

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2002 - 0053428
2002 07 05

(21) 10 - 2000 - 0083064
(22) 2000 12 27

(71) .
,
20

(72) 224 - 1 204 330
50 103/1108

(74)

:

(54)

(dummy)

,

, 1

- 1 .
- 2 1 A - A' .
- 3 1 .
- 4 3 B - B' .
- 5 2 .
- 6 5 C - C' .

*

110 : 1 111 :

111a, 213b : 112 :

113 : 113a :

114 : 115 :

116 : 117 :

118 : 119 :

120 : 2

(LCD ; Liquid Crystal Display Device)

,

.

가
가

가

(Cathod Ray Tube)

, 1 , 1
1 2

2 , 1 , 2

가 .

1 , 2 1 A - A'

(linking)

1 3 (10,20) 1 2 (10,20) 1 2 (13) (16) (10) (12) (13) (11) (13) (12) (13) (11) (11) (13) (13a) (11) (14) (14) (15) 2 (18) (19) (15) 가 (17)

(11) (13)

(19) , 1, 2 2

가

1, 2 (shift) 가 (discrination)

(dummy)

(113) (112)

(113) / (111) (113a) (111)

(a - Si)

BCB(Benzocyclobutane) (114)

(114) (115)

19) 2 (120) (119) RGB (118) (117)

(118) (117) 5%

1 (ITO: Indium Tin Oxide) 2 (117)

20) 2 (120) (sealant) 1, 2 (110,1)

(111a)

가

3 (111a) (low level) (Vgl) 가 가 0

0 Vcom 1 Vgl 2

(111a)

(111a) 가

(111a) 가

2

5 2 , 6 5 C - C'

5 6 2 , , ,

1 (210) , 1 (211) (213) , (213)

(211) (211) (213b) , (213)

a) , , (213)

(215) , 1 (210) (219) (218) ((217) 가 2 (220) , 1, 2 (210,220) (216) .
 , () , , / .
 (210) , , (211) , 1 (211a) .
 , (SiOx) (211) (210) (SiNx), (212) , (213) .
 , (213) / (211) (213a) .
 , (211) (213b) .
 , (211a) (short)가 0 .
 , (Cr), (Al), / (Sn), (Cu), (213a) (211a) (Cr/Mo), / (Cr/Al) .
 , / (a - Si) .
 , BCB(Benzocyclobutane) (214) .
 , (214) (215) .
 19) , 2 (220) (219) RGB (218) , (2) (218) (217) .
 , 1 (215) 2 (217) (ITO: In dium Tin Oxide) .
 20) 2 (220) (sealant) , 1, 2 (210,2) .
 11a) , 가 (2) .
 , 2 (211a) 0 Vcom 1 Vgl (low level) (Vgl) 가 .

, 가 . ,

, (211a) (213) .

가 .

, (dummy)

, 가 0

, 가 .

(57)

1.

1 ,

1 ;

;

;

;

2.

1 , 1 ,

1 가 2 ,

3.

1 ,

4.

3 , (short)

5.

1 , .

6.

5 , (short) .

7.

1 , .

8.

1 , ;
1 ;
;

9.

8 , 1 ,
가 2 1 ;

10.

9 , .

11.

10 , (Cr), (Al), (Sn), (Cu), (M
o), / (Cr/Mo), / (Cr/Al)

12.

10 , (short)

13.

9 , .

14.

13 (Cr), (Al), (Sn), (Cu), (M
o), / (Cr/Mo), / (Cr/Al)

15.

