

Title (en)

NOZZLE ARRANGEMENT AND DEVICE FOR GENERATING AN ATMOSPHERIC PLASMA JET

Title (de)

DÜSENANORDNUNG UND VORRICHTUNG ZUR ERZEUGUNG EINES ATMOSPHERISCHEN PLASMASTRAHLS

Title (fr)

AGENCEMENT DE BUSE ET DISPOSITIF DE GÉNÉRATION D'UNE JET DE PLASMA ATMOSPHERIQUE

Publication

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Application

**EP 17835848 A 20171221**

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- EP 2017084189 W 20171221

Abstract (en)

[origin: WO2018115335A1] The invention relates to a nozzle assembly (42, 42', 42'', 42''') for a device (40, 40', 40'', 40''', 100, 110) for generating an atmospheric plasma jet (12), comprising an inlet (48) through which an atmospheric plasma jet (12) can be introduced into the nozzle assembly (42, 42', 42'', 42''') and comprising a channel (56, 56'') which is connected to the inlet (48) such that a plasma jet (12) which has been introduced into the nozzle assembly (42, 42', 42'', 42''') through the inlet (48) is conducted through the channel (56). Multiple nozzle openings (62) are provided in the channel wall along the channel (56, 56''), and a plasma jet (12) which is conducted through the channel (56, 56'') can exit the nozzle assembly (42, 42', 42'', 42''') through said nozzle openings. The invention additionally relates to a device (40, 40', 40'', 40''', 100, 110) for generating an atmospheric plasma jet (12), said device comprising such a nozzle assembly, to the use thereof, to a method for the plasma treatment of a material (72), to the correspondingly plasma-treated material (72), and to a hygiene article (88) having a layer (86, 88) made of plasma-treated nonwoven fabric (72).

IPC 8 full level

**H05H 1/34** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2018115335A1

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