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(54) **Display device having driven-by-current type emissive element**

(57) A current control circuit (300) is provided between a power source circuit (200) and a power source line VL which supplies a drive current to an organic EL element (50) provided in each emissive pixel of a display panel. An amount of current flowing from the power source circuit (200) to the power source line VL is detected, and when the amount of current increases, a power source voltage V_{dd} to be applied to the power source line VL is decreased, thereby decreasing a cur-

rent flowing through the organic EL element (50). Alternatively, contrast or brightness level of display data to be supplied to each EL element (50) is controlled in accordance with the detected amount of current, so that when the current amount increases, the contrast or brightness level is reduced thereby restricting a current flowing through the organic EL element (50). Thus, the amount of current flowing through the organic EL element (50) can be restricted to thereby prevent excessive power consumption of the display device.

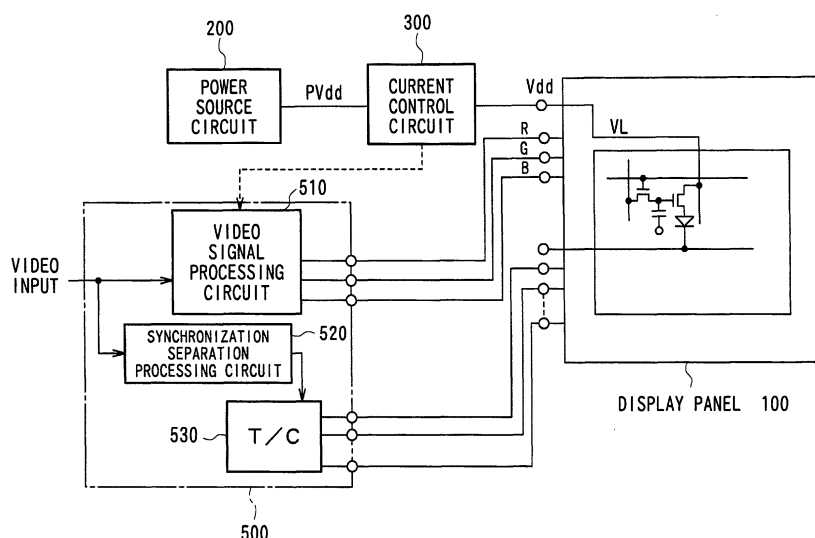


Fig. 4



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EUROPEAN SEARCH REPORT

Application Number
EP 02 25 1304

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 267628 A (SANYO ELECTRIC CO LTD), 29 September 2000 (2000-09-29) * abstract * * the whole document *	1-6	G09G3/32 G09G3/36
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A	US 6 011 529 A (IKEDA NAOTYASU) 4 January 2000 (2000-01-04) * abstract * * column 7, line 1 - column 8, line 21; figures 5-8 *	1-6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G09G
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 5 December 2002	Examiner Wolff, L
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.**

EP 02 25 1304

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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专利名称(译)	具有电流驱动型发光元件的显示装置		
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申请(专利权)人(译)	SANYO ELECTRIC CO. , LTD.		
当前申请(专利权)人(译)	SANYO ELECTRIC CO. , LTD.		
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其他公开文献	EP1237143A2		
外部链接	Espacenet		

摘要(译)

电流控制电路 (300) 设置在电源电路 (200) 和电源线VL之间, 电源线VL向设置在显示板的每个发光像素中的有机EL元件 (50) 提供驱动电流。检测从电源电路 (200) 流到电源线VL的电流, 并且当电流增加时, 施加到电源线VL的电源电压V_{dd}减小, 从而减小电流流过有机EL元件 (50)。或者, 根据检测到的电流来控制要提供给每个EL元件 (50) 的显示数据的对比度或亮度等级, 以便当电流增加时, 对比度或亮度等级降低, 从而限制电流流动。通过有机EL元件 (50)。因此, 可以限制流过有机EL元件 (50) 的电流, 从而防止显示装置的过度功耗。

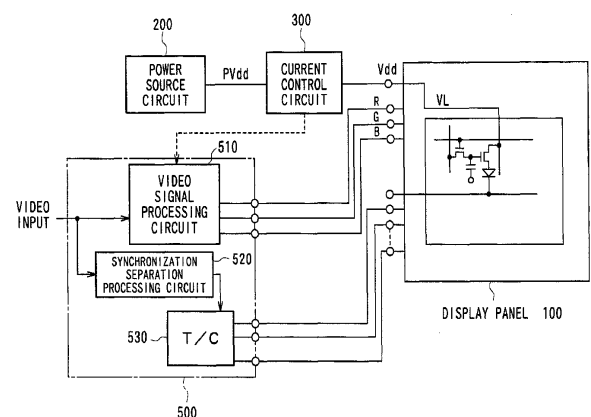


Fig. 4