

Title (en)

METHOD FOR PRODUCING A STRUCTURE WITH A TEXTURED EXTERNAL SURFACE, INTENDED FOR AN ORGANIC LIGHT-EMITTING DIODE DEVICE, AND A STRUCTURE WITH A TEXTURED EXTERNAL SURFACE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER STRUKTUR MIT EINER TEXTURIERTEN ÄUSSEREN OBERFLÄCHE, DIE FÜR EINE ORGANISCHE LEUCHTDIODENANORDNUNG BESTIMMT IST, UND STRUKTUR MIT EINER TEXTURIERTEN EXTERNEN OBERFLÄCHE

Title (fr)

PROCEDE DE FABRICATION D'UNE STRUCTURE A SURFACE EXTERNE TEXTUREE POUR DISPOSITIF A DIODE ELECTROLUMINESCENTE ORGANIQUE ET STRUCTURE A SURFACE EXTERNE TEXTUREE

Publication

EP 2415098 A2 20120208 (FR)

Application

EP 10723194 A 20100402

Priority

- FR 2010050640 W 20100402
- FR 0952148 A 20090402

Abstract (en)

[origin: WO2010112788A2] The invention relates to a method for obtaining a structure with a textured external surface (25, 23, 24) intended for an organic light-emitting device, said structure including a mineral glass substrate (2) having a surface that is provided with protrusions (23') and cavities (24'). According to the method, an etching mask is deposited on the surface (21) of the substrate and the surface of the substrate is etched around the etching mask, followed by the removal of the mask. The invention is characterised in that one of the etching mask preparation steps comprises the formation of a multitude of nodules (60) arranged randomly on the surface of the substrate and formed by a material having no affinity for glass, and in that, following the etching step, the slopes of the protrusions having submicronic heights and widths are smoothed sufficiently to form the thus smoothed textured external surface.

IPC 8 full level

H01L 51/52 (2006.01)

CPC (source: EP KR US)

C03C 17/23 (2013.01 - EP US); **C03C 17/36** (2013.01 - EP US); **C03C 17/3671** (2013.01 - EP KR US); **H10K 50/85** (2023.02 - EP KR); **H10K 50/854** (2023.02 - EP KR US); **C03C 2204/08** (2013.01 - EP KR US); **C03C 2218/31** (2013.01 - EP KR US); **C03C 2218/32** (2013.01 - EP KR US); **C03C 2218/34** (2013.01 - EP KR US); **Y10T 428/24355** (2015.01 - EP US); **Y10T 428/24364** (2015.01 - EP US)

Citation (search report)

See references of WO 2010112788A2

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 2010112788 A2 20101007; **WO 2010112788 A3 20110106**; CN 203013800 U 20130619; EP 2415098 A2 20120208; FR 2944147 A1 20101008; FR 2944147 B1 20110923; JP 2012523073 A 20120927; KR 20120023632 A 20120313; US 2012112224 A1 20120510

DOCDB simple family (application)

FR 2010050640 W 20100402; CN 201090000867 U 20100402; EP 10723194 A 20100402; FR 0952148 A 20090402; JP 2012502756 A 20100402; KR 20117026132 A 20100402; US 201013260981 A 20100402