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(71)

20

(72)

가307-801

2103-610

6 435-1711

()120-604

518203-1104

(74)

:

(54)

가 / 가 , , (short)

가 .

2

3 2

4

5

6

7a, 7b 6

8 2

<

110 : 1 112 :

114 : 116 :

118 : 120 : 1

122 : 2 124 :

126 : 128 :

130 : 3 132 :

134a : 134b :

134 : 150 : 2

152 : 1 154 :

156 : 158 :

160 : 2 170 :

I : II :

III : E :

T :

(Organic Electroluminescent Device)

(FPD ; Flat Panel Display)

가 가 가 ,
가 가 가
가 가 가 .

n) (encapsulation) 가 PDP(Plasma Display Panel) (depositio
e matrix) (passiv
(scan line) (signal line)
(Thin Film
Transistor)가 (sub pixel) (pixel) / (on/off) 1
1 2
(frame) 가 가 가 (C_{ST} ; storage capacitance)
가 가 가
가 가 가
1
1 1 2
(powersupply line)
(addressing element) (switchin
(C_{ST})가
(current source element
(Electrolumi
nescent Diode)가
(cathode electrode) P(positive) - N(negative) (Junction) (anode electrode)
가
(top emission
type) (bottom emission type)
2
(10, 30) 가
(40 ; seal pattern) (T)가 (T) 1 (10) 1, 2 (10, 30) (1)
(T) 1 (12) (T) 1 (12) (12)
(Blue) (16) (Red), (Gr
(14)
1, 2 (12, 16) (14) 가

, (40) 2 (16) 2 (30) , (30)
 , 2 (30) 가 .

2) , 1 (12) , 2 (16) 1 (1
 (14) 1 (12) 가 (14a ; hole injection layer), (14b
 ; hole transporting layer), (14c ; emission layer), (14d ; electron transporting layer)
 .

, (14c) , , 가 .

3 2 .

, (1) (62), (68), (80, 82)
 (72) (E)가 (80, 82) .

, (72) 가 (62)
 (64) , .

(E)
 (A) .

(E) (14) 1 (12) 2 (16)
 . (E) .

, (A) (E)가 .

4 .

st1 1 , 1 , 1
 , ,

st2 1 1 , 1 .

st3 1 2 , , , ,
 1 ,

st4 , 3 2 ,
 2 .

st5 , 2 1 , 1
 , (外氣) , 1
 2 , 2 가 .

, 가

, ,

가 , 1000 .

가
가
가
가
/

(ball spacer)
(dual panel type)
(anisotropic conductive film)

1
1, 2 ; 1
;
2
1 ; 1
2 ; 2
(anisotropic conductive film)
(encapsulation)

2
1, 2 ; 1
;
1 ; 1
2 ; 2
1, 2 가 2 (en
capsulation)
(glass ball)
(ceramic)

1, 2
1
2 1, 2 1 1 2
2 2 1

,
 -- 1 --
 , 가 ,
 ,
 5 , 1
 ,
 , (sub-pixel) 1, 2 (110, 150)
 T) , 1 (110, 150) (140) (140) (T) (
 (132) (132)
 (134)
 , 2 (150) 1 (152) , 1 (152)
 (156) (154) (156) (158) 2 (160) (156)
 1, 2 (152, 160) (158) (E)
 가 , (156) (frame)
 , (full color)
 , ,
 , 1, 2 (110, 150) 가 (170) , 1, 2 (110, 150)
 가
 , 1 (110) (112)
 , (112) (I) (I) (II)
 (III) (114) (114) (I) (116)
 (118) (118) (114)
 (II) (124) (III) 1, 2 (120, 122) 가 1 (124)
 , 1 (124) 1, 2 (120, 122) (114) (II)
 (III) 8) (126) (128) 3 (130) 가 2 (131) (12)
 , 2 (131) 3 (130) (128) (132)
 , (132)
 (134) (134) 2 (160) 가 (134) (132)
 (134) (T) 가 (E)
 (114), (118), (126), (128) (T)
 , 가
 , (T)
 , (T) (116) (T) 가
 , (134) (134a) , (134) (134b)
 , (134a) (134b)가 (134a)
 , 가 (132) 2 (160)

, (134b) , (134a) 가 , (134a) 가 , , (134)

6 .

0) , (210a) (210b) 1 (210) , 1 (210b) (212) (214) , .

4) 2 (212) , (214) 5 (134) , (210) 1 (210) , (21

7a, 7b 6 , 7a 가 , 7b

7a, 7b , (plastic) (220) , (220) , (Ni) 2
 1 (222) , 1 (222) , (Au) , (230)
 (224) 가 , 7a (230) 가 , (bonding) 7b
 (240)

7a (230) 'L1' , 7b (240) 'L2' ,

-- 2 --

8 2 , 5

(310) , 1, 2 (310, 350) (T) (340) 1
 , (340) (T) (324) .

