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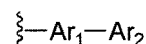
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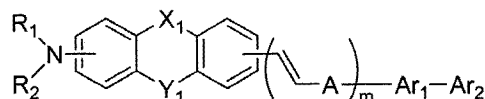
(54) **Aromatic electroluminescent compounds and organic electroluminescent device using the same**

(57) Provided are novel organic electroluminescent compounds, and organic electroluminescent devices and organic solar cells comprising the same. Specifically, the organic electroluminescent compounds according to the invention are **characterized in that** they are represented by Chemical Formula (1) :

wherein, A represents a chemical bond, (C6-C60)arylene or (C2-C60)heteroarylene; provided that total number of carbon atoms in



Chemical Formula 1



-Ar₁-Ar₂ is from 19 to 60.

The organic electroluminescent compounds according to the present invention exhibit high luminous efficiency in blue color, and excellent life property of the material, so that OLED's having very good operation life can be manufactured therefrom.



EUROPEAN SEARCH REPORT

Application Number
EP 09 15 6591

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	CHEN C H ET AL: "Stilbene like carbazole dimer-based electroluminescent materials", TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 62, no. 36, 4 September 2006 (2006-09-04), pages 8564-8570, XP025002592, ISSN: 0040-4020, DOI: DOI:10.1016/J.TET.2006.06.067 [retrieved on 2006-09-04]	1,3-9	INV. C09K11/06 H01L51/50
A	* Abstract; page 8564; figure 8565; table 1; compound 2 *	2	
X	US 2003/052311 A1 (INAGAKI YOSHIO [JP] ET AL) 20 March 2003 (2003-03-20) * page 3 - page 7 *	1,3	
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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 14 February 2011	Examiner Mehdaoui, Imed
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
ON EUROPEAN PATENT APPLICATION NO.**

EP 09 15 6591

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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14-02-2011

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专利名称(译)	芳族电致发光化合物和使用其的有机电致发光器件		
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CPC分类号	C09K11/06 C09B57/008 C09B57/10 C09K2211/1007 C09K2211/1011 C09K2211/1029 C09K2211/1044 C09K2211/1048 C09K2211/1051 C09K2211/1088 C09K2211/1092 C09K2211/1096 C09K2211/185 C09K2211/186 C09K2211/188 H01L51/0058 H01L51/006 H01L51/5012 Y02E10/52 Y02E10/549		
优先权	1020080107256 2008-10-30 KR		
其他公开文献	EP2182039A2		
外部链接	Espacenet		

摘要(译)

本发明提供了新型有机电致发光化合物，以及包含该化合物的有机电致发光器件和有机太阳能电池。具体地，根据本发明的有机电致发光化合物的特征在于它们由化学式(1)表示：其中，A表示化学键，(C6-C60)亚芳基或(C2-C60)亚杂芳基；条件是-Ar1-Ar2中的碳原子总数为19-60。根据本发明的有机电致发光化合物显示出高的蓝色发光效率和优异的材料寿命性能，因此OLED具有非常好的操作性能。生活可以由此制造。

