

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)
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