

Title (en)  
OPTOELECTRONIC DEVICE IN WHICH THE PIXELS CONTAIN LIGHT-EMITTING DIODES THAT EMIT SEVERAL COLORS AND  
MANUFACTURING METHOD

Title (de)  
OPTOELEKTRONISCHE VORRICHTUNG, IN DER DIE PIXEL LEUCHTDIODEN ENTHALTEN, DIE MEHRERE FARBEN EMITTIEREN, UND  
HERSTELLUNGSVERFAHREN

Title (fr)  
DISPOSITIF OPTOÉLECTRONIQUE DONT LES PIXELS CONTIENNENT DES DIODES ÉLECTROLUMINESCENTES ÉMETTANT PLUSIEURS  
COULEURS ET PROCÉDÉ DE FABRICATION

Publication  
**EP 4000092 A1 20220525 (FR)**

Application  
**EP 20747046 A 20200626**

Priority  
• FR 1907920 A 20190715  
• FR 2020051119 W 20200626

Abstract (en)  
[origin: WO2021009426A1] Optoelectronic device (10) comprising a plurality of pixels (11) that each comprise at least one primary sub-pixel (11a) comprising a primary light-emitting diode (111) formed on a support face (110) of a substrate (101) provided with a first primary semiconductive portion (112) that has an overall elongated wire-like shape comprising a top end (112a), a primary lattice parameter accommodation layer (113) arranged on the top end (112) of the first primary semiconductive portion (112), a second primary active semiconductive portion (114) arranged at least on the primary lattice parameter accommodation layer (113), a third primary semiconductive portion (115) arranged on the second primary active semiconductive portion (114), wherein the primary lattice parameter accommodation layer (113) has, with the second primary active semiconductive portion (114), a first difference in primary lattice parameters between 2.12% and 0.93% relative to the second primary active semiconductive portion (114).

IPC 8 full level  
**H01L 27/15** (2006.01); **H01L 33/16** (2010.01); **H01L 33/18** (2010.01); **H01L 33/24** (2010.01)

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Citation (search report)  
See references of WO 2021009426A1

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