

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 14 88 2154

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	GB 2 437 110 A (CAMBRIDGE DISPLAY TECH [GB]) 17 October 2007 (2007-10-17) * paragraphs [0054] - [0057], [0060] - [0065], [0073] - [0074]; figures 5-8, 14-16 *	1-7,12, 15	INV. H01L51/52 H01L51/56 H01L27/32 C23C14/04
Y	US 2006/290870 A1 (KWAK YOUNGSHIN [KR] ET AL) 28 December 2006 (2006-12-28) * paragraphs [0009] - [0011]; figure 2 *	1,2,6-11	
Y	CN 103 898 441 A (KUNSHAN POWER STENCIL CO LTD) 2 July 2014 (2014-07-02) * figures 5,7,9 *	1,2, 6-11,13, 14	
Y	CN 103 187 432 A (BOE TECHNOLOGY GROUP CO LTD) 3 July 2013 (2013-07-03) * figure 5 *	10,11, 13,14	
A	US 2004/095521 A1 (SONG KEUN-KYU [KR] ET AL) 20 May 2004 (2004-05-20) * figure 12 *	1-15	TECHNICAL FIELDS SEARCHED (IPC)
A	US 2002/015110 A1 (BROWN ELLIOTT CANDICE HELLEN [US]) 7 February 2002 (2002-02-07) * figure 3 *	1-15	H01L
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 5 September 2017	Examiner Fratiloiu, Silvia
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 14 88 2154

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-09-2017

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2437110	A	17-10-2007	CN 101449382 A	03-06-2009
			EP 2011153 A2	07-01-2009
			GB 2437110 A	17-10-2007
			JP 5175837 B2	03-04-2013
			JP 2009533810 A	17-09-2009
			KR 20080111130 A	22-12-2008
			US 2009302331 A1	10-12-2009
			WO 2007128971 A2	15-11-2007

US 2006290870	A1	28-12-2006	CN 1725274 A	25-01-2006
			JP 4942315 B2	30-05-2012
			JP 2006039555 A	09-02-2006
			KR 20060008134 A	26-01-2006
			US 2006290870 A1	28-12-2006

CN 103898441	A	02-07-2014	NONE	

CN 103187432	A	03-07-2013	CN 103187432 A	03-07-2013
			CN 103346271 A	09-10-2013
			US 2015303399 A1	22-10-2015
			WO 2014146364 A1	25-09-2014

US 2004095521	A1	20-05-2004	KR 20040043865 A	27-05-2004
			US RE43574 E	14-08-2012
			US 2004095521 A1	20-05-2004

US 2002015110	A1	07-02-2002	CN 101320150 A	10-12-2008
			EP 2410510 A1	25-01-2012
			EP 2410511 A1	25-01-2012
			JP 4806514 B2	02-11-2011
			JP 5254405 B2	07-08-2013
			JP 2004507773 A	11-03-2004
			JP 2011209754 A	20-10-2011
			KR 20030062310 A	23-07-2003
			KR 20080106593 A	08-12-2008
			US 7274383 B1	25-09-2007
			US 2002015110 A1	07-02-2002
			US 2005248262 A1	10-11-2005

专利名称(译)	OLED显示装置及其制造方法，显示装置和蒸发沉积掩模板		
公开(公告)号	EP3168891A4	公开(公告)日	2017-10-18
申请号	EP2014882154	申请日	2014-10-17
[标]申请(专利权)人(译)	京东方科技集团股份有限公司		
申请(专利权)人(译)	京东方科技集团股份有限公司.		
当前申请(专利权)人(译)	京东方科技集团股份有限公司.		
[标]发明人	MA LIFEI		
发明人	MA, LIFEI		
IPC分类号	H01L51/52 H01L51/56 H01L27/32 C23C14/04		
CPC分类号	H01L27/3218 C23C14/042 C23C14/12 H01L27/3216 H01L27/3244 H01L51/0011 H01L51/0012 H01L51/50 H01L51/56 H01L2227/323		
优先权	201410324701.0 2014-07-09 CN		
其他公开文献	EP3168891A1		
外部链接	Espacenet		

