

Title (en)

CONTROL OF A PLURALITY OF PLUG COILS VIA A SINGLE POWER STAGE

Title (de)

STEUERUNG MEHRERER STECKERSPULEN ÜBER EINE EINZELNE LEISTUNGSSTUFE

Title (fr)

PILOTAGE D'UNE PLURALITE DE BOBINES BOUGIES VIA UN UNIQUE ETAGE DE PUISSANCE

Publication

**EP 2115296 B1 20170906 (FR)**

Application

**EP 08762151 A 20080225**

Priority

- FR 2008050310 W 20080225
- FR 0701499 A 20070301

Abstract (en)

[origin: FR2913298A1] The device has ignition plug coil type plasma generating circuits (BB1-BB4) connected in parallel on an outlet of a class E power amplifier type supply circuit (2). Each generating circuit presents a resonant frequency and generates plasma when a high voltage level is applied on the outlet at a frequency equal to the resonant frequency. A control device (5) controls the supply circuit and determines the frequency of a control signal among one of a set of resonant frequencies of the generating circuits to selectively control each generating circuit along the utilized frequency. An independent claim is also included for a method for controlling the supply of a radio frequency plasma generating device.

IPC 8 full level

**F02P 9/00** (2006.01); **F02P 17/12** (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP KR US)

**F02P 7/02** (2013.01 - EP US); **F02P 9/00** (2013.01 - KR); **F02P 9/007** (2013.01 - EP US); **F02P 17/12** (2013.01 - KR); **F02P 23/04** (2013.01 - KR); **F02P 3/01** (2013.01 - EP US); **F02P 23/045** (2013.01 - EP US)

Citation (examination)

- US 5655210 A 19970805 - GREGOIRE DANIEL J [US], et al
- US 2006132360 A1 20060622 - CAIMI FRANK M [US], et al

Designated contracting state (EPC)

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