

Title (en)  
COATING, AND METHOD AND DEVICE FOR COATING

Title (de)  
BESCHICHTUNG SOWIE VERFAHREN UND VORRICHTUNG ZUM BESCHICHTEN

Title (fr)  
REVÊTEMENT AINSI QUE PROCÉDÉ ET DISPOSITIF DE REVÊTEMENT

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Abstract (en)  
[origin: WO2012123530A1] The invention relates to a method and a device for applying a coating to a substrate (20), wherein a plasma jet (2) of a low-temperature plasma is produced by conducting a working gas (3) through an excitation zone. The plasma jet is directed at the substrate (20), and plate-shaped particles (10) having an average thickness (H) between 10 and 50,000 nanometers and a shape factor (F) in a value range from 10 to 2000 are fed into the plasma jet (2). The plate-shaped particles are fed into the plasma jet (2) by means of a carrier gas (14). The plasma jet (2) is produced by exciting the working gas (3) by means of an alternating voltage or a pulsed direct voltage.

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Citation (search report)  
See references of WO 2012123530A1

Citation (examination)  
LI C J ET AL: "Formation of metastable phases in cold-sprayed soft metallic deposit", SURFACE AND COATINGS TECHNOLOGY, ELSEVIER BV, AMSTERDAM, NL, vol. 198, no. 1-3, 1 August 2005 (2005-08-01), pages 469 - 473, XP027608398, ISSN: 0257-8972, [retrieved on 20050801]

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