

Title (en)
METHOD AND APPARATUS FOR SURFACE TREATMENT OF MATERIALS UTILIZING MULTIPLE COMBINED ENERGY SOURCES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR OBERFLÄCHENBEHANDLUNG VON MATERIALIEN MIT MEHREREN KOMBINIERTEN ENERGIEQUELLEN

Title (fr)
PROCÉDÉ ET APPAREIL POUR TRAITER LA SURFACE DE MATÉRIAUX AU MOYEN DE MULTIPLES SOURCES D'ÉNERGIE COMBINÉES

Publication
EP 2726666 B1 20180404 (EN)

Application
EP 12753547 A 20120628

Priority
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Abstract (en)
[origin: WO2013001306A2] Material treatment is effected in a treatment region (124) by at least two energy sources, such as (i) an atmospheric pressure (AP) plasma and (ii) an ultraviolet (UV) laser directed into the plasma and optionally onto the material being treated. Precursor materials (323) may be dispensed before, and finishing material (327) may be dispensed after treatment. Electrodes (e1, e2) for generating the plasma may comprise two spaced-apart rollers (212/214; 412/414; 436/438). Nip rollers (416/418; 436/438) adjacent the electrode rollers (412/414) define a semi-airtight cavity (440), and may have a metallic outer layer (437/439).

IPC 8 full level
D06M 10/02 (2006.01); **D06M 10/00** (2006.01)

CPC (source: EP)
D06M 10/005 (2013.01); **D06M 10/025** (2013.01)

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US 2009120782 A1 20090514 - HAMMEN RICHARD R [US], et al

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