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(71) Applicant: **Acer Incorporated**
Taipei Hsien 221 (TW)

(72) Inventor: **Chen, Chih-Chiang**
221, Taipei Hsien (TW)

(74) Representative: **Becker Kurig Straus**
Patentanwälte
Bavariastrasse 7
80336 München (DE)

(54) Liquid crystal display panel, liquid crystal display device, photo detecting device and light intensity adjustment method

(57) The present invention discloses a liquid crystal display panel, liquid crystal display device, photo detecting device and light intensity adjustment method. The liquid crystal display panel comprises a plurality of first scan lines, a plurality of first data lines, a plurality of first thin film transistors, a plurality of liquid crystal pixel units and a built-in photo detecting module. The plurality of first thin film transistors are respectively disposed at intercrosses of the plurality of first scan lines and the plurality of first data lines, and each of the first thin film transistors is connected to the first data line and the fist scan line. Each of the first thin film transistors is used to drive a liquid crystal pixel unit. The built-in photo detecting module detects light and outputs a multi-bit digital signal corresponding to the intensity of the light.

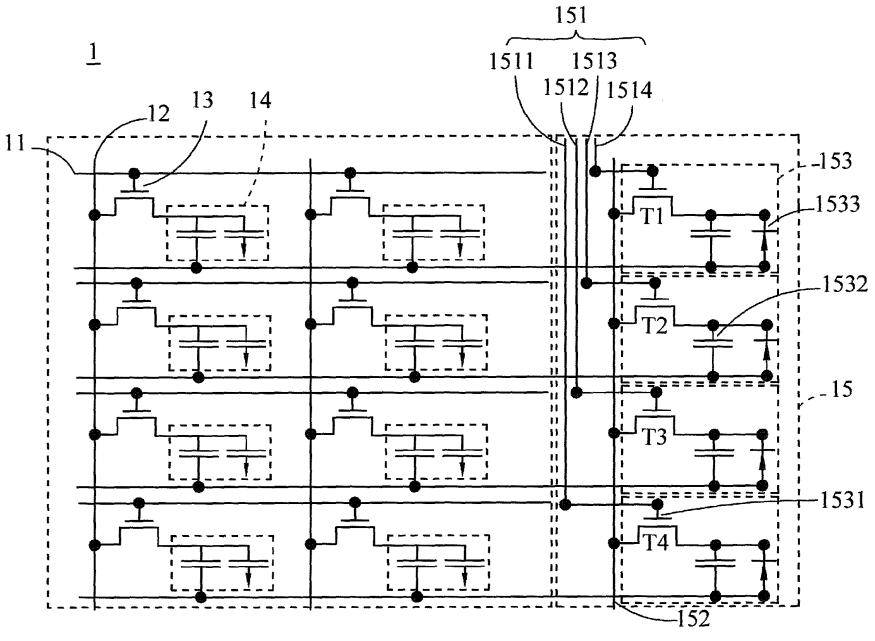

FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 09 17 4781

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 Y	US 2006/262055 A1 (TAKAHARA HIROSHI [JP]) 23 November 2006 (2006-11-23) * paragraphs [0002], [0156] - [0160], [0167] - [0168], [0184] - [0190], [0322] - [0323] * * paragraphs [0425] - [0429], [0437] - [0438], [0462] - [0463], [0620] - [0621] * * figures 1-3,33,55,57 *	1-9, 11-15 15	INV. G09G3/36
Y	JP 2006 330578 A (SONY CORP) 7 December 2006 (2006-12-07) * abstract; figures 3-5 *	15	
X	US 2007/182723 A1 (IMAI TAKAYUKI [JP] ET AL) 9 August 2007 (2007-08-09) * paragraphs [0007], [0047] - [0066] * * figures 2,3 *	1-5,8, 11-13,15	
A	WO 2008/114749 A1 (SONY CORP [JP]; NAKAJIMA YOSHIHARU [JP]; YAMANAKA GO [JP]) 25 September 2008 (2008-09-25) * figures 2,6 * & US 2009/147191 A1 (NAKAJIMA YOSHIHARU [JP] ET AL) 11 June 2009 (2009-06-11) * paragraphs [0012] - [0016], [0039] - [0045], [0087] - [0090] * * figures 2,6 *	1-15	TECHNICAL FIELDS SEARCHED (IPC) G01J G02F G06F G09G H01L

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	12 April 2011	Ladiray, Olivier

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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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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12-04-2011

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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)	液晶显示面板，液晶显示装置，光检测装置和光强度调节方法		
公开(公告)号	EP2237262A3	公开(公告)日	2011-05-25
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[标]申请(专利权)人(译)	宏碁股份有限公司		
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当前申请(专利权)人(译)	宏碁股份有限公司		
[标]发明人	CHEN CHIH CHIANG		
发明人	CHEN, CHIH-CHIANG		
IPC分类号	G09G3/36		
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优先权	098110924 2009-04-01 TW		
其他公开文献	EP2237262A2		
外部链接	Espacenet		

摘要(译)

本发明公开了一种液晶显示面板，液晶显示装置，光检测装置和光强度调节方法。液晶显示面板包括多条第一扫描线，多条第一数据线，多个第一薄膜晶体管，多个液晶像素单元和内置光电检测模块。多个第一薄膜晶体管分别设置在多条第一扫描线和多条第一数据线的交叉处，并且每个第一薄膜晶体管连接到第一数据线和第一扫描线。每个第一薄膜晶体管用于驱动液晶像素单元。内置光电检测模块检测光并输出对应于光强度的多位数字信号。

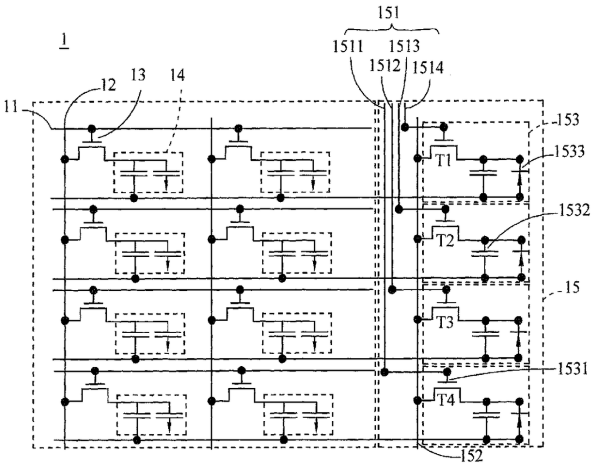

FIG. 1