

(19) (KR)
(12) (A)

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H05B 33/18 (43) 2004 09 22

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(71) 575

(72) 307 802

553 116-703

(74)
:

(54)

, 1 , 1 2
2 2 2

2

1

2

$$[\quad]$$

[]

(CRT)

(LCD)

1

(7)

(1)

가

(2)

(6)

(3)

(5)

(4)

(4)

(4)

가

Ir Pt

6,392,250

6,285,039

6,310,360

가

fac-tris(2-phenylpyridine)Iridium(Ir(ppy)₃)

DCM2

3.3 %
(singlet)

(triplet)

가

가

가

[illegible]

acetate Iridium), () (bis(benzothienylpyridine)acetylacetonate Iridium), (2-) (bis(2-phenylbenzothiazole)acetylacetonate Iridium)

1 0.1 % 30 % 2 0.1 %
20 % 1 2

1 (7) (4') (6) / (5)
2 (1) (4') (2) /

1 (7)
1 (7)

1 2 가 가

1 2 가
2 1 2 가
2 가

ITO (copper phthalocyanine)(CuP
c) 10^{-6} Torr 10 nm N,N'- (1-)-N,N'- (
NPD) 10^{-6} Torr 50 nm

NPD (CBP) () (Iridium tris(phenylpyridine); Irppy₃)
608 nm 1 12 % Ir 616 nm 2
5 % 30 nm
(8-) (biphenoxy-bi(8-quinolinolato)aluminium)(BALq) 5 nm
(8-) (tris(8-quinolinolato)aluminium)(Alq) 10^{-6} Torr 2
0 nm LiF 1 nm
Al LiF 300 nm (BaO)

6 V 800 cd/m², 9.8 cd/A, (0.
64, 0.36), 300 cd/m² 8,000

1

ITO (copper phthalocyanine)
e)(CuPc) 10^{-6} Torr 10 nm N,N'- (1-)-N,N'- (
(NPD) 10^{-6} Torr 50 nm NPD (CB
P) (Ir) 608 nm 1 12 % 30 n
m (8-) (biphenoxy-bi(8-qui
(8-) (tris(8-quinolin
nolinolato)aluminium; BALq) 5 nm
olato)aluminium)(Alq) 10^{-6} Torr 20 nm
LiF 1 nm Al LiF 300 nm

62, 0.38), 300 cd/m² 8,000 . 6 V 800 cd/m², 9.8 cd/A, (0.

2

ITO (copper phthalocyanine
(CuPc) 10⁻⁶ Torr 10 nm N,N'-(1-)-N,N'-
(NPD) 10⁻⁶ Torr 50 nm . NPD (CBP)
(Ir) 616 nm 2 - (8- 8 % 30 nm
nolato)aluminium; BAiq) 5 nm (8-) (biphenoxy-bi(8-quinoli
linolato)aluminium; Alq) 10⁻⁶ Torr 20 nm) (tris(8-quinoli
LiF 1 nm . Al LiF 300 nm

65, 0.36), 300 cd/m² 2,000 . 6 V 800 cd/m², 6.5 cd/A, (0.

가 1 2 .

(57)

1. 1 2 , 1
1 2 2

2. 1 , 2
1 2

3. 1 , 50 nm
1 2

4. 1 , 가
1 2

5. 1 , 2
1

6.

1 ,
1
tylacetate Iridium), Ir(ppy)₃ , (7,8-) (bis(7,8-benzoquinoline)ace
(bis(phenylpyridine)acetylacetate Iridium)
1 .

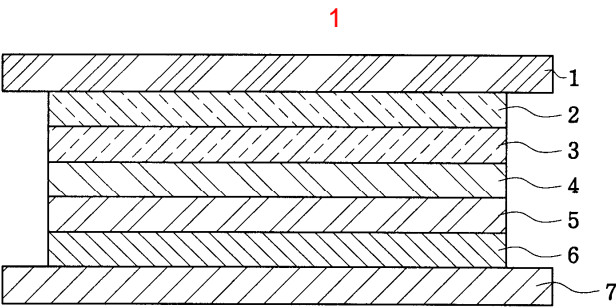
7.
1 ,
1 0.1 % 30 % .

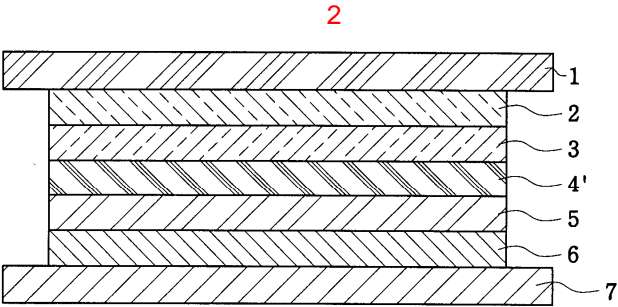
8.
1 ,
2 (bisthiénylpyridine acetylacetate Iridium
) , (bis(benzothienylpyridine)acetylacetate Iridium), (2
-) (bis(2-phenylbenzothiazole)acetylacetate Iridium)
1 .

9.
1 ,
2 0.1 % 20 % .

10.
7 ,
1 2 .

11.
1 ,
1 2 .





专利名称(译)	有机电致发光显示装置		
公开(公告)号	KR1020040081528A	公开(公告)日	2004-09-22
申请号	KR1020030015862	申请日	2003-03-13
申请(专利权)人(译)	三星SD眼有限公司		
当前申请(专利权)人(译)	三星SD眼有限公司		
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发明人	이준엽 최용중		
IPC分类号	H05B33/14 H01L51/30 H05B33/18 C09K11/06 H01L51/50 H01L51/00		
CPC分类号	H01L51/0084 H01L51/0059 H01L51/0078 H05B33/14 C09K11/06 H01L51/0085 H01L51/0081 H01L51/5016 C09K2211/185		
代理人(译)	PARK, 常树		
其他公开文献	KR100501702B1		
外部链接	Espacenet		

摘要(译)

本发明涉及有机电致发光显示装置。并且包括至少一个发光层和电荷传输层2或更多掺杂剂，其中发光层包括主体材料，并且第一磷光体掺杂剂和第二磷光体掺杂剂与第一电极和第二电极之间混合电极，它包括。并且，通过提供包含铂的有机电致发光显示装置，与现有的有机电致发光显示装置相比，第一荧光粉掺杂剂和第二荧光粉掺杂剂可以制造具有优异效率和寿命特性的相应铈或装置。。有机电致发光器件和磷光体掺杂剂。

