

Title (en)

New mounting method of a spark plug and bobbin assembly using a transmission of the tightening couple through the bobbin housing

Title (de)

Neues Zusammensetzungsverfahren einer Anordnung einer Zündkerze und einer Spule durch Benützung eines Einspannungsmoments mit Hilfe des Spulenkörpers

Title (fr)

Nouveau procédé de montage d'un ensemble bougie et bobine utilisant une transmission du couple de serrage par le corps de la bobine

Publication

EP 1662626 A1 20060531 (FR)

Application

EP 05300966 A 20051125

Priority

FR 0452790 A 20041129

Abstract (en)

The plug has a capacitive part (C) and an inductive part (I) connected in series to form a resonator. The parts are connected mechanically and electrically by a connection unit (13). The part (I) has a wire core (8) to transmit a tightening torque, for connecting the parts, to a shell (2) composed by the part (C). The wire core has an enlarged part with shape and dimension complementary to inner shape of the shell. The inductive part has an envelope (6) whose outer surface covered with a layer of thickness about 30 to 50 micrometer of a material having high electrical conductivity, so that outer diameter of the inductive part is slightly increased.

IPC 8 full level

H01T 13/44 (2006.01)

CPC (source: EP)

H01T 13/08 (2013.01); **H01T 13/44** (2013.01)

Citation (search report)

- [X] DE 19723784 C1 19980820 - DAIMLER BENZ AG [DE]
- [A] EP 0969575 A1 20000105 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 1351355 A2 20031008 - DENSO CORP [JP]
- [DA] EP 1249907 A2 20021016 - NGK SPARK PLUG CO [JP]

Cited by

EP2058909A1; DE102012109762A1; WO2014056826A1; EP2456027A1; FR2995460A1; CN103726972A; DE102012109762B4; JP2015537334A; WO2010043542A1; DE102013100925A1; US9341371B2; US7963262B2; JP2009115093A; US9698575B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1662626 A1 20060531; **EP 1662626 B1 20080116**; AT E384351 T1 20080215; DE 602005004362 D1 20080306; DE 602005004362 T2 20090115; ES 2299983 T3 20080601; FR 2878658 A1 20060602

DOCDB simple family (application)

EP 05300966 A 20051125; AT 05300966 T 20051125; DE 602005004362 T 20051125; ES 05300966 T 20051125; FR 0452790 A 20041129