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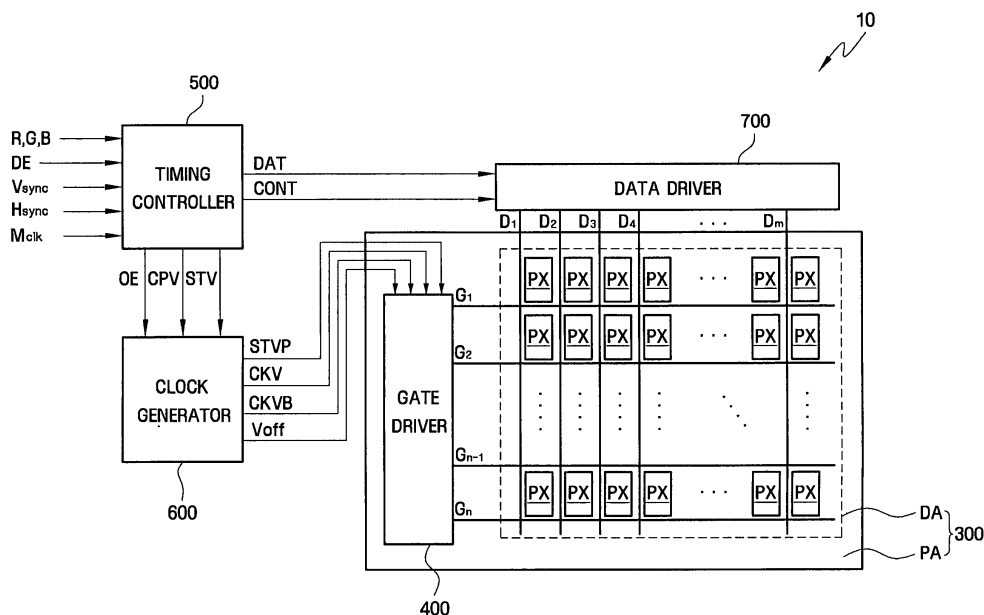
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(54) **Liquid crystal display and method of driving the same**

(57) A liquid crystal display (10) with improved display quality and a method of driving the same include a timing controller (500) which receives a main clock signal and outputs a first clock generation control signal and a second clock generation control signal which has a variable duty ratio, a clock generator (600) which receives the first clock generation control signal and the second

clock generation control signal and outputs a first clock signal and a second clock signal which have variable duty ratios and opposite phases, a gate driver (400) which receives the first clock signal and the second clock signal and outputs gate signals which have variable duty ratios, and a liquid crystal panel (300) including a plurality of pixels which are turned on according to the gate signals and display an image.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number  
EP 07 02 0752

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 2005/035958 A1 (MOON SEUNG-HWAN [KR]) 17 February 2005 (2005-02-17) * paragraphs [0003], [0015], [0016], [0034] - [0038], [0043] - [0061]; figures 1-5 *	1-20	INV. G09G3/36
A	US 2004/041774 A1 (MOON SEUNG-HWAN [KR]) 4 March 2004 (2004-03-04) * paragraphs [0042] - [0061], [0104] - [0112]; figures 1-5,9,11-13,22 *	1-20	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 April 2009	Examiner Taron, Laurent
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 07 02 0752

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20-04-2009

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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)	液晶显示器及其驱动方法		
公开(公告)号	<a href="#">EP1923859A3</a>	公开(公告)日	2009-05-27
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[标]申请(专利权)人(译)	三星电子株式会社		
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当前申请(专利权)人(译)	三星DISPLAY CO., LTD.		
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代理机构(译)	韦策尔, WOLFGANG		
优先权	1020060114696 2006-11-20 KR		
其他公开文献	EP1923859B1 EP1923859A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

具有改善的显示质量的液晶显示器 ( 10 ) 及其驱动方法包括定时控制器 ( 500 ) , 其接收主时钟信号并输出第一时钟产生控制信号和具有可变量的第二时钟产生控制信号占空比, 时钟发生器 ( 600 ) 接收第一时钟发生控制信号和第二时钟发生控制信号并输出具有可变占空比和相反相位的第二时钟信号, 栅极驱动器 ( 400 ) 接收第一时钟信号和第二时钟信号并输出具有可变占空比的栅极信号, 以及包括根据栅极信号导通的多个像素并显示图像的液晶面板 ( 300 ) 。

FIG 1

