

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>7</sup>  
G02F 1/1335

(45)  
(11)  
(24)

2003 09 17  
10-0397671  
2003 08 29

(21) 10-2001-0011618  
(22) 2001 03 07

(65)  
(43)

2002-0071542  
2002 09 13

(73) .  
20

(72) 3 530-21 202

1145 APT640 1204

(74)

:

(54) 가

, ;  
, ;  
, ;  
R, G, B 가 , ;  
, R, G, B R, G, B  
, ;  
, ;  
T , , CO

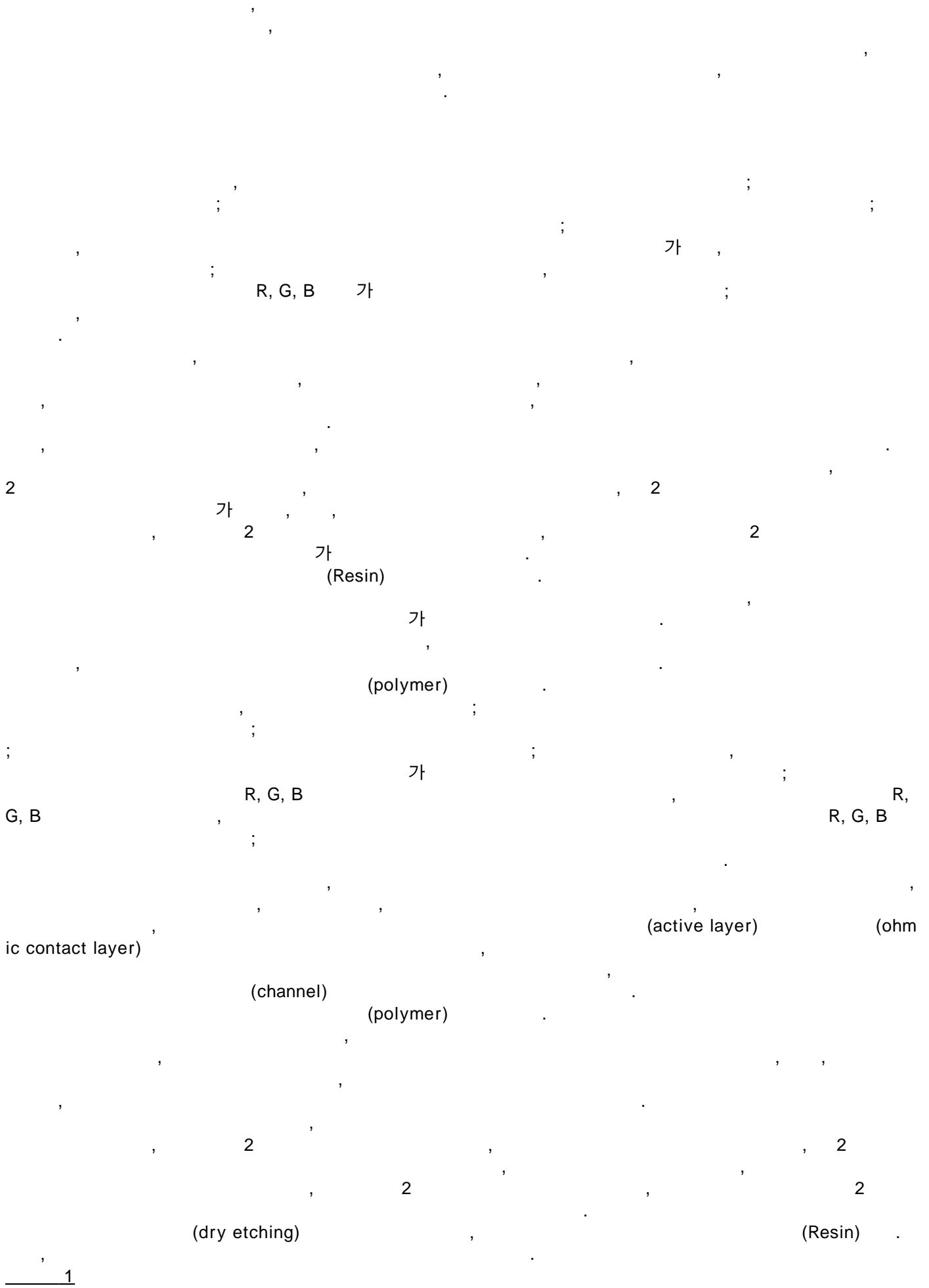
3

1  
2a 2e 1  
3 1

4a 4d 3  
 5 2  
 6 3  
 7 4  
 < >  
 100 : 102 :  
 104 : 106a :  
 106b : 106 :  
 108 : 110 :  
 112 : 114 :  
 116 : 118 :  
 300 : 350 :  
 400 : ch :  
 T : P :

