

Title (en)  
RADIOFREQUENCY PLASMA GENERATION DEVICE

Title (de)  
HOCHFREQUENZ-PLASMAERZEUGUNGSEINRICHTUNG

Title (fr)  
DISPOSITIF DE GENERATION DE PLASMA RADIOFREQUENCE

Publication  
**EP 2080254 B1 20100317 (FR)**

Application  
**EP 07823538 A 20070703**

Priority  
• FR 2007051582 W 20070703  
• FR 0609081 A 20061017

Abstract (en)  
[origin: US8278807B2] A device including two plasma generation electrodes, a series resonator having a resonant frequency above 1 MHz and including a capacitor with two terminals, and an induction coil surrounded by a screen, the capacitor and the coil being placed in series, the electrodes being connected to the respective terminals of the capacitor. The ratio of the spark plug to the radius of the screen is equal to 0.56. The device can optimize the Q-factor of such a device by adjusting the radius of the coil to that of the screen.

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

CPC (source: EP US)  
**H01T 13/44** (2013.01 - EP US); **H01T 13/50** (2013.01 - EP US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2907269 A1 20080418; FR 2907269 B1 20090130**; AT E461544 T1 20100415; DE 602007005395 D1 20100429; EP 2080254 A1 20090722; EP 2080254 B1 20100317; ES 2342987 T3 20100720; JP 2010507206 A 20100304; JP 5108892 B2 20121226; US 2010187999 A1 20100729; US 8278807 B2 20121002; WO 2008047013 A1 20080424

DOCDB simple family (application)  
**FR 0609081 A 20061017**; AT 07823538 T 20070703; DE 602007005395 T 20070703; EP 07823538 A 20070703; ES 07823538 T 20070703; FR 2007051582 W 20070703; JP 2009532852 A 20070703; US 44563607 A 20070703