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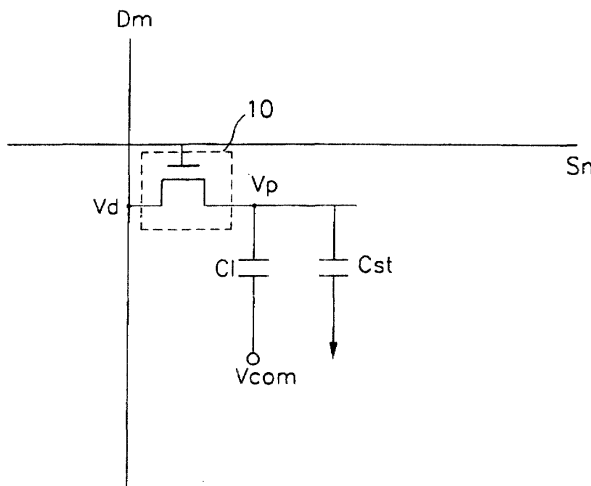
(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR Designated Extension States: AL LT LV MK RO SI	(71) Applicant: Samsung Electronics Co., Ltd. Suwon-city, Kyungki-do (KR) (72) Inventor: Lee, Baek-Woon Yongin-city, Kyungki-do (KR) (74) Representative: Modiano, Guido, Dr.-Ing. et al Modiano, Josif, Pisanty & Staub, Baaderstrasse 3 80469 München (DE)
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(54) **Liquid crystal display and driving method thereof**

(57)

Disclosed is an LCD and driving method thereof. The present invention comprises a data gray signal modifier for receiving gray signals from a data gray signal source, and outputting modification gray signals by consideration of gray signals of present and previous frames; a data driver for changing the modification gray signals into corresponding data voltages and outputting image signals; a gate driver for sequentially supplying scanning signals; and an LCD panel comprising a plurality of gate lines for transmitting the scanning signals; a plurality of data lines, being insulated from the gate lines and crossing them, for transmitting the image signals; and a plurality of pixels, formed by an area surrounded by the gate lines and data lines and arranged as a matrix pattern, having switching elements connected to the gate lines and data lines.

Fig. 1





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 01 10 2227

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)
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A	EP 0 750 288 A (TOKYO SHIBAURA ELECTRIC) 27 December 1996 (1996-12-27) * column 14, line 42 - column 15, line 12; figure 12A * ---	1,30,37, 46,52	
A	WO 96 16393 A (PHILIPS) 30 May 1996 (1996-05-30) * abstract * -----	1,30,37, 46,52	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G09G
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		28 June 2001	Lange, J
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 01 10 2227

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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28-06-2001

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专利名称(译)	液晶显示器及其驱动方法		
公开(公告)号	EP1122711A3	公开(公告)日	2001-09-12
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IPC分类号	G02F1/133 G09G3/20 G09G3/36 G09G5/39		
CPC分类号	G09G3/2011 G09G3/3648 G09G5/39 G09G2320/02 G09G2320/0252 G09G2340/16		
优先权	1020000043509 2000-07-27 KR 1020000005442 2000-02-03 KR 1020000073672 2000-12-06 KR		
其他公开文献	EP1122711A2		
外部链接	Espacenet		

摘要(译)

公开了一种LCD及其驱动方法。本发明包括数据灰度信号修正器，用于接收来自数据灰度信号源的灰度信号，并通过考虑当前帧和前一帧的灰度信号输出修改灰度信号;数据驱动器，用于将修改的灰度信号改变为相应的数据电压并输出图像信号;用于顺序提供扫描信号的栅极驱动器; LCD面板，包括多条栅极线，用于传输扫描信号;多条数据线，与栅极线绝缘并交叉，用于传输图像信号;多个像素，由栅极线和数据线围绕的区域形成，并且布置为矩阵图案，具有连接到栅极线和数据线的开关元件。

Fig. 1

