



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 10 5804

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	WO 02/25365 A (HITACHI, LTD; ISHII, MASAHIRO; KAWAMURA, TETSUYA; YAMATE, HIROSHI; TAK) 28 March 2002 (2002-03-28) * figures 1,2,6,14-18,20 *	1-5	INV. H01L27/32
E	-& US 6 934 000 B1 (ISHII MASAHIRO ET AL) 23 August 2005 (2005-08-23) * column 2, line 10 - line 56 * * column 9, line 16 - column 20, line 2 * * figures 1,2,6,14-18,20 *	1-5	
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 11, 5 November 2003 (2003-11-05) -& JP 2003 217835 A (NIPPON SEIKI CO LTD), 31 July 2003 (2003-07-31) * abstract; figures 1,2 *	1-4	
Y	----- * abstract; figures 1,2 *	5-8	
X	WO 03/086022 A (OPTREX CORPORATION; NAKAMURA, NOBUHIRO) 16 October 2003 (2003-10-16) * figures 1-7 *	1-3,5	TECHNICAL FIELDS SEARCHED (IPC) H01L
Y P,X	-& US 2004/245920 A1 (NAKAMURA NOBUHIRO) 9 December 2004 (2004-12-09) * abstract * * paragraphs [0009], [0010], [0016], [0020], [0028], [0052] - [0153] * * figures 1-7 *	5-8 1-3,5	
X	----- PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) -& JP 2001 282136 A (SANYO ELECTRIC CO LTD), 12 October 2001 (2001-10-12) * abstract; figures 1,2 * ----- -/--	1	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 January 2007	Examiner BERNABE PRIETO, A
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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EPO FORM 1503 03.82 (P04C01)



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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	PATENT ABSTRACTS OF JAPAN vol. 013, no. 195 (E-754), 10 May 1989 (1989-05-10) -& JP 01 014891 A (MATSUSHITA ELECTRIC IND CO LTD), 19 January 1989 (1989-01-19) * abstract *	1		
X	----- PATENT ABSTRACTS OF JAPAN vol. 2002, no. 04, 4 August 2002 (2002-08-04) -& JP 2001 351778 A (TOHOKU PIONEER CORP), 21 December 2001 (2001-12-21) * abstract; figures 3-5 *	1		
X	----- US 2002/109797 A1 (CHUNG WOO-SUK ET AL) 15 August 2002 (2002-08-15) * paragraphs [0004], [0008], [0010], [0027] - [0037] * * figures 4,8 *	1		
X	----- US 2001/031510 A1 (AHN BYUNG CHUL [KR] ET AL) 18 October 2001 (2001-10-18) * paragraph [0067] - paragraph [0070] * * figures 6-8 *	1,6-8		TECHNICAL FIELDS SEARCHED (IPC)
X	----- US 2003/067038 A1 (FUJIKAWA TETSUYA [JP] ET AL) 10 April 2003 (2003-04-10) * paragraph [0079] - paragraph [0084] * * figures 3-6 *	1,6-8		
Y	----- US 2004/126942 A1 (PARK DAE-LIM [KR] ET AL) 1 July 2004 (2004-07-01) * paragraph [0060] * * figures 9-12 *	6-8		
		-/--		
The present search report has been drawn up for all claims				
Place of search Munich		Date of completion of the search 24 January 2007	Examiner BERNABE PRIETO, A	
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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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 2003/094895 A1 (OKUYAMA MASAHIRO [JP] ET AL) 22 May 2003 (2003-05-22) * paragraph [0021] - paragraph [0090] * * figures 3,6 *	1,9-12	
X	US 2004/056855 A1 (YAMAZAKI SHUNPEI [JP] ET AL) 25 March 2004 (2004-03-25) * paragraph [0015] - paragraph [0023]; figure 11 *	1,9-12	
X	US 2004/115989 A1 (MATSUEDA YOJIRO [JP] ET AL) 17 June 2004 (2004-06-17) * paragraph [0050] - paragraph [0057] * * figures 3,4 *	1,9-12	
X	US 2004/108810 A1 (TSUJIMURA TAKATOSHI [JP] ET AL) 10 June 2004 (2004-06-10) * paragraph [0032] - paragraph [0098] * * figures 1,5-9 *	1,9-12	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 January 2007	Examiner BERNABE PRIETO, A
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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EPO FORM 1503 03.02 (P04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5

Light emitting display having reduced contact resistance
between first and second conductors by means of inlet in
first conductor

2. claims: 1,6-8

Light emitting display having reduced contact resistance
between first and second conductors by means of structure in
the first conductor at connecting part between them.