摘要(译)

公开了一种OLED显示装置及其制造方法，显示装置和汽化掩模。显示装置的像素单元（10）中的五个子像素（101）包括至少一个红色，至少一个绿色和至少一个蓝色子像素。五个子像素（101）中的四个分布在四个角并且具有相同的形状和大小，另一个由四个子像素（101）和四个子像素（101）和一个子像素围绕子像素（101）具有不同的颜色。在像素单元（10）的拐角处的任何一个子像素（101）形成规则图案，其中在其他三个相邻像素单元（10）的每一个中的拐角处具有一个子像素，并且在规则图案中，全部子像素具有相同的颜色，每个占据图案的1/4。该显示装置可以降低制造掩模的汽化开口的难度并提高显示分辨率。

 European Patent Office Patent Office 2014-09-09		SUPPLEMENTARY EUROPEAN SEARCH REPORT		Application Number EP 14 88 2154
DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Character of document with indication, where appropriate, of relevant passages	Relevant to:	CLASSIFICATION OF THE APPLICATION (IPC)	
X	GB 2 437 110 A (CAMBRIDGE DISPLAY TECH [GB]) 17 October 2007 (2007-10-17) * paragraphs [0054] - [0057], [0060] - [0063], [0073] - [0074]; figures 5-8, 14-16 *	1-7, 12, 15	INT. H01L51/52 H01L51/56 H01L27/32 C23C14/04	
Y	US 2006/290870 A1 (KWAK YOUNGSHIN [KR] ET AL) 28 December 2006 (2006-12-28) * paragraphs [0009] - [0011]; figure 2 *	1, 2, 6-11		
Y	CN 103 898 441 A (KUNSHAN POWER STENCIL CO LTD) 2 July 2014 (2014-07-02) * figures 5, 7, 9 *	1, 2, 6-11, 13, 14		
Y	CN 103 187 432 A (BOE TECHNOLOGY GROUP CO LTD) 3 July 2013 (2013-07-03) * figure 5 *	10, 11, 13, 14		
A	US 2004/095521 A1 (SONG KEUN-KYU [KR] ET AL) 20 May 2004 (2004-05-20) * figure 12 *	1-15	TECHNICAL FIELD (IPC)	
A	US 2002/015110 A1 (BROOK ELLIOTT CANDICE HELEN [US]) 7 February 2002 (2002-02-07) * figure 3 *	1-15	H01L	
The supplementary search report has been based on the last search office communication.				
1	Place of search	Date of completion of the search	Examiner	
	The Hague	5 September 2017	Frailotiu, Silvia	
CATEGORY OF OTHER DOCUMENTS				
1	Internationally published patent documents	2	Internationally published patent documents with priority	
2	Documents of the same category	3	Documents of the same category	
3	Documents of the same category	4	Documents of the same category	
4	Documents of the same category	5	Documents of the same category	
5	Documents of the same category	6	Documents of the same category	
6	Documents of the same category	7	Documents of the same category	
7	Documents of the same category	8	Documents of the same category	
8	Documents of the same category	9	Documents of the same category	
9	Documents of the same category	10	Documents of the same category	
10	Documents of the same category	11	Documents of the same category	
11	Documents of the same category	12	Documents of the same category	
12	Documents of the same category	13	Documents of the same category	
13	Documents of the same category	14	Documents of the same category	
14	Documents of the same category	15	Documents of the same category	
15	Documents of the same category	16	Documents of the same category	
16	Documents of the same category	17	Documents of the same category	
17	Documents of the same category	18	Documents of the same category	
18	Documents of the same category	19	Documents of the same category	
19	Documents of the same category	20	Documents of the same category	
20	Documents of the same category	21	Documents of the same category	
21	Documents of the same category	22	Documents of the same category	
22	Documents of the same category	23	Documents of the same category	
23	Documents of the same category	24	Documents of the same category	
24	Documents of the same category	25	Documents of the same category	
25	Documents of the same category	26	Documents of the same category	
26	Documents of the same category	27	Documents of the same category	
27	Documents of the same category	28	Documents of the same category	
28	Documents of the same category	29	Documents of the same category	
29	Documents of the same category	30	Documents of the same category	
30	Documents of the same category	31	Documents of the same category	
31	Documents of the same category	32	Documents of the same category	
32	Documents of the same category	33	Documents of the same category	
33	Documents of the same category	34	Documents of the same category	
34	Documents of the same category	35	Documents of the same category	
35	Documents of the same category	36	Documents of the same category	
36	Documents of the same category	37	Documents of the same category	
37	Documents of the same category	38	Documents of the same category	
