

Title (en)
Spark-plug and plasma generation

Title (de)
Zündkerze und Plasmaerzeugung

Title (fr)
Bougie d'allumage et génération de plasma

Publication
EP 1515594 B1 20170329 (FR)

Application
EP 04292189 A 20040913

Priority
FR 0310767 A 20030912

Abstract (en)
[origin: EP1515594A2] The plug has a series resonator with a resonance frequency higher than 1MHz and having a capacitor (111) whose terminals are connected to two electrodes (103, 106) for plasma generation. One electrode forms a spark plug shell and another electrode behaves as an anode. A radiofrequency excitation is applied to the plug and an insulating sleeve (100) separates free ends of the electrodes. Independent claims are also included for the following: (a) a plasma generation system including a spark plug; and (b) a plasma generation method.

IPC 8 full level
H05H 1/24 (2006.01); **H01T 13/50** (2006.01); **H01T 13/52** (2006.01)

CPC (source: EP US)
H01T 13/50 (2013.01 - EP); **H01T 13/52** (2013.01 - EP); **H05H 1/2406** (2013.01 - EP US); **H05H 1/52** (2013.01 - EP)

Citation (examination)
FR 2366719 A1 19780428 - TOKAI TRW & CO [JP]

Cited by
DE102011053169A1; JP2010535976A; DE102010045168A1; DE102015120254A1; US2017025825A1; FR2893989A1; US10263397B2; DE102010044845B3; DE102010055570B3; CN102619667A; DE102011053169B4; CN103261675A; CN103444024A; CN102396123A; DE102012100841B3; CN103967684A; DE102013101060B4; EP2012001A1; DE102009059649B4; EP2337173A3; DE102012110657B3; DE102010022334B3; CN102332683A; DE102012108251B4; CN102518541A; FR2919901A1; EP1918565A3; DE102010045168B4; DE102015120254B4; WO2006054009A1; WO2007060362A1; WO2008017601A1; US9484719B2; US8656897B2; DE102010015343A1; US8614540B2; US9062648B2; US7741761B2; US8767372B2; WO2009024713A1; EP2337173A2; DE102009059649A1; US8863730B2; US9574540B2; DE102012108251A1; US8550048B2; US8742652B2; US9366221B2; US8006546B2; DE202014101756U1; US8844490B2; US8869765B2; US9941672B2; JP2009519404A; EP2745362B1; EP2745362B2

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