



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
23.07.2014 Bulletin 2014/30

(51) Int Cl.:
G02F 1/1337 (2006.01) G02B 27/22 (2006.01)

(43) Date of publication A2:
12.03.2014 Bulletin 2014/11

(21) Application number: **13195704.5**

(22) Date of filing: **06.02.2012**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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(30) Priority: **08.02.2011 JP 2011025474**
27.12.2011 JP 2011285586

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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
12153969.6 / 2 485 085

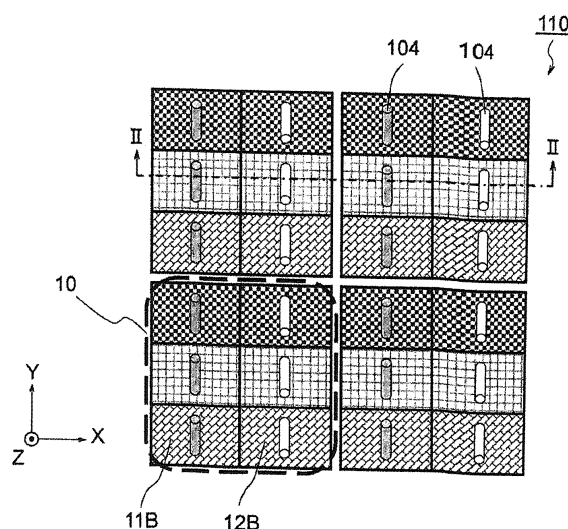
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(54) **Liquid crystal display device**

(57) To provide a vertical alignment liquid crystal display device capable of achieving a high-definition image display. Tilt directions of liquid crystal molecules when a voltage is applied are within a plane that is in parallel to a border between a first pixel and a second pixel, and are different by 180 degrees between the first and second pixels. The first pixel is constituted with three sub-pixels for R, G, and B arranged in a direction in parallel to the

border. Similarly, the second pixel is constituted with three sub-pixels for R, G, and B. The tilt directions of the liquid crystal molecules when a voltage is applied are different by 180 degrees from each other between the sub-pixels for R of the first and second pixels, between the sub-pixels for G of the first and second pixels, and between the sub-pixels for B of the first and second pixels.

FIG. 1A



**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 13 19 5704

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	US 2010/039418 A1 (CHEN CHAO-YUAN [TW] ET AL) 18 February 2010 (2010-02-18) * paragraphs [0006] - [0008], [0023] - [0026], [0032]; figures 1,2,7 *	3-7	INV. G02F1/1337 G02B27/22
A	GB 2 405 518 A (SHARP KK [JP]) 2 March 2005 (2005-03-02) * pages 3-6,11 - page 14; figures 1,4,5 *	3-7	
A,D	JP 2008 261980 A (TOSHIBA MATSUSHITA DISPLAY TEC) 30 October 2008 (2008-10-30) * abstract; figures 1,2 *	3-7	
			TECHNICAL FIELDS SEARCHED (IPC)
			G02F G02B
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search Munich		Date of completion of the search 13 June 2014	Examiner Queneuille, Julien
CATEGORY OF CITED DOCUMENTS		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	
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			

EPO FORM 1503 03/82 (P04E07)

**INCOMPLETE SEARCH
SHEET C**

Application Number

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Claim(s) completely searchable:
3-7

Claim(s) not searched:
1, 2, 8-11

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Reason for the limitation of the search:

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Claims 1, 3, 8, 9, 10, 11 are independent claims and belong to the same category. They do not fall into the exceptions set out in Rule 43(2). Following a communication under Rule 62a(1) EPC, the applicant has indicated that the search should be carried out on the basis of claim 3. Therefore independent claims 1, 8-11 and dependent claim 2 have not been searched in accordance to Rule 62a EPC.

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

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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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13-06-2014

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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		
公开(公告)号	EP2706403A3	公开(公告)日	2014-07-23
申请号	EP2013195704	申请日	2012-02-06
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IPC分类号	G02F1/1337 G02B27/22		
CPC分类号	G02F1/137 G02F1/139 G02F2001/13712 G02B30/27 G02F1/1323 G02F1/133753 G02F2001/133742 G02F2001/133757		
优先权	2011025474 2011-02-08 JP 2011285586 2011-12-27 JP		
其他公开文献	EP2706403A2 EP2706403B1		
外部链接	Espacenet		

摘要(译)

提供一种能够实现高清晰度图像显示的垂直取向液晶显示装置。当施加电压时液晶分子的倾斜方向在与第一像素和第二像素之间的边界平行的平面内,并且在第一和第二像素之间相差180度。第一像素由R, G和B的三个子像素构成,这三个子像素布置在与边界平行的方向上。类似地,第二像素由R, G和B的三个子像素构成。当施加电压时液晶分子的倾斜方向在用于R的子像素之间彼此相差180度。第一和第二像素,在第一和第二像素的G的子像素之间,以及在第一和第二像素的B的子像素之间。

FIG. 1A

