

Title (en)
Plasma generating spark plug with integrated inductance

Title (de)
Plasma generierende Zündkerze mit eingebauter Spule

Title (fr)
Bougie de génération de plasma à inductance intégrée

Publication
EP 1515408 A3 20061115 (FR)

Application
EP 04292188 A 20040913

Priority
FR 0310766 A 20030912

Abstract (en)
[origin: EP1515408A2] The spark plug has two plasma generation electrodes (103, 106), and a series resonator with resonance frequency greater than 1 mega hertz. The resonator includes a capacitor (111) with two terminals, and an inductive winding (112) connected in series. The inductive winding includes several coils superposed along its axis. The electrodes are connected to respective terminals of the capacitor.

IPC 8 full level
H01T 13/50 (2006.01); **F02P 23/04** (2006.01); **H01T 13/44** (2006.01)

CPC (source: EP)
F02P 23/045 (2013.01); **H01T 13/44** (2013.01); **F02P 3/01** (2013.01)

Citation (search report)

- [X] US 6550463 B1 20030422 - SCHMOLLA WILFRIED [DE]
- [X] DE 19723784 C1 19980820 - DAIMLER BENZ AG [DE]
- [A] EP 0482127 B
- [A] GB 859956 A 19610125 - NAPIER & SON LTD

Cited by
FR2982711A1; CN102804527A; FR2894034A1; EP2025927A3; CN102155344A; JP2010507206A; US8278807B2; FR2905538A1; CN102518541A; RU2474723C2; WO2014118451A1; US7710104B2; US7644698B2; WO2007060347A1; US7974068B2; US10056737B2; US9088136B2; US9970408B2; US10056738B2; US10490982B2; US11075504B2; WO2009016310A3; WO2013142398A1; WO2008025911A1; WO2010043545A1; EP2427938A4; JP2010502148A; JP2008544459A; JP4869351B2; JP2009517681A; CN104303382A; JP2015512556A; JP2018067553A; JP2018120867A; EP3379665A1; FR2919343A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK

DOCDB simple family (publication)
EP 1515408 A2 20050316; EP 1515408 A3 20061115; EP 1515408 B1 20101124; AT E489751 T1 20101215; DE 602004030195 D1 20110105; EP 2273632 A2 20110112; EP 2273632 A3 20130313; EP 2273632 B1 20140226; ES 2354155 T3 20110310; ES 2455742 T3 20140416; FR 2859830 A1 20050318; FR 2859830 B1 20140221

DOCDB simple family (application)
EP 04292188 A 20040913; AT 04292188 T 20040913; DE 602004030195 T 20040913; EP 10012339 A 20040913; ES 04292188 T 20040913; ES 10012339 T 20040913; FR 0310766 A 20030912