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

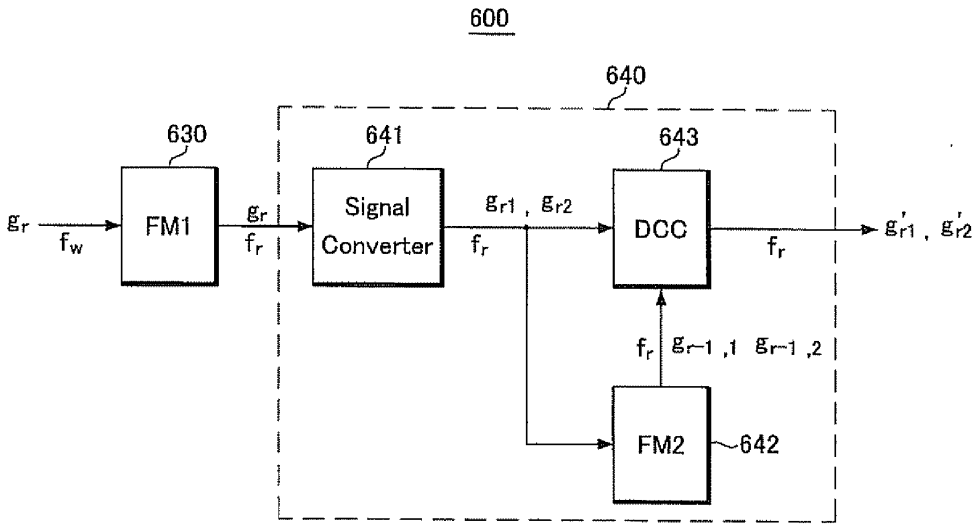
(72) Inventor: **Lee, Baek-Woon**
Yongin-si, Gyeonggi-do (KR)

(74) Representative: **Modiano, Micaela Nadia et al**
Modiano Josif Pisanty & Staub Ltd
Thierschstrasse 11
80538 München (DE)

(54) **Liquid crystal display and driving apparatus thereof**

(57) A liquid crystal display and an apparatus of driving display device including a plurality of pixels arrange in a matrix according to an embodiment of the present invention includes: a signal controller converting an input image data ("current input image data") inputted at a first frequency into a plurality of output image data to be outputted at a second frequency; and a data driver converting the output image data supplied from the signal controller into analog data voltages and applying the data voltages to a pixel, wherein the output image data includes a highest output image data that gives the highest luminance to the pixel, and the highest output image data is determined by comparing the current input image data with an input image data of a previous frame ("previous input image data).

FIG.6



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EUROPEAN SEARCH REPORT

Application Number
EP 05 11 1894

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X Y	US 2004/246224 A1 (TSAI CHUNG-KUANG [TW] ET AL) 9 December 2004 (2004-12-09) * paragraphs [0003], [0013], [0042] - [0052], [0061], [0066], [0071], [0077], [0081], [0102] - [0115]; figures 4A-4B,6-10,12-16A * -----	1-14, 20-33 15-19	INV. G09G3/36
X	US 2002/140652 A1 (SUZUKI TOSHIAKI [JP] ET AL) 3 October 2002 (2002-10-03) * paragraphs [0002], [0033], [0037], [0044] - [0068], [0075] - [0084]; figures 1,2B,3-5,12-13 * -----	1-12, 20-33	
Y	US 2003/098839 A1 (LEE BAEK-WOON [KR]) 29 May 2003 (2003-05-29) * paragraphs [0097] - [0140]; figures 6,8-9 * -----	15-19	

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 March 2010	Ley, Théodore

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 1894

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29-03-2010

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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)	液晶显示器及其驱动装置		
公开(公告)号	EP1669976A3	公开(公告)日	2010-05-05
申请号	EP2005111894	申请日	2005-12-09
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	SAMSUNG ELECTRONICS CO.，LTD.		
当前申请(专利权)人(译)	SAMSUNG ELECTRONICS CO.，LTD.		
[标]发明人	LEE BAEK WOON		
发明人	LEE, BAEK-WOON		
IPC分类号	G09G3/36		
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优先权	1020040104572 2004-12-11 KR		
其他公开文献	EP1669976A2		
外部链接	Espacenet		

摘要(译)

根据本发明实施例的液晶显示器和包括排列成矩阵的多个像素的驱动显示装置的设备包括：信号控制器，用于转换在第一输入时输入的输入图像数据（“当前输入图像数据”）。频率为多个输出图像数据，以第二频率输出;数据驱动器将从信号控制器提供的输出图像数据转换为模拟数据电压并将数据电压施加到像素，其中输出图像数据包括给像素提供最高亮度的最高输出图像数据，并且最高通过将当前输入图像数据与前一帧的输入图像数据（“先前输入图像数据”）进行比较来确定输出图像数据。

FIG.6