

Title (en)

METHOD FOR DEPOSITING A METAL OXIDE COATING ON A SUBSTRATE

Title (de)

VERFAHREN ZUR ABSCHIEDUNG EINER METALLOXIDBESCHICHTUNG AUF EINEM SUBSTRAT

Title (fr)

PROCEDE DE DEPOT D'UN REVETEMENT D'OXYDE METALLIQUE SUR UN SUBSTRAT

Publication

EP 1713954 A2 20061025 (FR)

Application

EP 05717673 A 20050118

Priority

- FR 2005050028 W 20050118
- FR 0450105 A 20040120

Abstract (en)

[origin: FR2865219A1] The process, in which a metal oxide is applied to a substrate in the form of a colloidal solution of a metal hydroxide which is then transformed into an oxide by pyrolysis of a gel obtained from the solution, uses an initial colloidal solution that is applied in a thixotropic state obtained by concentration or by adding an organic or inorganic ingredient such as an acetate or formate. The substrate can be of metal, ceramic or glass, and the metal oxide is selected from aluminum, silica, zirconium, titanium or albanite, and it can be porous or non-porous. the metal oxide coating can be applied to the substrate in a series of successive layers with a chemical composition, structure or porosity gradient.

IPC 8 full level

C23C 18/12 (2006.01)

CPC (source: EP)

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