

Title (en)

IMPROVED GUIDANCE OF IONS FROM A PLASMA TO A SUBSTRATE TO BE COATED

Title (de)

VERBESSERTE LENKUNG VON IONEN AUS EINEM PLASMA AUF EIN ZU BESCHICHTENDES SUBSTRAT

Title (fr)

PROCÉDÉ AMÉLIORÉ DE GUIDAGE D'IONS PROVENANT D'UN PLASMA SUR UN SUBSTRAT À MUNIR D'UN REVÊTEMENT

Publication

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Application

**EP 17732864 A 20170621**

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Abstract (en)

[origin: WO2018019482A1] The invention relates to a substrate holder (1) comprising a first contact (3) for the supply of a potential  $U_s$  to the substrate (2), a charging region (12) on the surface (11) of the substrate holder (1) being designed such that it can be charged (13) with ions (101, 102) from the ion source (104) of a coating facility (100), and/or a second contact (4) is provided by means of which a freely selectable potential  $U_H$  different from the potential  $U_s$  can be applied to an electrode region (14) on the surface (11) of the substrate holder (1). The invention also relates to a coating facility (100) comprising at least one ion source (104) and a first voltage source (106) that can be connected to the substrate to be coated (2) such that gas ions (101) and/or ions (102) of a coating material (103) can be accelerated in the direction of the substrate (2) from the ion source (104) by means of an electric potential  $U_s$  applied to the substrate (2) from the first voltage source (106), at least one secondary surface (11, 105), towards which ions (101, 102) missing the substrate (2) move, being designed (13, 113) such that it can be charged with arriving ions (101, 102), and/or at least one second voltage source (107) being provided, which can be connected to the secondary surface (11, 105) such that a freely selectable potential  $U_s$  different from the potential  $U_s$  can be applied to said secondary surface (11, 105). The invention further relates to an operating method and to a computer program product.

IPC 8 full level

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