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(71) Applicant: **LG ELECTRONICS INC.**
Seoul (KR)

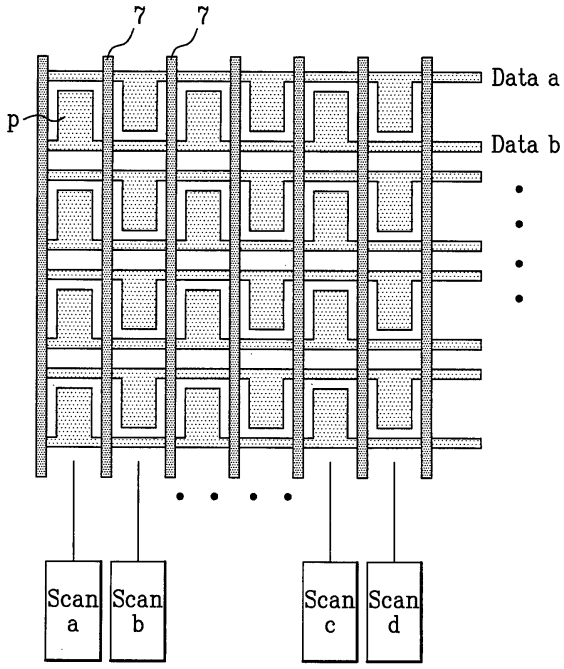
(72) Inventors:
- **Kim, Chang Nam**
  Chungrang-gu,
  Seoul (KR)
- **Kim, Hak Su**
  Kangbuk-gu,
  Seoul (KR)

(74) Representative: **Vetter, Ewald Otto et al**
Meissner, Bolte & Partner
Anwaltssozietät GbR
Postfach 10 26 05
86016 Augsburg (DE)

(54) Panel of organic electroluminescence device and method for manufacturing the same

(57) A panel of an organic electro-luminescence (EL) device and a method for manufacturing the same is disclosed, in which it is possible to decrease a load in a scan driver (driving chip for the scan) and a pixel, thereby improving reliability of a driving driver and the device. Also, the number of the scan and data drivers (driving chip for the data) decreases, and the number of COF (chip on flexible printed circuit) bonding, chip bonding for connecting the driving chip to each electrode line, decreases, thereby decreasing a manufacturing price.

FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 3615

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 6 297 589 B1 (MIYAGUCHI SATOSHI [JP] ET AL) 2 October 2001 (2001-10-02) * figures 1,2,10,11 * * column 3 - column 5 *	1,2,8,9, 12,13	INV. H01L27/00 G09G3/32
Y	* column 3, line 46 - line 60 *	14,19-21	
Y	EP 0 888 035 A (IDEMITSU KOSAN CO [JP]) 30 December 1998 (1998-12-30) * page 12, line 8 - line 24; figures 13,14 * * page 9, line 58 - page 10, line 16; figure 8 * * page 14, line 34 - line 47; figure 21 *	1-7,10, 11	
Y	EP 0 969 701 A (SEIKO EPSON CORP [JP]) 5 January 2000 (2000-01-05) * paragraph [0007] * * paragraph [0015] * * paragraph [0022] - paragraph [0024]; figures 1,4 *	1-7,10, 11,14-21	
Y	JP 2001 217081 A (SHARP KK) 10 August 2001 (2001-08-10) * paragraph [0018] - paragraph [0020]; figures 1,2 * * paragraph [0021] - paragraph [0025] *	3,14-18	TECHNICAL FIELDS SEARCHED (IPC) H01L
A	US 5 701 055 A (NAGAYAMA KENICHI [JP] ET AL) 23 December 1997 (1997-12-23) * column 6, line 26 - column 7, line 5; figures 2,3 * * column 7, line 6 - column 10, line 53 *		

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	17 December 2008	Konrádsson, Ásgeir

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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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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17-12-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6297589 B1	02-10-2001	JP 3927323 B2	06-06-2007
		JP 2000091069 A	31-03-2000
EP 0888035 A	30-12-1998	DE 69732903 D1	04-05-2005
		DE 69732903 T2	02-02-2006
		WO 9734447 A1	18-09-1997
		JP 3162407 B2	25-04-2001
		US 6157127 A	05-12-2000
EP 0969701 A	05-01-2000	CN 1237318 A	01-12-1999
		DE 69830047 D1	09-06-2005
		DE 69830047 T2	29-09-2005
		WO 9912397 A1	11-03-1999
		JP 3633229 B2	30-03-2005
		JP 11087063 A	30-03-1999
		TW 406520 B	21-09-2000
		US 6388377 B1	14-05-2002
JP 2001217081 A	10-08-2001	NONE	
US 5701055 A	23-12-1997	NONE	

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)	有机电致发光器件面板及其制造方法		
公开(公告)号	EP1304743A3	公开(公告)日	2009-01-21
申请号	EP2002023615	申请日	2002-10-18
申请(专利权)人(译)	LG电子株式会社.		
当前申请(专利权)人(译)	LG电子株式会社.		
[标]发明人	KIM CHANG NAM KIM HAK SU		
发明人	KIM, CHANG NAM KIM, HAK SU		
IPC分类号	H01L27/00 G09G3/32 H05B33/26 G09F9/30 G09G3/20 G09G3/30 H01L27/32 H01L51/50 H05B33/00 H05B33/10 H05B33/12 H05B33/22		
CPC分类号	H01L27/3288 G09G3/3216 G09G2300/0439 G09G2310/0205 H01L51/5203		
优先权	1020010064407 2001-10-18 KR		
其他公开文献	EP1304743A2		
外部链接	Espacenet		

摘要(译)

公开了一种有机电致发光（EL）器件的面板及其制造方法，其中可以减小扫描驱动器（用于扫描的驱动芯片）和像素的负载，从而提高可靠性。驾驶司机和设备。此外，扫描和数据驱动器（用于数据的驱动芯片）的数量减少，并且用于将驱动芯片连接到每个电极线的COF（柔性印刷电路上的芯片）接合，芯片接合的数量减少，从而减少了制造价格。

FIG. 2