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(74)

(54)

1 , ITO 2 ,
 1 , 2

2d

1a 1c

2a 2d

< >

10, 30 : 12, 32 : ITO

14, 38 : 16, 40 :

17, 33 : 1 18, 34 : 1

$$19, 35 : \quad 2 \qquad \qquad 20, 36 : \quad 2$$

22, 42 :

가 가 가

1
 , (10) ITO
 , ITO (line)
 2) ITO (12) 100 300 μ m , ITO (14) PEDT(Poly-EthyleneDioxyThiophene)/PSS(Poly-Styrene Sulphonic acid)
 , PANI(PolyANiline) (14)

r) , (14) PPV(Poly-p-PhenyleneVinylene) (16) PF(PolyFluorene) (16) 1000 (conjugate polymers
20 140nm . 3000rpm

, (16) 1 (17) . , (1a) 1 (17)
 , 1 (17) 1 (18) . , 1
 , 1 (18) (18) 0.3 150 250 .
 , 2 (19) . , 2 (19) . , 2
 가 (1b) 가 .
 , 2 (19) (20) ITO (12) 2 (20)
 , 2 (20) (20) 150 300 . 30
 , 2 (22) (20) (16) . 50 (22) LiF/Al . (1c)
 1 1 2 .
 , ITO .
 ,
 ,
 ,
 ,
 ITO .
 1 .
 1 ITO 2 .
 ITO 1 .
 2 2 .
 2 20 80 ° .

ITO

1

1

2

1

2

4

가

가

10 80%

2a

2d

(30)

ITO

ITO
(32)

, 100 300μm

ITO
(32)

ITO

1 (33)
(2a)

1 (33)

1 (33)

1 (34)

1 (34) 0.3 150 250
0.3 1.5μm

1 (34)

1

2 (35)
가2 (35)
가가
가6.5μm 2 (35)
(2b) 100 120 30 90 2.54) 2 (35)
2 (36)
30mW/cm² 1 10
ramethylammonium hydroxide) 40 60 (puddle) 2 (35) 1 365nm (tet

2 (36) 30 90 , 150 300 2 (36) 20 40 2.0 6.0μm

2 (36) 1 (34) ITO (32)

2 (36) 20 80 °
(2c)

, (38) 1000 3000rpm . , 20 (38) PEDT/PSS PANI
 , (wetting) 4 (carbonyl group) 가 10%
 , IPA(IsoPropyl Alcohol) (wetting) 80%
 ,
 , (38) (40) , (40) PPV, PF, PPP, P
 T, spiro-PPV, spiro-PF, 1000
 3000rpm (38) 20 140nm .
 , (anisole) (toluene), (xylene), (dioxan)
 e, THF(TetraHydroFuran) (38) (40) 2 (38) 1 (36) 가
 , (42) 2 (36) (40) 50 200nm (42) LiF/Al
) . (2d) , ITO (32) (36) (34) 1 (32) (34)
 ITO (32) (38) (40) 2 (36) 1 (36) 1 (34) (42)

(57)

1.

ITO

1

1

ITO

2

ITO

1

2

2.

1

1

2

3.

1

2

20 80 °

4.

ITO

,

1

1

2

,

,

,

1

2

5.

4

4

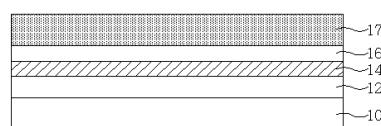
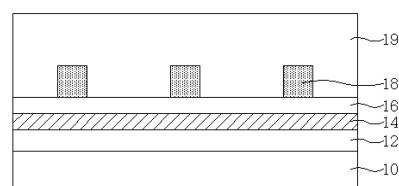
가

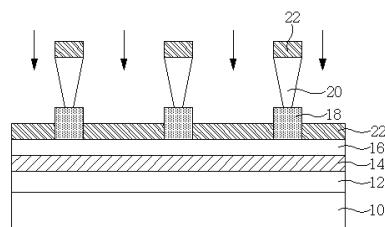
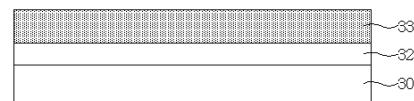
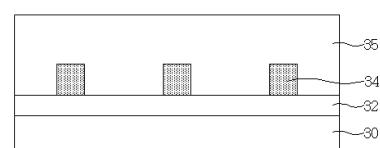
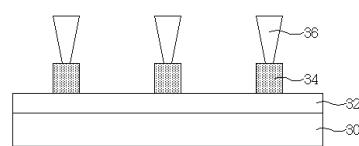
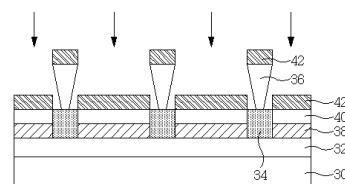
가

6.

5

10 80%

1a**1b**

1c**2a****2b****2c****2d**

专利名称(译) 聚合物电致发光器件及其制造方法

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外部链接 [Espacenet](#)

摘要(译)

本发明涉及聚合物电致发光器件及其制造方法。并且，在其中用作阳极的ITO图案将用作第一绝缘层图案的金属层分离的第二绝缘层图案和在配备的玻璃基板上部中分离像素的阴极成形之后，其特征在于形成金属在形成之后使用聚合物在第一绝缘层图案内层叠空穴注入层(HIL)和发光层。并且，聚合物电致发光器件的性能特性和可靠性防止在空穴注入层(HIL)中使用的显影液中被损坏，在第一绝缘层图案和第二绝缘层图案形成工艺中形成聚合物。将发光层形成为光敏树脂，可以参考具有可提高效果的技术。

