

Title (en)

Plasma powder processing apparatus and method

Title (de)

Vorrichtung und Verfahren zur Plasmapulververarbeitung

Title (fr)

Appareil et procédé de traitement de poudres par plasma

Publication

EP 2424336 A1 20120229 (EN)

Application

EP 10174177 A 20100826

Priority

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Abstract (en)

Plasma processing of powder particles is performed by supplying a first gas stream, containing particle material to be processed, and a second gas stream comprising a plasma carrier gas. The first gas stream is supplied from an inlet pipe into a dielectric pipe. The dielectric pipe coaxially surrounds the inlet pipe, and extends beyond a downstream end of the inlet pipe. The second gas stream is supplied into a space between the inlet pipe and the dielectric pipe and from there into the dielectric pipe beyond a downstream end of the inlet pipe. A surface dielectric barrier plasma discharge is generated along the inner surface of the dielectric pipe at least on a part of the dielectric pipe upstream of the downstream end of the inlet pipe.

IPC 8 full level

H05H 1/24 (2006.01)

CPC (source: EP US)

H05H 1/2439 (2021.05 - EP US); **H05H 1/246** (2021.05 - EP)

Citation (applicant)

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