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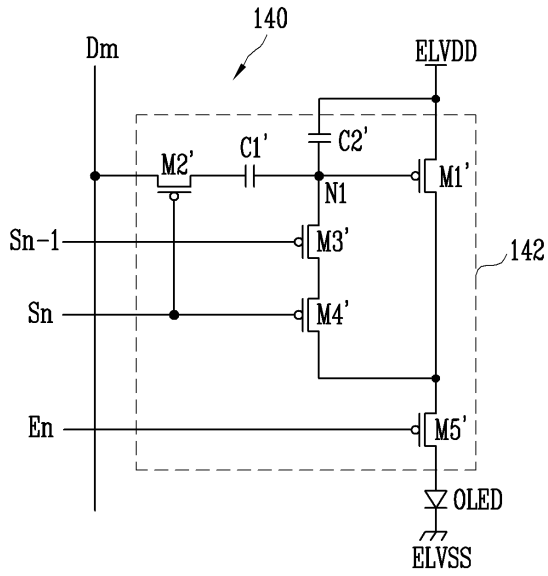
(54) Organic light emitting display and driving method thereof

(57) An organic light emitting display and a driving method thereof, in which an image is displayed with uniform brightness. The organic light emitting display includes: a scan driver for supplying a plurality of first scan signals at substantially a same time to a plurality of scan lines in a first period of one frame and for supplying a plurality of second scan signals in sequence to the scan lines in a second period of the one frame; a data driver for supplying a predetermined voltage to a plurality of data lines in the first period and for supplying a plurality of data signals to the data lines in the second period; and a pixel portion comprising a plurality of pixels connected to the scan lines and the data lines, wherein, when the one frame is an odd-numbered frame, the scan driver supplies the second scan signals in a first scanning sequence and wherein, when the one frame is an even-numbered frame, the scan driver supplies the second scan signals in a second scanning sequence differing from the first scanning sequence. With this configuration, a threshold voltage difference between the pixels is stably compensated. Further, in one embodiment, the first scanning sequence is inversely related to the second scanning sequence, so that the emission times of all pixels are equalized on average.

FIG. 4



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EUROPEAN SEARCH REPORT

Application Number
EP 05 11 0397

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	US 2004/046719 A1 (WANG WEN-CHUN ET AL) 11 March 2004 (2004-03-11) * figures 6,7 *	1-5, 9-13,15, 16	INV. G09G3/32
Y	EP 0 478 186 A (THORN EMI PLC) 1 April 1992 (1992-04-01) * column 5, line 57 - column 6, line 28; figure 4 *	1-5, 9-13,15, 16	
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22, 9 March 2001 (2001-03-09) & JP 2001 147676 A (NEC CORP), 29 May 2001 (2001-05-29) * abstract *	1-5, 9-13,15, 16	

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
Munich	29 June 2006	Gundlach, H

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 05 11 0397

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29-06-2006

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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)	有机发光显示器及其驱动方法		
公开(公告)号	EP1655719A3	公开(公告)日	2006-08-09
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[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.		
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IPC分类号	G09G3/32		
CPC分类号	G09G3/3233 G09G3/3266 G09G2300/0819 G09G2300/0852 G09G2300/0861 G09G2310/0262 G09G2310/0283 G09G2320/0233 G09G2320/043		
代理机构(译)	hengelhaupt，Jürgen		
优先权	1020040090400 2004-11-08 KR		
其他公开文献	EP1655719B1 EP1655719A2		
外部链接	Espacenet		

摘要(译)

一种有机发光显示器及其驱动方法，其中图像以均匀的亮度显示。有机发光显示器包括：扫描驱动器，用于在一帧的第一周期中基本上同时地向多条扫描线提供多个第一扫描信号，并且用于顺序地向扫描提供多个第二扫描信号在所述一帧的第二周期中的行;数据驱动器，用于在第一周期中向多条数据线提供预定电压，并且在第二周期中向数据线提供多个数据信号;以及像素部分，包括连接到扫描线和数据线的多个像素，其中，当所述一帧是奇数帧时，扫描驱动器以第一扫描顺序提供第二扫描信号，并且其中当一帧是偶数帧，扫描驱动器以不同于第一扫描序列的第二扫描序列提供第二扫描信号。利用该配置，像素之间的阈值电压差被稳定地补偿。此外，在一个实施例中，第一扫描序列与第二扫描序列反向相关，使得所有像素的发射时间平均均衡。

FIG. 4