

Title (en)

METHOD FOR IGNITING A COMBUSTIBLE MIXTURE FOR A COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM ZÜNDEN EINES BRENNBAREN GEMISCHES FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

PROCEDE D'ALLUMAGE D'UN MELANGE DE COMBURANT POUR MOTEUR THERMIQUE

Publication

EP 2411659 B1 20170802 (FR)

Application

EP 10715975 A 20100324

Priority

- FR 2010050535 W 20100324
- FR 0951854 A 20090324

Abstract (en)

[origin: WO2010109137A1] The invention relates to a method of igniting a mixture of oxidant and fuel (1) in a combustion chamber (2) of a combustion engine using a spark plug (3) arranged so that it protrudes into the combustion chamber of the engine (3), said method including a first step of powering the spark plug using a first alternating electrical signal of a frequency higher than 1 MHz (4). The method also includes a second step of powering the spark plug using a second alternating electrical signal of a frequency higher than 1 MHz (5), said second step taking place after the first step and following a time delay (6).

IPC 8 full level

F02P 15/08 (2006.01); **F02P 9/00** (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP KR US)

F02P 9/00 (2013.01 - KR); **F02P 9/007** (2013.01 - EP US); **F02P 15/08** (2013.01 - EP KR US); **F02P 23/04** (2013.01 - EP KR US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010109137 A1 20100930; CN 102362066 A 20120222; CN 102362066 B 20150805; EP 2411659 A1 20120201; EP 2411659 B1 20170802; FR 2943739 A1 20101001; FR 2943739 B1 20150904; JP 2012521517 A 20120913; JP 5628283 B2 20141119; KR 20120020102 A 20120307; MX 2011009982 A 20111208; RU 2011142729 A 20130427; RU 2549874 C2 20150510; US 2012048225 A1 20120301; US 8550059 B2 20131008

DOCDB simple family (application)

FR 2010050535 W 20100324; CN 201080013799 A 20100324; EP 10715975 A 20100324; FR 0951854 A 20090324; JP 2012501357 A 20100324; KR 20117024987 A 20100324; MX 2011009982 A 20100324; RU 2011142729 A 20100324; US 201013257427 A 20100324