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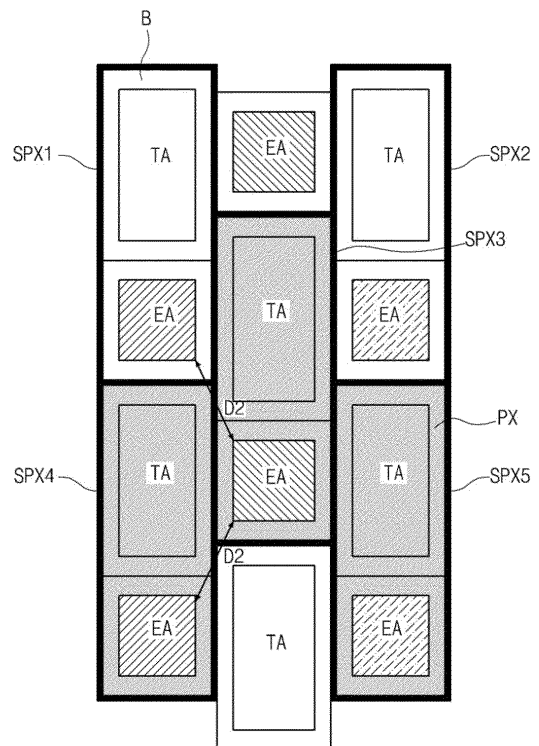
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(54) **Organic light emitting diode display device**

(57) An organic light emitting diode display device includes a plurality of pixels (PX) each including a plurality of sub-pixels (SPX3, SPX4, SPX5), the plurality of sub-pixels in each pixel arranged along a first direction; and a signal line providing a signal to each of the plurality of sub-pixels, wherein each of the plurality of sub-pixels includes an emission part (EA) and a transparent part (TA) arranged along a second direction being perpendicular to the first direction, and the emission part is connected to the signal line to receive the signal, and wherein the emission parts in adjacent sub-pixels along the first direction are arranged in a checkerboard pattern.

**FIG. 2**





## EUROPEAN SEARCH REPORT

Application Number  
EP 14 17 6911

| 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 2013/154910 A1 (CHU SHANG-CHIEH [TW] ET AL) 20 June 2013 (2013-06-20)      | 1,4,8                            | INV.<br>H01L27/32                       |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * figure 5 *                                                                  | 2,3,5,6,                         |                                         |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * paragraphs [0034], [0039] *                                                 | 9,10,<br>12-15<br>7,11           |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | US 2012/267611 A1 (CHUNG JIN-KOO [KR] ET AL) 25 October 2012 (2012-10-25)     | 2,3,5,6,<br>9,10,12              |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * figures 4a,4b,5,9a,9b,10 *                                                  |                                  |                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | * paragraphs [0006], [0008], [0053], [0062], [0077], [0078], [0086] *         |                                  |                                         |
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| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                               |                                  | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               |                                  | H01L                                    |
| Place of search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                               | Date of completion of the search | Examiner                                |
| The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               | 23 January 2015                  | De Laere, Ann                           |
| CATEGORY OF CITED DOCUMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                               |                                  |                                         |
| <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p> |                                                                               |                                  |                                         |

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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.  
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|----------------|-----------------------------------------------------------|---------|------------|
| 专利名称(译)        | 有机发光二极管显示装置                                               |         |            |
| 公开(公告)号        | <a href="#">EP2840611A3</a>                               | 公开(公告)日 | 2015-03-11 |
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| 优先权            | 1020130098906 2013-08-21 KR                               |         |            |
| 其他公开文献         | EP2840611A2<br>EP2840611B1                                |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                 |         |            |

#### 摘要(译)

有机发光二极管显示装置包括多个像素 (PX)，每个像素包括多个子像素 (SPX3, SPX4, SPX5)，每个像素中的多个子像素沿第一方向排列;信号线，向多个子像素中的每一个提供信号，其中多个子像素中的每一个包括发射部分 (EA) 和沿垂直于第一方向的第二方向布置的透明部分 (TA) 发射部分连接到信号线以接收信号，并且其中沿第一方向的相邻子像素中的发射部分以棋盘图案排列。

