

Title (en)

METHOD OF PRODUCING THIN, POORLY SOLUBLE COATINGS

Title (de)

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Title (fr)

PROCEDE DE REALISATION DE REVETEMENTS MINCES ET DIFFICILEMENT SOLUBLES

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Application

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Abstract (en)

[origin: US8158204B1] For making ceramic or oxidic layers (CL/OL) on substrates (S), the method according to the invention therefore provides that following application (I) and drying (II) of a suitable precursor (P) the formed precursor layer (PLD) is gassed (III) with a moist reactant gas (RG) for conversion into a corresponding hydroxide or complex layer (HL) and then thermally treated (IV) for forming a ceramic or oxidic layer (CL/OL). For the alternative production of other chalcogenidic layers of increased material conversion additional gassing is carried out with a reactant gas containing chalcogen hydrogen. Metallic layers may alternatively be made by use of a reducing reactant gas. The methods in accordance with the invention may be used wherever surfaces, even those of shaded structures, must be protected or modified or provided with functional layers, particularly in solar and materials technology.

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