3. claims: 1,9-12

Light emitting display having reduced contact resistance
between first and second conductors by means of double layer
in first conductor one of them with better cleansing
characteristics

**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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-01-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0225365 A	28-03-2002	US 6934000 B1	23-08-2005
US 6934000 B1	23-08-2005	WO 0225365 A1	28-03-2002
JP 2003217835 A	31-07-2003	NONE	
WO 03086022 A	16-10-2003	AU 2003236109 A1	20-10-2003
		DE 10392168 B4	30-11-2006
		DE 10392168 T5	23-12-2004
		JP 2005108437 A	21-04-2005
		US 2004245920 A1	09-12-2004
US 2004245920 A1	09-12-2004	AU 2003236109 A1	20-10-2003
		DE 10392168 B4	30-11-2006
		DE 10392168 T5	23-12-2004
		WO 03086022 A1	16-10-2003
		JP 2005108437 A	21-04-2005
JP 2001282136 A	12-10-2001	NONE	
JP 01014891 A	19-01-1989	NONE	
JP 2001351778 A	21-12-2001	NONE	
US 2002109797 A1	15-08-2002	JP 2002258325 A	11-09-2002
		KR 20020066574 A	19-08-2002
		TW 240839 B	01-10-2005
US 2001031510 A1	18-10-2001	NONE	
US 2003067038 A1	10-04-2003	NONE	
US 2004126942 A1	01-07-2004	KR 20040059066 A	05-07-2004
US 2003094895 A1	22-05-2003	NONE	
US 2004056855 A1	25-03-2004	AU 2003264515 A1	08-04-2004
		CN 1682259 A	12-10-2005
		WO 2004027740 A1	01-04-2004
		US 2006289889 A1	28-12-2006
US 2004115989 A1	17-06-2004	CN 1498041 A	19-05-2004
		JP 2004139970 A	13-05-2004
		KR 20040027341 A	01-04-2004
		KR 20050119088 A	20-12-2005
		TW 591569 B	11-06-2004

EPO FORM P0459

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

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

EP 05 10 5804

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-01-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004108810 A1	10-06-2004	CN 1498042 A	19-05-2004
		JP 2004119210 A	15-04-2004
		TW 228829 B	01-03-2005
		US 2006017378 A1	26-01-2006

专利名称(译)	发光显示装置		
公开(公告)号	EP1667234A3	公开(公告)日	2007-03-07
申请号	EP2005105804	申请日	2005-06-29
[标]申请(专利权)人(译)	三星斯笛爱股份有限公司		
申请(专利权)人(译)	三星SDI CO. , LTD.		
当前申请(专利权)人(译)	三星移动显示器有限公司.		
[标]发明人	CHAE BYUNG HOON KIM SEON HEE NAM WI JIN		
发明人	CHAE, BYUNG-HOON KIM, SEON-HEE NAM, WI-JIN		
IPC分类号	H01L27/32		
CPC分类号	H01L27/3288 H01L27/156		
代理机构(译)	hengelhaupt , Jürgen		
优先权	1020040051524 2004-07-02 KR		
其他公开文献	EP1667234A2		
外部链接	Espacenet		

摘要(译)

一种发光显示装置，包括：基板;形成图像并设置在基板上的发光单元;多个端子，其接触电连接到发光单元的多个互连线;以及接触电阻控制部分，其减少接触端子和互连线之间的电阻设置在端子与互连线接触的位置。

FIG. 5

