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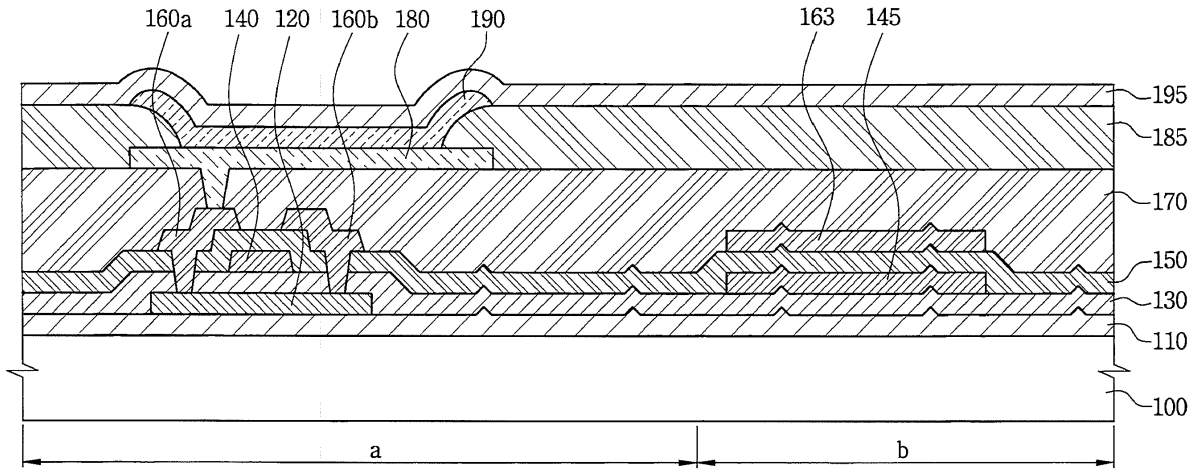
(54) **Organic light emitting diode display device and method of fabricating the same**

(57) An organic light emitting diode (OLED) display device and a method of fabricating the same are provided. The OLED display device includes a substrate having a thin film transistor region and a capacitor region, a buffer layer disposed on the substrate, a gate insulating layer disposed on the substrate, a lower capacitor electrode disposed on the gate insulating layer in the capacitor region, an interlayer insulating layer disposed on the substrate, and an upper capacitor electrode disposed on the interlayer insulating layer and facing the lower capacitor

electrode, wherein regions of each of the buffer layer, the gate insulating layer, the interlayer insulating layer, the lower capacitor electrode, and the upper capacitor electrode have surfaces in which protrusions having the same shape as grain boundaries of the semiconductor layer are formed. The resultant capacitor has an increased surface area, and therefore, an increased capacitance.

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FIG. 1G





EUROPEAN SEARCH REPORT

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X	JP H07 13196 A (TOSHIBA CORP) 17 January 1995 (1995-01-17)	1-6,8-15		
Y	* abstract; figure 1 *	7		
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Y	* paragraph [0018] - paragraph [0026]; figures 4-6 *	7		
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	* page 8, line 35 - page 9, line 5; figure 4 *			H01L G02F
The present search report has been drawn up for all claims				
Place of search Munich		Date of completion of the search 24 February 2014	Examiner Bernabé Prieto, A	
CATEGORY OF CITED DOCUMENTS		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		
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				

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ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	有机发光二极管显示装置及其制造方法		
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外部链接	Espacenet		

摘要(译)

提供了一种有机发光二极管 (OLED) 显示装置及其制造方法。 OLED显示装置包括具有薄膜晶体管区域和电容器区域的基板，设置在基板上的缓冲层，设置在基板上的栅极绝缘层，设置在电容器区域中的栅极绝缘层上的下电容器电极，层间绝缘层设置于基板上，上层电容器电极设置于层间绝缘层上且面向下层电容器电极，其中缓冲层，栅极绝缘层，层间绝缘层，下电容器电极各自的区域上电容器电极具有这样的表面，其中形成具有与半导体层的晶界相同形状的突起。所得到的电容器具有增大的表面积，因此增加了电容。

FIG. 1G

