





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 06 11 5788

| 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 2002/104995 A1 (YAMAZAKI SHUNPEI [JP] ET AL) 8 August 2002 (2002-08-08)                                                                                | 1,2,7,8, 10,11                                                                                                                                                                                                                                                               | INV.<br>H01L51/56<br>H01L27/32          |
| Y                                                                                                                                                                                                                                                      | * paragraphs [0130] - [0140]; figure 11 *<br>-----                                                                                                        | 3-6                                                                                                                                                                                                                                                                          |                                         |
| Y                                                                                                                                                                                                                                                      | US 2003/127652 A1 (PARK JAE-YONG [KR] ET AL) 10 July 2003 (2003-07-10)<br>* paragraphs [0055] - [0087]; figures 4,7,8 *                                   | 6,12-19                                                                                                                                                                                                                                                                      |                                         |
| Y                                                                                                                                                                                                                                                      | US 6 037 195 A (TORIYAMA SHIGETAKA [JP] ET AL) 14 March 2000 (2000-03-14)<br>* figure 10 *                                                                | 12-14, 16,17,19                                                                                                                                                                                                                                                              |                                         |
| Y                                                                                                                                                                                                                                                      | US 2004/256979 A1 (MURAKAMI SATOSHI [JP] ET AL) 23 December 2004 (2004-12-23)<br>* paragraphs [0007] - [0010], [0049], [0050], [0076], [0077]; figure 1 * | 3-5,15, 18                                                                                                                                                                                                                                                                   |                                         |
| A                                                                                                                                                                                                                                                      | JP 2001 024196 A (SEMICONDUCTOR ENERGY LAB) 26 January 2001 (2001-01-26)<br>* paragraphs [0027], [0028], [0030], [0041], [0042], [0049], [0050] *         | 20-22                                                                                                                                                                                                                                                                        | TECHNICAL FIELDS SEARCHED (IPC)<br>H01L |
| P,Y                                                                                                                                                                                                                                                    | US 2006/043373 A1 (WU YUNG F [TW] ET AL) 2 March 2006 (2006-03-02)<br>* paragraphs [0008] - [0018], [0057] - [0060]; figure 6 *                           | 12-14, 16,17,19                                                                                                                                                                                                                                                              |                                         |
| The present search report has been drawn up for all claims                                                                                                                                                                                             |                                                                                                                                                           |                                                                                                                                                                                                                                                                              |                                         |
| Place of search<br>The Hague                                                                                                                                                                                                                           |                                                                                                                                                           | Date of completion of the search<br>31 October 2006                                                                                                                                                                                                                          | Examiner<br>De Laere, Ann               |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |                                                                                                                                                           | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>& : member of the same patent family, corresponding document |                                         |

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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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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31-10-2006

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|----------------|-----------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 有机发光显示装置及其制造方法                                                              |         |            |
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| 申请号            | EP2006115788                                                                | 申请日     | 2006-06-21 |
| [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DISPLAY CO. , LTD.                                                        |         |            |
| [标]发明人         | HWANG EUI HOON SAMSUNG SDI CO LTD<br>LEE SANG GUL SAMSUNG SDI CO LTD        |         |            |
| 发明人            | HWANG, EUI-HOON SAMSUNG SDI CO.,LTD.<br>LEE, SANG-GUL SAMSUNG SDI CO., LTD. |         |            |
| IPC分类号         | H01L51/56 H01L27/32                                                         |         |            |
| CPC分类号         | H01L27/3276 H01L27/3244 H01L51/5218 H01L51/56 H01L2251/5315                 |         |            |
| 代理机构(译)        | hengelhaupt , Jürgen                                                        |         |            |
| 优先权            | 1020050054165 2005-06-22 KR                                                 |         |            |
| 其他公开文献         | EP1737056A2<br>EP1737056B1                                                  |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                                   |         |            |

# 摘要(译)

提供一种有机发光显示装置 ( OLED ) 及其制造方法。当同时形成金属互连 ( 220 ) 和栅电极 ( 210,215 ) 时或者当形成第一电极 ( 290 ) 时，形成用于电连接元件的互连。因此，可以减少使用的掩模的数量，从而可以缩短整个制造工艺并且可以降低生产成本。

FIG. 2H

