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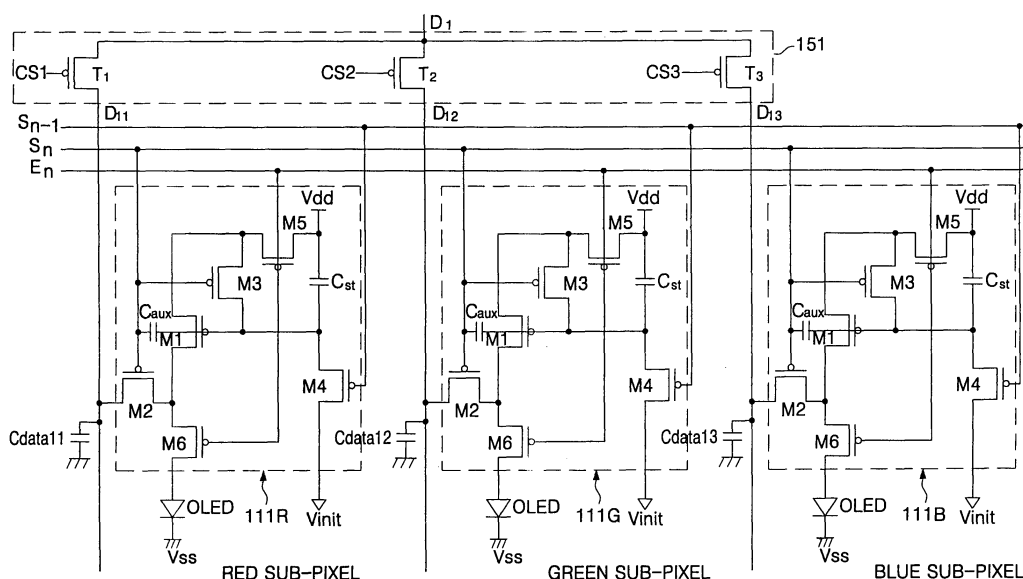
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(54) **Organic light emitting display (OLED)**

(57) An Organic Light Emitting Display (OLED) that is capable of decreasing the number of output lines for a data driver using a demultiplexer, displaying an image with uniform brightness, and adjusting white balance includes: a plurality of red, green and blue sub-pixels, and each sub-pixel is provided with an auxiliary capacitor to compensate a decreased driving voltage. The respective

auxiliary capacitors are different in capacitance according to emission efficiency of the red, green and blue sub-pixels. The auxiliary capacitor of the green sub-pixel has a larger capacitance than the auxiliary capacitor of the red sub-pixel, and the auxiliary capacitor of the red sub-pixel has a larger capacitance than the auxiliary capacitor of the blue sub-pixel. This enables the white balance to be adjusted with the same data voltage.

**FIG. 5**





| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                         |                                  |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Citation of document with indication, where appropriate, of relevant passages                                                                                                                                                                                           | Relevant to claim                | CLASSIFICATION OF THE APPLICATION (IPC) |
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| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                         |                                  |                                         |
| Place of search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                         | Date of completion of the search | Examiner                                |
| The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                         | 28 May 2008                      | Ladiray, Olivier                        |
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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 06 25 4299

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|----------------|---------------------------------------------------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 有机发光显示器 ( OLED )                                                                                                    |         |            |
| 公开(公告)号        | <a href="#">EP1755104A3</a>                                                                                         | 公开(公告)日 | 2008-07-02 |
| 申请号            | EP2006254299                                                                                                        | 申请日     | 2006-08-16 |
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| CPC分类号         | G09G3/3233 G09G3/3291 G09G2300/0819 G09G2300/0852 G09G2310/0297 G09G2320/0238 G09G2320/043 G09G2320/0666 H01L27/326 |         |            |
| 优先权            | 1020050074865 2005-08-16 KR                                                                                         |         |            |
| 其他公开文献         | EP1755104A2<br>EP1755104B1                                                                                          |         |            |
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#### 摘要(译)

有机发光显示器 ( OLED ) 能够使用多路分解器减少数据驱动器的输出线数量, 显示具有均匀亮度的图像, 以及调整白平衡包括: 多个红色, 绿色和蓝色子像素每个子像素都设有辅助电容, 以补偿降低的驱动电压。根据红色, 绿色和蓝色子像素的发射效率, 各个辅助电容器的电容不同。绿色子像素的辅助电容器具有比红色子像素的辅助电容器大的电容, 并且红色子像素的辅助电容器具有比蓝色子像素的辅助电容器更大的电容。这样可以使用相同的数据电压调整白平衡。

FIG. 5

