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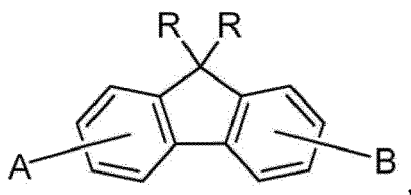
(71) Applicant: **LG Display Co., Ltd.**
Yeongdeungpo-gu
Seoul
150-721 (KR)

(72) Inventors:
• **Song, In-Bum**
157-763 Seoul (KR)
• **Chae, Gee-Sung**
406-840 Incheon (KR)
• **Yang, Joong-Hwan**
423-739 Gwangmyeong-si, Gyeonggi-do (KR)
• **Bae, Suk-Young**
138-220 Seoul (KR)
• **Kim, Chun-Ki**
412-220 Goyang-si, Gyeonggi-do (KR)

(74) Representative: **Viering, Jentschura & Partner**
Patent- und Rechtsanwälte
Am Brauhaus 8
01099 Dresden (DE)

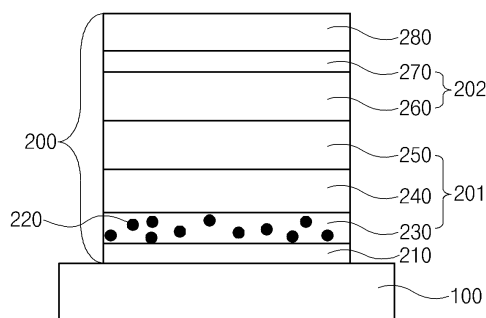
(54) **Organic compound and organic light emitting diode using the same**

(57) Discussed is an organic compound of Formula:



wherein R is substituted or non-substituted C1 to C12 alkyl, and A and B are symmetrically or asymmetrically positioned in 2-position or 7-position of the fluorene core, and wherein each of A and B is independently selected from substituted or non-substituted aromatic group or substituted or non-substituted heterocyclic group.

FIG. 2





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

EP 14 19 5144

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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 2010/051914 A1 (HWANG SEOK-HWAN [JP] ET AL) 4 March 2010 (2010-03-04) * example 1; compound 2 * -----	1,4,5,14	INV. C09K11/06 H05B33/14 H01L51/00 H01L51/50
X	US 2011/017983 A1 (MIZUKI YUMIKO [JP] ET AL) 27 January 2011 (2011-01-27) * example 5 * * compound B *	1,14	
X	US 2008/014464 A1 (KAWAMURA MASAHIRO [JP] ET AL) 17 January 2008 (2008-01-17) * example 1 * * compounds A-10 * * paragraph [0040] - paragraph [0042] * * paragraph [0076] * * paragraph [0091] - paragraph [0092] * -----	1-3,14	
X	WO 2011/152477 A1 (CANON KK [JP]; KAMATANI JUN [JP]; YAMADA NAOKI [JP]; KISHINO KENGO [JP]) 8 December 2011 (2011-12-08) * paragraph [0150] - paragraph [0156] * * compounds G-12 * -----	1,14	
			TECHNICAL FIELDS SEARCHED (IPC)
			C09K H05B
INCOMPLETE SEARCH			
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.			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		13 July 2015	Poole, Robert
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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INCOMPLETE SEARCH
SHEET CApplication Number
EP 14 19 5144

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Claim(s) completely searchable:
1-5, 14

Claim(s) not searched:
6-13, 15

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Reason for the limitation of the search:

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Claims 1,6 and 10 have been drafted as separate independent claims. Under Article 84 in combination with Rule 43(2) EPC, an application may contain more than one independent claim in a particular category only if the subject-matter claimed falls within one or more of the exceptional situations set out in paragraph (a), (b) or (c) of Rule 43(2) EPC. This is not the case in the present application, however, for the following reasons:

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(i) the exceptions of Rule 43(2)(a) and Rule 43(2)(b) clearly do not apply because present claims 1,6 and 10 do not relate to interrelated products, or to uses of a product or apparatus.

(ii) given the overlap and similarities in the features of claims 1, 6 and 10, it would have been entirely appropriate to cover the subject-matter of the organic electroluminescent device with a single independent claim with dependent claims as necessary; thus, regardless of whether the subject-matter of claims 1,6 and 10 are alternate solutions to a particular problem, the requirements of Rule 43(2)(c) are nevertheless not met (see also GL F-IV, 3.2).

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In view of the above, the scope of the present search and search opinion is limited to the subject-matter of present claims 1-5 and 14.

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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

专利名称(译)	有机化合物和使用其的有机发光二极管		
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申请号	EP2014195144	申请日	2014-11-27
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG DISPLAY CO. , LTD.		
当前申请(专利权)人(译)	LG DISPLAY CO. , LTD.		
[标]发明人	SONG IN BUM CHAE GEE SUNG YANG JOONG HWAN BAE SUK YOUNG KIM CHUN KI		
发明人	SONG, IN-BUM CHAE, GEE-SUNG YANG, JOONG-HWAN BAE, SUK-YOUNG KIM, CHUN-KI		
IPC分类号	C09K11/06 H05B33/14 H01L51/00 H01L51/50		
CPC分类号	C07D209/86 C07D307/91 C07D333/76 C07D405/10 C07D409/10 C07D471/04 C07D519/00 C07F7/081 C07F7/0812 C09K11/06 C09K2211/1029 C09K2211/1033 C09K2211/1037 C09K2211/1088 C09K2211/1092 H01L51/0072 H01L51/0073 H01L51/0074 H01L51/5016 H01L2251/30 C09B57/00 C09B57/008 C09B69/008 C09K2211/1044 C09K2211/1077 C09K2211/1081 H05B33/14 H01L51/005 H01L51/0052 H01L51/006 H01L51/0061 H01L51/0094 H01L51/5004 H01L51/5012 H01L51/5056 H01L51/5088 H01L2251/552		
审查员(译)	普尔ROBERT		
优先权	1020130150833 2013-12-05 KR 1020140089253 2014-07-15 KR		
其他公开文献	EP2881446A2 EP2881446B1		
外部链接	Espacenet		

摘要(译)

讨论了下式的有机化合物：其中R是取代或未取代的C1-C12烷基，A和B对称或不对称地位于苧核的2-位或7-位，并且其中A和B各自为“烷基”独立地选自取代或未取代的芳族基团或取代或未取代的杂环基团。

