



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
06.07.2005 Bulletin 2005/27

(51) Int Cl.7: **H01L 51/20**

(43) Date of publication A2:
18.05.2005 Bulletin 2005/20

(21) Application number: **04090446.8**

(22) Date of filing: **17.11.2004**

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

(72) Inventors:
 • **Lee, Ho-Seok**
Suwon-si Gyeonggi-do (KE)
 • **Choe, Won-Kyu**
Suwon-si Gyeonggi-do (KR)

(30) Priority: **17.11.2003 KR 2003081209**

(74) Representative: **Hengelhaupt, Jürgen, Dipl.-Ing.**
Anwaltskanzlei
Gulde Hengelhaupt Ziebig & Schneider
Wallstrasse 58/59
10179 Berlin (DE)

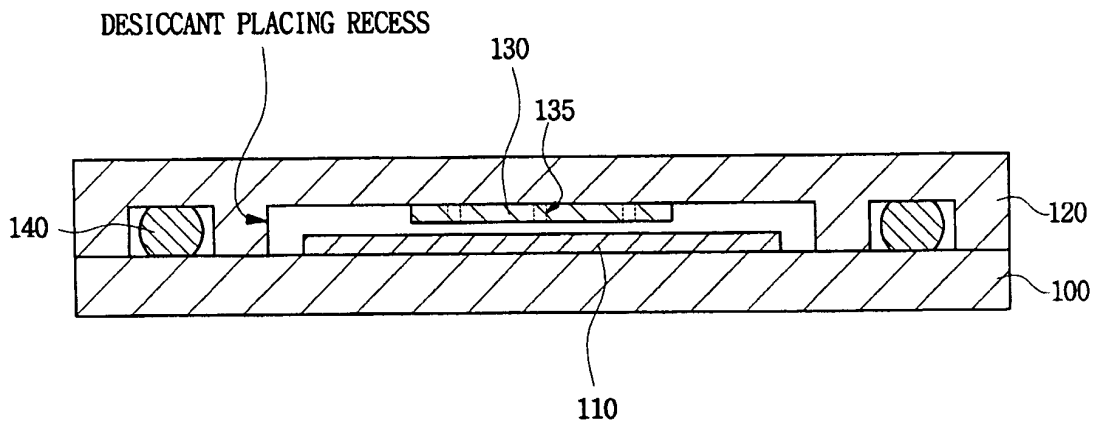
(71) Applicant: **Samsung SDI Co., Ltd.**
Suwon-si Gyeonggi-do (KR)

(54) **Organic electroluminescent display**

(57) In particular, one embodiment of the present invention provides an organic electro luminescence display which comprises a light emitting device formed on a lower insulating substrate, and an upper substrate

mounted to encapsulate the light emitting device, wherein the upper substrate is provided with a desiccant, the desiccant being formed with at least one hole passing through the desiccant.

FIG. 1





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	TW 558 913 B (RITDISPLAY CORPORATION) 21 October 2003 (2003-10-21)	1,3-7	H01L51/20
Y		2,12-15	
P,X	-& US 2004/092197 A1 (WEI MAO-KUO ET AL) 13 May 2004 (2004-05-13) * paragraphs [0015], [0037], [0038]; figure 4 *	1,3-7	
Y	----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19, 5 June 2001 (2001-06-05) & JP 2001 035659 A (NEC CORP), 9 February 2001 (2001-02-09) * abstract; figure 1 *	2,13-15	
P,Y	-& US 6 737 176 B1 (OTSUKI SHIGEYOSHI ET AL) 18 May 2004 (2004-05-18) * column 4, lines 8-41 - column 5, lines 1-14 *	2,13-15	
Y	----- CN 1 450 838 A (SANYO ELECTRIC CO., LTD) 22 October 2003 (2003-10-22) * abstract *	12	
P,Y	-& US 2003/230978 A1 (HISHIDA MITSUOKI) 18 December 2003 (2003-12-18) * paragraph [0044]; figure 5 *	12	
X	----- US 2003/203551 A1 (COK RONALD S ET AL) 30 October 2003 (2003-10-30) * paragraphs [0029], [0032]; figures 3,4 *	1,4,13	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H01L H05B
X	----- PATENT ABSTRACTS OF JAPAN vol. 2003, no. 09, 3 September 2003 (2003-09-03) & JP 2003 157969 A (HITACHI LTD), 30 May 2003 (2003-05-30) * abstract *	1,2,4,5	
----- -/--			
3 The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 May 2005	Examiner Faou, M
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	

EPC FORM 1503 03 82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 1 139 698 A (NITTO DENKO CORPORATION) 4 October 2001 (2001-10-04) * paragraphs [0023], [0036]; figures 5,6 * -----	1,2,4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 May 2005	Examiner Faou, M
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	

3
EPO FORM 1503 03-82 (F04C01)

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

EP 04 09 0446

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.

13-05-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
TW 558913	B	21-10-2003	US 2004092197 A1	13-05-2004
US 2004092197	A1	13-05-2004	TW 558913 B	21-10-2003
JP 2001035659	A	09-02-2001	US 6737176 B1	18-05-2004
			US 2004263075 A1	30-12-2004
US 6737176	B1	18-05-2004	JP 2001035659 A	09-02-2001
			US 2004263075 A1	30-12-2004
CN 1450838	A	22-10-2003	JP 2004006286 A	08-01-2004
			TW 584822 B	21-04-2004
			US 2003230978 A1	18-12-2003
US 2003230978	A1	18-12-2003	CN 1450838 A	22-10-2003
			JP 2004006286 A	08-01-2004
			TW 584822 B	21-04-2004
US 2003203551	A1	30-10-2003	US 2003190763 A1	09-10-2003
			EP 1351323 A2	08-10-2003
			JP 2003297559 A	17-10-2003
JP 2003157969	A	30-05-2003	NONE	
EP 1139698	A	04-10-2001	JP 2001345173 A	14-12-2001
			CN 1316870 A	10-10-2001
			EP 1139698 A2	04-10-2001
			US 2001028218 A1	11-10-2001

专利名称(译)	有机电致发光显示器		
公开(公告)号	EP1531504A3	公开(公告)日	2005-07-06
申请号	EP2004090446	申请日	2004-11-17
[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	LEE HO SEOK CHOE WON KYU		
发明人	LEE, HO-SEOK CHOE, WON-KYU		
IPC分类号	H05B33/04 B01D53/26 B01J20/16 H01L51/50 H01L51/52 H01L51/20		
CPC分类号	H01L51/5259 H01L51/524		
优先权	1020030081209 2003-11-17 KR		
其他公开文献	EP1531504B1 EP1531504A2		
外部链接	Espacenet		

摘要(译)

特别地，本发明的一个实施例提供了一种有机电致发光显示器，其包括形成在下绝缘基板上的发光器件，以及安装以封装发光器件的上基板，其中上基板设置有干燥剂，干燥剂形成有至少一个穿过干燥剂的孔。

