates to an ignition assembly configured to ignite a combustible fuel mixture in a combustion chamber of an internal combustion piston engine, comprising a prechamber assembly (14) adapted for attachment in an opening of a cylinder head (10), the prechamber assembly has at least one orifice (18) to provide a flow communication between the prechamber and the combustion chamber of the engine (100), the ignition assembly further comprising a pulsed plasma plug assembly having at least one electrode in communication with the prechamber space and adapted to generate a plurality of plasma streamers between at least two electrodes, and a control unit provided with executable instructions to activate the pulsed plasma plug assembly in order to generate pulses. It is characteristic to the invention that the control unit (62) is provided with pulse information for setting variables of a train of pulses used during each ignition when activating the pulsed plasma plug assembly, and the control unit is further provided with executable instructions to activate the pulsed plasma plug assembly using the pulse information to generate the pulses.

IPC 8 full level
F02P 13/00 (2006.01); **F02P 23/04** (2006.01)

CPC (source: CN EP KR)
F02B 19/108 (2013.01 - CN KR); **F02B 19/12** (2013.01 - CN KR); **F02P 13/00** (2013.01 - CN EP KR); **F02P 23/045** (2013.01 - CN EP KR); **H01T 13/54** (2013.01 - CN KR); **F02B 19/108** (2013.01 - EP); **F02B 19/12** (2013.01 - EP); **F02P 5/00** (2013.01 - EP); **H01T 13/54** (2013.01 - EP)

Citation (search report)
See references of WO 2016075357A1

Citation (examination)
• EP 2020503 A2 20090204 - NISSAN MOTOR [JP]
• US 2011100322 A1 20110505 - GRUBER FRIEDRICH [AT], et al

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)
WO 2016075357 A1 20160519; CN 107002625 A 20170801; EP 3234348 A1 20171025; KR 101932367 B1 20181224; KR 20170080676 A 20170710

DOCDB simple family (application)
FI 2014050852 W 20141112; CN 201480083303 A 20141112; EP 14805958 A 20141112; KR 20177015307 A 20141112