

Title (en)
PLASMA NOZZLE

Title (de)
PLASMADÜSE

Title (fr)
BUSE À PLASMA

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EP 17712057 A 20170315

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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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