

Title (en)

METHOD FOR FABRICATING A LAYER WITH ABSORBING PARTICLES FOR AN ENERGY RADIATION

Title (de)

VERFAHREN ZUM ERZEUGEN EINER SCHICHT MIT ABSORBERPARTIKELN FÜR EINE ENERGIESTRALHUNG

Title (fr)

PROCÉDÉ POUR PRODUIRE UNE COUCHE CONTENANT DES PARTICULES ABSORBANT UN RAYONNEMENT D'ÉNERGIE

Publication

EP 2435599 B1 20130703 (DE)

Application

EP 10723956 A 20100512

Priority

- EP 2010056546 W 20100512
- DE 102009023628 A 20090527

Abstract (en)

[origin: WO2010136338A2] The invention relates to a method for fabricating a ceramic layer (15) on a substrate (11). A coating material containing chemical precursors of a ceramic is used therefor. The precursors are transformed by a heat treatment into the ceramic to be fabricated. The invention provides that different methods for heat insertion be used for the individual layers. This is achieved by absorbing particles (16), which can be utilized in different concentration or different chemical composition. A targeted heat insertion even in lower layer regions, for example, by microwave animation (16), or UV or IR light insertion (18), apart from the classic heat insertion (19), is therefore possible. Beneficially, as a result, comparatively thick layers in particular can be fabricated by a single heat treatment layer.

IPC 8 full level

C23C 18/12 (2006.01); **C23C 18/14** (2006.01)

CPC (source: EP US)

C23C 18/1208 (2013.01 - EP US); **C23C 18/1216** (2013.01 - EP US); **C23C 18/1225** (2013.01 - EP US); **C23C 18/127** (2013.01 - EP US); **C23C 18/14** (2013.01 - EP US)

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 102009023628 A1 20101202; CN 102449191 A 20120509; CN 102449191 B 20130918; EP 2435599 A2 20120404; EP 2435599 B1 20130703; US 2012128872 A1 20120524; US 9200370 B2 20151201; WO 2010136338 A2 20101202; WO 2010136338 A3 20110127

DOCDB simple family (application)

DE 102009023628 A 20090527; CN 201080022695 A 20100512; EP 10723956 A 20100512; EP 2010056546 W 20100512; US 201013322432 A 20100512