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(54) **Organic light emitting diode display device having a two-sided substrate and method of forming the same**

(57) A display device (10) built on an insulating substrate (12) suitable for processing on both sides that includes a plurality of conductive through-holes (20) through the substrate (12). One side is reserved for a high-density array (14) of organic light emitting diodes (OLEDs). The OLEDs can be high-density because the electrical connections for the OLEDs are on the other

side of the substrate (12) and interconnected via the conductive through-holes (20). The cathode sides (26) of the OLEDs are interconnected by a light transmitting layer (28) overlaying the cathode side that is electrical conductive. On the side of the substrate (12) opposite the OLEDs is an array of anode contacts (32) configured to form an electrical contact with a driver circuit (34).

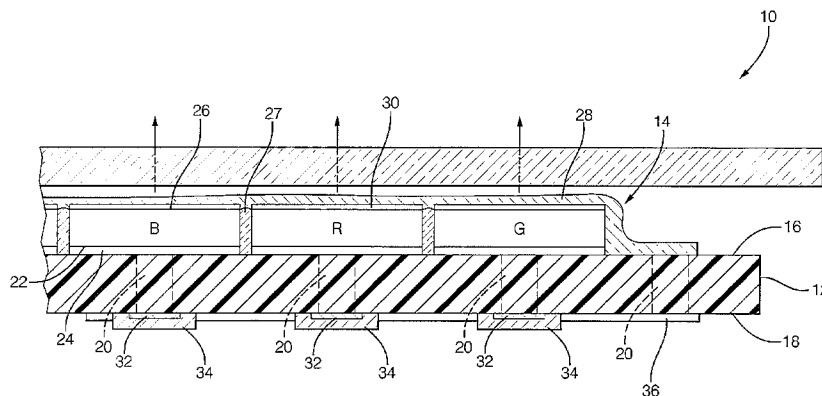


FIG. 1

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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 2006 092809 A (VICTOR COMPANY OF JAPAN) 6 April 2006 (2006-04-06)	1,2,4,5, 7-9	INV. H01L27/32
Y	* paragraphs [0009], [0011], [0014], [0015], [0018], [0019], [0021]; figures 1,2,5 * * paragraphs [0025] - [0028], [0038], [0040], [0041] - [0049] *	3,6	
X	JP 2008 008963 A (TOPPAN PRINTING CO LTD) 17 January 2008 (2008-01-17)	1,4,5, 7-9	TECHNICAL FIELDS SEARCHED (IPC)
Y	* paragraphs [0006] - [016,]; figures 1,2 *		
X	US 2003/168969 A1 (TANABE TAKAHISA [JP]) 11 September 2003 (2003-09-11)	1,2,5,7, 9	H01L
Y	* paragraphs [0010] - [0012], [0021] - [0025]; figure 2 *	1-3,5-7	
X	US 6 633 134 B1 (KONDO YUJI [JP] ET AL) 14 October 2003 (2003-10-14)	1,3,5-7	
Y	* columns 2,3,4; figures 5,11 *	3,6	
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	* columns 5,6; figure 8 *		
A	JP 2005 166691 A (SANYO ELECTRIC CO) 23 June 2005 (2005-06-23)	1-9	
	* abstract; figure 1 *		
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 15 October 2012	Examiner Faou, Marylène
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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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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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)	具有双面基板的有机发光二极管显示装置及其形成方法		
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其他公开文献	EP2472583A2		
外部链接	Espacenet		

摘要(译)

一种显示装置 (10) , 其构建在适于在两侧上进行处理的绝缘基板 (12) 上, 所述显示装置包括穿过所述基板 (12) 的多个导电通孔 (20) 。 一侧保留用于有机发光二极管 (OLED) 的高密度阵列 (14) 。 OLED 可以是高密度的, 因为 OLED 的电连接位于基板 (12) 的另一侧并且经由导电通孔 (20) 互连。 OLED 的阴极侧 (26) 通过覆盖阴极侧的透光层 (28) 互连, 该阴极侧是导电的。在与 OLED 相对的基板 (12) 的一侧上是阳极触点 (32) 的阵列, 其配置成与驱动电路 (34) 形成电接触。

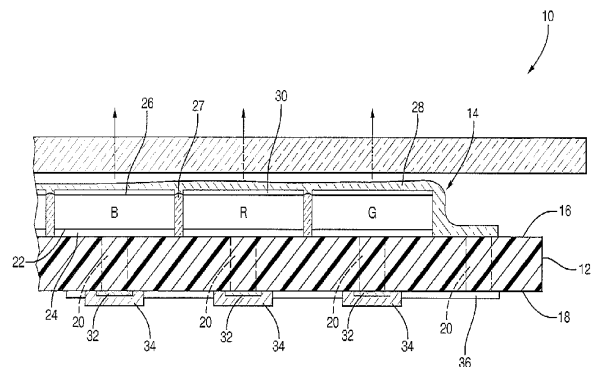


FIG. 1