

Title (en)

POWER SUPPLY FOR RADIOFREQUENCY IGNITION WITH DUAL-STAGE AMPLIFIER

Title (de)

NETZTEIL ZUR FUNKFREQUENZZÜNDUNG MIT EINEM ZWEISTUFIGEN VERSTÄRKER

Title (fr)

ALIMENTATION POUR ALLUMAGE RADIOFREQUENCE AVEC AMPLIFICATEUR A DOUBLE ETAGE

Publication

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Application

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Abstract (en)

[origin: WO2012160317A1] The invention relates to a power supply device for a radiofrequency ignition, said device being intended to supply a DC voltage at a predefined frequency to a series resonator and comprising a power supply source (3) able to deliver a DC power supply voltage (Valim), a DC-DC converter (4) amplifying said DC power supply voltage (Valim) and delivering on one output a DC voltage, known as the intermediate voltage (Vinter), the amplitude of which is higher than said DC power supply voltage, and a power switch controlled by a control signal for selectively applying said intermediate voltage (Vinter) to the series resonator at a control frequency equal to said predefined frequency. According to the invention, the DC-DC converter comprises two stages, a voltage raising stage (41) and a voltage regulating stage (42) so as to reduce the voltage drops at the output side of the converter when the ignition generates sparks.

IPC 8 full level

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