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(54) **Display and electronic unit**

(57) A display (1A) includes: a first region (3B) including first pixels (5b) configured to have a single color; a second region (3A) including second pixels (5R, 5G) configured to have a plurality of colors different from the

single color, the second pixels (5R, 5G) having an organic layer including a common light emitting layer; and a dividing wall (4) separating the first region (3B) from the second region (3A).

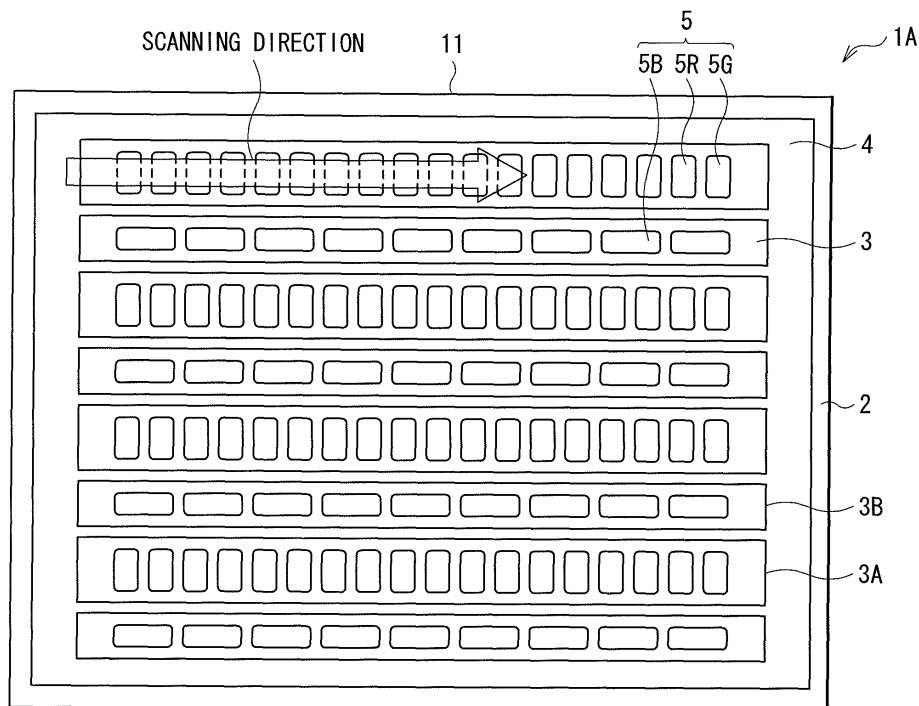


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 12 18 2172

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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 2008/218071 A1 (KOBAYASHI HIDEKAZU [JP]) 11 September 2008 (2008-09-11)	1,2,5-7, 14	INV. H01L27/32
Y	* paragraphs [0054] - [0070]; figures 3,21b *	3,4	

X	US 2006/108592 A1 (NISHIMURA KAZUKI [JP] ET AL) 25 May 2006 (2006-05-25)	1,2,5-7, 14	
Y	* paragraphs [0198] - [0209]; figure 7 *	8-13	

X	US 2009/322215 A1 (SUNG UN-CHEOL [KR] ET AL) 31 December 2009 (2009-12-31)	1,5-7,14	
	* paragraphs [0040] - [0081]; figures 3-8,10 *		

Y	WO 2009/079327 A1 (DU PONT [US]; TSAI YAW-MING A [US]; PARKER IAN D [US]; MEINEL INES [US] 25 June 2009 (2009-06-25)	8-13	
	* page 10, line 14 - page 13, line 6; figure 3b *		
	* page 14, line 7 - line 28 *		
	* page 19, line 26 - page 21, line 24 *		

Y	US 2004/041753 A1 (NAKANISHI HAYATO [JP]) 4 March 2004 (2004-03-04)	3,4	
	* paragraphs [0074], [0075]; figure 5 *		

The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 September 2017	Examiner Bakos, Tamás
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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008218071 A1	11-09-2008	CN 101262725 A	10-09-2008
		JP 4529988 B2	25-08-2010
		JP 2008218365 A	18-09-2008
		KR 20080082454 A	11-09-2008
		US 2008218071 A1	11-09-2008
US 2006108592 A1	25-05-2006	KR 20060052335 A	19-05-2006
		TW I294255 B	01-03-2008
		US 2006108592 A1	25-05-2006
US 2009322215 A1	31-12-2009	KR 20100001598 A	06-01-2010
		US 2009322215 A1	31-12-2009
		US 2012295508 A1	22-11-2012
		US 2016197123 A1	07-07-2016
WO 2009079327 A1	25-06-2009	EP 2225776 A1	08-09-2010
		JP 2011509498 A	24-03-2011
		KR 20100105673 A	29-09-2010
		TW 200947700 A	16-11-2009
		US 2010258804 A1	14-10-2010
		WO 2009079327 A1	25-06-2009
US 2004041753 A1	04-03-2004	CN 1527266 A	08-09-2004
		JP 4001066 B2	31-10-2007
		JP 2004102245 A	02-04-2004
		KR 20040010233 A	31-01-2004
		KR 20050105111 A	03-11-2005
		TW 594636 B	21-06-2004
		US 2004041753 A1	04-03-2004
		US 2007187692 A1	16-08-2007
		US 2009001884 A1	01-01-2009
		US 2010207925 A1	19-08-2010

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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当前申请(专利权)人(译)	JOLED INC.		
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优先权	2011196738 2011-09-09 JP		
其他公开文献	EP2568505A2		
外部链接	Espacenet		

摘要(译)

显示器 (1A) 包括：第一区域 (3B)，包括被配置为具有单色的第一像素 (5b)；第二区域 (3A)，包括第二像素 (5R，5G)，其被配置为具有与单色不同的多种颜色；第二像素 (5R，5G)，其具有包括共用发光层的有机层；分隔壁 (4) 将第一区域 (3B) 与第二区域 (3A) 分开。

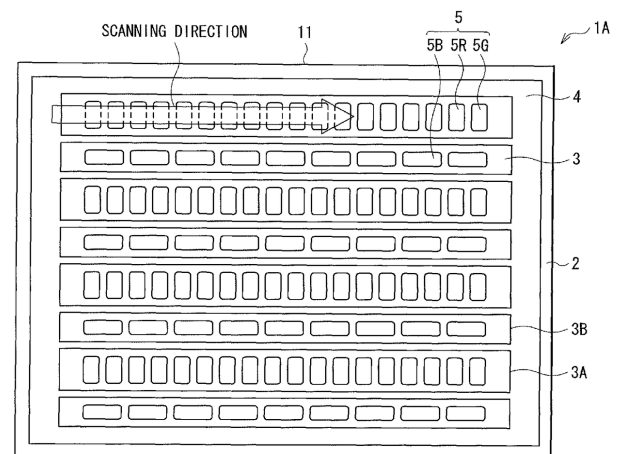


FIG. 1