

(19)



(11)

EP 2 889 913 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.10.2015 Bulletin 2015/41

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

(43) Date of publication A2:
01.07.2015 Bulletin 2015/27

(21) Application number: **14195329.9**

(22) Date of filing: **28.11.2014**

(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:
• **Lee, Seon Mi**
465-716 Hanam-si, Gyeonggi-do (KR)
• **Nam, Woo Jin**
411-320 Goyang-si, Gyeonggi (KR)

(30) Priority: **30.12.2013 KR 20130166795**

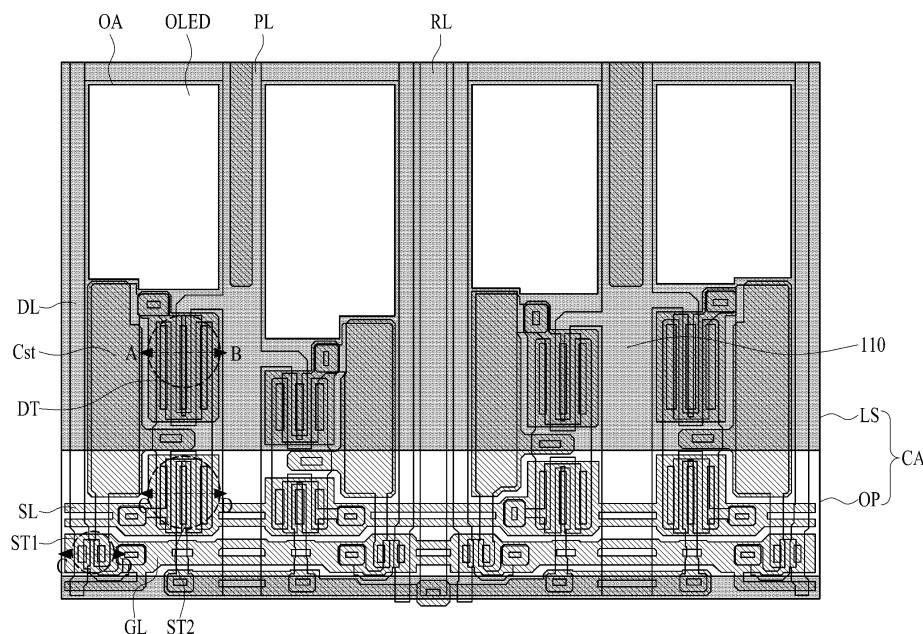
(74) Representative: **Viering, Jentschura & Partner**
Patent- und Rechtsanwälte
Am Brauhaus 8
01099 Dresden (DE)

(71) Applicant: **LG Display Co., Ltd.**
Seoul 150-721 (KR)

(54) Organic light emitting display device

(57) An organic light emitting display device including an emission unit (OA) and a pixel circuit unit (CA). The emission unit (OA) includes an organic light emitting diode (OLED). The pixel circuit unit (CA) includes a driving transistor (DT), at least one or more switching transistors (ST1, ST2), a capacitor (Cst), a light blocking unit (LS),

and an opening (OP) in which a light blocking layer (110) is not formed. The light blocking unit (LS) includes the light blocking layer (110) which blocks light input to the pixel circuit unit (CA). The pixel circuit unit (CA) is configured to drive the emission unit and selectively block the light input to the pixel circuit unit (CA).

FIG. 2**EP 2 889 913 A3**



EUROPEAN SEARCH REPORT

Application Number
EP 14 19 5329

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)
X	US 2009/243482 A1 (TOHYAMA TADAHISA [JP] ET AL) 1 October 2009 (2009-10-01) * paragraphs [0060], [0080] *	1-3,7-10	INV. H01L27/32
X	US 2009/135111 A1 (YAMAMOTO TETSURO [JP] ET AL) 28 May 2009 (2009-05-28) * paragraphs [0026], [0041] - [0047], [0286] - [0291] *	1,7-10	
A	WO 2009/110623 A1 (CANON KK [JP]; OFUJI MASATO [JP]; ABE KATSUMI [JP]; SHIMIZU HISAE [JP]) 11 September 2009 (2009-09-11) * page 3, line 4 - page 23, line 12 *	1-10	
			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 27 August 2015	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 03.82 (P04C01)

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

EP 14 19 5329

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.

27-08-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009243482 A1	01-10-2009	JP 2009244370 A	22-10-2009
		US 2009243482 A1	01-10-2009

US 2009135111 A1	28-05-2009	JP 2009133914 A	18-06-2009
		US 2009135111 A1	28-05-2009

WO 2009110623 A1	11-09-2009	CN 101960571 A	26-01-2011
		EP 2248160 A1	10-11-2010
		JP 5305696 B2	02-10-2013
		JP 2009212443 A	17-09-2009
		KR 20100120312 A	15-11-2010
		TW 200950120 A	01-12-2009
		US 2011092016 A1	21-04-2011
		WO 2009110623 A1	11-09-2009

专利名称(译)	有机发光显示装置		
公开(公告)号	EP2889913A3	公开(公告)日	2015-10-07
申请号	EP2014195329	申请日	2014-11-28
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG DISPLAY CO. , LTD.		
当前申请(专利权)人(译)	LG DISPLAY CO. , LTD.		
[标]发明人	LEE SEON MI NAM WOO JIN		
发明人	LEE, SEON MI NAM, WOO JIN		
IPC分类号	H01L27/32		
CPC分类号	H01L27/3213 H01L27/3272 G09G3/2003 G09G3/3208 G09G2300/0452 G09G2300/0842 G09G2300/0871 G09G2310/0289 G09G2320/0233 G09G2320/043		
优先权	1020130166795 2013-12-30 KR		
其他公开文献	EP2889913A2 EP2889913B1		
外部链接	Espacenet		

摘要(译)

一种有机发光显示装置，包括发光单元（OA）和像素电路单元（CA）。发光单元（OA）包括有机发光二极管（OLED）。像素电路单元（CA）包括驱动晶体管（DT），至少一个或多个开关晶体管（ST1，ST2），电容器（Cst），光阻挡单元（LS）和开口（OP），其中没有形成光阻挡层（110）。光阻挡单元（LS）包括阻挡光输入到像素电路单元（CA）的光阻挡层（110）。像素电路单元（CA）被配置为驱动发光单元并选择性地阻挡输入到像素电路单元（CA）的光。

FIG. 2

