



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
26.01.2011 Bulletin 2011/04

(51) Int Cl.:
H01L 27/32 (2006.01) H01L 51/52 (2006.01)

(43) Date of publication A2:
01.08.2007 Bulletin 2007/31

(21) Application number: **07250312.1**

(22) Date of filing: **25.01.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

(30) Priority: **25.01.2006 KR 20060007964**

(71) Applicant: **Samsung Mobile Display Co., Ltd.**
Suwon-si
Gyeonggi-do (KR)

(72) Inventors:
• **Choi, Dong-Soo,**
Samsung SDI Co., Ltd.
Suwon-si
Gyeonggi-do (KR)
• **Park, Jin-Woo,**
Samsung SDI Co., Ltd.
Suwon-si
Gyeonggi-do (KR)

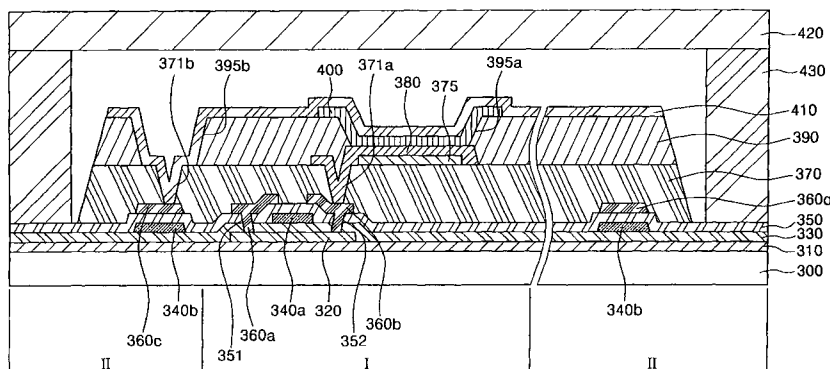
(74) Representative: **Mouteney, Simon James**
Marks & Clerk LLP
90 Long Acre
London
WC2E 9RA (GB)

(54) **Organic light emitting display and method of fabricating the same**

(57) An organic light emitting device according to one embodiment of the present invention comprises a first substrate (300) defining a pixel region (I) and a non-pixel region (II); an array of organic light emitting pixels formed in the pixel region of the first substrate; a second substrate (420) placed over the first substrate, the array being interposed between the first and second substrates; a frit seal (430) interposed between and interconnecting the first and second substrates, wherein the frit seal com-

prises a plurality of elongated segments, which in combination surrounds the array; and at least one conductive line (360c) formed in the non-pixel region and elongated substantially parallel to one of the plurality of elongated segments of the frit seal, wherein no conductive line in the non-pixel region is elongated substantially parallel to one of the elongated segments and overlaps the elongated segment substantially parallel thereto when viewed from the first or second substrate.

FIG. 5





EUROPEAN SEARCH REPORT

Application Number
EP 07 25 0312

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	EP 1 575 090 A2 (SAMSUNG SDI CO LTD [KR]) 14 September 2005 (2005-09-14) * figures 4A, 4B * * paragraphs [0016], [0036] - [0043], [0050], [0063] *	1-21	INV. H01L27/32 H01L51/52
Y	US 2004/207314 A1 (AITKEN BRUCE G [US] ET AL AITKEN BRUCE G [US] ET AL) 21 October 2004 (2004-10-21) * tables 1-4 * * paragraphs [0011], [0012], [0031], [0088], [0092] *	1-21	
Y	US 2005/248270 A1 (GHOSH AMALKUMAR P [US] ET AL) 10 November 2005 (2005-11-10) * paragraphs [0010], [0056], [0057], [0072], [0073], [0077], [0079] *	1-21	
Y	JP 10 074583 A (SANYO ELECTRIC CO) 17 March 1998 (1998-03-17) * abstract *	1-9, 11-21	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 December 2010	Examiner 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			

 1
EPO FORM 1503 03.02 (P04C01)

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

EP 07 25 0312

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.

20-12-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1575090	A2	14-09-2005	CN 1668152 A	14-09-2005
			JP 3940738 B2	04-07-2007
			JP 2005258395 A	22-09-2005
			KR 20050090586 A	14-09-2005
			US 2005200270 A1	15-09-2005

US 2004207314	A1	21-10-2004	CA 2522425 A1	04-11-2004
			CN 1798710 A	05-07-2006
			CN 101312234 A	26-11-2008
			EP 1620369 A2	01-02-2006
			JP 4540669 B2	08-09-2010
			JP 2006524419 T	26-10-2006
			KR 20060005369 A	17-01-2006
			US 2006009109 A1	12-01-2006
			US 2005001545 A1	06-01-2005
			WO 2004095597 A2	04-11-2004

US 2005248270	A1	10-11-2005	WO 2005119803 A2	15-12-2005

JP 10074583	A	17-03-1998	NONE	

专利名称(译)	有机发光显示器及其制造方法		
公开(公告)号	EP1814161A3	公开(公告)日	2011-01-26
申请号	EP2007250312	申请日	2007-01-25
[标]申请(专利权)人(译)	三星斯笛爱股份有限公司		
申请(专利权)人(译)	三星SDI CO. , LTD.		
当前申请(专利权)人(译)	三星移动显示器有限公司.		
[标]发明人	CHOI DONG SOO SAMSUNG SDI CO LTD PARK JIN WOO SAMSUNG SDI CO LTD		
发明人	CHOI, DONG-SOO, SAMSUNG SDI CO., LTD. PARK, JIN-WOO, SAMSUNG SDI CO., LTD.		
IPC分类号	H01L27/32 H01L51/52 G09F9/00 G09F9/30 H01L51/50 H05B33/04 H05B33/10		
CPC分类号	H01L27/3276 H01L51/5246 B60Y2400/306 G01S19/13 G08G1/0968		
优先权	1020060007964 2006-01-25 KR		
其他公开文献	EP1814161A2		
外部链接	Espacenet		

摘要(译)

根据本发明的一个实施方案的有机发光器件包括限定像素区域 (I) 和非像素区域 (II) 的第一基板 (300) ;形成在第一基板的像素区域中的有机发光像素阵列;放置在第一基板上的第二基板 (420) , 该阵列插入在第一和第二基板之间;玻璃料密封件 (430) 置于第一和第二基板之间并使第一和第二基板互连, 其中玻璃料密封件包括多个细长段, 它们组合地围绕阵列;至少一条导线 (360c) 形成在非像素区域中并且基本上平行于玻璃料密封的多个细长段之一伸长, 其中非像素区域中的导线基本上不平行于其中一个当从第一或第二基板观察时, 细长段和与其基本平行的细长段重叠。

FIG. 5

