



(11) **EP 1 359 630 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
27.06.2007 Bulletin 2007/26

(51) Int Cl.:
H01L 51/20 ^(0000.00) **H05B 33/22** ^(2006.01)
C09K 11/06 ^(2006.01) **H01L 51/30** ^(2006.01)

(43) Date of publication A2:
05.11.2003 Bulletin 2003/45

(21) Application number: **03252295.5**

(22) Date of filing: **11.04.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR**
Designated Extension States:
AL LT LV MK

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(30) Priority: **18.04.2002 US 124236**

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(54) **Semiconducting hole injection materials for organic light emitting devices**

(57) The invention is directed to oxidized charge transport materials having hole transport capability in organic light emitting device (OLEDs). A charge transport compound including more than two triarylamine groups, or including at least one triarylamine group and at least

one fluorene group, is partly complexed with an oxidant, such as a Lewis acid, preferably present in an amount between 0.2 and 20 percent by weight. The resulting charge transport materials exhibit good hole transport characteristics and film forming properties

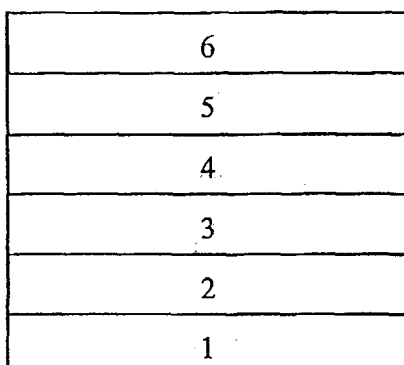


Figure 1

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European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 25 2295

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			C09K H05B H01L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 May 2007	Examiner Nemes, Csaba A.
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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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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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)	用于有机发光器件的半导体空穴注入材料		
公开(公告)号	EP1359630A3	公开(公告)日	2007-06-27
申请号	EP2003252295	申请日	2003-04-11
[标]申请(专利权)人(译)	佳能株式会社		
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IPC分类号	H01L51/20 H05B33/22 C09K11/06 H01L51/30 H01L51/50 H01L51/00		
CPC分类号	H01L51/0095 H01L51/002 H01L51/0059 H01L51/006 H01L51/0094 H01L51/5048 H01L51/5088 Y10S428/917 Y10T428/26		
代理机构(译)	贝雷斯福德KEITH DENIS LEWIS		
优先权	10/124236 2002-04-18 US		
其他公开文献	EP1359630A2		
外部链接	Espacenet		

摘要(译)

本发明涉及在有机发光器件 (OLED) 中具有空穴传输能力的氧化电荷传输材料。包含多于两个三芳基胺基团或包括至少一个三芳基胺基团和至少一个苄基团的电荷传输化合物与氧化剂 (例如路易斯酸) 部分络合, 优选以0.2-20重量%的量存在。。所得电荷传输材料表现出良好的空穴传输特性和成膜性能

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Figure 1