

Title (en)
METHOD AND DEVICE FOR DEPOSITING THIN FILMS BY ELECTROHYDRODYNAMIC, IN PARTICULAR POST-DISCHARGE, SPRAYING

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ABLEGEN VON DÜNNSCHICHTEN DURCH ELEKTROHYDRODYNAMISCHES SPRÜHEN, INSBESONDERE NACH DEM ENTLADEN

Title (fr)
PROCEDE ET DISPOSITIF POUR LE DEPOT DE COUCHES MINCES PAR PULVERISATION ELECTROHYDRODYNAMIQUE, NOTAMMENT EN POST-DECHARGE

Publication
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Application
EP 05779692 A 20050628

Priority

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- FR 0407084 A 20040628

Abstract (en)
[origin: WO2006010845A1] The invention concerns a method for depositing a thin polymer film on a substrate for functionalizing the surface of said substrate, comprising a step which consists in electrohydrodynamic spraying of a polymerizable precursor towards the substrate so as to produce an electrostatic deposition of electrically charged droplets of said precursor and form the thin film on the surface by polymerizing the droplets. The method is characterized in that it further comprises a step for causing the excited species to interact with the droplets of the sprayed precursor, thereby promoting the polymerization reactions of said precursor. The invention also concerns a device for implementing the method, in particular for depositing a thin polymer film on a moving substrate-film.

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