

Title (en)

CORONA IGNITION WITH SELF-TUNING POWER AMPLIFIER

Title (de)

KORONAZÜNDUNG MIT SELBSTEINSTELLENDEN LEISTUNGSVERSTÄRKER

Title (fr)

ALLUMAGE À EFFET CORONA COMPORTANT UN AMPLIFICATEUR DE PUISSANCE AUTO-ACCORDABLE

Publication

**EP 2971752 A1 20160120 (EN)**

Application

**EP 14712108 A 20140304**

Priority

- US 201313842803 A 20130315
- US 2014020153 W 20140304

Abstract (en)

[origin: WO2014149661A1] A power amplifier circuit that has an inductor and capacitor connected to one end of the output winding of an RF transformer. The other end of the output winding is connected to a current sensor that in turn is connected to ground. The transformer has two primary windings. Both primary windings have one end connected to a voltage supply. The other end of each primary winding is attached to a switch. All three windings are wound around a core. Current flowing from the DC voltage supply to the switches causes a magnetic flux in the core. A voltage is generated on the secondary winding current sensor by the current that flows through the igniter. This voltage is fed back to the switches, controlling on and off timing. Voltage is provided to the igniter or pulled from the igniter when the current traveling into or from the igniter is at zero.

IPC 8 full level

**F02P 23/04** (2006.01)

CPC (source: EP)

**F02P 3/01** (2013.01); **F02P 23/04** (2013.01)

Citation (search report)

See references of WO 2014149661A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2014149661 A1 20140925**; EP 2971752 A1 20160120; JP 2016514233 A 20160519; KR 20150129832 A 20151120

DOCDB simple family (application)

**US 2014020153 W 20140304**; EP 14712108 A 20140304; JP 2016500582 A 20140304; KR 20157028946 A 20140304