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(A)

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(43)

10-2004-0008322
2004 01 31

(21)

10-2002-0041939

(22)

2002 07 18

(71)

.

20

(72)

가

307-801

2

103-610

6 435-1

711

()

120-604

518

203-1104

(74)

:

(54)

, 1 ; 1 (sub-pixel) 1, 2 ; 2 ;
 2 ; 1
 가 ;
 2 가 1, 2 1
 , 2 1
 1, 2 ,
 , , 가 / ,
 , , ,
 , , ,
 , 가 .

5

1

2

3 2

4

5 1

6 2

<

110 : 1 112 :

114 : 116 :

118 : 120 : 1

122 : 2 124 : 1

126 : 128 :

130 : 3 132 : 2

134a : 1 134b : 2

134 : 150 : 2

152 : 1 154 :

156 : 158 :

160 : 2 170 :

I : II :

III :

E :

T : h1 : 1

h2 :

(Organic Electroluminescent Device) ,

(FPD ; Flat Panel Display) 가 가 ,

가 가 가 ,

n) (encapsulation) 가 PbP(Plasma Display Panel) (depositio

e matrix) (passiv

(scan line) (signal line)

Transistor)가 (sub pixel) (pixel) / (on/off) 1 (Thin Film /

가 가 가 (C_{ST} ; storage capacitance)

(frame) 가 가 가

가 가 가

1

1 (powersupply line) 1 2 ,

(addressing element) (switchin

g TFT)가 (C_{ST}) (current source element

) (Electrolumi

nescent Diode) 가

(cathode electrode) P(positive) - N(negative) (Junction) (anode electrode)

가

(top emission

type) (bottom emission type)

2

(40 ; seal pattern) , 1, 2 (10, 30) , 1, 2 (10, 30) 가
 (T)가 , 1 (10) (1)
 (T) 1 (12) (T) 1 (12) , (Red), (Gr
 een), (Blue) (14) (14)
 2 (16) .
 1, 2 (12, 16) (14) 가 .
 , (40) 2 (16) 2 (30) , (30)
 , 2 (30) 가 .
 2) , 1 (12) , 2 (16) 가 , 1 (1
 (14) 1 (12) (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

, 1 , , 2 ,
 , 1, 2 , 2 ,
 .
 1, 2 (上狹下廣) 가 , 1 ,
 (photoresist) (photolithography) , 1 ,
 , (photoacryl), (polyimide) .
 , 1, 2 가 (seal pattern) , ,
 , .
 1, 2 1 (taper) 가 .
 , .
 ,
 .
 -- 1 --
 , 가 ,
 , 1 , 1
 2 2
 .
 5 1 ,
 ,
 1 .
 , (sub-pixel) 1, 2 (110, 150)
) (140) , 1 (110, 150) (140) (T) (T
 (134) .
 , 2 (150) 1 (152) , 1 (152)
 (156) (154) (上狹下廣) (156) (156) 2 (160) ,
 .
 가 (156) (frame)
 가 .
 , 2 (160) (134) , 1, 2 (110, 150)
 가 (170) .
 1, 2 (152, 160) (158) (E) .
 , (140) , 1 (110) (112)
 , (112) (I) (I) (II)
 (III) (114) (I) (116)
 (118) , (118) , (114)
 (II) (III) 1, 2 (120, 122) 가 1 (124)
 , 1 (124) 1, 2 (120, 122) (114) (II)
 (III) (126) (128) (126) (128)
 , 2 (132) 3 (130) 3 (130) 가 2 (132)
 , 2 (132) 3 (130) 가

1 (134a) , 1 (134a) 3 (130) (128) 2 (160)
 (134b) (134) . , (134) 2 (160)
 0) , (128)

(114), (118), (126), (128) (T)

가 , (T) (116) (T)

, (154) (158) , ,
 (158) , ,

(T) (128) (134) 1 (134a)
 , (134) , 1 (134a) 2 (134b) ,
 2 (134b) 2 (160) (128)

, 1 (134a) (h1) , 1, 2 (110, 150)
 (154) (h2) 가 , (156) (156)
 (158) 2 (160) , 1 (110) (156)
) 2 가 () , (156)
 2 가 1, 2 (110, 150)
 , (134) 1 (134a) (156)

1 (134a) (photo resist)
 (photolithography) (patterning)

