

(19)



(11)

EP 2 626 904 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
02.11.2016 Bulletin 2016/44

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

(43) Date of publication A2:
14.08.2013 Bulletin 2013/33

(21) Application number: **13154642.6**

(22) Date of filing: **08.02.2013**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(72) Inventors:
• **An, Chi-Wook**
Gyeonggi-Do (KR)
• **Tae, Seung-Gyu**
Gyeonggi-Do (KR)
• **Lee, Seung-Kyu**
Gyeonggi-Do (KR)

(30) Priority: **10.02.2012 KR 20120013837**

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

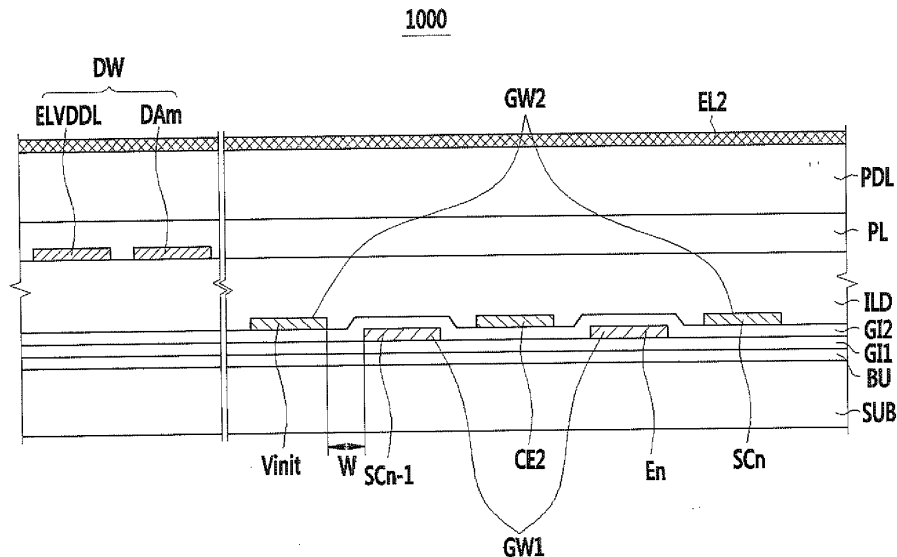
(74) Representative: **Mounteney, Simon James**
Marks & Clerk LLP
90 Long Acre
London
WC2E 9RA (GB)

(54) **Organic light emitting diode display**

(57) An organic light emitting diode display includes: first gate wires provided on a substrate with a first insulation layer therebetween and extended in a first direction; second gate wires provided on a second insulation layer above the first insulation layer and extended in the first direction; data wires provided on a third insulation

layer above the second insulation layer and extended in a second direction crossing the first direction; a pixel circuit connected to the first gate wires, the second gate wires, and the data wires; and an organic light emitting diode connected to the pixel circuit.

FIG.2



EP 2 626 904 A3



EUROPEAN SEARCH REPORT

Application Number
EP 13 15 4642

5

10

15

20

25

30

35

40

45

50

55

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 2 275 861 A1 (SHARP KK [JP]) 19 January 2011 (2011-01-19) * paragraph [0034] - paragraph [0073]; figures 1-2 *	1-19	INV. H01L27/32
Y	KR 2011 0036456 A (LG DISPLAY CO LTD [KR]) 7 April 2011 (2011-04-07) * paragraph [0027] - paragraph [0054]; figures 3-4 *	1-19	
Y	US 2011/025659 A1 (KWAK WON-KYU [KR] ET AL) 3 February 2011 (2011-02-03) * paragraph [0073]; figure 4 *	1,2	
Y	EP 2 091 039 A2 (SAMSUNG MOBILE DISPLAY CO LTD [KR]) 19 August 2009 (2009-08-19) * paragraph [0022] - paragraph [0049]; figures 1-2 *	3-19	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01L G02F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 September 2016	Examiner Bernabé Prieto, A
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03/02 (P04/C01)

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

EP 13 15 4642

5 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.

23-09-2016

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2275861 A1	19-01-2011	BR PI0912347 A2	13-10-2015
		CN 101999095 A	30-03-2011
		EP 2275861 A1	19-01-2011
		JP 5036865 B2	26-09-2012
		JP 5379271 B2	25-12-2013
		JP 2012212168 A	01-11-2012
		US 2011018142 A1	27-01-2011
		WO 2009139290 A1	19-11-2009

KR 20110036456 A	07-04-2011	NONE	

US 2011025659 A1	03-02-2011	KR 20110011942 A	09-02-2011
		US 2011025659 A1	03-02-2011

EP 2091039 A2	19-08-2009	CN 101510554 A	19-08-2009
		EP 2091039 A2	19-08-2009
		EP 2194522 A2	09-06-2010
		JP 5038202 B2	03-10-2012
		JP 2009194350 A	27-08-2009
		KR 20090087653 A	18-08-2009
		US 2009201228 A1	13-08-2009

专利名称(译)	有机发光二极管显示器		
公开(公告)号	EP2626904A3	公开(公告)日	2016-11-02
申请号	EP2013154642	申请日	2013-02-08
[标]申请(专利权)人(译)	三星显示有限公司		
申请(专利权)人(译)	三星DISPLAY CO. , LTD.		
当前申请(专利权)人(译)	三星DISPLAY CO. , LTD.		
[标]发明人	AN CHI WOOK TAE SEUNG GYU LEE SEUNG KYU		
发明人	AN, CHI-WOOK TAE, SEUNG-GYU LEE, SEUNG-KYU		
IPC分类号	H01L27/32		
CPC分类号	H01L27/3276		
优先权	1020120013837 2012-02-10 KR		
其他公开文献	EP2626904A2		
外部链接	Espacenet		

摘要(译)

有机发光二极管显示器包括：第一栅极配线，设置在基板上，并且在第一方向上延伸有第一绝缘层；第二栅极配线，设置在所述第一绝缘层上的第二绝缘层上并且在所述第一方向上延伸；数据布线，设置在所述第二绝缘层上的第三绝缘层上，并沿与所述第一方向交叉的第二方向延伸；连接到所述第一栅极配线，所述第二栅极配线和所述数据配线的像素电路；以及连接到像素电路的有机发光二极管。

FIG.2

