

Title (en)
PLASMA NOZZLE AND METHOD OF USING THE PLASMA NOZZLE

Title (de)
PLASMADÜSE UND VERFAHREN ZUR VERWENDUNG DER PLASMADÜSE

Title (fr)
BUSE PLASMA ET PROCEDE D'UTILISATION DE LA BUSE PLASMA

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Application
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Abstract (en)

[origin: WO2017157975A1] The invention relates to a plasma nozzle (1) for generating a plasma jet (5) comprising at least one electrode (7), a sheathing (9) concentrically surrounding the electrode (7), wherein a discharge chamber (11) is formed between the electrode (7) and the sheathing (9), and wherein the discharge chamber (11) has an inlet opening (12) for a process gas and a nozzle opening (14) for emergence of the plasma jet (5) and the sheathing (9) contains or consists of a dielectric, a first counterelectrode (20) surrounding the discharge chamber (11) in a ring-shaped fashion in a first longitudinal section, wherein the first counterelectrode (20) is electrically insulated from the electrode (7) by the sheathing (9), and a second counterelectrode (16) is furthermore present, which surrounds the discharge chamber (11) in a ring-shaped fashion in a second longitudinal section, wherein the second counterelectrode (16) has a ring surface (18) widened in a plate-shaped fashion. The invention furthermore relates to a method for operating such a plasma nozzle.

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Citation (examination)

- KR 20140101235 A 20140819 - KOREA MACH & MATERIALS INST [KR]
- JP 2007207475 A 20070816 - UNIV IBARAKI, et al
- CN 201528464 U 20100714 - INST PLASMA PHYSICS CAS

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