, (photo acryl), (polyimide),
 (taper) 가

-- 2 --

, , ,

1 , 1

2

6 2

1 (210) , 1, 2 (210, 250) ,
 , 2 (250) 1 (252) (T) (240)
 (254) (256) , 1 (252)
 (258) 2 (260) , (256)

, 1 (210) (212) , (212)
 (I) (I) (II) (III)
 (214) , (214) (I) (216) (218)
 , 1, 2 (218) (220, 222) 가 1 (224) , 1 (224) (III)
 (220, 222) (214) (II) 가 1 (226a) , 1, 2
 1 (226a) (230) 2 (226b) (214) (III)
 1, 2 (226a, 226b) (226) , (226) 2 (260)

1 ;

2 ;

1 , , ;

;

가 , 1, 2

2 가 1 , 1, 2 ;

1 , ;

2 , ;

2 , 1 , 2

1 , , 2 ,

1 , 1, 2 , 2 ,

3.

1 2 ,

(上狹下廣) 가 .

4.

1 2 ,

1 , (photoresist) (photolithography)

5.

1 2 ,

1 , (photoacryl), (polyimide)

6.

1 2 ,

1, 2 가 (seal pattern) .

7.

1 2 ,

,

8.

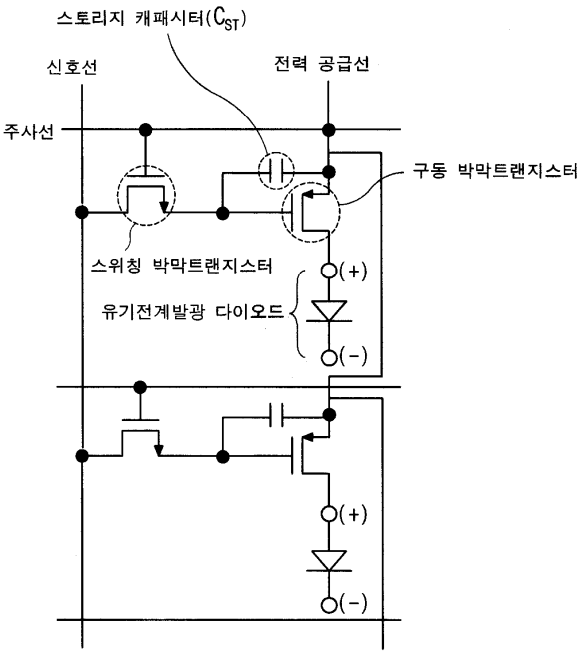
7 ,

9.

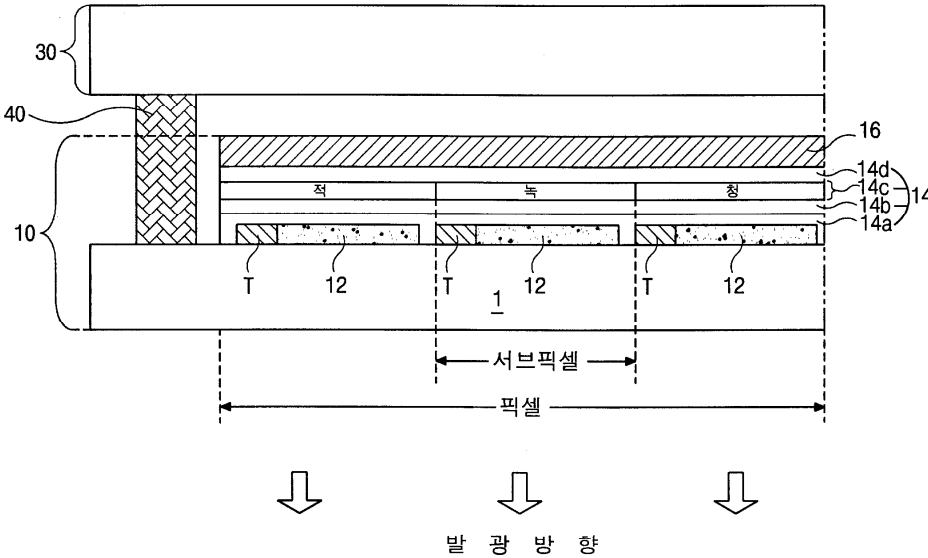
1 2
1

(taper) 가

1



2



6