38	Documents of the same category	39	Documents of the same category	
39	Documents of the same category	40	Documents of the same category	
40	Documents of the same category	41	Documents of the same category	
41	Documents of the same category	42	Documents of the same category	
42	Documents of the same category	43	Documents of the same category	
43	Documents of the same category	44	Documents of the same category	
44	Documents of the same category	45	Documents of the same category	
45	Documents of the same category	46	Documents of the same category	
46	Documents of the same category	47	Documents of the same category	
47	Documents of the same category	48	Documents of the same category	
48	Documents of the same category	49	Documents of the same category	
49	Documents of the same category	50	Documents of the same category	
50	Documents of the same category	51	Documents of the same category	
51	Documents of the same category	52	Documents of the same category	
52	Documents of the same category	53	Documents of the same category	
53	Documents of the same category	54	Documents of the same category	
54	Documents of the same category	55	Documents of the same category	
55	Documents of the same category	56	Documents of the same category	
56	Documents of the same category	57	Documents of the same category	
57	Documents of the same category	58	Documents of the same category	
58	Documents of the same category	59	Documents of the same category	
59	Documents of the same category	60	Documents of the same category	
60	Documents of the same category	61	Documents of the same category	
61	Documents of the same category	62	Documents of the same category	
62	Documents of the same category	63	Documents of the same category	
63	Documents of the same category	64	Documents of the same category	
64	Documents of the same category	65	Documents of the same category	
65	Documents of the same category	66	Documents of the same category	
66	Documents of the same category	67	Documents of the same category	
67	Documents of the same category	68	Documents of the same category	
68	Documents of the same category	69	Documents of the same category	
69	Documents of the same category	70	Documents of the same category	
70	Documents of the same category	71	Documents of the same category	
71	Documents of the same category	72	Documents of the same category	
72	Documents of the same category	73	Documents of the same category	
73	Documents of the same category	74	Documents of the same category	
74	Documents of the same category	75	Documents of the same category	
75	Documents of the same category	76	Documents of the same category	
76	Documents of the same category	77	Documents of the same category	
77	Documents of the same category	78	Documents of the same category	
78	Documents of the same category	79	Documents of the same category	
79	Documents of the same category	80	Documents of the same category	
80	Documents of the same category	81	Documents of the same category	
81	Documents of the same category	82	Documents of the same category	
82	Documents of the same category	83	Documents of the same category	
83	Documents of the same category	84	Documents of the same category	
84	Documents of the same category	85	Documents of the same category	
85	Documents of the same category	86	Documents of the same category	
86	Documents of the same category	87	Documents of the same category	
87	Documents of the same category	88	Documents of the same category	
88	Documents of the same category	89	Documents of the same category	
89	Documents of the same category	90	Documents of the same category	
90	Documents of the same category	91	Documents of the same category	
91	Documents of the same category	92	Documents of the same category	
92	Documents of the same category	93	Documents of the same category	
93	Documents of the same category	94	Documents of the same category	
94	Documents of the same category	95	Documents of the same category	
95	Documents of the same category	96	Documents of the same category	
96	Documents of the same category	97	Documents of the same category	
97	Documents of the same category	98	Documents of the same category	
98	Documents of the same category	99	Documents of the same category	
99	Documents of the same category	100	Documents of the same category	