

Title (en)

METHOD FOR PRODUCING AN ORGANIC LIGHT-EMITTING DIODE DEVICE HAVING A STRUCTURE WITH A TEXTURED SURFACE AND RESULTING OLED HAVING A STRUCTURE WITH A TEXTURED SURFACE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER ORGANISCHEN LEUCHTDIODENANORDNUNG, DIE EINE STRUKTUR MIT EINER TEXTURIERTEN OBERFLÄCHE AUFWEIST, UND RESULTIERENDE OLED, DIE EINE STRUKTUR MIT EINER TEXTURIERTEN OBERFLÄCHE AUFWEIST

Title (fr)

PROCEDE DE FABRICATION D'UN DISPOSITIF A DIODE ELECTROLUMINESCENTE ORGANIQUE AVEC STRUCTURE A SURFACE TEXTUREE ET OLED A STRUCTURE A SURFACE TEXTUREE OBTENUE PAR CE PROCEDE

Publication

**EP 2415099 A2 20120208 (FR)**

Application

**EP 10723195 A 20100402**

Priority

- FR 2010050641 W 20100402
- FR 0952154 A 20090402

Abstract (en)

[origin: WO2010112789A2] The invention relates to a method for producing an organic light-emitting diode device bearing a structure with a textured external surface (20, 30) and comprising a mineral glass substrate (10) forming the base of the organic light-emitting diode device. The method for the production of the structure with the textured external surface comprises the following steps: the vapour deposition on the mineral glass substrate (10) of a first dielectric layer (2) with a thickness of at least 300 nm and at a temperature greater than or equal to 100°C, such as to form protrusions (20); the deposition on the first layer of a second dielectric smoothing layer (3) having a refractive index greater than or equal to that of the first layer (2) and made from an essentially amorphous material, such as to smooth the protrusions sufficiently and form the textured external surface (30); and the deposition directly on the smoothing layer of an electrode in the form of layer(s), such as to form a surface that substantially matches the smoothed external surface (30).

IPC 8 full level

**H01L 51/52** (2006.01)

CPC (source: EP KR US)

**C03C 17/36** (2013.01 - EP US); **C03C 17/3618** (2013.01 - EP KR US); **C03C 17/3644** (2013.01 - EP KR US);  
**C03C 17/3671** (2013.01 - EP KR US); **H10K 50/854** (2023.02 - EP KR US); **C03C 2217/77** (2013.01 - EP KR US);  
**C03C 2218/15** (2013.01 - EP KR US)

Designated contracting state (EPC)

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)

**WO 2010112789 A2 20101007**; **WO 2010112789 A3 20101223**; EP 2415099 A2 20120208; FR 2944148 A1 20101008;  
FR 2944148 B1 20120302; JP 2012523074 A 20120927; KR 20120008044 A 20120125; US 2012112225 A1 20120510

DOCDB simple family (application)

**FR 2010050641 W 20100402**; EP 10723195 A 20100402; FR 0952154 A 20090402; JP 2012502757 A 20100402; KR 20117026130 A 20100402;  
US 201013260987 A 20100402