



European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 63 of the European Patent Convention EP 02 79 0862 shall be considered, for the purposes of subsequent proceedings, as the European search report

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 5 674 597 A (FUJII TAKANORI [JP] ET AL) 7 October 1997 (1997-10-07) * figures 1,2 *	1-13	INV. H05B33/22 H05B33/14
X	----- US 2001/031509 A1 (YAMAZAKI SHUNPEI [JP]) 18 October 2001 (2001-10-18) * figures 3B,4,5A,5B *	1-13	
X	----- WO 97/20355 A (IBM [US]) 5 June 1997 (1997-06-05) Figures	1-13	
A	----- US 2002/027416 A1 (KIM DONG-HYUN [KR] ET AL) 7 March 2002 (2002-03-07) * figures 1-3 *	1-13	
			TECHNICAL FIELDS SEARCHED (IPC)
			H05B H01L
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
INCOMPLETE SEARCH			
The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search Munich		Date of completion of the search 26 March 2008	Examiner Saldamli, Saltuk
CATEGORY OF CITED DOCUMENTS		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	
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			



Claim(s) searched incompletely:
1-13

Claim(s) not searched:
-

Reason for the limitation of the search:

The present claims 1-13 relate to an extremely large number of possible devices. Support and disclosure in the sense of Article 84 and 83 EPC is to be found however for only a very small proportion of the devices claimed, see examples 1-4. The non-compliance with the substantive provisions is to such an extent, that a meaningful search of the whole claimed subject-matter of the claim could not be carried out (Rule 63 EPC and Guidelines B-VIII, 3). The extent of the search was consequently limited; namely, to those devices given in the examples.

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

EP 02 79 0862

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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26-03-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5674597 A	07-10-1997	JP 3249297 B2 JP 8031574 A	21-01-2002 02-02-1996
US 2001031509 A1	18-10-2001	TW 230467 B	01-04-2005
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US 2002027416 A1	07-03-2002	JP 2001313180 A KR 20010092905 A	09-11-2001 27-10-2001

专利名称(译)	有机电致发光元件和有机电致发光显示器		
公开(公告)号	EP1615474A4	公开(公告)日	2008-04-30
申请号	EP2002790862	申请日	2002-12-25
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IPC分类号	H05B33/22 H05B33/14 C09K11/06 H01L51/00 H01L51/50 H01L51/52 H05B33/12		
CPC分类号	C09K11/06 C09K2211/1014 H01L51/0059 H01L51/0081 H01L51/5048 H01L51/5096 H01L51/5278 H05B33/14 Y10S428/917 Y10T428/24942		
其他公开文献	EP1615474A1		
外部链接	Espacenet		

摘要(译)

本发明是一种有机EL器件，其中形成阳极，空穴注入层，第一载流子传输层，第一发光层，第二载流子传输层，第二发光层，电子传输层和阴极在玻璃基板上依次使用具有较小电子亲和力Ea和比第一和第二发光层更大的能隙Eg的层用于第一和第二载流子传输层，以提高发射效率。第一和第二发光层。

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Claims searched incompletely:					
Claims not searched:					
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Place of search Munich		Date of completion of the search 26 March 2008	Examiner Saldamli, Saltuk		
<table border="0"> <tr> <td> <ul style="list-style-type: none"> X: particularly relevant if taken alone Y: particularly relevant if combined with another V: document of the same category A: technological background C: from written description F: intermediate document </td> <td> <ul style="list-style-type: none"> 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 M: member of the same patent family, corresponding document </td> </tr> </table>				<ul style="list-style-type: none"> X: particularly relevant if taken alone Y: particularly relevant if combined with another V: document of the same category A: technological background C: from written description F: intermediate document 	<ul style="list-style-type: none"> 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 M: member of the same patent family, corresponding document
<ul style="list-style-type: none"> X: particularly relevant if taken alone Y: particularly relevant if combined with another V: document of the same category A: technological background C: from written description F: intermediate document 	<ul style="list-style-type: none"> 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 M: member of the same patent family, corresponding document 				