

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

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H05B 33/22 (43) 2003 05 14

(21) 10-2001-0069214
(22) 2001 11 07

(71) 20 LG

(72) 299-24

(74) :

(54) E L

EL EL ,
, EL .

4
, ,

1a 1b EL , 1b 1a - '

2a 2f EL
.

3a 3b 2d 2f - ' .
4 3b 'A' .

*

11 : 12 : 1

12-1 : 1 14, 14-1 :

15 : 16-1 :

16-2 :

17 : 2

EL(electroluminescence) (flat panel display) ,
EL .

EL(electroluminescence) ,
TL : hole transport layer), (organic emitting layer), (HIL : hole injection layer), (H
(EIL : electron injecting layer) 가 . (ETL : electron transport layer)

EL , ,

EL (thermal) , EL

1a 1b EL , 1b 1a - '

1a , (1) (2) (2-1) , (4) , (2)
(8-1) (5) , (5) (8-1) , (8-1) (9)
(8-2) , (5) (

EL , 가 , 가, HIL
(PEDOT) , (2) 가 .

1b (8-1) , (2) (2) - 가 .

(HIL) EL 가
가 .

가 EL

EL

EL

EL

EL

EL

2f , 3b 4

(11) 1 (12) 1 (12) (14-1) (11) (14-1) 1 (12) (16-1) 1 (12) (16-2) (16-1), 2 (17) (16-2)

(16-2) (HTL : hole transport layer), (organic emitting layer), (ETL : electron transport layer) (EIL : electron injecting layer) 가 . (

1 (12) 2 1 (12) , 1 (14-1) 1 (12) (11)

1 (12) (13) , 1 (12) (15)

(13) 가 0.01~10 μ m , Cr, Mo, Al, Cu (

(14-1) (14-1) (16-1) 1 (12) (11) 1 (12) (14)

(14-1) , (16-1) (14) 가

(14) (14-1) 가 ,

(oxide , SiO₂) (nitride , SiN_x)가 , 0.01~10 μ m (polyacryl , polyimidefb, novolac, polyphenyl, polystyrene) .

EL () 1 1 1

2

1 2 1 1

EL / (electrical insulative strip) 가

2a 2f EL 2a 2f 2d 2f - ' 3a 3b

2a (12) 1 (12-1) (11) ITO 1

2b (13) 1 (12) 1 (12-1) 1 (12)

ITO ITO ITO ITO

2c (14) (11) 1 (12-1) 1

2d 3a 2 (14-1) 1 (14) 1 (12)

2 (14-1) 2d 3a 1 (12) (11) 1 (12)

2e (14) 1 (12) 2 (14-1) 1 (14-1) 2 (14-1) 1 (14) 가

2f (12) (15) 1

2f, 3b (16-1) 1 (11)

(16-1) (16-2) (16-1, 16-2) 1 (12) 2 (17)

2 (17) 가

4 3b 'A' 2 (14-1) 2 (16-1) 2 (14-1) 2 (16-1) 2 (14-1) 2 (16-1) 2 (14-1)

(16-1) 가 가 1 (12)

.

1 (14) , 2 (14-1) 1

(14) (16-1) 2 (12) (14-1)

(16-1) 1 (14)

1 (14) 2 (14-1) 가 2 (14-1) 1 (12) 가 , 1 (12)

.

EL 가 .

가 , 가,

1 ,

.

가

(57)

1. EL .
2. 1 , EL .
3. 1 2 EL ,
- 1 ;
- 1 ;
- 1
- 2 EL 1 .
4. 3 , EL .
5. 3 , 1 EL .

3 6. , 1 , EL .

3 7. , 1 EL .

7 8. , EL .

3 9. , 1 , 1 EL .

1 10. 2 EL ,

1 ;

1 ;

1 ;

2 EL

10 11. , EL .

10 12. , EL .

12 13. , EL .

10 14. , 1 1 , 1 EL .