2 (350) 1 (352) , 1 (352)
 (354) (356) (358) 2 (360) , (356) (356)

2 (360) (340) (330)가 ,
 (330) 2 (360) (324)

(T) (312), (314), (316) (318) ,
 (T) , (318) (32) (322)
 0) 가 (324) , (322) (320) (318)
 (324) , (324) (330)
 , (330) 2 (360)

(330) (ceramic) 가
 , (Au), (Ag), (In), (Al) , (glass ball)

가 1 가 (short) 가 (T) (T) 가 (T) 1, 2 가 가 / 가 (short)

(57) 1. 1, 2 ; 1 ; 2 1 ; 1 ; 2 ; 2 가 (anisotropic conductive film) ; 1, 2 가 (encapsulation)

2.

1

3.

1

4.

1

5.

1

6.

1, 2 ;

1

2

1 ;

1

;

, 2 ;

2

, 2

;

1, 2 가

(encapsulation)

7.

6

(ceramic)

8.

6

(glass ball)

9.

1

6

,

10.

1

6

1

11.

1

6

1

1

2

2

1, 2

12.

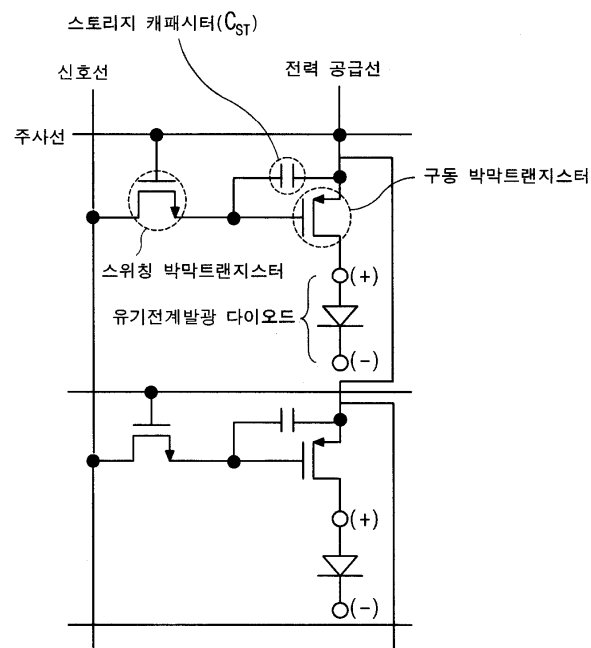
1

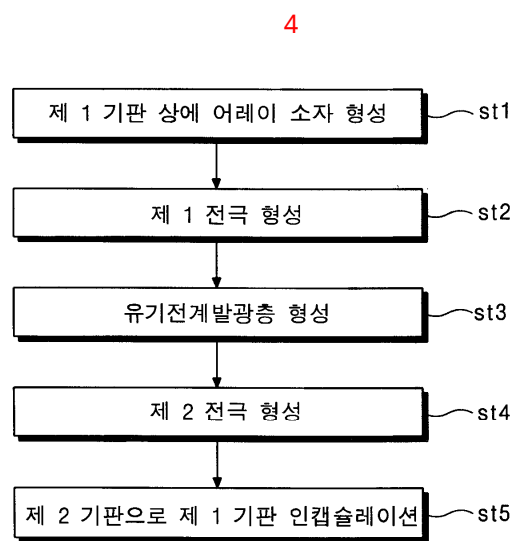
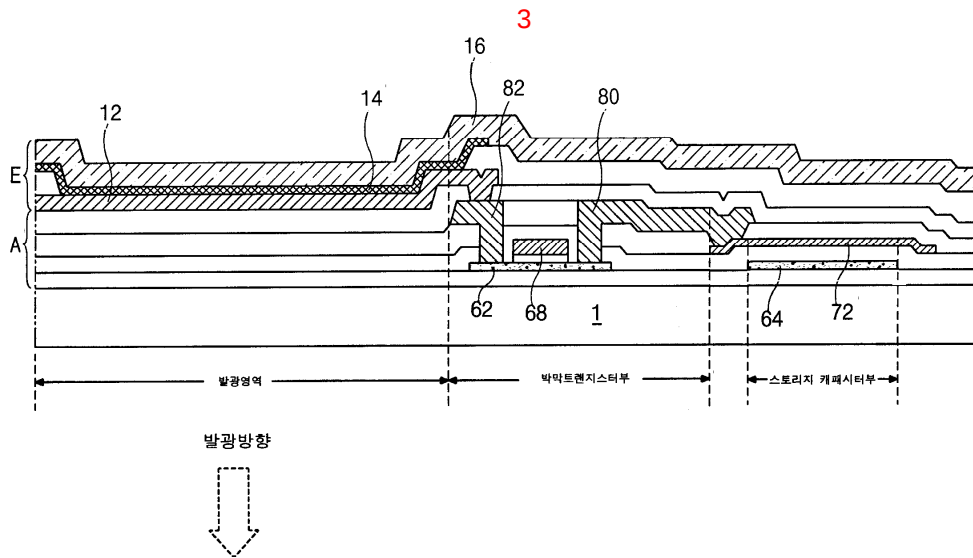
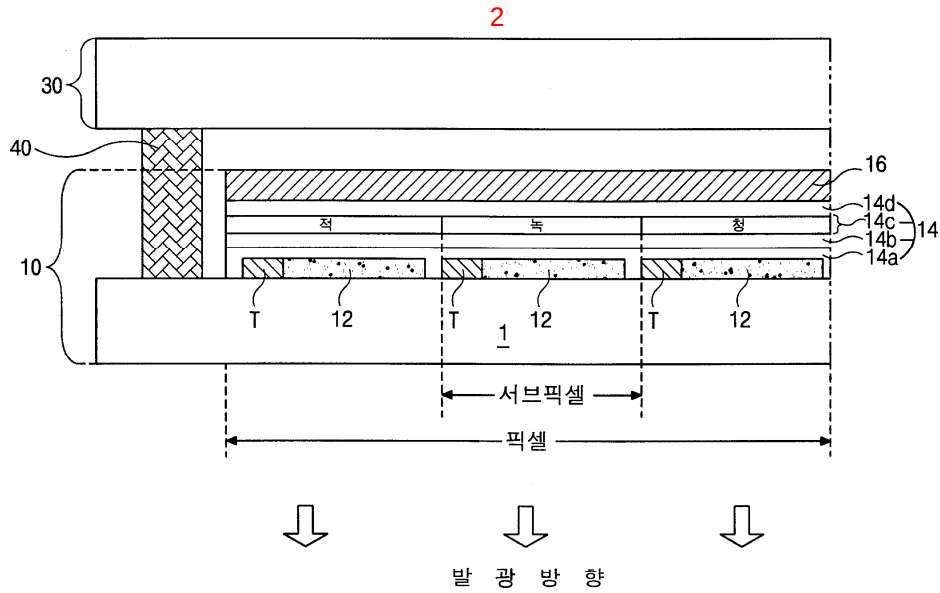
6

