

Title (en)

DEVICE FOR GENERATING AN ATMOSPHERIC PLASMA JET FOR TREATING A SURFACE OF A WORKPIECE

Title (de)

VORRICHTUNG ZUM ERZEUGEN EINES ATMOSPHERISCHEN PLASMASTRAHLS ZUR BEHANDLUNG EINER OBERFLÄCHE EINES WERKSTÜCKS

Title (fr)

DISPOSITIF DE GÉNÉRATION D'UN JET DE PLASMA ATMOSPHERIQUE POUR LE TRAITEMENT D'UNE SURFACE D'UNE PIÈCE À USINER

Publication

EP 4353054 A1 20240417 (DE)

Application

EP 22735311 A 20220608

Priority

- DE 102021115020 A 20210610
- EP 2022065479 W 20220608

Abstract (en)

[origin: WO2022258654A1] The invention relates to a device (42, 42', 42'', 42''', 52) for generating an atmospheric plasma jet (28) for treating a surface of a workpiece, comprising a plasma nozzle (3, 53, 53') designed to generate an atmospheric plasma jet (28), wherein: the plasma nozzle (3, 53, 53') comprises a nozzle assembly (44) having a nozzle opening (48, 48', 48'', 48''', 58, 58') for discharging a plasma jet (28) to be generated in the plasma nozzle (3); the nozzle assembly (44) can be rotated about an axis (A, B); and the nozzle opening (48, 48', 48'', 48''', 58, 58') has a cross-section with a shape deviating from a circular shape.

IPC 8 full level

H05H 1/34 (2006.01)

CPC (source: EP KR)

H05H 1/3463 (2021.05 - EP KR); **H05H 1/3478** (2021.05 - EP KR); **H05H 1/3484** (2021.05 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021115020 A1 20221215; CN 117461390 A 20240126; EP 4353054 A1 20240417; JP 2024522400 A 20240619; KR 20240019167 A 20240214; WO 2022258654 A1 20221215

DOCDB simple family (application)

DE 102021115020 A 20210610; CN 202280041272 A 20220608; EP 2022065479 W 20220608; EP 22735311 A 20220608; JP 2023575903 A 20220608; KR 20237045145 A 20220608