

Title (en)

PLASMA UNIT AND METHOD FOR GENERATION OF A FUNCTIONAL COATING

Title (de)

PLASMAANLAGE UND VERFAHREN ZUR ERZEUGUNG EINER FUNKTIONSBESCHICHTUNG

Title (fr)

INSTALLATION AU PLASMA ET PROCEDE DE GENERATION D'UN REVETEMENT FONCTIONNEL

Publication

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Application

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Abstract (en)

[origin: WO02062114A1] A plasma unit with an inductively-coupled, high-frequency plasma beam source (5), comprising a burner body (25), defining a plasma generation chamber (27), an outlet opening (26) for the plasma beam (20), a coil (17) partly surrounding the plasma generation chamber (27), an inlet (10), for introduction of a gas or and/or precursor material into the plasma generation chamber (27) and a high frequency generator (16), connected to said coil (17), for initiating the plasma and injecting an electrical power into the plasma (21) is disclosed. The plasma beam source (5) further comprises an electrical component, by means of which the intensity of the plasma beam (20) may be intermittently altered in a periodic manner. The invention further relates to a method for the generation of a functional coating on a substrate (19) by means of the plasma unit.

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