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(54) **Driving method and apparatus of liquid crystal display apparatus, and liquid crystal display apparatus**

(57) The present disclosure provides a driving method and apparatus of a liquid crystal display apparatus and a liquid crystal display apparatus, and belongs to a liquid crystal display field. The driving method comprises: generating gray scale data of sub-pixels according to received image data; taking a plurality of sub-pixels as a processing unit, generating gray scale voltage polarity signals, which are used for making gray scale voltages

of the plurality of sub-pixels tend to zero entirely, respectively corresponding to the gray scale data of the plurality of sub-pixels; outputting the gray scale data and the corresponding polarity signal of the each sub-pixel to a source driver of the liquid crystal display apparatus. The present disclosure may improve display defects caused by turbulence in a common voltage, such as a green attachment, a crosstalk, a flicker, etc.

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EUROPEAN SEARCH REPORT

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EP 13 18 2700

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	US 2010/053147 A1 (CHOI YUNG-SEOK [KR] ET AL) 4 March 2010 (2010-03-04) * abstract; figures 5,6a * * paragraph [0055] *	1-13	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 6 October 2016	Examiner Gonzalez Ordenez, O
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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)	液晶显示装置的驱动方法和装置，以及液晶显示装置		
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其他公开文献	EP2709097B1 EP2709097A2		
外部链接	Espacenet		

摘要(译)

本发明提供了一种液晶显示装置和液晶显示装置的驱动方法和装置，属于液晶显示领域。驱动方法包括：根据接收到的图像数据产生子像素的灰度数据；以多个子像素作为处理单元，产生灰阶电压极性信号，用以分别对应于所述多个子像素的灰阶数据，使所述多个子像素的灰阶电压趋于零。子像素；将每个子像素的灰度数据和相应的极性信号输出到液晶显示装置的源极驱动器。本公开可以改善由诸如绿色附着，串扰，闪烁等的公共电压中的湍流引起的显示缺陷。

 International Patent Cooperation Treaty Office European Patent Office Office européen des brevets		EUROPEAN SEARCH REPORT		Application Number EP 13 18 2700
DOCUMENTS CONSIDERED TO BE RELEVANT				
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The present search report has been drawn up for all claims Name of applicant: The Hague Date of completion of the search: 6 October 2016 Examiner: Gonzalez Ordóñez, O				
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1. theory or principle underlying the invention 2. prior art document, but published on, or after, the filing date of the application 3. document cited for other reasons 4. number of the same patent family, corresponding documents				