

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 16 81 7142

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 2006/177695 A1 (RAGINI DAS R [KR] ET AL) 10 August 2006 (2006-08-10) * page 12; example 3 * -----	1-8	INV. C09K11/06 C07F15/00 H01L51/54
			TECHNICAL FIELDS SEARCHED (IPC)
			C07F C09K H01L
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 The Hague		Date of completion of the search 13 April 2018	Examiner Bourghida, E
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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006177695 A1	10-08-2006	CN 1916008 A	21-02-2007
		JP 5066339 B2	07-11-2012
		JP 2006213723 A	17-08-2006
		KR 20060090028 A	10-08-2006
		US 2006177695 A1	10-08-2006

专利名称(译)	可沉积的离子有机功能材料及其在有机电致发光器件中的用途		
公开(公告)号	EP3318617A4	公开(公告)日	2018-05-30
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代理机构(译)	HERRMANN , UWE		
优先权	201510382459.7 2015-07-02 CN		
其他公开文献	EP3318617A1 EP3318617B1		
外部链接	Espacenet		

摘要(译)

本发明涉及具有下式(1)所示结构的可沉积离子有机功能材料：其中，R是氢原子，卤原子或-CF₃；R₃是氢原子或卤原子；N⁺配体选自下式(31)所示的Pzpy及其衍生物，下式(32)所示的Pyim，下式(33)所示的Ptop，下式(34)所示的Pop和下式(35)所示的Bpy：当功能性材料用作发光染料时，合成条件温和且易于进行，产率高，产品易于纯化。功能材料可用于高效蓝色至红色OLED。

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X	US 2006/177695 A1 (RAGINI DAS R [KR] ET AL) 10 August 2006 (2006-08-10) * page 12; example 3 *		
The Supplementary search report has been filed on the last day of the period of opposition of the patent			
The Hague		13 Apr 11 2018	Bourghida, E
CATEGORY OF CITED DOCUMENTS			
1. Document of the same category as the document of the same category		2. Document of the same category as the document of the same category	
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7. Document of the same category as the document of the same category		8. Document of the same category as the document of the same category	
9. Document of the same category as the document of the same category		10. Document of the same category as the document of the same category	