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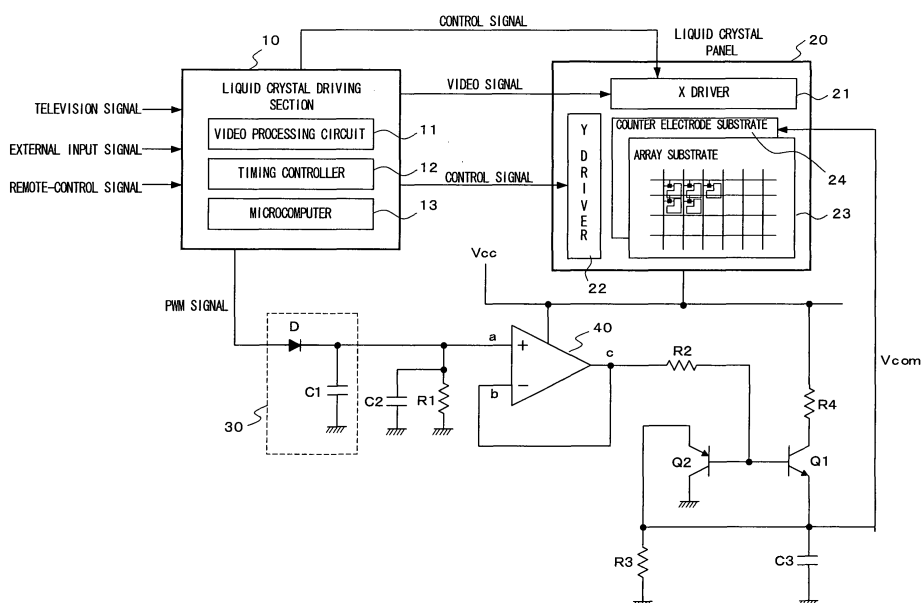
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(54) **Liquid crystal display device and common electrode voltage generating circuit**

(57) A common voltage generating circuit which is provided to an active matrix type liquid crystal display device having a plurality of pixel electrodes, switch elements provided correspondingly to the pixel electrodes and a counter electrode opposed to the pixel electrodes, and generates a common voltage to be applied to the counter electrode. The circuit has an operational ampli-

fier that amplifies a signal for generating a common voltage in a non-inversion manner, and a transistor that amplifies an output from the operational amplifier so as to output the common voltage. An output terminal of the operational amplifier is connected directly to an inversion input terminal not via the transistor so that the operational amplifier is a full-feedback voltage follower.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 07 00 7436

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	EP 0 686 959 A (SAMSUNG ELECTRONICS CO LTD [KR]) 13 December 1995 (1995-12-13)	2	INV. G09G3/36
Y	* column 1, line 37 - column 2, line 47; figures 1B,2 *	1	
Y	US 2001/043181 A1 (PARK JIN-HO [KR]) 22 November 2001 (2001-11-22) * paragraphs [0005] - [0012]; figures 1-3 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			G09G H03F
Place of search		Date of completion of the search	Examiner
Munich		25 June 2009	Adarska, Veneta
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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25-06-2009

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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)	液晶显示装置和公共电极电压产生电路		
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其他公开文献	EP1845515A2		
外部链接	Espacenet		

摘要(译)

一种公共电压产生电路，提供给有源矩阵型液晶显示装置，该有源矩阵型液晶显示装置具有多个像素电极，对应于像素电极设置的开关元件和与像素电极相对的对电极，并产生待施加的公共电压到对电极。该电路具有运算放大器和晶体管，运算放大器放大用于以非反转方式产生公共电压的信号，晶体管放大来自运算放大器的输出以输出公共电压。运算放大器的输出端子不通过晶体管直接连接到反相输入端子，使得运算放大器是全反馈电压跟随器。