가  
 (Flat Panel Display Device) R(  
 ; Red), G( ; Green), B( ; Blue)  
 (dye method), (electrodeposition method), (pigment di  
 spersion method), (print method)  
 가 , R, G, B  
 (photolithography) 가  
 (電着) (定着)  
 가  
 가  
 가  
 가  
 Film Transistor) , COT(Color Filter on Thin  
 on Color Filter) , TOC TOC(Thin Film Transistor  
 (damage)  
 COT  
 가  
 ) COT ( ,  
 1 , R  
 0) , (10, 20) , (10, 2  
 (10) (15)  
 (12) 가 (14) (12)가

(20) (T) (34)가  
 (34) (T) , , 가 (36) 가 가  
 (36) (34)  
 R, G, B  
 (photo resist) (strip) (T)  
 (29) (T)  
 가  
 deposition) (coating) ( ( )  
 2a 2e 1 (22) (22)  
 2a , , (24) (ohmic contact layer ; 26b)  
 (active layer ; 26a)  
 (26) (26)  
 (28, 30) (28, 30)  
 (29) (28, 30) (28, 30) ( ( )  
 26b) (26a) (ch) 가  
 (22), (26), (28, 30) 가  
 / (T) (22) 가  
 (28) 가  
 2b (ch) (T) (32)  
 (32) (SiNx)  
 2c (32) (32) , R,G,B (34)  
 R,G,B 2a R,G,B (29)  
 R,G,B (stripe), (mosaic), (triangle), (squ  
 are) 가 가  
 ( )  
 COT (T) (29) ( ( )  
 l) 가 (32) (30)  
 2d (33) (33)  
 2e (33) (30) (36)  
 (pin hole) 가



3 1  
(300, 400) (350) (100) (102) (102)  
0, 400) (400) (104) (106a) (106b) (108,  
110) (106) (106) (108, 110) (106a)  
(ch) (102) (106) (108, 110) (T)  
(108, 110) (102) 1  
(P) (P) R, G, B  
(116)가 R, G, B (108, 110) (104) (116)가  
R, G, B (108, 110) (108, 110) (112) 가  
(T) (112) (T)  
(110) (116) (118) (112) (114)  
, R, G, B  
가 (300) (100) (302)  
302)가 (T) (304)  
가  
4a 4d 1  
4a (100) 1 (102)  
(102) (106a) (106b) 2  
(106) 3 (106) (108, 110)  
(108, 110) ( )  
(108, 110)  
6b) (108, 110) (108, 110) (10  
(106a) (106b) (ch) (106b)  
(106a) 가 (ch)  
(102), (106), (108, 110) (T) (106b)  
4b 4a (108, 110) 4  
(112) (110) (112) (114)  
(112) (108, 110)  
(carbon) (112)  
(112) (polymer)

가 가 , , 4b , ,  
 (112) , , , ,  
 08) (108) , 1 (102) (103) (103) , 2 (1  
 (109) (109) (109) (108, 110)  
 (109) (112) (114) (112) (108, 110)  
 (CH) 가 ( 4a ch) (CH)  
 4c , (112) R,G,B R,G,B  
 (112) , R,G,B (nozzle)  
 (116) R,G,B  
 (108, 110) ( 4a ch)  
 (112) (116) (108, 110) (CH) 가 가  
 4d (116)가 , 5  
 (118) (118) (114) (110) (T)  
 , , 가 , ,  
 , , , ,  
 2  
 2 1 , , , ,  
 5 2 , , 3  
 (T) 1 (113) , 1  
 (113) (P) (116)가 (116) , 1  
 (126) (120) (120) (122)  
 가 (T) (T) (122)  
 , 2 (124) , 2 (124) , 1  
 (113) 2 (124) (110) (115)  
 (110) (126)  
 1 , (115) 1 (124)  
 , 1 (120) 2 (122) 2 (124)  
 , (120) 가 2 (124) (126) (116) (122)  
 (126) , (T) (126) (122) (T)  
 , , 2 , (T) (122) , (T)  
 (mis-align)  
 2 가 (122)  
 (Resin)  
 3  
 3 1 , , , ,  
 6 3 , 3

