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(54) **Image degradation correction in novel liquid crystal displays with split blue subpixels**

(57) Systems and methods are disclosed to correct for image degraded signals on a liquid crystal display panel are disclosed. Panels that comprise a subpixel repeating group having an even number of subpixels in a

first direction may have parasitic capacitance and other signal errors due to imperfect dot inversion schemes thereon. Techniques for signal correction and localizing of errors onto particular subpixels are disclosed.

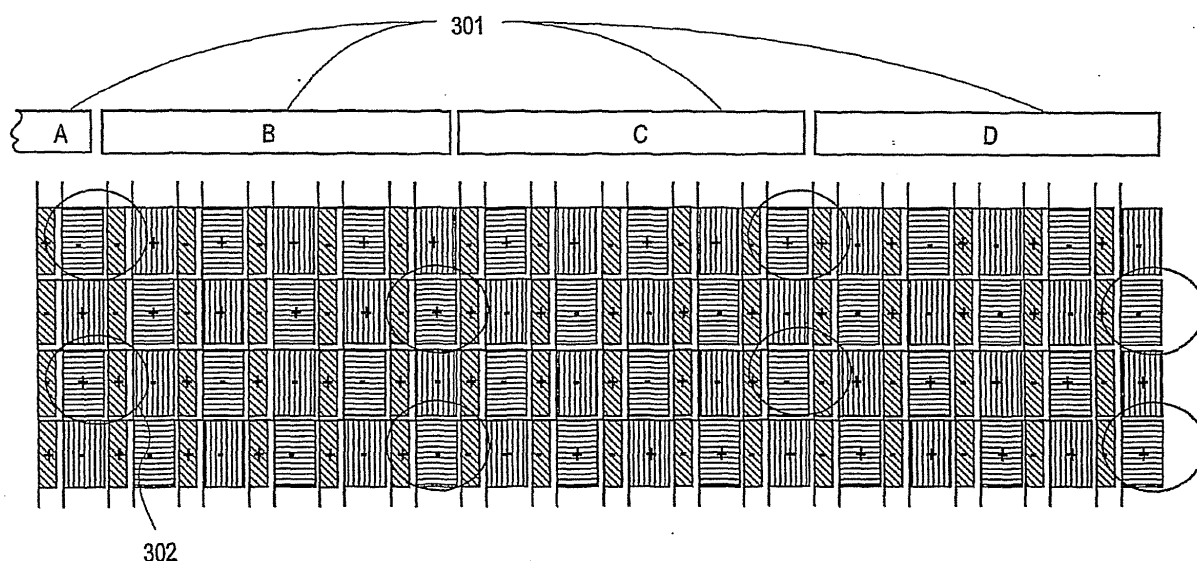


FIG. 3



EUROPEAN SEARCH REPORT

Application Number
EP 10 18 5588

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2003/090581 A1 (CREDELLE THOMAS LLOYD [US] ET AL) 15 May 2003 (2003-05-15) * paragraphs [0022], [0023], [0030], [0031], [0035], [0042]; figures 1,4,9 * -----	1-10	INV. G09G3/36 G09G5/00 G09G5/02 G09G5/10 H04N3/14
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A	US 2002/015110 A1 (BROWN ELLIOTT CANDICE HELLEN [US]) 7 February 2002 (2002-02-07) * paragraphs [0057] - [0078]; figures 8,9,10,11,12,13,15-20 * -----	4,9	
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A	US 2003/048248 A1 (FUKUMOTO TOHKO [JP] ET AL) 13 March 2003 (2003-03-13) * paragraphs [0019], [0030], [0125] - [0131]; figures 7,8 * -----	5,10	
A,P	US 2003/128179 A1 (CREDELLE THOMAS LLOYD [US]) 10 July 2003 (2003-07-10) * paragraphs [0008], [0024] - [0027], [0043], [0045]; figures 1,8b,9,10,15,16 * -----	1-10	TECHNICAL FIELDS SEARCHED (IPC) G09G
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 April 2011	Examiner Taron, Laurent
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)

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

EP 10 18 5588

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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13-04-2011

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专利名称(译)	具有分裂蓝色子像素的新型液晶显示器中的图像劣化校正		
公开(公告)号	EP2267693A3	公开(公告)日	2011-05-25
申请号	EP2010185588	申请日	2004-06-04
[标]申请(专利权)人(译)	三星电子株式会社		
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当前申请(专利权)人(译)	三星DISPLAY CO. , LTD.		
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发明人	CREDELLE, THOMAS, LLOYD STEWART, ROGER, GREEN		
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优先权	10/696236 2003-10-28 US 10/456839 2003-06-06 US		
其他公开文献	EP2267693A2 EP2267693B1		
外部链接	Espacenet		

摘要(译)

公开了用于校正液晶显示面板上的图像劣化信号的系统和方法。包括在第一方向上具有偶数个子像素的子像素重复组的面板可能由于其上的不完美的点反转方案而具有寄生电容和其他信号误差。公开了用于信号校正和将错误定位到特定子像素上的技术。

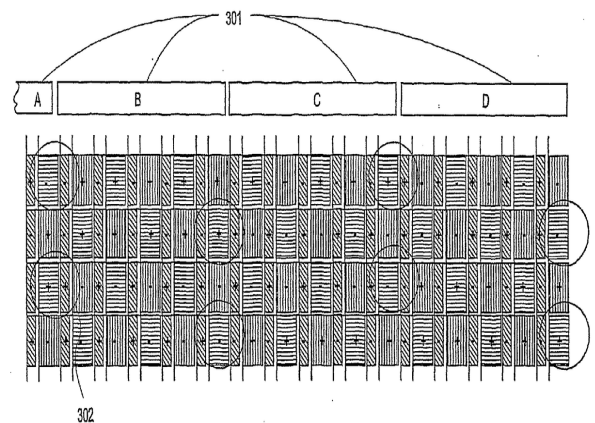


FIG. 3