

Title (en)
METHOD AND DEVICE FOR DEPOSITING A NON-METALLIC COATING BY MEANS OF COLD-GAS SPRAYING

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ABSCHIEDUNG EINER NICHTMETALLISCHEN BESCHICHTUNG MITTELS KALTGAS-SPRITZEN

Title (fr)
PROCEDE ET DISPOSITIF DE DEPOT D'UN REVETEMENT NON METALLIQUE PAR PROJECTION A GAZ FROID

Publication
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Application
EP 06805371 A 20060929

Priority
DE 2006001751 W 20060929

Abstract (en)
[origin: US8574687B2] In a method for depositing a non-metallic, in particular ceramic, coating on a substrate (2) by cold gas spraying, the method has the steps of: producing a reactive gas flow (5) having at least one reactive gas, injecting into the reactive gas flow (5) particles (4) consisting of at least one material required for producing a non-metallic, in particular ceramic, coating material by reaction with the reactive gas, so as to form a mixture flow of reactive gas and particles (4), producing reactive gas radicals in the mixture flow, and directing the mixture flow having reactive gas radicals and particles onto a surface of a substrate (2) to be coated, and so a non-metallic, in particular ceramic, coating is deposited on the surface of the substrate (2). In addition, a description is given of a device (1) for carrying out the method.

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