1 15. 2 EL ,

1 ;

1 ;

1 ;

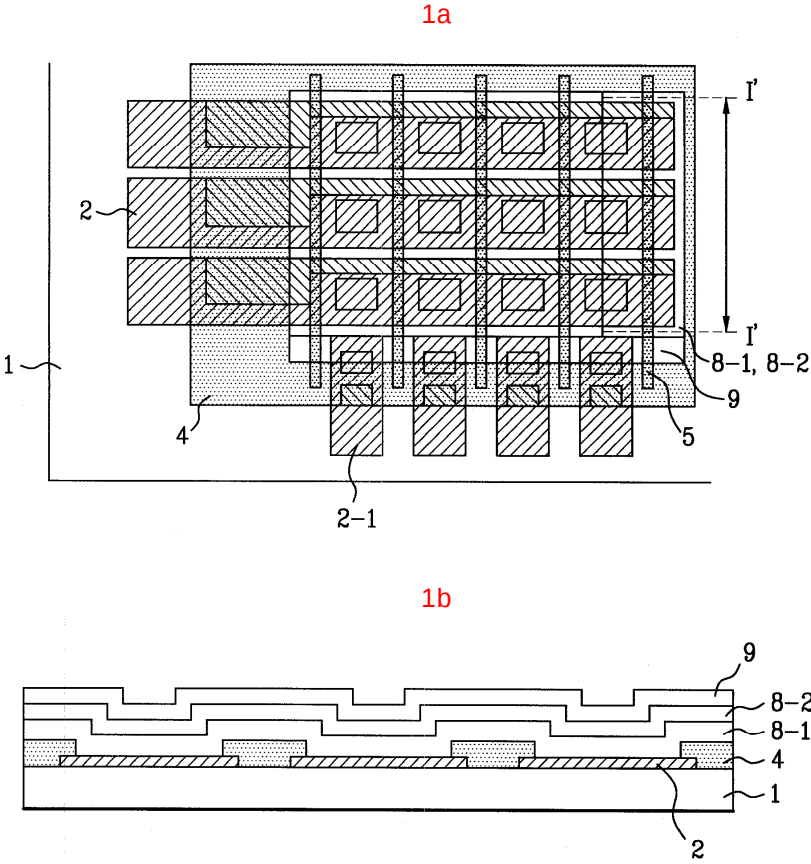
1 EL . 2

16.

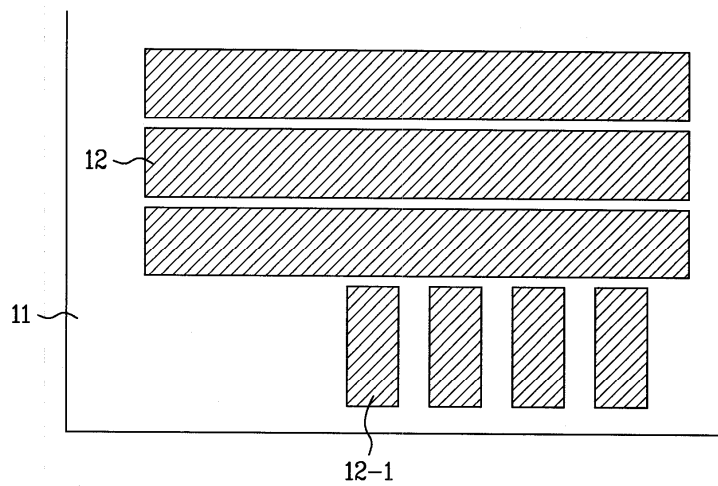
15 , 1 E
L .

17.
15 , 1 EL .

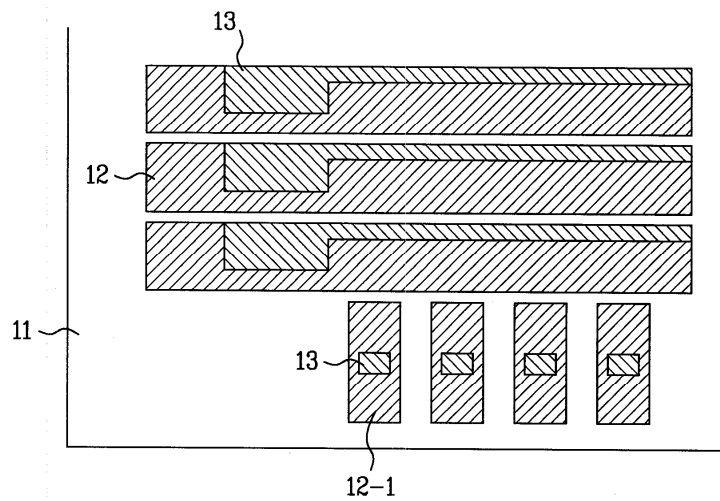
18.
15 , 1 EL .



