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

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Application

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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

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