

Title (en)

COLOR ORGANIC LIGHT-EMITTING DEVICE STRUCTURE AND METHOD OF FABRICATION

Title (de)

GEFÄRBTE ORGANISCHE ELEKTROLUMINESZIERENDE VORRICHTUNG UND HERSTELLUNGSVERFAHREN

Title (fr)

VISUEL A DIODES ELECTROLUMINESCENTES A COULEURS ORGANIQUES ET PROCEDE DE FABRICATION

Publication

EP 1054747 A1 20001129 (EN)

Application

EP 99969362 A 19990922

Priority

- US 9921936 W 19990922
- US 10142898 P 19980922

Abstract (en)

[origin: WO0016938A1] A color organic light-emitting diode (OLED) display device is disclosed. The OLED display device comprises a silicon substrate (200) with a plurality of integrated OLED drivers (205) arranged in a matrix; a hydrophobic, transparent passivation layer (210); color filter or color changing media (230) patterned on the passivation layer (210); and a glass cover (220) for protecting the OLED drivers (205), passivation layer (210), and color filter or color changing media (230). The passivation layer (210) permits lithographic patterning of the color filter or color changing media (230) using wet processing methods. In an alternate embodiment, a getter layer (240) is formed on the substrate (200) and OLED drivers (205). The passivation layer (210) is then formed on the getter layer (240). A method for fabricating a color OLED display device with a passivation layer (210) and color filter or color changing media (230) is also disclosed.

IPC 1-7

B23B 7/02

IPC 8 full level

H01L 27/32 (2006.01); **H01L 51/52** (2006.01)

CPC (source: EP)

H10K 59/38 (2023.02); **H10K 59/873** (2023.02); **H10K 59/874** (2023.02)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0016938 A1 20000330; EP 1054747 A1 20001129

DOCDB simple family (application)

US 9921936 W 19990922; EP 99969362 A 19990922