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(54) **Material for organic electroluminescent devices and organic electroluminescent devices
made by using the same**

(57) A phosphorescence device comprising an anode, a cathode and an organic thin film layer comprising at least one layer which is disposed between the anode and the cathode. The at least one layer in the organic thin film layer comprises a material comprising a compound in which a heterocyclic group having nitrogen is

bonded to an arylcarbazolyl group or a carbazolyalkylene group. The material can provide a phosphorescence device emitting bluish light with a high purity of color.

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EUROPEAN SEARCH REPORT

Application Number
EP 08 15 6371

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
E	WO 03/079736 A (ISIS) 25 September 2003 (2003-09-25) * the whole document * * compounds 2, 3, 10, 11, 14, 21 * * abstract * -----	1-18	INV. C09K11/06 H05B33/14 H05B33/22 C07D401/10 C07D403/10
X	JP 2001 247858 A (FUJI PHOTO FILM CO LTD) 14 September 2001 (2001-09-14) * compounds 2, 3, 10, 11, 14, 21 * * abstract * -----	1-18	C07D401/14 C07D403/14 C07D471/04
X	JP 2000 169448 A (MINOLTA CO LTD) 20 June 2000 (2000-06-20) * compounds (5), (10), (11), (16), (21), (27), (33), (39), (45), (51) * * abstract * -----	1-18	
X	JP 2001 192653 A (FUJI PHOTO FILM CO LTD) 17 July 2001 (2001-07-17) * compounds 55, 65, 75, 86-89, 96 * * abstract * -----	1-18	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) C07D C09K H05B
Place of search The Hague		Date of completion of the search 4 January 2011	Examiner Eberhard, Michael
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.**

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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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专利名称(译)	用于有机电致发光器件的材料和使用其制造的有机电致发光器件		
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优先权	PCT/JP2003/003329 2003-03-19 WO 2002299810 2002-10-15 JP 2002081234 2002-03-22 JP		
其他公开文献	EP2169028A2 EP2169028B1		
外部链接	Espacenet		

摘要(译)

一种磷光装置，包括阳极，阴极和有机薄膜层，所述有机薄膜层包括至少一个设置在阳极和阴极之间的层。有机薄膜层中的至少一层包含含有化合物的材料，其中具有氮的杂环基与芳基咔唑基或咔唑基亚烷基键合。该材料可以提供发出带有高纯度颜色的蓝色光的磷光装置。



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE DISCLOSURE (IPC)
E	WO 03/079736 A ([1515]) 25 September 2003 (2003-09-25) * the whole document * * compounds 2, 3, 10, 11, 14, 21 * * abstract *	1-18	INV C09K11/06 H05B33/14 H05B33/22 C07D403/10 C07D403/14 C07D403/14 C07D471/04
X	JP 2001 247858 A (FUJIFILM PHOTO FILM CO LTD) 14 September 2001 (2001-09-14) * compounds 2, 3, 10, 11, 14, 21 * * abstract *	1-18	
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This patent search report has been drawn up for all claims			TECHNICAL FIELD (IPC) C07D C09K H05B
1. The present search report has been drawn up for all claims			
The Hague		4 January 2011	Eberhard, Michael
CLASSIFICATION OF THE DISCLOSURE			
C: primary document A: secondary document P: intermediate document		I: prior art document underlying the invention L: earlier patent document, but published on, or after, the filing date D: document cited for other reasons E: document cited for other reasons	