

Title (en)

METHOD FOR DEPOSITING A FUNCTIONAL MATERIAL ON A SUBSTRATE

Title (de)

VERFAHREN ZUR ABSCHIEDUNG EINES FUNKTIONSMATERIALS AUF EIN SUBSTRAT

Title (fr)

PROCÉDÉ PERMETTANT DE DÉPOSER UN MATÉRIAU FONCTIONNEL SUR UN SUBSTRAT

Publication

EP 3429762 A4 20200506 (EN)

Application

EP 16894747 A 20160316

Priority

US 2016022701 W 20160316

Abstract (en)

[origin: WO2017160288A1] A method for depositing a functional material on a substrate is disclosed. An optically transparent plate having a first surface and a second surface with one or more wells is provided. After coating the second surface with a thin layer of light-absorbing material, the wells are filled with a functional material. The plate is then irradiated with a pulsed light to heat the layer of light-absorbing material in order to generate gas at an interface between the layer of light-absorbing material and the functional material to release the functional material from the wells onto a receiving substrate located adjacent to the plate.

IPC 8 full level

B05D 5/06 (2006.01); **B05D 1/00** (2006.01); **C23C 14/04** (2006.01); **C23C 14/28** (2006.01); **H01L 51/00** (2006.01); **H05K 3/20** (2006.01)

CPC (source: EP KR)

C23C 14/048 (2013.01 - EP KR); **C23C 14/28** (2013.01 - EP KR); **H05K 3/207** (2013.01 - EP KR); **B05D 1/286** (2013.01 - EP); **B05D 3/06** (2013.01 - EP); **H05K 3/1275** (2013.01 - EP); **H10K 71/162** (2023.02 - EP); **H10K 71/18** (2023.02 - EP)

Citation (search report)

- [X] WO 2009153792 A2 20091223 - UTILIGHT LTD [IL], et al
- [A] EP 2660352 A1 20131106 - TNO [NL], et al
- See also references of WO 2017160288A1

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 2017160288 A1 20170921; CA 3019902 A1 20170921; CA 3019902 C 20220621; CN 109153037 A 20190104; CN 109153037 B 20220930; EP 3429762 A1 20190123; EP 3429762 A4 20200506; KR 102270021 B1 20210628; KR 20180134902 A 20181219

DOCDB simple family (application)

US 2016022701 W 20160316; CA 3019902 A 20160316; CN 201680085660 A 20160316; EP 16894747 A 20160316; KR 20187029765 A 20160316