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(54) **Light-emitting display backplane, display device and manufacturing method of pixel define layer**

(57) The present invention discloses a light-emitting display backplane, a display device and a manufacturing method of a pixel define layer, relates to a field of display, and can ensure that the liquid drops of the luminescent material, which is formed by printing, can be spread within pixel regions, and a situation that the liquid drops may flow into an adjacent pixel region is avoid. A light-emitting display backplane according to the present invention comprises: a substrate (10) and a pixel define layer (11) provided thereon, wherein said pixel define layer comprises: a first photosensitive resin layer (111), a first transparent define layer (112) and a second transparent define layer (113) sequentially provided on said substrate (10)

from bottom to top, each of the first photosensitive resin layer (111), the first define layer (112) and the second define layer (113) is provided with openings corresponding to respective pixels, and the openings in said second define layer (113) are smaller than those (L) in both said first define layer and said first photosensitive resin layer, so as to form luminescent material filling regions which are wider at bottom and narrower at top. The present invention is used to improve techniques of forming films by printing, so that the liquid drops of the luminescent material can be spread within the pixel region, and light-emitting quality of the light-emitting display backplane is thus improved.

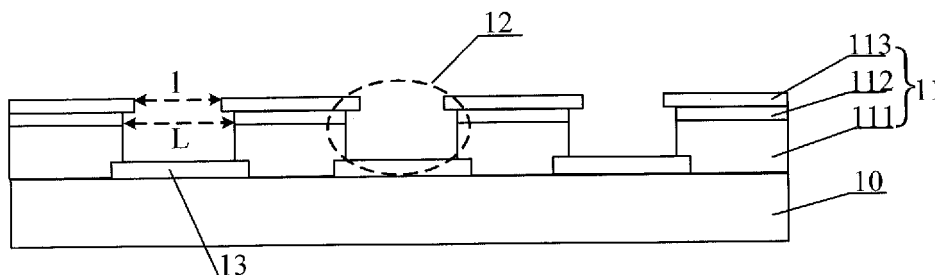


Figure 2



EUROPEAN SEARCH REPORT

Application Number  
EP 13 19 0699

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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)
Y	JP 2007 220656 A (TOPPAN PRINTING CO LTD) 30 August 2007 (2007-08-30) * paragraph [0083] - paragraph [0090]; figure 5 * * paragraph [0001] *	1-14	INV. H01L27/32
Y	----- JP 2003 007460 A (SONY CORP) 10 January 2003 (2003-01-10) * paragraph [0024] - paragraph [0026]; figures 2,3 * * paragraph [0029] - paragraph [0030] * * paragraph [0001] * * paragraph [0044] * -----	1-14	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01L
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>21 November 2017</b>	Examiner <b>Beierlein, Udo</b>
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	

EPO FORM 1503 03 02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 13 19 0699

5 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.

21-11-2017

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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)	发光显示器背板，显示装置和像素定义层的制造方法		
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代理机构(译)	COHAUSZ & FLORACK		
优先权	201210455346.1 2012-11-13 CN		
其他公开文献	EP2731139A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明公开了一种发光显示器背板，显示装置及像素限定层的制造方法，涉及显示领域，可以保证通过印刷形成的发光材料的液滴能够在像素区域内扩散，并且避免液滴可能流入相邻像素区域的情况。根据本发明的发光显示器背板包括：基板（10）和设置在其上的像素限定层（11），其中所述像素限定层包括：第一光敏树脂层（111），第一透明限定层（112）和从底部到顶部依次设置在所述基板（10）上的第二透明限定层（113），第一光敏树脂层（111），第一限定层（112）和第二限定层（113）中的每一个具有对应于各个像素的开口，并且所述第二限定层（1）中的开口小于所述第一限定层和所述第一光敏树脂层中的那些（L），以形成发光材料填充区域。底部较宽，顶部较窄。本发明用于改进通过印刷形成薄膜的技术，使得发光材料的液滴可以在像素区域内扩散，从而提高了发光显示器背板的发光质量。

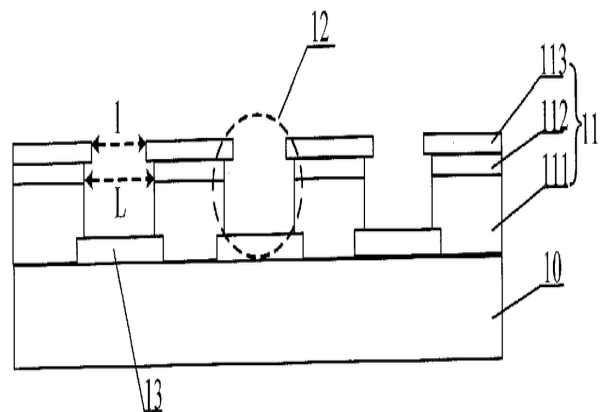


Figure 2