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H05B 33/18(11)
(43)2002 - 0057021
2002 07 11(21) 10 - 2000 - 0087253
(22) 2000 12 30

(71) 167 - 1

(72) 13 650 - 42

6 1 121 305

101 - 702

248 40 3 6 - 512

9 - 12 1 122 1008

441 - 1 110 1301

(74)

:

(54)

ITO(Indium Tin Oxide)

/ 가 .

, ITO , ITO
ITO

, .

1a ,

1b 1a ,

1c 1a 'A' ,

2 1a ,

3 2 ,

4 ,

5 4 ,

6 .

* *

10: , 12: ITO

14: 18a:

18d: 30:

32: ITO 34:

40:

(Organic Electro - Luminescent Display) , ITO
 (Short) (Hole Transporting Layer)
 (Polyimide monolayer) 가 가 (Full coloe
 r) .
 , (, ELD) 가 ELD 가
 ata Assistant) PDA(Personal D
 1a 1b , 1c 1a
 'A' .

ELD (10) ITO (12) (14) ,
 12) , ITO (12) (16) , ITO
 (12) 1c (18) .
 , 1c (18) (HTL; Hole Transporting Layer)(18a) (EML; E
 mitting Layer)(18b), (Electron Transporting Layer)(18c), (18d) (Passivat
 ion Layer)(18e) .
 ELD 2 (10)
 ITO (12) (14) , (1
 4) (16) .
 , 2 (14) (18a) (18b), (18c),
 ITO (12) (18d) (18e) (18) .
 , 1a 1c 2 ELD bus , ITO
 (12) , (14) , (16) (18)
 .
 , (18d) ITO (12)
 , ITO(Indium Tin Oxide)
 (18) (HTL;18a) (Thermal evaporation)
 .
 , 1a 1c 2 ,
 ITO (12) (18d) (14) (14)
 ITO (12) (18a) (,
 3) .
 , 2 ITO (12) (18a) (14) 3
 ITO (12) (18d)
 (14) ITO (12) (18d) ITO (12)
 UV 3 ,
 ITO (12) 가 (14)
 .
 , (18a) ITO (12) 가 , 가
 (18a) 가 .

ITO
가

가

ITO ;
ITO ;

가

가 1:1.05

80 1 , 80 150 1 , 150 200 1 , 200 6
가

ITO ; ITO
ITO ;

가 1:1.05

80 1 , 80 150 1 , 150 200 1 , 200 6
가

ITO
ITO

가

4 (32) ITO (32) (34) (30) ITO
(HTL) (Monolayer) (36)

(36)
(diamine monomer) 1:1.05 6 (anhydride monomer)
1 , 200 6 80 1 , 80 150 1 , 150 200
(isoquinoline)
가

ITO (32) (36) (5 38
)

, (36) (38) (40) (42) (36)

, ELD 2 ITO (36)
가 ITO (32)

, (Spin coating) (36) 가
5 (38)

, 가 가 (TFT - LCD) SiNx 가 (基)

, (UV ,)
가 가 가

, 가

(57)

1.

ITO ;
ITO ITO ;

2.

1 , 80 1 , 80 150 1 , 150 200 1 , 200 6 가 1:1.05
가

3.

1 2 ,

4.

ITO ;

ITO ;

ITO ;

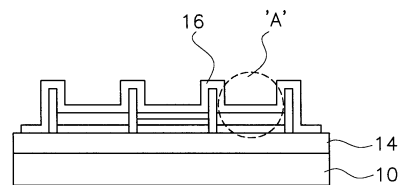
5.

4 , 80 1 , 80 150 1 , 150 200 1 , 200 6 가 1:1.05

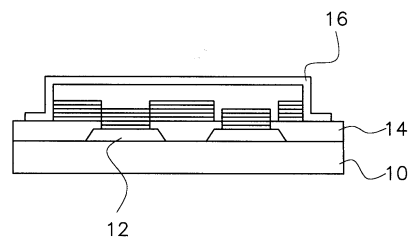
6.

