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(30) Priority: **24.12.2004 KR 2004112517**

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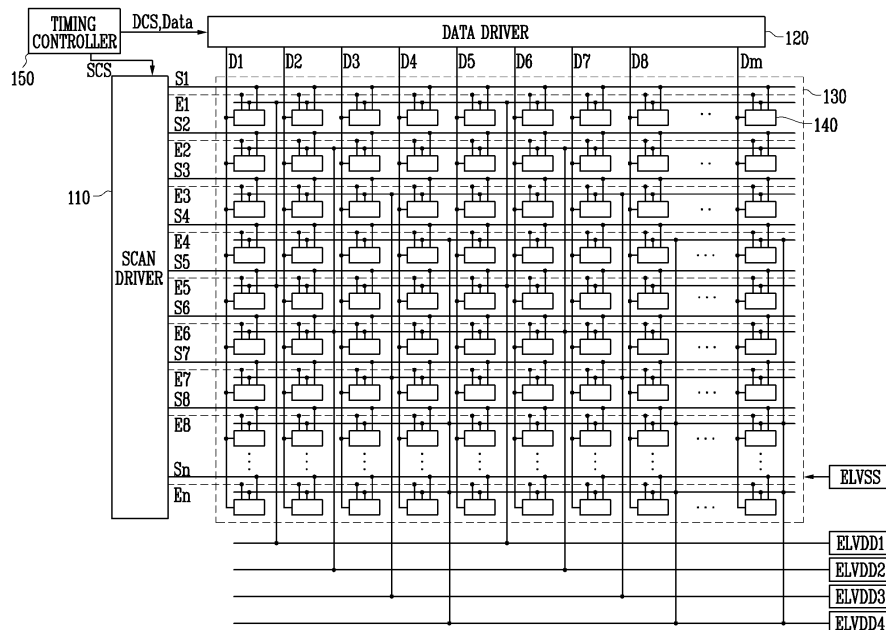
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(54) **Organic light emitting diode display and driving method thereof**

(57) An organic light emitting diode display and a driving method thereof, has an image displayed with uniform brightness. The method of driving a organic light emitting diode display, includes dividing one frame into

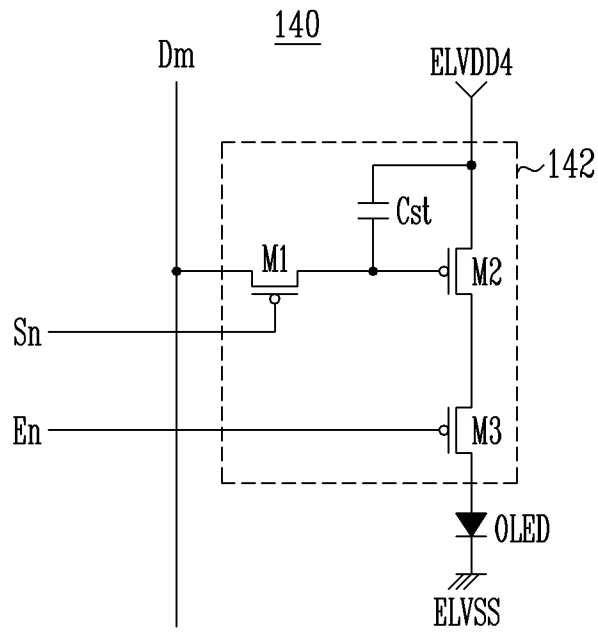
one or more sub-frames, and supplying scan signals in sequence to some of plural scan lines provided in a pixel portion per sub-frame. The scan lines receiving the scan signals are differently set per sub-frame. With this configuration, an image is displayed with uniform brightness.

FIG. 4



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FIG. 6





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 2004/113873 A1 (SHIRASAKI TOMOYUKI ET AL) 17 June 2004 (2004-06-17)	1-6, 17-22, 24,26-35	INV. G09G3/32
A	* paragraphs [0042], [0043], [0083]; figures 1,5,7 *	7-16,23, 25	
X	WO 2004/001714 A (CASIO COMPUTER CO., LTD; SATO, KAZUHITO; YAMADA, HIROYASU) 31 December 2003 (2003-12-31)	1-6, 17-22, 26-35	
A	* figures 6,8 *	7-16, 23-25	
P,X	US 2005/030265 A1 (MIYAGAWA KEISUKE) 10 February 2005 (2005-02-10)	1-6, 17-21, 31,32	
P,A	* paragraphs [0058] - [0063]; figure 3a *	7-16, 22-30, 33-35	
X	US 2004/095338 A1 (MIYAZAWA TAKASHI) 20 May 2004 (2004-05-20)	1-4	TECHNICAL FIELDS SEARCHED (IPC)
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A	* paragraph [0054]; figures 2,9 *	1-16,23, 24,31-35	
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A	* figures 10,11 * * paragraphs [0060] - [0063] *	6-16, 23-25	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 February 2008	Examiner Gundlach, Harald
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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EPO 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 (IPC)
X	US 2004/165003 A1 (SHIRASAKI TOMOYUKI) 26 August 2004 (2004-08-26)	1-4,6,7, 17-19	
A	* paragraphs [0086] - [0095], [0098]; figures 1,5 *	5,8-16, 20-35	
A	US 2004/095298 A1 (MIYAZAWA TAKASHI [JP]) 20 May 2004 (2004-05-20) * figure 5 *	8-16,23, 25	
A	US 2002/195968 A1 (SANFORD JAMES LAWRENCE [US] ET AL) 26 December 2002 (2002-12-26) * figure 3 *	8-10	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 February 2008	Examiner Gundlach, Harald
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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EPO FORM 1503 03.82 (P04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-7,17-22,24,26-35

organic light emitting diode display and a method of its driving.

2. claims: 8-16, 23, 25

a method of driving an organic light emitting diode display

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

EP 05 11 2583

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

专利名称(译)	有机发光二极管显示器及其驱动方法		
公开(公告)号	EP1675095A3	公开(公告)日	2008-03-26
申请号	EP2005112583	申请日	2005-12-21
[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	CHOI SANG MOO LEGAL & IP TEAM		
发明人	CHOI, SANG MOO LEGAL & IP TEAM		
IPC分类号	G09G3/32		
CPC分类号	G09G3/3233 G09G3/3266 G09G2300/043 G09G2300/0819 G09G2300/0842 G09G2300/0861 G09G2310/0251 G09G2320/0209 G09G2320/0223 G09G2320/043 G09G2330/02		
代理机构(译)	hengelhaupt , Jürgen		
优先权	1020040112517 2004-12-24 KR		
其他公开文献	EP1675095A2 EP1675095B1		
外部链接	Espacenet		

摘要(译)

有机发光二极管显示器及其驱动方法具有以均匀亮度显示的图像。驱动有机发光二极管显示器的方法包括将一帧分成一个或多个子帧，并且将扫描信号依次提供给每个子帧的像素部分中提供的多条扫描线中的一些扫描线。接收扫描信号的扫描线每个子帧被不同地设置。利用这种配置，以均匀的亮度显示图像。

