



(11) **EP 1 241 655 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **10.10.2007 Bulletin 2007/41** (51) Int Cl.: **G09G 3/36<sup>(2006.01)</sup>**

(43) Date of publication A2: **18.09.2002 Bulletin 2002/38**

(21) Application number: **02005396.3**

(22) Date of filing: **15.03.2002**

(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**

(30) Priority: **15.03.2001 JP 2001073289**

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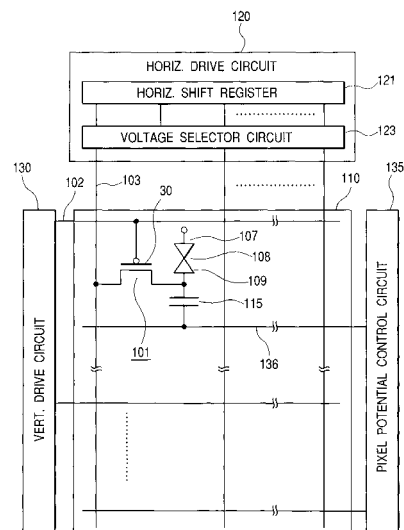
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(54) **Liquid crystal display device having a low-voltage driving circuit**

(57) A liquid crystal display device has a liquid crystal composition (3) sandwiched between a pair of substrates (1,2), and a plurality of pixels (101) disposed on one of the first substrates. Each of the pixels is supplied with a video signal (103) via a switching element (30) connected to a first electrode thereof, and is provided with a capacitance (115). One of two capacitance-forming electrodes forming the capacitance is connected to the first electrode of a corresponding one of the pixels, and another of the two capacitance-forming electrodes is supplied with a pixel-potential control signal. Polarity of the video signal reverses with respect to a first reference voltage with a repetition period, and the pixel-potential control signal alternates between two voltage levels of same polarity with respect to a second reference voltage such that a voltage swing on the first electrodes of the pixels becomes larger than that of the video signal.

FIG. 2



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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 622 655 A2 (TAKAHARA HIROSHI ROUND CITY FUD; OMAE HIDEKI) 2 November 1994 (1994-11-02) * column 4, line 36 - line 43 * * column 5, line 1 - line 2 * * column 21, line 43 - column 22, line 42 * * figure 19 * * figure 12 *	1-6	INV. G09G3/36
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 August 2007	Examiner Husselin, Stephane
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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EPC FORM 1503 03.82 (P04/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 5396

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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28-08-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0622655	A2	02-11-1994	NONE
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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	液晶显示装置具有低压驱动电路		
公开(公告)号	<a href="#">EP1241655A3</a>	公开(公告)日	2007-10-10
申请号	EP2002005396	申请日	2002-03-15
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IPC分类号	G09G3/36 G02F1/1333 G02F G02F1/13 G02F1/133 G02F1/1335 G02F1/1362 G02F1/1368 G09G G09G3/20 G09G5/00		
CPC分类号	G09G3/3655 G02F1/133308 G02F1/133512 G02F1/136213 G09G3/3614		
优先权	2001073289 2001-03-15 JP		
其他公开文献	EP1241655A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

液晶显示装置具有夹在一对基板 ( 1,2 ) 之间的液晶组合物 ( 3 ) 和设置在第一基板之一上的多个像素 ( 101 )。每个像素经由连接到其第一电极的开关元件 ( 30 ) 提供有视频信号 ( 103 )，并且设置有电容 ( 115 )。形成电容的两个电容形成电极中的一个连接到相应的一个像素的第一电极，并且两个电容形成电极中的另一个被提供有像素电位控制信号。视频信号的极性相对于具有重复周期的第一参考电压反转，并且像素电位控制信号在相对于第二参考电压的相同极性的两个电压电平之间交替，使得在第一电极上的电压摆动像素变得大于视频信号的像素。

