

Title (en)

Method of fabricating a coated substrate

Title (de)

Verfahren zur Herstellung eines beschichteten Substrats

Title (fr)

Procédé de fabrication d'un substrat revêtu

Publication

EP 2947179 A1 20151125 (EN)

Application

EP 14305750 A 20140521

Priority

EP 14305750 A 20140521

Abstract (en)

The method of coating a substrate by sol-gel deposition comprises: - a step of depositing a layer of a first sol-gel composition on the substrate, the first sol-gel composition being intended to form a first film, the first sol-gel composition comprising at least one ruthenium dioxide (RuO_2) precursor and at least one inorganic matrix precursor; and - a step of firing the layer of first sol-gel composition up to a first temperature; and then - a step of depositing a layer of a second sol-gel composition on the layer of first sol-gel composition, the second sol-gel composition being intended to form an inorganic second film, ruthenium being substantially absent of the second sol-gel composition; and - a step of firing the layer of first sol-gel composition and the layer of second sol-gel composition up to a second temperature strictly higher than the first temperature, such as to obtain the first film comprising nanoparticles containing ruthenium dioxide (RuO_2) dispersed in an inorganic matrix, and the second film deposited on the first film, ruthenium being substantially absent of the second film.

IPC 8 full level

C23C 18/12 (2006.01)

CPC (source: EP)

C23C 18/1212 (2013.01); **C23C 18/1216** (2013.01); **C23C 18/1225** (2013.01); **C23C 18/1254** (2013.01); **C23C 18/1266** (2013.01);
C23C 18/127 (2013.01); **C23C 18/1283** (2013.01)

Citation (search report)

- [XI] US 5840364 A 19981124 - TAKEDA HIROMITSU [JP], et al
- [X] US 5853869 A 19981229 - ADACHI KENJI [JP], et al
- [A] US 2010118409 A1 20100513 - HENZ INKA [DE], et al
- [A] JP H06144874 A 19940524 - ASAHI GLASS CO LTD
- [A] WO 2012127468 A2 20120927 - UNIV BEN GURION [IL], et al

Cited by

CN113372776A; WO2019139160A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2947179 A1 20151125

DOCDB simple family (application)

EP 14305750 A 20140521