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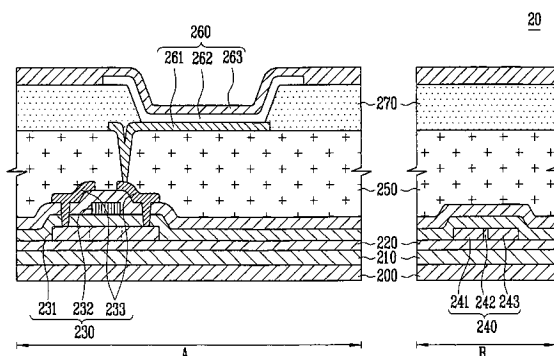
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(54) **Organic light-emitting display device**

(57) An organic light emitting display device (20), which has a photo diode (240) for receiving light of blue wavelengths. In one embodiment, an organic light emitting display device includes: a substrate (200) having pixel (A) and non-pixel regions (8); first (210) and second buffer layers (220) disposed over the substrate; a thin film transistor (TFT) (230) disposed over the second buffer layer; an organic light emitting diode (260) disposed in the pixel region over the TFT and electrically connected with the TFT; and a photo diode (240) disposed on the second buffer layer in the non-pixel region and adapted to receive incident light of blue wavelength from an external source. A thickness of the first buffer layer (210) ranges from 700 to 900 Å, and a thickness of the second buffer layer (220) ranges from 500 to 700 Å. The photo diode (240) includes N-type (241) and P-type doping regions (243) and an intrinsic region (242) having a width ranging from 1 to 10 µm.

FIG. 3





EUROPEAN SEARCH REPORT

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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 The Hague		Date of completion of the search 29 September 2010	Examiner De Laere, Ann
CATEGORY OF CITED DOCUMENTS 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 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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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专利名称(译)	有机发光显示装置		
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摘要(译)

一种有机发光显示装置 (20) , 其具有用于接收蓝色波长的光的光电二极管 (240) 。 在一个实施例中, 有机发光显示装置包括: 具有像素 (A) 和非像素区域 (8) 的基板 (200) ; 第一 (210) 和第二缓冲层 (220) 设置在基板上; 薄膜晶体管 (TFT) (230) 设置在第二缓冲层上方; 有机发光二极管 (260) , 设置在TFT上方的像素区域中并与TFT电连接; 光电二极管 (240) 设置在非像素区域中的第二缓冲层上, 并适于从外部源接收蓝色波长的入射光。第一缓冲层 (210) 的厚度范围为700至900埃, 第二缓冲层 (220) 的厚度范围为500至700埃。光电二极管 (240) 包括N型 (241) 和P型掺杂区 (243) 以及宽度范围为1至10 μ m的本征区 (242) 。

