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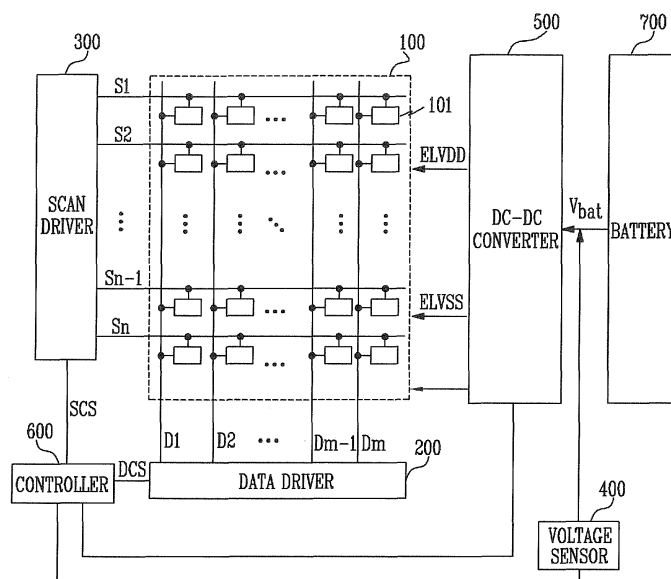
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(54) **DC-DC converter and organic light emitting display device using the same**

(57) A DC-DC converter and an organic light emitting display device using the same. Here, a DC-DC converter (500) is provided with a voltage sensor (400) for sensing a battery voltage outputted from a battery (700). A regulator (510) receives the battery voltage from the battery (700). When the battery voltage is a set value or less, the regulator (510) is stopped from bypassing the battery

voltage. When the voltage of the inputted power source exceeds the set value, the regulator (510) is driven to lower the battery voltage. When the battery voltage is the set value or less, a controller (600) controls the driving of the regulator (510). A power generator receives the regulated battery voltage to output a first pixel power source and a second pixel power source.

FIG. 2





## EUROPEAN SEARCH REPORT

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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                    |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |                                         |
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| The present search report has been drawn up for all claims                                                                                                                                                                                             |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                       |                                         |
| Place of search<br>The Hague                                                                                                                                                                                                                           |                                                                                                                                                                                                   | Date of completion of the search<br>18 July 2011                                                                                                                                                                                                                                      | Examiner<br>Lochhead, Steven            |
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|----------------|------------------------------------|---------|------------|
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| 优先权            | 1020090110784 2009-11-17 KR        |         |            |
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# 摘要(译)

DC-DC转换器和使用其的有机发光显示装置。这里，DC-DC转换器（500）设置有电压传感器（400），用于感测从电池（700）输出的电池电压。调节器（510）从电池（700）接收电池电压。当电池电压是设定值或更小时，调节器（510）停止绕过电池电压。当输入电源的电压超过设定值时，调节器（510）被驱动以降低电池电压。当电池电压是设定值或更小时，控制器（600）控制调节器（510）的驱动。发电机接收经调节的电池电压以输出第一像素电源和第二像素电源。

