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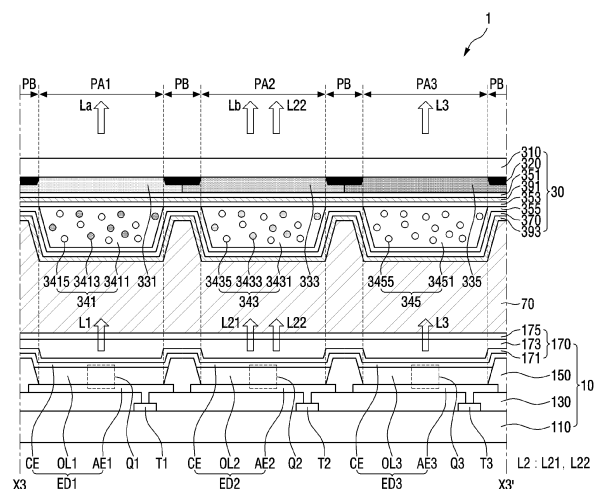
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(54) **DISPLAY DEVICE**

(57) A display device includes first (PA1) and second (PA2) light emitting regions; first (AE1) and second (AE2) pixel electrodes in the first and second light emitting regions, respectively; a first organic layer (OL1) in the first light emitting region, including first (EL11) and second (EL12) light emitting layers; a second organic layer (OL2) in the second light emitting region, including a third light emitting layer (EL13); a common electrode (CE) on the first and second organic layers; a wavelength conversion pattern (341) on the common electrode, overlapping the first organic layer, and wavelength-converting light of a first color into light of a second color, different from the first color; and a light transmitting pattern (345) on the common electrode, overlapping the second organic layer. The third light emitting layer and one of the first and second light emitting layers emit light of the first color, and another one of the first and second light emitting layers emits light of the second color.

**FIG. 4**



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**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.  
This report shall be considered, for the purposes of subsequent proceedings, as the 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	US 2016/293676 A1 (KOMATSU TAKAHIRO [JP]) 6 October 2016 (2016-10-06)	1,2,7	INV. H01L27/32 H01L51/52
Y	* figure 1 * * paragraph [0056] - paragraph [0060] * * paragraph [0110] * * paragraph [0108] *	3,4,8, 10-12	
X	EP 3 355 357 A1 (SAMSUNG DISPLAY CO LTD [KR]) 1 August 2018 (2018-08-01) * figures 1,5 * * paragraph [0062] - paragraph [0063] * * paragraph [0079] * * paragraph [0086] * * paragraph [0099] - paragraph [0100] *	1,9	
Y	US 2018/190921 A1 (LIAO CHINLUNG [CN]) 5 July 2018 (2018-07-05) * paragraph [0037]; figure 3 *	3,4	
Y	US 2017/269435 A1 (YOON SEONTAE [KR] ET AL) 21 September 2017 (2017-09-21) * figure 6 * * paragraph [0125] - paragraph [0126] *	8	TECHNICAL FIELDS SEARCHED (IPC) H01L
<p><b>INCOMPLETE SEARCH</b></p> <p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>			
Place of search Munich		Date of completion of the search 9 April 2020	Examiner Beierlein, Udo
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p>		<p>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 &amp; : member of the same patent family, corresponding document</p>	

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EPO FORM 1503 08.82 (P04C10) 2

**INCOMPLETE SEARCH  
SHEET C**Application Number  
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Claim(s) completely searchable:  
1-12

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Claim(s) not searched:  
13-15

Reason for the limitation of the search:

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The present application contains two independent device claims. There is no clear distinction between the independent claims because of overlapping scope. There are so many claims and they are drafted in such a way that the claims as a whole do not comply with the provisions of clarity and conciseness in Article 84 EPC, as it is particularly burdensome for a skilled person to establish the subject-matter for which protection is sought. Non-compliance with the substantive provisions is such that a meaningful search of the whole claimed subject-matter can not be carried out (Rule 63 EPC and Guidelines B-VIII, 3).

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

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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  
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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IPC分类号	H01L27/32 H01L51/52		
CPC分类号	H01L27/3209 H01L27/3213 H01L27/322 H01L51/5262 H01L27/3206 H01L27/3246 H01L51/5044 H01L51/5268 H01L51/5284 H01L2251/5369 H01L27/32 H01L27/3241 H01L51/5036 H01L51/5084 H01L51/5237 H01L51/5275 H01L2251/303		
优先权	1020180110906 2018-09-17 KR		
其他公开文献	EP3624199A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

一种显示装置，包括第一（PA1）和第二（PA2）发光区域。第一和第二发光区域中的第一（AE1）和第二（AE2）像素电极；在第一发光区域中的第一有机层（OL1），包括第一（EL11）和第二（EL12）发光层；在第二发光区域中的第二有机层（OL2），包括第三发光层（EL13）；第一和第二有机层上的公共电极（CE）；在公共电极上的波长转换图案（341），与第一有机层重叠，并且将第一颜色的波长转换为第二颜色的光，该第二颜色不同于第一颜色。以及在公共电极上与第二有机层重叠的透光图案（345）。第三发光层以及第一和第二发光层之一发射第一颜色的光，并且第一和第二发光层中的另一个发射第二颜色的光。

FIG. 4

