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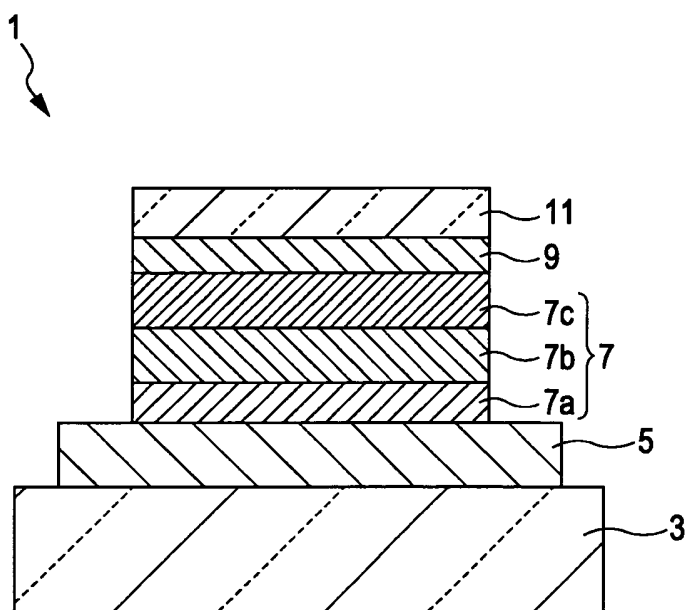
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(54) **Organic electroluminescent element, display, and electronic apparatus**

(57) An organic electroluminescent element includes an electron-transport layer composed of a heterocyclic compound, a negative electrode composed of a metal

material, and a transition-metal-complex layer arranged between the electron-transport layer and the negative electrode.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 10 00 0006

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	EP 1 524 707 A2 (KIDO JUNJI [JP]; INTERNAT MFG AND ENGINEERING S [JP]) 20 April 2005 (2005-04-20) * paragraphs [0031], [0032], [0059], [0063], [0065]; figure 8; example 1 *	1-3,5-9	INV. H01L51/50 H01L51/00
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A	BLOOM C J ET AL: "Low work function reduced metal complexes as cathodes in organic electroluminescent devices", JOURNAL OF PHYSICAL CHEMISTRY. B, MATERIALS, SURFACES, INTERFACES AND BIOPHYSICAL, WASHINGTON, DC, US, vol. 107, no. 13, 3 April 2003 (2003-04-03), pages 2933-2938, XP002317496, ISSN: 1089-5647, DOI: 10.1021/JP026865B * page 2933, column 1, lines 25-32; figures 1,3-5 * * page 2937, column 1, line 5 - column 2, line 35 *	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 January 2012	Examiner Fratiloiu, Silvia
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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EP 10 00 0006

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专利名称(译)	有机电致发光元件，显示器和电子设备		
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当前申请(专利权)人(译)	索尼公司		
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优先权	2009008708 2009-01-19 JP		
其他公开文献	EP2209148A2		
外部链接	Espacenet		

摘要(译)

有机电致发光元件包括由杂环化合物构成的电子传输层，由金属材料构成的负电极，以及布置在电子传输层和负电极之间的过渡金属复合层。

FIG. 1