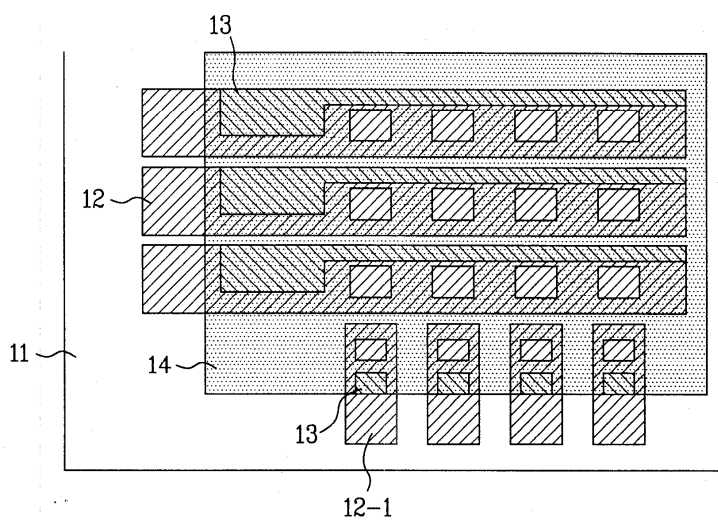
2a



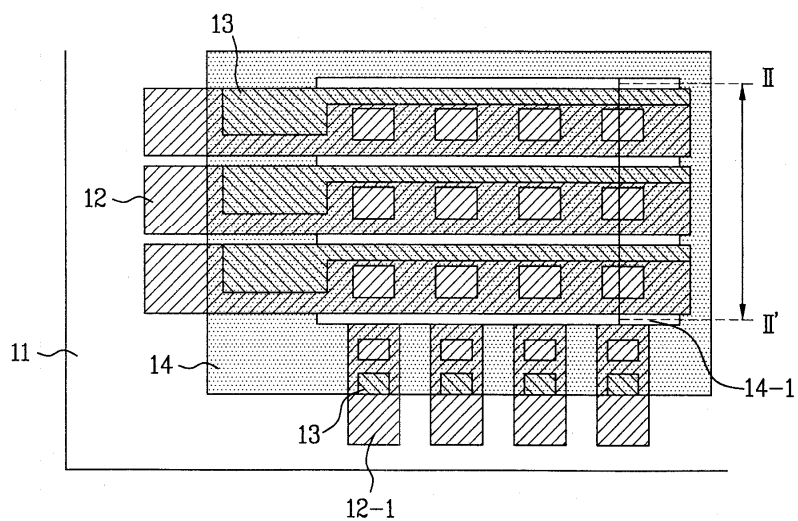
2b



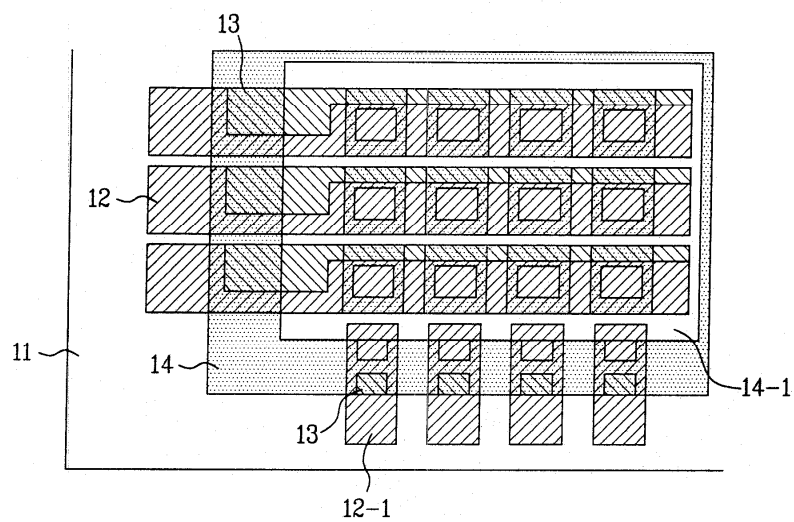
2c



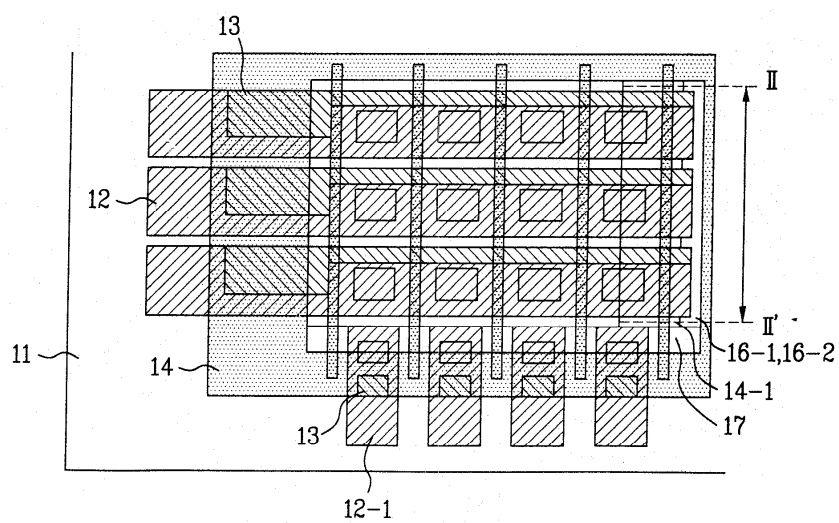
2d



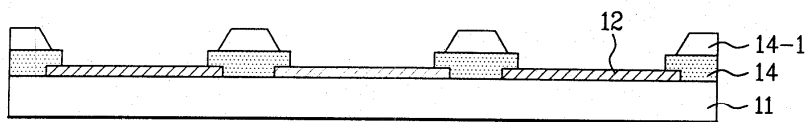
2e



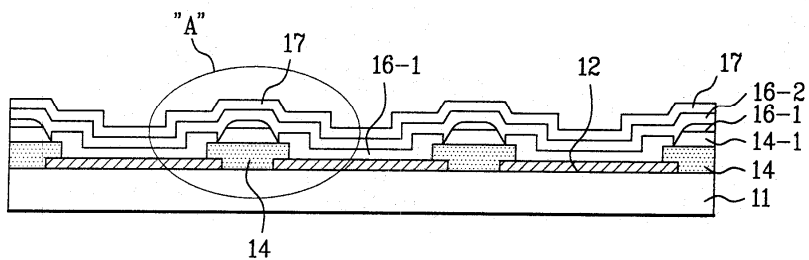
2f



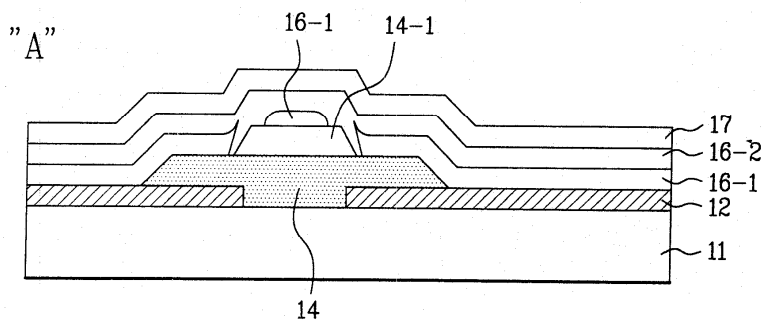
3a



3b



4



专利名称(译)	聚合物有机EL器件及其制造方法		
公开(公告)号	KR1020030037667A	公开(公告)日	2003-05-14
申请号	KR1020010069214	申请日	2001-11-07
申请(专利权)人(译)	LG电子公司		
当前申请(专利权)人(译)	LG电子公司		
[标]发明人	KIM CHANGNAM		
发明人	KIM,CHANGNAM		
IPC分类号	H05B33/22		
CPC分类号	H01L51/52 H01L2251/5392		
代理人(译)	金勇 新昌		
外部链接	Espacenet		

摘要(译)

用途：提供一种聚合物有机电致发光器件，能够防止在用聚合物形成有机发光层时引起的器件电极之间的电短路。组成：多个第一电极（12）在一个方向上形成在基板（11）上。在基板（11）上形成绝缘膜（14-1），以使第一电极（12）绝缘。在第一电极（12）和绝缘膜（14-1）的上部形成导电聚合物空穴注入层（16-1），使得通过绝缘膜保持第一电极的绝缘。在空穴注入层上形成多个第二电极（17），在与第一电极（12）垂直的方向上形成有机发光层（16-2）。

