



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **19.08.2009 Bulletin 2009/34** (51) Int Cl.: **G09G 3/32<sup>(2006.01)</sup>**

(43) Date of publication A2: **08.10.2008 Bulletin 2008/41**

(21) Application number: **08251322.7**

(22) Date of filing: **04.04.2008**

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

(72) Inventors:  
 • **Lee, Duk-Jin**  
**Yongin-si, Gyeonggi-do (KR)**  
 • **Lee, Jeong-No**  
**Yongin-si, Gyeonggi-do (KR)**

(30) Priority: **06.04.2007 KR 20070034288**

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

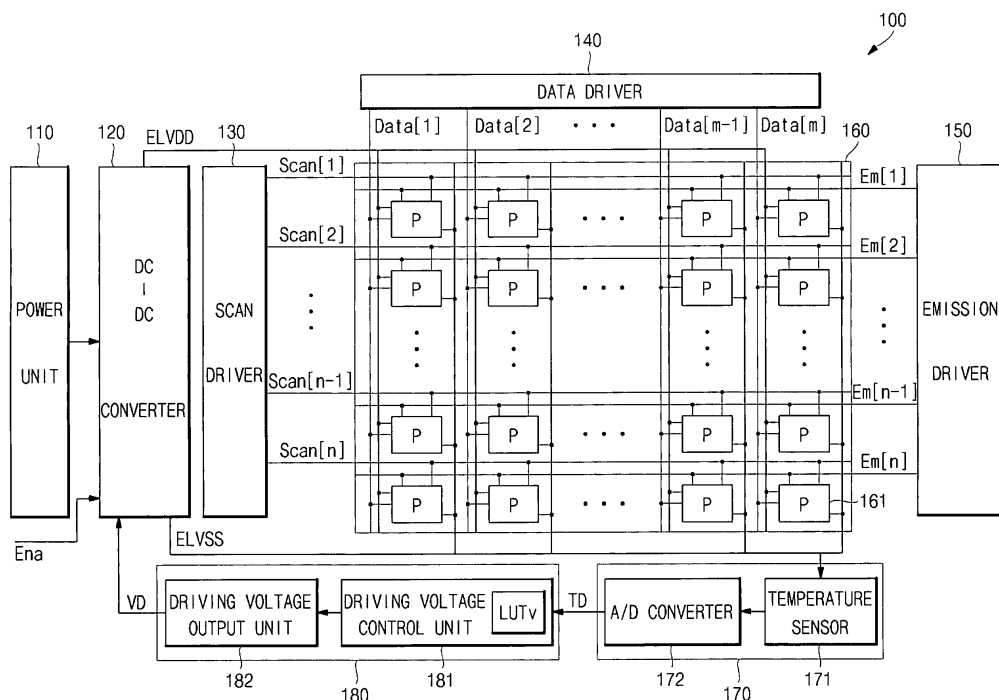
(71) Applicant: **Samsung Mobile Display Co., Ltd.**  
**Suwon-si**  
**Gyeonggi-do (KR)**

(54) **Organic light emitting display and driving method thereof**

(57) A display comprises a temperature detecting unit that detects a temperature of the display, a driving voltage determining unit that determines a driving voltage for a light emitting element in the display according to the

detected temperature, a DC/DC converter that provides the driving voltage, and a variable resistance element that adjusts the driving voltage provided to the light emitting element.

FIG.1





EUROPEAN SEARCH REPORT

Application Number  
EP 08 25 1322

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 2007/075940 A1 (NAKAMURA NORIO [JP]) 5 April 2007 (2007-04-05) * paragraphs [0072] - [0090]; figure 9 *	1-26	INV. G09G3/32
A	KR 2004 0078438 A (LG ELECTRONICS INC) 10 September 2004 (2004-09-10) * abstract; figure 7 *	1-26	
A	KR 2005 0032416 A (SAMSUNG SDI CO LTD [KR]) 7 April 2005 (2005-04-07) * abstract; figure 3 *	1-26	
X	KR 2005 0087476 A (BOE HYDIS TECHNOLOGY CO LTD [KR]) 31 August 2005 (2005-08-31) * the whole document *	1-26	
X	US 2005/242747 A1 (KATO NAOKI [JP] ET AL) 3 November 2005 (2005-11-03) * paragraphs [0062] - [0072]; figures 3,4 *	1-26	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		25 June 2009	Bellatalla, Filippo
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	

2  
EPO FORM 1503 03.02 (F04C01)

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

EP 08 25 1322

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.

25-06-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007075940 A1	05-04-2007	JP 2007101951 A	19-04-2007
-----	-----	-----	-----
KR 20040078438 A	10-09-2004	NONE	
-----	-----	-----	-----
KR 20050032416 A	07-04-2005	NONE	
-----	-----	-----	-----
KR 20050087476 A	31-08-2005	NONE	
-----	-----	-----	-----
US 2005242747 A1	03-11-2005	CN 1691115 A	02-11-2005
		JP 2005316138 A	10-11-2005
-----	-----	-----	-----

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	有机发光显示器及其驱动方法		
公开(公告)号	<a href="#">EP1978506A3</a>	公开(公告)日	2009-08-19
申请号	EP2008251322	申请日	2008-04-04
[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DISPLAY CO. , LTD.		
[标]发明人	LEE DUK JIN LEE JEONG NO		
发明人	LEE, DUK-JIN LEE, JEONG-NO		
IPC分类号	G09G3/32		
CPC分类号	G09G3/3233 G09G2300/0842 G09G2320/041 G09G2330/02 G09G2330/021 G09G2330/028		
优先权	1020070034288 2007-04-06 KR		
其他公开文献	EP1978506A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

显示器包括：温度检测单元，检测显示器的温度；驱动电压确定单元，根据检测到的温度确定显示器中的发光元件的驱动电压；DC / DC转换器，提供驱动电压，以及可变电阻元件，其调节提供给发光元件的驱动电压。

