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(54) **Organic electroluminescence material and element using the same**

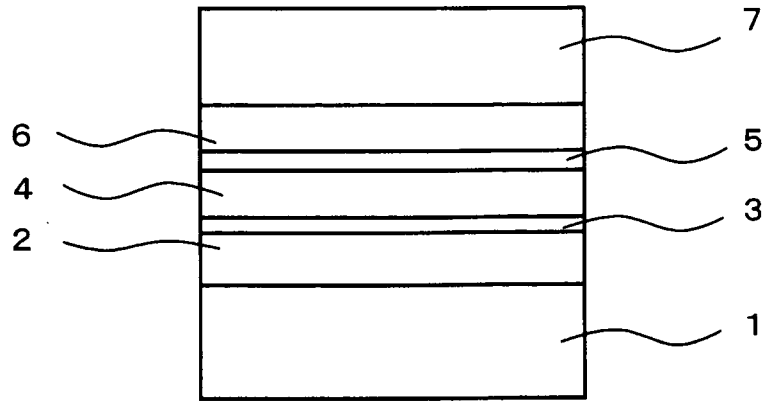
(57) An organic EL element having one or a plurality of organic layers including a light emitting layer between a pair of electrodes is arranged such that at least one layer of the above-mentioned organic layers contains a compound as expressed by the following general formula (1) independently or as a mixture.



(where R₁-R₄ are selected from the group consisting of hydrogen, an alkyl group, a cycloalkyl group, an alkoxy group, a cycloalkoxy group, and an aryloxy group, and they may be the same groups or the groups different from one another, and A₁-A₄ are selected from the group consisting of a phenyl group which is either substituted or unsubstituted and a 5 or 6 member heterocyclic ring group which is either substituted or unsubstituted, and they may be the same groups or the groups different from one another.)

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Fig. 3





EUROPEAN SEARCH REPORT

Application Number
EP 08 02 1922

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The present search report has been drawn up for all claims			
4	Place of search The Hague	Date of completion of the search 12 June 2009	Examiner Ziegler, Jan
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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EUROPEAN SEARCH REPORT

Application Number
EP 08 02 1922

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
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ANNEX TO THE EUROPEAN SEARCH REPORT
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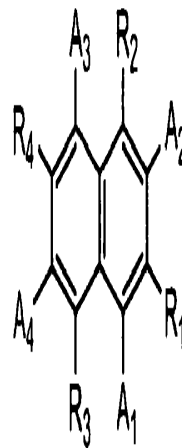
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专利名称(译)	有机电致发光材料和使用它的元件		
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优先权	2008287552 2008-11-10 JP 2007332578 2007-12-25 JP		
其他公开文献	EP2075306A2		
外部链接	Espacenet		

摘要(译)

在一对电极之间具有一个或多个包括发光层的有机层的有机EL元件被布置成使得至少一层上述有机层含有如下通式(1)所示的化合物独立地或作为混合物。(其中R1-R4选自氢, 烷基, 环烷基, 烷氧基, 环烷氧基和芳氧基, 它们可以是相同的基团或彼此不同的基团, A1-A4和A1-A4选自取代或未取代的苯基和取代或未取代的5或6元杂环基, 它们可以是相同的基团或彼此不同的基团。)



... (1)