

Title (en)
THREE-DIMENSIONAL METAL-COATED NANOSTRUCTURES ON SUBSTRATE SURFACES, METHOD FOR PRODUCING THE SAME AND USE THEREOF

Title (de)
DREIDIMENSIONALE METALLBEDECKTE NANOSTRUKTUREN AUF SUBSTRATOBERFLÄCHEN, VERFAHREN ZU DEREN ERZEUGUNG SOWIE DEREN VERWENDUNG

Title (fr)
NANOSTRUCTURES TRIDIMENSIONNELLES REVÊTUES DE MÉTAL SUR DES SURFACES DE SUBSTRAT, PROCÉDÉ DE FABRICATION DE CES NANOSTRUCTURES ET UTILISATION

Publication
EP 2580155 A1 20130417 (DE)

Application
EP 11724961 A 20110530

Priority
• DE 102010023490 A 20100611
• EP 2011002670 W 20110530

Abstract (en)
[origin: WO2011154105A1] The invention relates to a method for producing column-shaped or conical nanostructures, wherein the substrate surface is covered with an arrangement of metal nanoparticles and etched, the nanoparticles acting as an etching mask and the etching parameters being set such that column structures or cone structures are created below the nanoparticles and the nanoparticles are preserved as a structural coating.

IPC 8 full level
A61B 5/145 (2006.01); **A61B 5/00** (2006.01); **B81C 1/00** (2006.01); **G01N 33/553** (2006.01)

CPC (source: EP US)
A61B 5/14503 (2013.01 - US); **A61B 5/6848** (2013.01 - US); **B81C 1/00031** (2013.01 - EP US); **G01N 33/553** (2013.01 - US); **B81B 2203/0361** (2013.01 - EP US)

Citation (search report)
See references of WO 2011154105A1

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

DOCDB simple family (publication)
WO 2011154105 A1 20111215; DE 102010023490 A1 20111215; EP 2580155 A1 20130417; US 2013236881 A1 20130912

DOCDB simple family (application)
EP 2011002670 W 20110530; DE 102010023490 A 20100611; EP 11724961 A 20110530; US 201113703054 A 20110530