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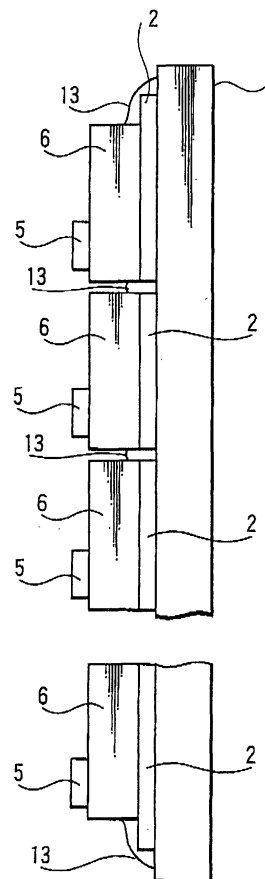
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(54) **Direct-view-type display apparatus**

(57) An organic EL display with a big screen can be realized, a fabrication work can be simplified, a manufacturing cost can be reduced, a periodicity with which pixels are arrayed on the whole of the screen can be maintained after the manufacturing, a picture quality can be prevented from being deteriorated due to a boundary between transparent substrates and high resolution can be realized. A plurality of organic thin-film EL elements (2) are formed on a single transparent substrate (1). Circuit substrates (5) in which driver circuits (6) for supply signals to signal electrodes and scanning electrodes of the elements (2) are mounted are closely bonded to the respective elements (2). The circuit substrate (5) is made of a material having end-sealing property and has through-holes bored at its positions opposing to the signal electrode and the scanning electrode. The through-holes are buried by a material having end-sealing property and conductivity. Signals are supplied from the driver circuit (6) to the signal electrode and the scanning electrode through the material having end-sealing property and conductivity. The organic EL element (2) is covered at its portion which is not bonded to the circuit substrate (5) by an end-sealing material. A cross-sectional side view showing an example of an arrangement of a display unit in which the organic thin-film EL element is formed as a unit.

FIG. 3





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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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Y	* page 8, line 31 - line 36 * * page 18, line 34 - page 20, line 7; figure 5 * * page 25, line 24 - line 26 *	4	
X	----- US 5 747 928 A (SHANKS ET AL) 5 May 1998 (1998-05-05) * abstract * * column 2, line 23 - line 26 * * column 7, line 5 - line 29 * * column 7, line 64 - column 8, line 8 *	1,2	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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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 2 November 2005	Examiner Bakos, T
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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摘要(译)

可以实现具有大屏幕的有机EL显示器，可以简化制造工作，可以降低制造成本，在制造之后可以保持在整个屏幕上排列像素的周期性，图像质量可以实现防止由于透明基板之间的边界而导致的劣化和高分辨率。在单个透明基板(1)上形成多个有机薄膜EL元件(2)。其中安装有用于向信号电极提供信号的驱动电路(6)和元件(2)的扫描电极的电路基板(5)紧密地连接到相应的元件(2)。电路基板(5)由具有端部密封性的材料制成，并且具有在与信号电极和扫描电极相对的位置处钻出的通孔。通孔由具有端部密封性和导电性的材料掩埋。信号从驱动电路(6)通过具有端部密封性和导电性的材料提供给信号电极和扫描电极。有机EL元件(2)在其未通过端部密封材料粘合到电路基板(5)的部分处被覆盖。图2是表示将有机薄膜EL元件作为一个单元形成的显示单元的配置的一个例子的截面侧视图。

FIG. 3

