

Title (en)

Generator for generating a bundled plasma jet

Title (de)

Strahlgenerator zur Erzeugung eines gebündelten Plasmastrahls

Title (fr)

Générateur destiné à produire un jet de plasma collimé

Publication

EP 2209354 B1 20140409 (DE)

Application

EP 10150084 A 20100105

Priority

- DE 102009004968 A 20090114
- DE 202009000537 U 20090114

Abstract (en)

[origin: EP2209354A2] The generator (1) has a hollow cylindrical casing (6) comprising a conical section (8) reducing in a direction of an annular electrode (7). A pin electrode (5) extends into the casing, and ends before the conical section. The casing immediately surrounds the pin electrode, and a working gas supply has a unit (13) i.e. sleeve (14), for generating turbulent flow (35) of a working gas (4) i.e. air. A voltage source i.e. pulsed direct current (DC) voltage source, applies voltage between the pin- and annular electrodes, and the casing and/or annular electrode are grounded. The annular electrode is made of a material with an adhesive oxide layer.

IPC 8 full level

H05H 1/24 (2006.01); **H05H 1/34** (2006.01); **H05H 1/48** (2006.01)

CPC (source: EP US)

H05H 1/34 (2013.01 - EP US); **H05H 1/3468** (2021.05 - EP); **H05H 1/3478** (2021.05 - EP)

Cited by

DE102011076806A1; CN109504970A; EP4277442A3; WO2012163876A1

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DOCDB simple family (publication)

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