Title (en)

PLASMA IGNITION SYSTEM AND METHOD FOR THE OPERATION THEREOF

Title (de)

PLASMA-ZÜNDSYSTEM UND VERFAHREN ZU DESSEN BETRIEB

Title (fr)

SYSTEME D'ALLUMAGE AU PLASMA ET PROCEDE POUR LE FAIRE FONCTIONNER

Publication

EP 1910669 A1 20080416 (DE)

Application

EP 06792718 A 20060804

Priority

- EP 2006065094 W 20060804
- DE 102005036968 A 20050805

Abstract (en)

[origin: WO2007017481A1] The invention relates to a plasma ignition system comprising a resonator (15) for generating a high-frequency voltage on electrodes in a combustion chamber; a high-frequency voltage source (12) for generating a burst signal (8) that can be supplied to the resonator, for the production of a plasma (6) having an output impedance which is adapted to the input impedance of the resonator before the ignition of a plasma; a high-frequency voltage source (13) for generating a supply signal (9) which can be supplied to the resonator (15) in order to maintain the plasma (6), the output impedance of the voltage source being approximately equal to the impedance of the resonator when the plasma is present with optimum expansion and power absorbency; a frequency diplexer (14) for the separation of the voltage source (12) and the high-frequency voltage source (13) on the output side; and a control/regulating unit (10) for the relative temporal control of the burst signal (8) and the supply signal (9).

IPC 8 full level

F02P 23/04 (2006.01); **H01T 13/50** (2006.01)

CPC (source: EP)

F02P 3/01 (2013.01); **F02P 23/04** (2013.01); F02P 9/007 (2013.01)

Citation (search report)

See references of WO 2007017481A1

Citation (third parties)

Third party :

- EP 0211133 A1 19870225 - HOLZ BERND
- DE 102005036968 A1 20070215 - SIEMENS AG [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102005036968 A1 20070215; EP 1910669 A1 20080416; WO 2007017481 A1 20070215

DOCDB simple family (application)

DE 102005036968 A 20050805; EP 06792718 A 20060804; EP 2006065094 W 20060804