



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	DE 44 28 450 A1 (PHILIPS PATENTVERWALTUNG [DE]) 15 February 1996 (1996-02-15)	1-5,7, 10,11, 15,16 17-22	INV. H01L51/00 H01L51/20
Y	* column 3, line 32 - line 48 * * column 4, line 16 - line 26 * * column 5, line 18 - line 25 * * column 5, line 47 - line 52 * * column 5, line 59 - column 6, line 63 * -----		
X	EP 0 757 088 A2 (TOYO INK MFG CO [JP]) 5 February 1997 (1997-02-05) * page 14, line 2 - line 16 * * page 14, line 44 - line 52 * * example 18 * -----	1,2,4,5, 7,10-18	
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Y	* page 24, line 23 - page 26, line 4 * * page 26, line 24 - line 25 * * page 17, line 11 - line 25 * -----	17-22	
X	LYONS C H ET AL: "Solid-state light-emitting devices based on the trischelated Ruthenium(II) complex. 1. thin film blends with poly(ethylene oxide)" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 120, 4 November 1998 (1998-11-04), pages 12100-12107, XP002190728 ISSN: 0002-7863 * page 12103, column 1, lines 18-21 * * page 12102, column 1, line 9 - line 17 * ----- -/--	1,11,15	H01L H05B C09K
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 2 March 2007	Examiner Pusch, Catharina
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 (P04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
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			TECHNICAL FIELDS SEARCHED (IPC)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 2 March 2007	Examiner Pusch, Catharina
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 (P04C04)

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

EP 02 75 0605

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-03-2007

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专利名称(译)	用于基于蓝色磷光的有机发光二极管的材料和器件		
公开(公告)号	EP1374320A4	公开(公告)日	2007-04-18
申请号	EP2002750605	申请日	2002-03-13
[标]申请(专利权)人(译)	普林斯顿大学 南加利福尼亚大学		
申请(专利权)人(译)	普林斯顿大学的受托人 南加州大学		
当前申请(专利权)人(译)	普林斯顿大学的受托人 南加州大学		
[标]发明人	THOMPSON MARK E FORREST STEPHEN R		
发明人	THOMPSON, MARK, E. FORREST, STEPHEN, R.		
IPC分类号	C09K11/06 H01L51/00 H01L51/30 H01L51/40 H01L51/50 H01L51/20		
CPC分类号	H01L51/002 H01L51/005 H01L51/007 H01L51/0085 H01L51/0087 H01L51/5016 H01L2251/552		
代理机构(译)	华莱士，希拉JANE		
优先权	60/275481 2001-03-14 US		
其他公开文献	EP1374320B1 EP1374320A2		
外部链接	Espacenet		

摘要(译)

OLED包括掺杂有两种掺杂剂的宽间隙惰性主体材料 (40)。掺杂剂之一是发射磷光材料，其可以传输电子或空穴。另一种掺杂剂是电荷携带材料，其可以传输未被磷光掺杂剂传输的任何电子和空穴。选择材料使得主体材料的最低三重态能级和电荷携带掺杂剂材料的最低三重态能级各自处于比磷光掺杂剂材料的最低三重态能级更高的能级。该装置尤其能够有效地发射可见光谱的蓝色区域中的光。

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Y		17-22	TECHNICAL FIELDS SEARCHED (IPC) H01L H05B C09K
X	LYONS C H ET AL: "Solid-state light-emitting devices based on the tris(phenyl) ruthenium(II) complex, 1. thin film blends with poly(ethylene oxide)" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 120, 4 November 1998 (1998-11-04), pages 12100-12107, XP002190728 ISSN: 0002-7863 * page 12103, column 1, lines 18-21 * * page 12102, column 1, line 9 - line 17 * ----- -/-	1, 11, 15	
The supplementary search report has been typed on the last set of sheets valid and available at the start of the search			
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