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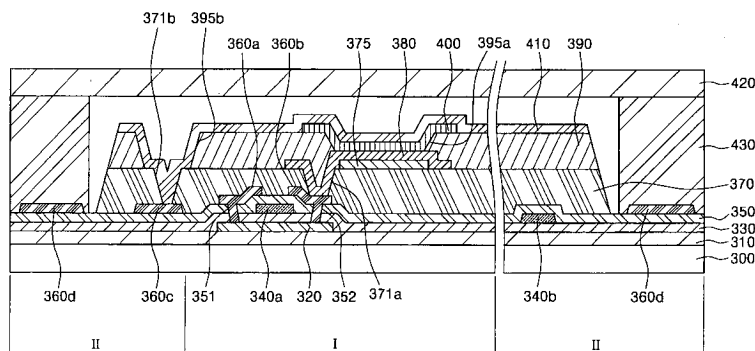
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(54) **Organic light emitting display and method of fabricating the same**

(57) Disclosed are an organic light emitting display and a method of fabricating the same that are capable of preventing deterioration of adhesive strength of a glass frit for sealing a substrate. An organic light emitting device according to one embodiment of the present invention comprises a first substrate (300) comprising a pixel region (I) and a non-pixel region (II); an array of organic light emitting pixels formed over 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; an electrically conductive line (360d) formed over the non-pixel region of the first substrate; and a frit seal (430) interposed between the first and second substrates and surrounding the array such that the array is encapsulated by the first substrate, the second substrate and the frit seal, wherein the electrically conductive line comprises a portion overlapping the frit seal in a segment of the device such that the portion of the electrically conductive line substantially eclipses the frit seal when viewed from the first substrate.

FIG. 5





EUROPEAN SEARCH REPORT

Application Number
EP 07 25 0267

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	US 2005/195355 A1 (KWAK WON-KYU [KR] ET AL) 8 September 2005 (2005-09-08) * paragraphs [0029], [0030], [0032], [0039], [0041] - [0042], [0054], [0059] - [0060], [0066] - [0068], [0074]; figures 2,3 *	1-33	INV. H01L27/32 H01L51/52
Y	EP 1 575 090 A2 (SAMSUNG SDI CO LTD [KR]) 14 September 2005 (2005-09-14) * figures 2-5 * * paragraphs [0016], [0036] *	1,17,21	
Y	JP 10 074583 A (SANYO ELECTRIC CO) 17 March 1998 (1998-03-17) * abstract * * paragraph [0013] *	1-15, 17-33	
Y	US 2004/207314 A1 (AITKEN BRUCE G [US] ET AL AITKEN BRUCE G [US] ET AL) 21 October 2004 (2004-10-21) * paragraphs [0011], [0012], [0031], [0048], [0052], [0088], [0092]; tables 1-4 *	1-33	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 23 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	

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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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23-12-2010

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2005195355	A1	08-09-2005	CN 1670570 A	21-09-2005
			JP 3999783 B2	31-10-2007
			JP 2005258405 A	22-09-2005
			KR 20050090259 A	13-09-2005

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

JP 10074583	A	17-03-1998	NONE	

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

专利名称(译)	有机发光显示器及其制造方法		
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[标]申请(专利权)人(译)	三星斯笛爱股份有限公司		
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其他公开文献	EP1811570A2		
外部链接	Espacenet		

摘要(译)

公开了一种有机发光显示器及其制造方法，其能够防止用于密封基板的玻璃料的粘合强度的劣化。根据本发明一个实施方案的有机发光器件包括第一基板（300），其包括像素区域（I）和非像素区域（II）；在第一基板的像素区域上形成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；导电线（360d）形成在第一基板的非像素区域上方；以及插入在第一和第二基板之间并围绕阵列的玻璃料密封件（430），使得阵列由第一基板，第二基板和玻璃料密封件封装，其中导电线包括与玻璃料密封件重叠的部分。该装置的一部分使得当从第一基板观察时，导电线的该部分基本上遮盖玻璃料密封。

FIG. 5