4a (T)  
 1 (200) (202) 1 (200) (204)가 (T) 1 (206) (202)가 (T) 1 (204) (206)  
 2 (117) (206) (110) 1 (200) 2 (208) 2 (206) (206)  
 (117) 2 1 1 1 2  
 , 1, 2 , 2 , 1 2  
 4 4 3  
 7 4 3  
 (T) (T)  
 1 (212) (214) 1 (214) (212)가 (T)  
 2 (218) (216)가 (216) 2 (218) (T)  
 9) (110) (220) 1 (216) 2 (218) (11  
 3, 4 2

, COT

가

가

(57)

1.

(channel) 가

(Red), (Green), (Blue) 가

2.

3.

4.

1

5.

2

6.

5

2

가

2

7.

2

2

2

가

8.

6

7

(Resin)

9.

1

가

10.

1

11.

1

(polymer)

12.

가

가

13.

12

14.

12

(polymer)

15.

13



15 16.

15 17.

12 18.

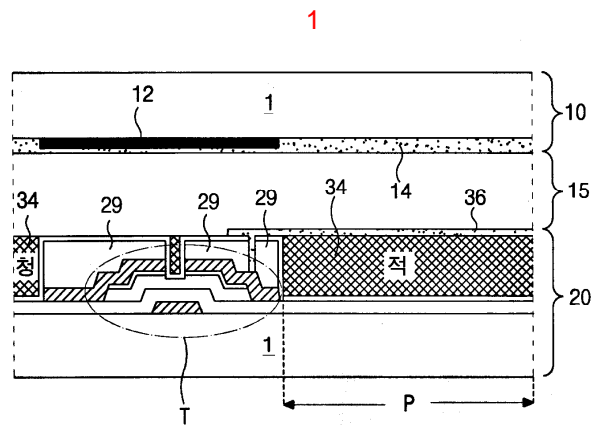
12 19.

18 20.

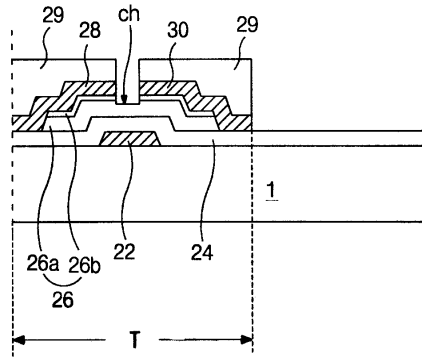
18 21.

(dry etching)

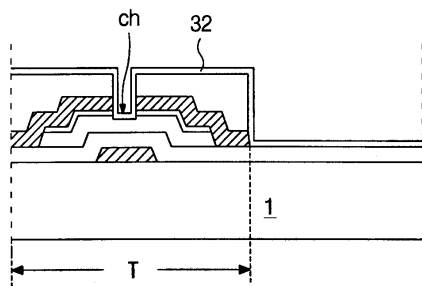
(Resin)



