

Title (en)

PROCESS FOR PRODUCING OXIDE CERAMIC COATING.

Title (de)

VERFAHREN ZUR HERSTELLUNG OXIDKERAMISCHER BESCHICHTUNGEN.

Title (fr)

PROCEDE DE PRODUCTION D'UN REVETEMENT EN CERAMIQUE OXYDEE.

Publication

EP 0677596 A4 19950823 (EN)

Application

EP 94929654 A 19941013

Priority

- JP 9401718 W 19941013
- JP 28029193 A 19931014

Abstract (en)

[origin: WO9510640A1] A process for producing an oxide ceramic coating from a sol comprising a solution of a metallic compound, which aims at solving problems involved in various processes for producing an oxide ceramic coating, such as the vapor-phase methods including the chemical and physical vapor deposition methods which are generally low in productivity and the sol-gel method which, too, is low in productivity because only a thin coating of 0.1-0.3 μm in thickness is formed in one coating run and in which a thick coating, even when formed, is apt to crack because gel shrinkage occurs in evaporating off the alcohol component from the sol. The invention process permits production of a noncracking uniform oxide ceramic coating by electrostatically atomizing a sol comprising a solution of a metallic or silicon compound to form a gel coating scarcely containing solvent molecules on the surface of a substrate, followed by firing.

IPC 1-7

C23C 18/12

IPC 8 full level

C23C 18/12 (2006.01)

CPC (source: EP)

C23C 18/1208 (2013.01); **C23C 18/1254** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9510640A1

Cited by

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