



(11) **EP 1 463 117 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
12.03.2008 Bulletin 2008/11

(51) Int Cl.:
H01L 27/00 ^(2006.01) **H01L 51/20** ^(0000.00)

(43) Date of publication A2:
29.09.2004 Bulletin 2004/40

(21) Application number: **04075861.7**

(22) Date of filing: **17.03.2004**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL LT LV MK

• **Cok, Ronald S.,**
c/o Eastman Kodak Company
Rochester
New York 14650-2201 (FR)

(30) Priority: **28.03.2003 US 401658**

(71) Applicant: **Eastman Kodak Company**
Rochester, New York 14650 (US)

(74) Representative: **Haile, Helen Cynthia et al**
Kodak Limited
Patent Department, W92-3A,
Headstone Drive
Harrow,
Middlesex HA1 4TY (GB)

(72) Inventors:
• **Arnold, Andrew D.,**
c/o Eastman Kodak Company
Rochester
New York 14650-2201 (FR)

(54) **Oled display with photosensor**

(57) An OLED display including: a transparent electrode (30); a reflective electrode (18) having a transparent window (29); a light emissive layer (19) disposed be-

tween the transparent electrode and the reflective electrode; and a photosensor (13) located under the transparent window of the reflective electrode to sense light produced by the light emissive layer.

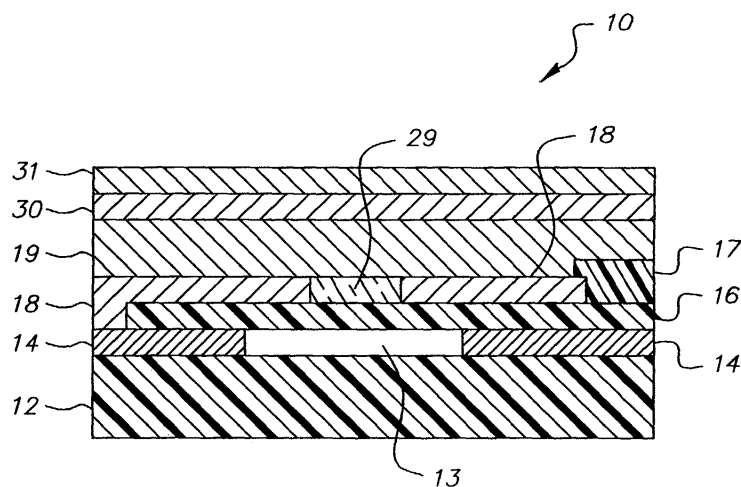


FIG. 1

EP 1 463 117 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 07 5861

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 1 096 466 A (AGILENT TECHNOLOGIES INC [US] AVAGO TECHNOLOGIES ECBU IP SIN [SG]) 2 May 2001 (2001-05-02) * column 9, paragraph 34; figure 6 *	1-12	INV. H01L27/00 H01L51/20
A,D	US 6 489 631 B2 (YOUNG NIGEL D [GB] ET AL) 3 December 2002 (2002-12-03) * columns 7,8; figure 4 *	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01L G09G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 22 January 2008	Examiner Faou, Marylène
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	

1
EPO FORM 1503 03.82 (P04C01)

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

EP 04 07 5861

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.

22-01-2008

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1096466	A	02-05-2001	JP	2001147665	A	29-05-2001
			US	6392617	B1	21-05-2002

US 6489631	B2	03-12-2002	WO	0199191	A1	27-12-2001
			EP	1222691	A1	17-07-2002
			JP	2003536115	T	02-12-2003
			US	2001052597	A1	20-12-2001

专利名称(译)	带光电传感器的Oled显示屏		
公开(公告)号	EP1463117A3	公开(公告)日	2008-03-12
申请号	EP2004075861	申请日	2004-03-17
[标]申请(专利权)人(译)	伊斯曼柯达公司		
申请(专利权)人(译)	伊士曼柯达公司		
当前申请(专利权)人(译)	全球OLED科技有限责任公司		
[标]发明人	COK RONALD S C O EASTMAN KODAK COMPANY		
发明人	ARNOLD, ANDREW D., C/O EASTMAN KODAK COMPANY COK, RONALD S., C/O EASTMAN KODAK COMPANY		
IPC分类号	H01L27/00 H01L51/20 H05B33/02 H01L27/32 H01L51/50 H01L51/52 H05B33/00 H05B33/26		
CPC分类号	H01L51/5203 H01L27/3269 H01L2251/5315		
优先权	10/401658 2003-03-28 US		
其他公开文献	EP1463117A2 EP1463117B1		
外部链接	Espacenet		

摘要(译)

一种OLED显示器，包括：透明电极；具有透明窗口的反射电极；发光层设置在透明电极和反射电极之间；光电传感器位于反射电极的透明窗口下方，用于感测由发光层产生的光。

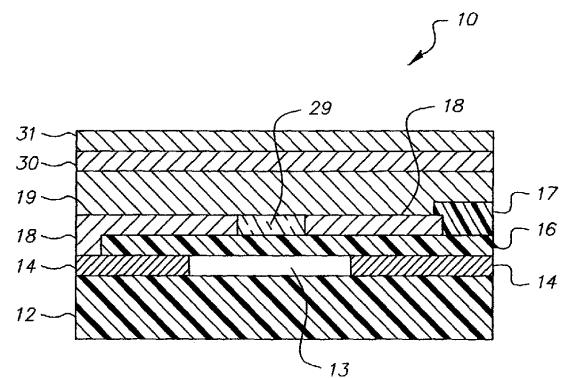


FIG. 1