

Title (en)
MINIATURIZABLE PLASMA SOURCE

Title (de)
MINIATURISIERBARE PLASMAQUELLE

Title (fr)
SOURCE DE PLASMA MINIATURISABLE

Publication
EP 2529601 A1 20121205 (DE)

Application
EP 11704740 A 20110128

Priority
• DE 102010001395 A 20100129
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Abstract (en)
[origin: WO2011092298A1] The invention relates to a plasma source comprising an oscillator, which has an active element and a resonator connected to the active element. The resonator comprises a hollow body, a gas inlet, a gas outlet arranged at a distal end of the hollow body about a longitudinal axis of the hollow body, and a coil arranged along the longitudinal axis of the hollow body, the coil having an effective length of one quarter of a wavelength at a resonant frequency of the resonator. A distal end of the coil is arranged relative to the gas outlet such that a plasma section can form between the distal end of the coil serving as a first plasma electrode and the gas outlet of the hollow body serving as a second plasma electrode. At a proximal end of the hollow body, the coil is lead out of the interior of the hollow body through an electrically contact-free feedthrough, and a proximal end of the coil contacts the outside of the hollow body. On a first contact region located between the proximal end of the coil and the feedthrough, the coil is coupled to a first port of the active element, and on a second contact region located between the proximal end of the coil and the feedthrough, it is coupled to a second port of the active element.

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H05H 1/46 (2006.01)

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Citation (search report)
See references of WO 2011092298A1

Cited by
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