4 ,

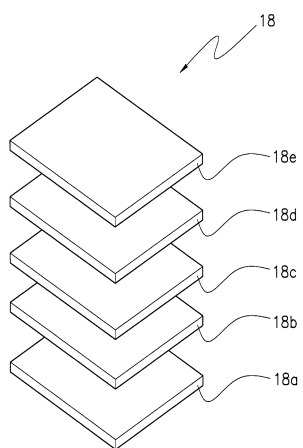
1a



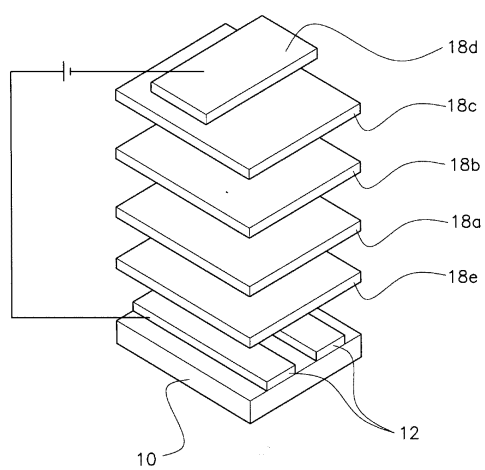
1b



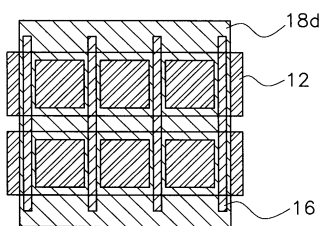
1c



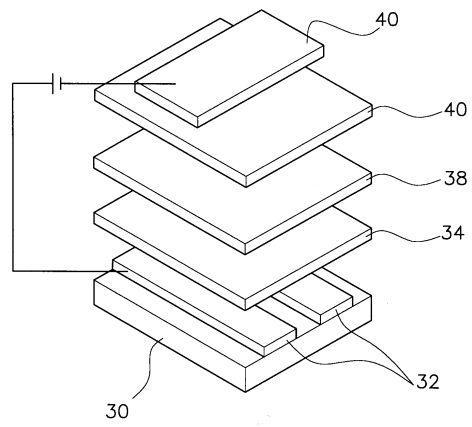
2



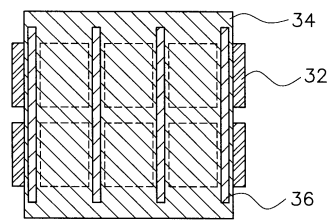
3



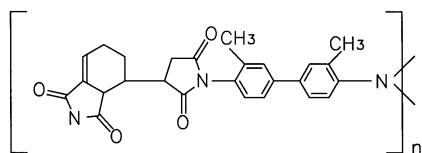
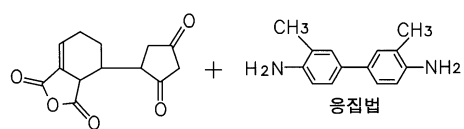
4



5



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폴리이미드(DMCDA-TD)

专利名称(译)	全彩有机电致发光器件及其制造方法		
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当前申请(专利权)人(译)	现代电梯有限公司.		
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外部链接	Espacenet		

摘要(译)

本发明的特征在于，用于将阳极ITO（氧化铟锡）电极层与阴极金属电极层电分离的绝缘层的功能和用于将空穴注入有机发光层的空穴注入层的功能由单个聚酰亚胺单层进行，对于能够简化工艺并实现像素的高效率/高孔径比的全色有机电致发光器件及其制造方法。根据本发明，在玻璃基板上形成阳极ITO电极层，通过旋涂在阳极ITO电极层上形成聚酰亚胺单层，使阳极ITO电极层与阴极金属电极层电绝缘，同时，有机发光层，电子注入层和阴极金属电极层依次堆叠在单层上。 4 - 1 -

도면 1b

