

Title (en)

ATMOSPHERIC-PRESSURE PLASMA GENERATION DEVICE WITH LIGHT EMITTING DEVICE

Title (de)

ATMOSPHÄHRENDRUCK-PLASMAERZEUGUNGSVORRICHTUNG MIT LICHTEMITTIERENDER VORRICHTUNG

Title (fr)

DISPOSITIF DE GÉNÉRATION DE PLASMA À PRESSION ATMOSPHÉRIQUE AVEC DISPOSITIF D'ÉMISSION DE LUMIÈRE

Publication

**EP 3346806 A1 20180711 (EN)**

Application

**EP 15903005 A 20150902**

Priority

JP 2015074919 W 20150902

Abstract (en)

Plasma emitting device 10 is provided with main body section 12, pair of electrodes 14 and 16, gas supply device 20, and laser emitting device 22. Gas supply device 20 supplies processing gas inside main body section 12. Then, voltage is applied to electrodes 14 and 16 such that electrical discharge occurs between electrodes 14 and 16, which causes the processing gas flowing inside cylindrical section 23 of main body section 12 to be plasmarized. Accordingly, plasma emitted from the opening on the end surface of cylindrical section 23 opposite to the end to which laser emitting device 22 is connected is emitted in an axial direction of cylindrical section 23. Also, laser emitting device 22 emits laser light in an axial direction of cylindrical section 23. Accordingly, due to the light, it is possible to visually check the plasma emission position, and it is possible to appropriately apply plasma to a target body.

IPC 8 full level

**H05H 1/24** (2006.01); **H05H 1/46** (2006.01)

CPC (source: EP US)

**H05H 1/2406** (2013.01 - EP US); **H05H 1/2443** (2021.05 - EP); **H05H 1/46** (2013.01 - EP); **H05H 1/466** (2021.05 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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