

Title (en)

METHOD AND DEVICE FOR THE TREATMENT OF SURFACES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG VON OBERFLÄCHEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE TRAITEMENT DE SURFACES

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Application

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Abstract (en)

[origin: WO2009074546A1] The invention relates to a device and a method for the treatment of surfaces using plasma which is generated at atmospheric pressure. The device according to the invention is implemented as a portable handheld unit and comprises a plasma nozzle (16) for generating a plasma jet (18), the nozzle comprising a nozzle opening (17) and at least one electrode and counter electrode pair (27, 28), which is disposed upstream from the nozzle opening, and the active electrode surfaces thereof each have a dielectric coating (29, 30), wherein said electrode (27) and said counter electrode (28) define an operating chamber (34) between them, in which an operating gas can be at least partially ionized using dielectrically impeded gas discharge, a high-voltage generator (19, 20), which is electrically connected to the electrode and counter electrode pair (27, 28), a conveyance means (15), which generates a gas flow of the operating gas from an operating gas source into the operating chamber (34) and through the nozzle opening (17), wherein said operating gas source is the ambient air, and a mains-independent power source (12) for supplying the high-voltage generator (19, 20) and the conveyance means (19).

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