

Title (en)

OPTIMISATION OF THE EXCITATION FREQUENCY OF A RADIOFREQUENCY PLUG

Title (de)

OPTIMIERUNG DER ERREGUNGSFREQUENZ EINER FUNKFREQUENZ-ZÜNDKERZE

Title (fr)

OPTIMISATION DE LA FREQUENCE D'EXCITATION D'UNE BOUGIE RADIOFREQUENCE

Publication

EP 2250366 B1 20130710 (FR)

Application

EP 09720587 A 20090219

Priority

- FR 2009050264 W 20090219
- FR 0851276 A 20080228

Abstract (en)

[origin: WO2009112731A1] The invention relates to a device for generating a radiofrequency plasma, which comprises a supply module (20) applying, on an output interface, an excitation signal (U) at a setpoint frequency (Fc), adapted for generating a spark (40) at the output of a plasma-generation resonator (30) connected to the output interface of the power module, and a control module (10) supplying the setpoint frequency to the power module upon a command for generating the radiofrequency plasma, wherein said device is characterised in that the control module includes a means for determining an optimal excitation frequency, capable of adapting the setpoint frequency (Fc) to the resonance conditions of the device after formation of the spark.

IPC 8 full level

F02P 9/00 (2006.01)

CPC (source: EP KR US)

F02P 9/007 (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 TR

DOCDB simple family (publication)

FR 2928240 A1 20090904; **FR 2928240 B1 20161028**; BR PI0907782 A2 20160607; CN 101981305 A 20110223; CN 101981305 B 20130327; EP 2250366 A1 20101117; EP 2250366 B1 20130710; JP 2011513625 A 20110428; KR 101580223 B1 20151224; KR 20110000642 A 20110104; MX 2010009442 A 20101130; RU 2010139661 A 20120410; RU 2516295 C2 20140520; US 2011048355 A1 20110303; US 8656880 B2 20140225; WO 2009112731 A1 20090917

DOCDB simple family (application)

FR 0851276 A 20080228; BR PI0907782 A 20090219; CN 200980110822 A 20090219; EP 09720587 A 20090219; FR 2009050264 W 20090219; JP 2010548146 A 20090219; KR 20107021290 A 20090219; MX 2010009442 A 20090219; RU 2010139661 A 20090219; US 91990609 A 20090219