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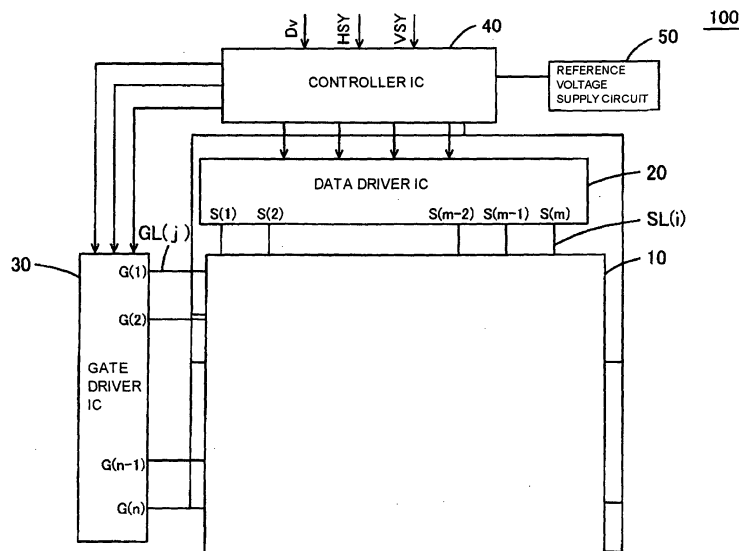
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(54) **Liquid crystal display device**

(57) The liquid crystal display device 100 has a matrix arrangement of pixels which are formed by a liquid crystal layer, display electrodes disposed across the liquid crystal layer, and a counter electrode made of a transparent material and represents a tone (gray scale level) per pixel by applying a drive voltage to the liquid crystal layer, the drive voltage corresponding to a potential difference be-

tween each of the display electrodes and the counter electrode. The device also includes a common voltage supplying means 42 that detects a charge in a certain area T1 of the counter electrode 15 and compares a feedback voltage corresponding to the detected charge in the area, thereby providing common voltage Vcom feedback control. Consequently, flickers on the screen can be prevented by common voltage Vcom feedback control.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
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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)
X	US 6 222 516 B1 (ODA MASAMI [JP] ET AL) 24 April 2001 (2001-04-24) * the whole document *	1-8	INV. G09G3/36
X	US 2007/024565 A1 (CHOI SEONG-SIK [KR]) 1 February 2007 (2007-02-01) * abstract * * paragraph [0013] - paragraph [0015] * * paragraph [0030] - paragraph [0040] * * paragraph [0053] - paragraph [0087] *	1,2,4,5	
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			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 26 August 2009	Examiner Njibamum, David
CATEGORY OF CITED DOCUMENTS		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	
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 08 02 0562

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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26-08-2009

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

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其他公开文献	EP2065881A2 EP2065881B1		
外部链接	Espacenet		

摘要(译)

液晶显示装置100具有由液晶层形成的像素的矩阵排列，横跨液晶层设置的显示电极，以及由透明材料制成的对电极，并且表示每像素的色调（灰度级）通过向液晶层施加驱动电压，驱动电压对应于每个显示电极和对电极之间的电位差。该装置还包括公共电压提供装置42，其检测对电极15的特定区域T1中的电荷，并比较与该区域中检测到的电荷相对应的反馈电压，从而提供公共电压Vcom反馈控制。因此，可以通过公共电压Vcom反馈控制来防止屏幕上的闪烁。

