

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
C09K 11/06(11)
(43)2002 - 0032657
2002 05 04(21) 10 - 2000 - 0062788
(22) 2000 10 25

(71)

1355 - 26

1 951 - 20 26/3 3 - 101

(72)

1 951 - 20 26/3 3 - 101

1 632

5 529 806

2 124 - 30

(74)

:

(54)

(Electro - Luminescence, " EL") ,

(20) (80) (50) , (80) (50) (

2

, , , , ,

1 1 ,
 2 (DCM2) (EMR1)
 .
 < >
 10 : 20 :
 30 : 40 :
 50 : 60 :
 70 : 80 :

(Electro - Luminescence, " EL") , .

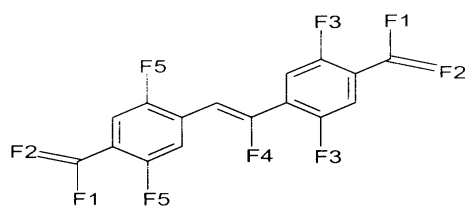
EL PDA , ,
 가 .
 (EL) 1 1 ,
 (10) ((ITO) (20) (20) (30)/
 (40)/ (50)/ (60)/ (70)/ (80) .
 - " EL (20) " + " 가 , (80) "
 가 , (20) , (80) 가 (50)
 (20) (10) .
 , EL 가
 (exiton) . EL EL 가 .
 , EL TPD, nP
 D, CuPc, MTDATA , Alq₃, DTVBi, PBD
 e , DCM , rubrene Alq₃ coumarine , Quinacridon
 , (Full Color) 3 , , 가 .

Kodak Tang Alq₃ MEHPPV, BeBq₂, Almq
Balq, DPVBi, OXD - D, ZnPBO

가 ,

가 .

EL 가



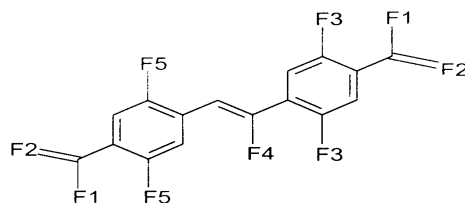
(Electron Withdrawing Group) F1 F4 (,)
F3 F5 F2

(80) (20) (80) (50)
(50) 1 (50)

가 (50) 0.0001 % 50 %

(50) 1 (20) (80) (50)

DCM(4 - - 2 - p - - 6 - - 4H -)



F1 F5

- NR1R2

R1 R2

- OX1

. X1

- OY1

. Y1

- COOZ2

. Z2

EL

< 1 >

EL

EL

, EL EL 1
 (50) EL (10), (20), /
 (30, 40), (50), / (60, 70), (Li/Al)(80)
 Alq₃, TPD 0.0001 - 50% (50)

< 2 >

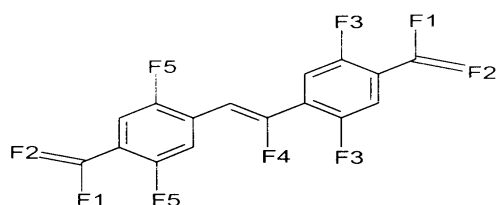
(ultrasonication) (ITO) (20) (detergent)
 , ITO , < 10⁻⁵

(20) (CuPc, copperphthalocyanine) 200 ± 100 (200)
 , 100 400 (300)
 200 800 0.5 10 /sec(3 /sec)
 .
 100 300nm (Li 10%)/
 EL 8V 가 625cd/m² (80)
 .
 < 3>
 (ultrasonication) (20) (detergent)
 , ITO , $< 10^{-6}$.
 (CuPc) 200 ± 100 (200) , 100
 400 (300) 200 800
 (600) 0.5 10 /sec(3 /sec)
 .
 100 300nm (Li 10%)/
 EL 5V 가 620cd/m² (80)
 .
 < 4>
 (ultrasonication) (20) (detergent)
 , ITO , $< 10^{-6}$.
 (CuPc) 200 ± 100 (200) , 100
 400 (200) 0.1 10% (5%) (rubrene)
 100 400 (200)
 200 800 (500)
 .
 100 300nm (Li 10%)/
 7.2V 가 577cd/m² (rubrene)
 .
 2 (DCM2) (EMR1)
 . 2 EL (EMR1)
 (DCM2) .
 가 ,

가 .

(57)

1.



oup) , F1 F4 (Electron Withdrawing Gr

F2

F3 F5

2.

(20)

(80)

(50)

(80)

(50)

1

(50)

3.

2

가

(50)

0.0001

%

50

%

4.

(20)

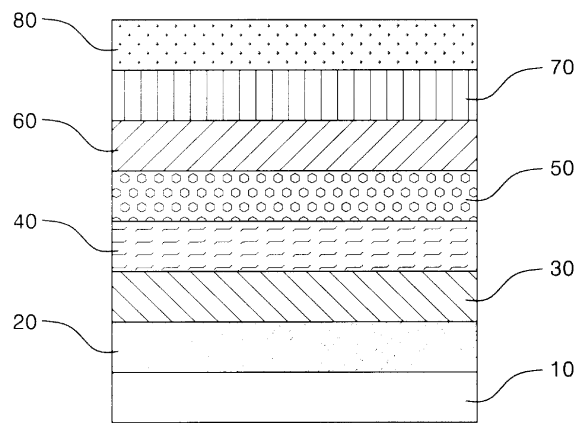
(80)

(50)

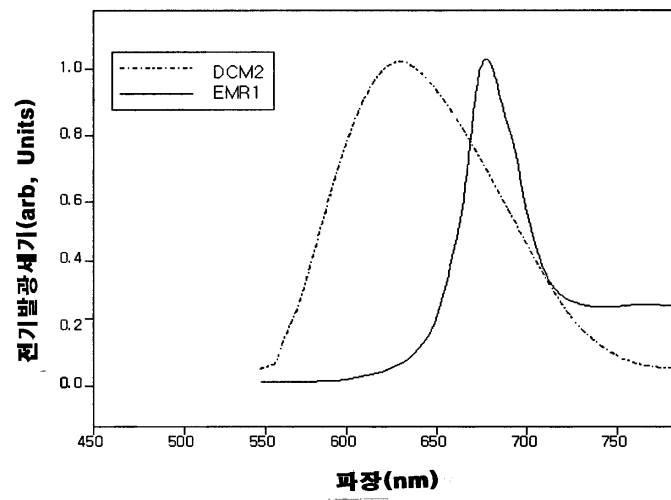
(50)

1

1



2



专利名称(译)	用于红色有机电致发光器件的化合物和包含其的有机电致发光器件		
公开(公告)号	KR1020020032657A	公开(公告)日	2002-05-04
申请号	KR1020000062788	申请日	2000-10-25
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发明人	박원석 신선호 주성후 정애영		
IPC分类号	C09K11/06		
CPC分类号	C09K11/06 C09K2211/1007 H01L51/005 H01L51/5012 H05B33/14 Y10S428/917		
代理人(译)	孙某EUN JIN		
外部链接	Espacenet		

摘要(译)

有机电致发光器件技术领域本发明涉及有机电致发光 (EL) 器件，更具体地，涉及用于红色有机电致发光器件的化合物和包含该化合物的有机电致发光器件。为此，

