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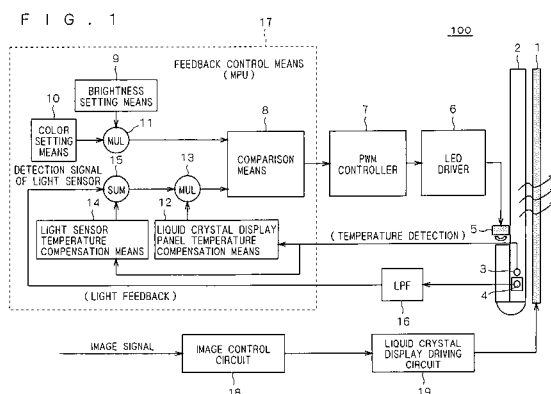
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(54) **Liquid crystal display device**

(57) The present invention provides a liquid crystal display device capable of shortening the time required for stabilizing the brightness and the chromaticity to the temperature change. The input of an LED driver (6) is connected to the output of a PWM controller (7), so that the electric power supplied to the respective LED groups of red, green and blue are controlled with a PWM method. A feedback control means (17) for controlling the PWM controller (7) includes a brightness setting means (9), a color setting means (10), a multiplication means (11) for receiving the outputs from the brightness setting means (9) and the color setting means (10), a comparison means (8) fed with the output of the multiplication means (11) at one of the inputs thereof, a light sensor temperature compensation means (14) for compensating for fluctuations of the output of the light detection means (4) due to temperature changes, a liquid crystal display panel temperature compensation means (12) for compensating for fluctuations of the spectral transmittance of the liquid crystal display panel due to temperature changes, an addition means (15) for summing the result of detection by the light detection means (4) and the output of the light sensor temperature compensation means (14), and a multiplication means (13) for multiplying the output

of the addition means (15) by the output of the liquid crystal display panel temperature compensation means (12).





European Patent
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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
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Place of search		Date of completion of the search	Examiner
Munich		5 June 2008	Gundlach, Harald
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
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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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专利名称(译)	液晶显示装置		
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摘要(译)

本发明提供一种液晶显示装置，其能够缩短稳定亮度所需的时间和温度变化的色度。LED驱动器（6）的输入连接到PWM控制器（7）的输出，从而通过PWM方法控制提供给红色，绿色和蓝色的各个LED组的电力。用于控制PWM控制器（7）的反馈控制装置（17）包括亮度设定装置（19），颜色设定装置（10），用于接收来自亮度设定装置（9）的输出的乘法装置（11）。和颜色设定装置（10），比较装置（8）在其一个输入端输入乘法装置（11）的输出，光传感器温度补偿装置（14）用于补偿输出的波动。由于温度变化，光检测装置（4），液晶显示板温度补偿装置（12），用于补偿由于温度变化引起的液晶显示板的光谱透射率的波动，用于求和的加法装置（15）由光检测装置（4）检测的结果和光传感器温度补偿装置（14）的输出，以及乘法装置（13），用于将加法装置（15）的输出乘以液体的输出uid晶体显示板温度补偿装置（12）。