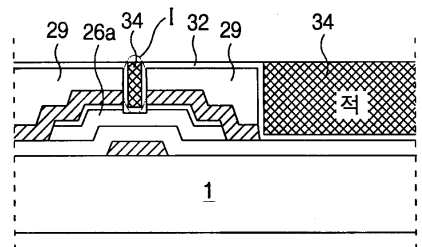
2a



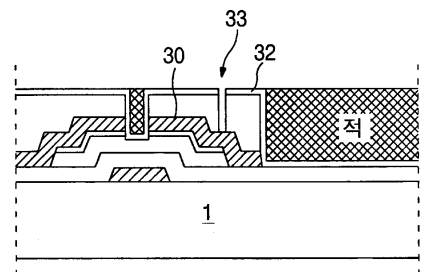
2b



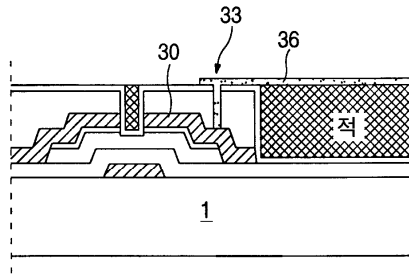
2c



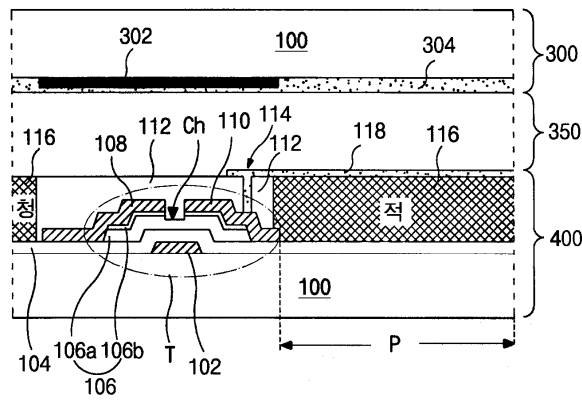
2d



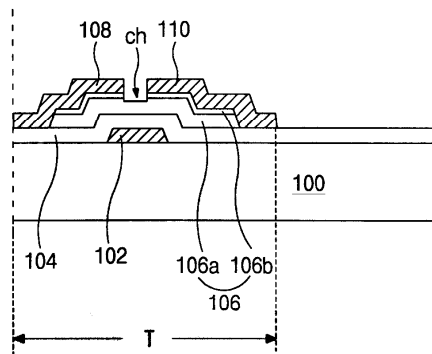
2e



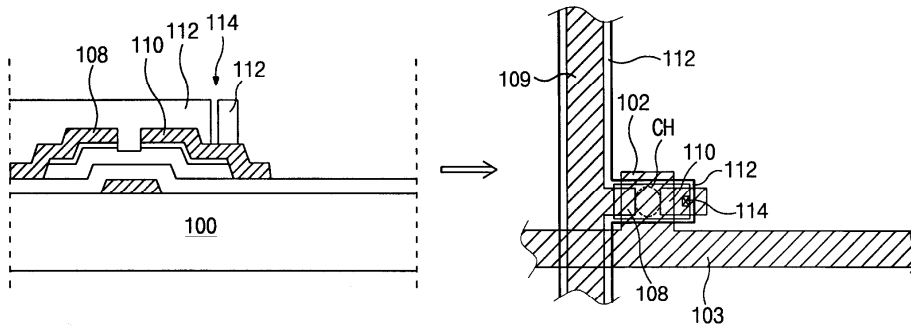
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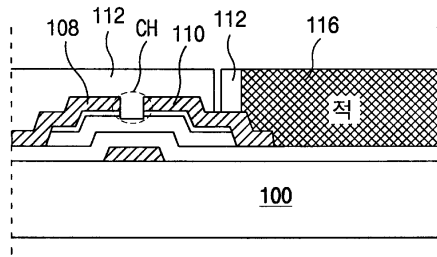
4a



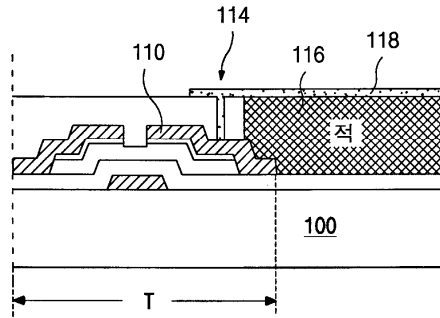
4b



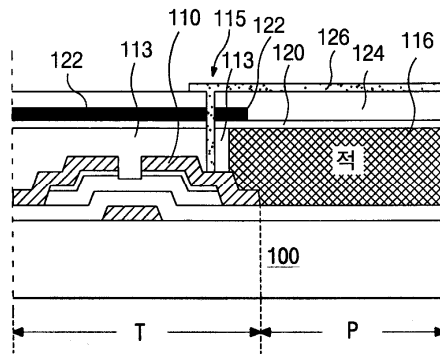
4c



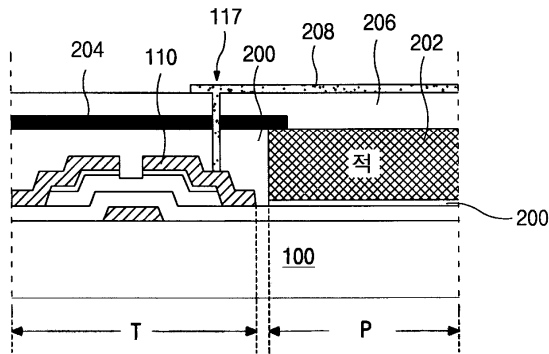
4d



5



6



7

