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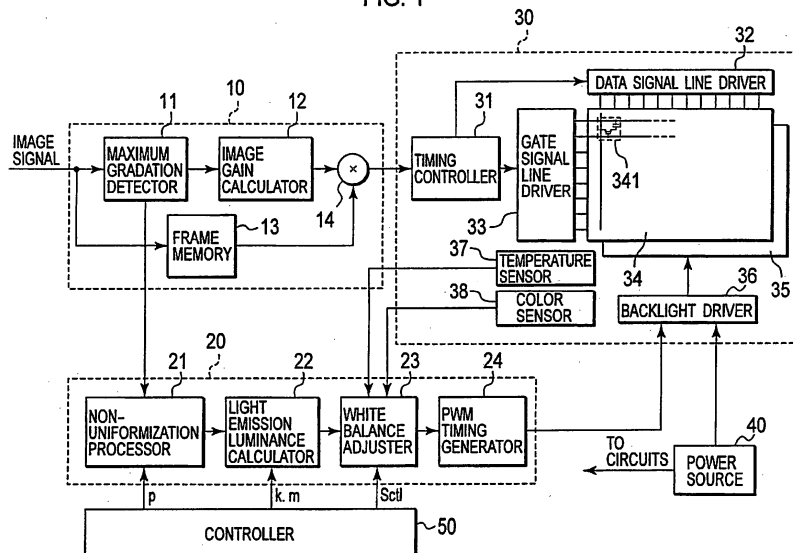
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(54) **Liquid crystal display device and image display method thereof**

(57) A backlight device is divided into multiple regions, and has a configuration in which light emitted from a light source of each of the regions is allowed to leak to other regions. A maximum gradation detector detects a maximum gradation of a regional image signal displayed on each of the regions of the liquid crystal panel. An image gain calculator obtains a gain to be multiplied to each regional image signal. An emission luminance calculator

obtains an emission luminance of light to be emitted by each light source, by using an operation expression according to the emission luminance of light to be emitted by the backlight device. At this time, if the emission luminance takes a negative value as a result of calculation, the emission luminance calculator makes a correction so that the emission luminance can take a value equal to or greater than 0.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 16 June 2009	Examiner Njibamum, David
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 08 00 4713

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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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)	液晶显示装置及其图像显示方法		
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[标]申请(专利权)人(译)	日本胜利株式会社		
申请(专利权)人(译)	VICTOR COMPANY OF JAPAN , LIMITED		
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发明人	OHSHIMA, YOSHINORI		
IPC分类号	G09G3/34		
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代理机构(译)	HARRISON , ROBERT JOHN		
优先权	2007209820 2007-08-10 JP 2007209819 2007-08-10 JP 2007123136 2007-05-08 JP 2007209818 2007-08-10 JP		
其他公开文献	EP1990796A2		
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摘要(译)

背光装置被分成多个区域，并且具有允许从每个区域的光源发射的光泄漏到其他区域的配置。最大灰度检测器检测在液晶面板的每个区域上显示的区域图像信号的最大灰度。图像增益计算器获得要与每个区域图像信号相乘的增益。发光亮度计算器通过使用根据要由背光装置发射的光的发光亮度的操作表达式来获得要由每个光源发射的光的发光亮度。此时，如果作为计算结果发光亮度取负值，则发光亮度计算器进行校正，使得发光亮度可以取值等于或大于0。