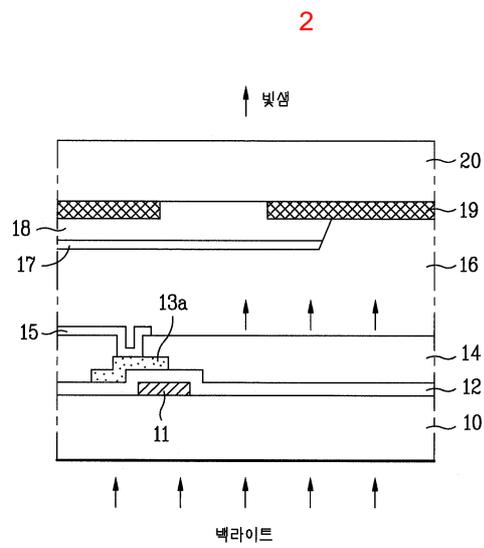
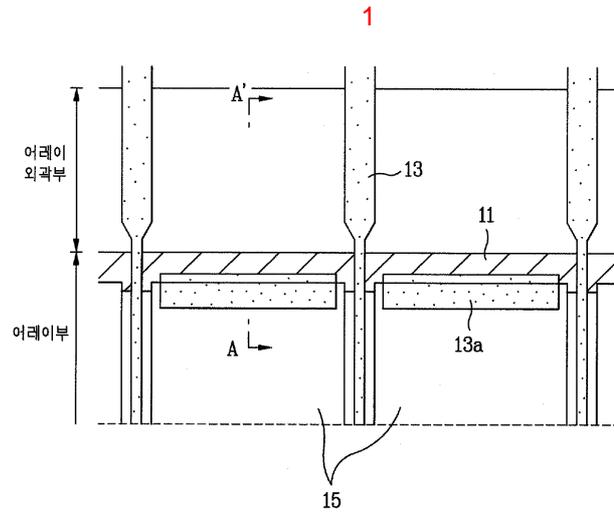
13 , (short)

16.

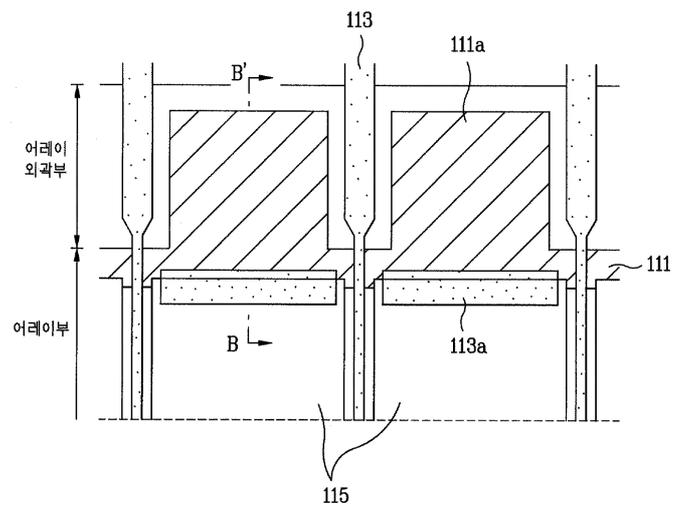
13 ,

17.

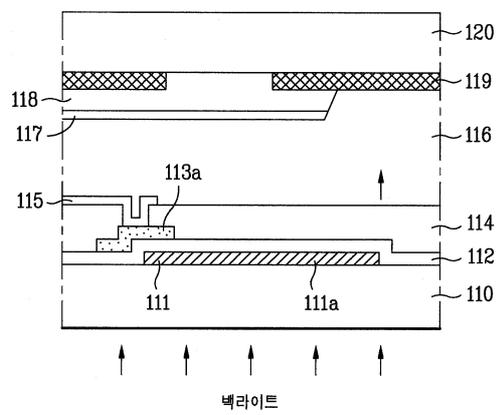
16 ,



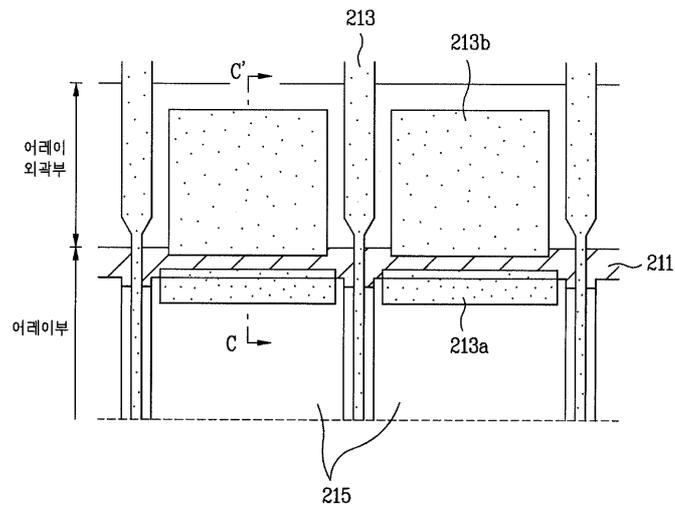
3



4



5



6

