

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 87 5076

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2009/251051 A1 (HWANG YOUNG-IN [KR] ET AL) 8 October 2009 (2009-10-08) * figures 3-13 * * paragraphs [0054] - [0081] * -----	1-10	INV. H01L51/52 H01L27/32 H01L51/56
X	US 2010/053043 A1 (SAKAMOTO YOSHIKI [JP]) 4 March 2010 (2010-03-04) * figure 7 * * paragraphs [0064], [0067] - [0071], [0110] - [0113], [0115] * -----	1,5-10	
X	US 2014/312325 A1 (JANG SANG-EOK [KR] ET AL) 23 October 2014 (2014-10-23) * figure 7 * * paragraphs [0030], [0041], [0042], [0055] * -----	1,7,8	
A	EP 2 131 411 A1 (SAMSUNG MOBILE DISPLAY CO LTD [KR]) 9 December 2009 (2009-12-09) * claims * -----	1-10	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			TECHNICAL FIELDS SEARCHED (IPC)
			H01L
Place of search		Date of completion of the search	Examiner
The Hague		21 December 2017	De Laere, Ann
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 15 87 5076

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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21-12-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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专利名称(译)	具有光学谐振层的OLED器件及其制备方法和显示器		
公开(公告)号	EP3242342A4	公开(公告)日	2018-02-07
申请号	EP2015875076	申请日	2015-12-14
[标]申请(专利权)人(译)	北京维信诺科技有限公司 昆山工研院新型平板显示技术中心有限公司		
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IPC分类号	H01L51/52 H01L51/56 H01L27/32		
CPC分类号	H01L27/32 H01L51/5281 H01L51/56 H01L27/3206 H01L27/3213 H01L27/322 H01L27/3258 H01L51/5265 H01L51/5271 H01L27/3223 H01L51/5275		
代理机构(译)	HANNA MOORE + CURLEY		
优先权	201410846639.1 2014-12-31 CN		
其他公开文献	EP3242342A1 EP3242342B1		
外部链接	Espacenet		

摘要(译)

本发明公开了一种具有光学谐振层的OLED器件及其制造方法，以及显示装置。OLED器件包括：白光OLED和滤色膜，以形成R子像素，G子像素，B子像素和W子像素，其中设置光学共振层至少在与白光OLED和滤色膜之间的G子像素对应的区域中。通过提供光学谐振层，即使使用具有低色域的滤色膜，本发明的具有光学谐振层的OLED装置也可以过滤具有良好色度和高效率的单色光，并且特别地，问题是白光低显示质量目前OLED + CF技术已经解决。此外，本发明的OLED器件还大大降低了功耗。而且，不需要使用精细金属掩模（FMM），从而降低了加工成本。



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DOCUMENTS CONSIDERED TO BE RELEVANT			Classification of the prior art document (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 2009/251051 A1 (HWANG YOUNG-IN [KR] ET AL.) 8 October 2009 (2009-10-08) * figures 3-13 * paragraphs [0054], [0081] *	1-10	1. INV. H0115:1/52 H0115:2/32 H0115:1/56
X	US 2010/053043 A1 (SAKAMOTO YOSHIAKI [JP]) 4 March 2010 (2010-03-04) * figure 7 * * paragraph [0064], [0067] - [0071], [0110] - [0113], [0115]	1,5-10	
X	US 2014/312325 A1 (JANG SANG-EOK [KR] ET AL.) 23 October 2014 (2014-10-23) * figure 7 * paragraphs [0030], [0041], [0042], [0055]	1,7-8	
A	EP 2 131 411 A1 (SAMSUNG MOBILE DISPLAY CO LTD [KR]) 9 December 2009 (2009-12-09) * c1:s1ms *	1-10	
The supplementary search report has been based on the list of claims valid at the date of the search.			TECHNICAL FIELD BACKGROUND (IPC)
			SUMMARY

1

The supplementary search report has been based on the list of claims valid at the date of the search.

Date of search

Date of completion of the search

Searcher

The Hague

21 December 2017

De Laere, Ann

CATEGORIES OF DOCUMENTS CONSIDERED

particularly relevant if refers to:
 a) a patent document, but published not as a patent document;
 b) a scientific or technical publication;
 c) a document of the prior art, which is not a patent document, but is a document of the prior art.

a) a patent document, but published not as a patent document;
 b) a scientific or technical publication;
 c) a document of the prior art, which is not a patent document, but is a document of the prior art.