2

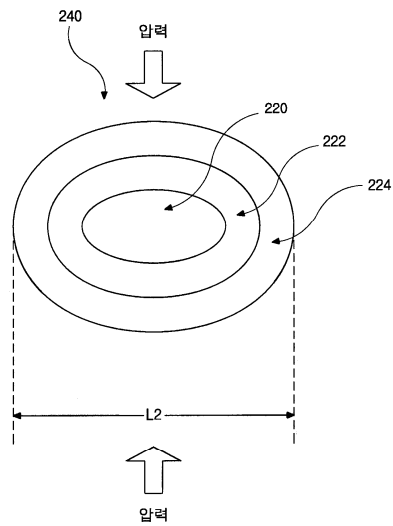
1

1

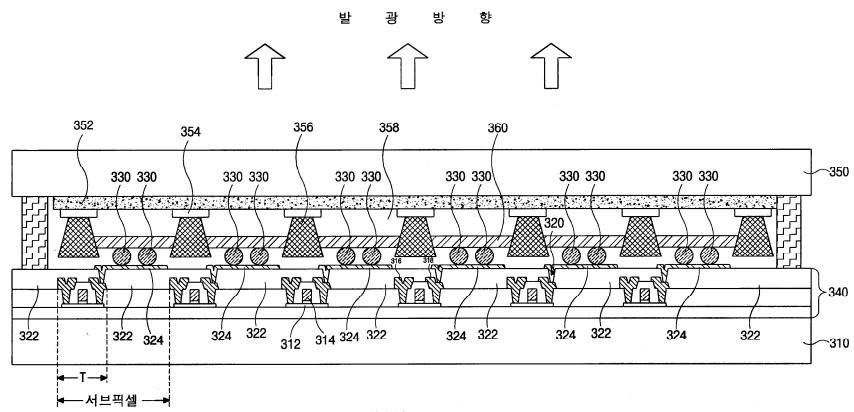




7b



8



专利名称(译)	双面板型有机电致发光器件及其制造方法		
公开(公告)号	KR1020040015506A	公开(公告)日	2004-02-19
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申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
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发明人	박재용 유충근 김옥희 이남양 김관수		
IPC分类号	H05B33/00		
CPC分类号	H01L27/3253 H01L27/3262 H01L2251/5315 H01L2251/5392		
其他公开文献	KR100482161B1		
外部链接	Espacenet		

摘要(译)

由于在不同基板上形成阵列器件和有机发光二极管器件，可以提高高孔径比/高分辨率实现产量和生产管理效率，并且可以增加产品周期。并且，第三使用包括彼此独立的导电球的各向异性导电膜或导电球间隔物作为电接触图案的短路因此可以省略单独的图案化工艺并且与子像素一起具有有效阻挡的优点。

