

Title (en)

PHOTONIC STRUCTURE HAVING A SURFACE MADE OF REFRACTORY MATERIAL AND MANUFACTURING METHOD THEREOF

Title (de)

PHOTONISCHE STRUKTUR MIT EINER OBERFLÄCHE AUS FEUERFESTEM MATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

STRUCTURE PHOTONIQUE DE SURFACE EN MATERIAU REFRACTAIRE ET SON PROCEDE DE REALISATION

Publication

EP 3099631 A1 20161207 (FR)

Application

EP 15708294 A 20150127

Priority

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- IB 2015050615 W 20150127

Abstract (en)

[origin: WO2015114519A1] The invention relates to a structure having a textured surface for photonic uses, which is capable of operating at high temperatures and which includes a substrate (4) made of a first thermally stable material, and a set (8) of texturing microstructures (10), each microstructure (10) being formed by a carpet (12) of needles (14) extending parallel to one another, made of the first material, arranged on and formed integral with the substrate. The microstructures (10) are distributed on the exposure surface (6) of the substrate (4), in a two-dimensional periodic pattern.

IPC 8 full level

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CPC (source: EP)

F24S 70/10 (2018.04); **F24S 70/20** (2018.04); **F24S 70/60** (2018.04); **Y02E 10/40** (2013.01)

Citation (search report)

See references of WO 2015114519A1

Citation (examination)

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- AHSANULHAQ Q ET AL: "Controlled selective growth of ZnO nanorod arrays and their field emission properties", NANOTECHNOLOGY, IOP, BRISTOL, GB, vol. 18, no. 48, 5 December 2007 (2007-12-05), pages 485307, XP020129546, ISSN: 0957-4484

Designated contracting state (EPC)

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