

Title (en)
COATING METHOD

Title (de)
BESCHICHTUNGSVERFAHREN

Title (fr)
PROCEDE DE REVÊTEMENT

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Application
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Abstract (en)
[origin: US2008090071A1] The present invention relates to a method of coating a surface with nanoparticles, to a nanostructured coating that can be obtained by this method, and also to a device for implementing the method of the invention. The method is characterized in that it comprises an injection of a colloidal sol of said nanoparticles into a plasma jet that sprays them onto said surface. The device (1) comprises: a plasma torch (3); at least one container (5) containing the colloidal sol (7) of nanoparticles; a device (9) for fixing and for moving the substrate(S); and a device (11) for injecting the colloidal sol into the plasma jet (13) of the plasma torch. The present invention has applications in optical, electronic and energy devices (cells, thermal barriers) comprising a nanostructured coating that can be obtained by the method of the invention.

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