

Title (en)  
HIGH RESOLUTION ORGANIC LIGHT-EMITTING DIODE DEVICES

Title (de)  
HOCHAUFLÖSENDE OLED-ELEMENTE

Title (fr)  
DISPOSITIFS À DIODES ÉLECTROLUMINESCENTES ORGANIQUES DE HAUTE RÉOLUTION

Publication  
**EP 2946423 A4 20161130 (EN)**

Application  
**EP 14740323 A 20140115**

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• US 2014011723 W 20140115

Abstract (en)  
[origin: WO2014113497A1] In accordance with an exemplary embodiment of the present disclosure, a method of manufacturing an organic light-emissive display can be provided. A plurality of electrodes can be provided on a substrate. A first hole conducting layer can be deposited via inkjet printing over the plurality of electrodes on the substrate. A liquid affinity property of selected surface portions of the first hole conducting layer can be altered to define emissive layer confinement regions. Each emissive layer confinement region can have a portion that respectively corresponds to each of the plurality of electrodes provided on the substrate. An organic light-emissive layer can be deposited via inkjet printing within each emissive layer confinement region.

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Citation (search report)  
• [XY] WO 2009097377 A1 20090806 - DU PONT [US], et al  
• [XY] WO 2012087977 A1 20120628 - DU PONT [US], et al  
• [Y] US 2011127502 A1 20110602 - KIM WON-YONG [KR]  
• [Y] EP 1708294 A2 20061004 - SEIKO EPSON CORP [JP]  
• [Y] US 2005100657 A1 20050512 - MACPHERSON CHARLES D [US], et al  
• [A] US 2009195144 A1 20090806 - KITABAYASHI ATSUSHI [JP]  
• [A] JP 2010021138 A 20100128 - PANASONIC CORP  
• See also references of WO 2014113497A1

Cited by  
EP3527393A4; EP3499599A4; US11426995B2

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JP 6494525 B2 20190403; JP 6564478 B2 20190821; KR 101926225 B1 20181206; KR 101979181 B1 20190515; KR 102095174 B1 20200330;  
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