

Title (en)  
RADIOFREQUENCY PLASMA SPARK PLUG

Title (de)  
FUNKFREQUENZ-PLASMAZÜNDKERZE

Title (fr)  
BOUGIE A PLASMA RADIOFREQUENCE

Publication  
**EP 1815570 A1 20070808 (FR)**

Application  
**EP 05815563 A 20051027**

Priority  
• FR 2005050909 W 20051027  
• FR 0412153 A 20041116

Abstract (en)  
[origin: WO2006054009A1] The invention concerns a so-called radiofrequency plasma spark plug (1) designed to equip a combustion chamber (2) comprising: an annular shell (3) with a main axis D; a central electrode (7) made of a second conductive material, extending along the main axis D and including an inner portion (8) arranged inside said annular shell (3) and an outer portion (9) arranged outside said annular shell (3); an annular electrically insulating part (10) extending at least about the inner portion (8) of the central electrode (7) so as to be interposed between the shell (3) and the electrode (7), said insulating part (10) only covering part of the outer portion (9) of the central electrode (7). The insulating part (10) having an annular flange (11) concealing the entire circular terminal surface (6) of the shell relative to the uncovered part (16) of the electrode (7).

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

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

Citation (search report)  
See references of WO 2006054009A1

Cited by  
EP2337173A3

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)  
**FR 2878086 A1 20060519; FR 2878086 B1 20070309**; AT E463062 T1 20100415; CN 101057379 A 20071017; CN 101057379 B 20120425; DE 602005020345 D1 20100512; EP 1815570 A1 20070808; EP 1815570 B1 20100331; ES 2343362 T3 20100729; JP 2008521164 A 20080619; JP 5062629 B2 20121031; KR 101110436 B1 20120215; KR 20070085431 A 20070827; PL 1815570 T3 20100831; RU 2007122515 A 20081227; RU 2352041 C1 20090410; US 2009146542 A1 20090611; US 7741761 B2 20100622; WO 2006054009 A1 20060526

DOCDB simple family (application)  
**FR 0412153 A 20041116**; AT 05815563 T 20051027; CN 200580039108 A 20051027; DE 602005020345 T 20051027; EP 05815563 A 20051027; ES 05815563 T 20051027; FR 2005050909 W 20051027; JP 2007540687 A 20051027; KR 20077011716 A 20051027; PL 05815563 T 20051027; RU 2007122515 A 20051027; US 71940305 A 20051027