

Title (en)

OPTIMUM CONTROL OF THE RESONANT FREQUENCY OF A RESONATOR IN A RADIO FREQUENCY IGNITION SYSTEM

Title (de)

OPTIMALE STEUERUNG DER RESONANZFREQUENZ EINES RESONATORS IN EINEM FUNKFREQUENZZÜNDSYSTEM

Title (fr)

PILOTAGE OPTIMAL A LA FREQUENCE DE RESONANCE D'UN RESONATEUR D'UN ALLUMAGE RADIOFREQUENCE

Publication

**EP 2134959 B1 20160928 (FR)**

Application

**EP 08762068 A 20080212**

Priority

- FR 2008050216 W 20080212
- FR 0702275 A 20070328

Abstract (en)

[origin: WO2008116991A2] The invention relates to a supply device for a radio frequency ignition system, comprising a supply circuit (2, 2') designed to provide a supply voltage to an output connected to a plasma generation resonator (1) at a frequency defined by a control signal (VI) provided by a control device (5) for the supply circuit, characterised in that the control device comprises a receiver interface (52) for a determination request for the optimum control frequency, a receiver interface (51) for receiving signals measuring the voltage at the pins of a capacitor (Cb) in the supply circuit (2), a determination module (53) for the optimum control frequency, designed to provide successive different control frequencies for the supply circuit for successive ignition commands on reception of a request and to determine an optimum control frequency based on received measured signals.

IPC 8 full level

**F02P 9/00** (2006.01); **F02P 3/01** (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); **F23Q 3/00** (2013.01 - KR); **H01T 13/44** (2013.01 - KR); **H05H 1/46** (2013.01 - EP US); **F02P 3/01** (2013.01 - EP US); **F02P 23/04** (2013.01 - EP 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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008116991 A2 20081002; WO 2008116991 A3 20081211**; CN 101663481 A 20100303; CN 101663481 B 20110921; EP 2134959 A2 20091223; EP 2134959 B1 20160928; FR 2914530 A1 20081003; FR 2914530 B1 20140620; JP 2010522841 A 20100708; JP 5208194 B2 20130612; KR 101548728 B1 20150901; KR 20090126309 A 20091208; MX 2009010324 A 20091216; US 2010116257 A1 20100513; US 8528532 B2 20130910

DOCDB simple family (application)

**FR 2008050216 W 20080212**; CN 200880012533 A 20080212; EP 08762068 A 20080212; FR 0702275 A 20070328; JP 2010500324 A 20080212; KR 20097022444 A 20080212; MX 2009010324 A 20080212; US 59348208 A 20080212