

Title (en)

METHOD FOR THE PRODUCTION OF THIN POORLY-SOLUBLE COATINGS

Title (de)

VERFAHREN ZUR HERSTELLUNG DÜNNER, SCHWER LÖSLICHER BESCHICHTUNGEN

Title (fr)

PROCEDE DE FABRICATION DE REVETEMENTS FINS PEU SOLUBLES

Publication

EP 1448808 A2 20040825 (DE)

Application

EP 02798256 A 20021129

Priority

- DE 0204457 W 20021129
- DE 10160504 A 20011130

Abstract (en)

[origin: WO03048404A3] in conventional methods for the reaction to give final products, the cation donor starting material is introduced in solid form and the anion donor starting material in gas form as reactant gas. The anion donor starting material in particular can however be highly toxic, such as to be technically difficult to handle in the gaseous state. According to the inventive method both starting materials are applied to a solid mixture as easily handled solids, whereby under the applied method conditions the starting materials in the solid mixture do not inter- or intra-react. After application of the solid mixture to a substrate with any morphology, the solid dry starting layer is treated with an activating gas, which triggers the chemical reaction between the solid starting materials, which is as non-toxic as possible and the components of which are not contained in the final product. Said method is thus suitable for production of chalcogenide coatings or organic coatings according to the choice of starting materials in a technically simple, reliable and economic manner of operation, in particular in large-scale applications.

IPC 1-7

C23C 20/06; **H01L 31/18**

IPC 8 full level

C23C 8/02 (2006.01); **C23C 24/08** (2006.01); **C23C 26/00** (2006.01)

CPC (source: EP)

C23C 8/02 (2013.01); **C23C 24/08** (2013.01); **C23C 26/00** (2013.01)

Cited by

DE102011050684A1; US9757767B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03048404 A2 20030612; **WO 03048404 A3 20031127**; AT E361380 T1 20070515; DE 10160504 A1 20030612; DE 10160504 C2 20031113; DE 50210087 D1 20070614; EP 1448808 A2 20040825; EP 1448808 B1 20070502; ES 2284972 T3 20071116

DOCDB simple family (application)

DE 0204457 W 20021129; AT 02798256 T 20021129; DE 10160504 A 20011130; DE 50210087 T 20021129; EP 02798256 A 20021129; ES 02798256 T 20021129