

(19)
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10-2003-0007153

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2003 02 05

(71)

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20

(72)

102 105

(74)

:

(54)

，
，
，
가 .

4b

1 .
2a, 2b , 2a , 2b 2a I-I .

3a, 3b SEM(scanning electron microscope) .

4a, 4b 1 , 4a ,
4b 4a IV-IV .

5a 5d 2 .

6a, 6b 3 , 6a , 6b 6
a VII-VII .

< >

110 : 120a, 120b, 120c : , ,

120 : 122 :

124 : 126 :

가가 가

(Thin Film Transistor ; TFT)가
(AM-LCD ; Active Matrix Liquid Crystal Display)가

가

1

(10, 30)

(10, 30

) (50)

(30)

(32, 34)

(32, 34)

(T)가

(T)

(46)

(32, 34)

(P)

(T)

가

(ch ; channe

가
l)

(10)

(12),

(16)

(12)

(10, 30)

(52, 54

(54)

(back light)가

(Red), (Green), (Blue)

2a, 2b

2a

2b

2a

I-I

2a (P) (62)

(64)가

(64)

(62)

(66a, 66b, 66c)가

(66)가

(66) (68) (70)
 2b (60) (64)가 (64) (66) (66)
 (68) (66a, 66b, 66c)가 (70)
 (66) (68) (70) (66) (photolithography) 가
 (66) (II ; overlay) 가
 3a, 3b SEM(scanning electron microscope) 3a
 가 3b 가
 3a (rubbing) 가
 가
 가
 3b 가
 (trap)

가
 (Red), (Green), 1 (Blue) (Color Filter) (overlay) 가
 가 ;
 ;
 (Cr)
 2 가
 ;
 ;
 ;
 (wet etching)
 (rubbing)

(photolithography)

3, 1, 2; 1; ; ;
 가 1; 2, ; ;
 ; , 가 2; ;
 1, 2 .
 , .
 -- 1 --
 4a, 4b 4a 1 IV-IV , 4a ,
 4b 4a (P) , (III) 가 , , (120a, 120b,
 120c)가 (122)가 (120) , (120) (122) (III) (124)
 (126) , (122) (Cr) , (120)가 (wet etch
 ing)
 III) , 4b , (110) (120a, 120b, 120c) , (120)가 , (120)가 ,
 (120) (III) , , (120) (122) (D1) 가 (122)가 , (124)
 , (126) , (122) , (124)
 , , , ,
 , 2 .
 -- 2 --
 5a 5d 2
 .
 5a , (210) , , , (212a, 212b, 212c)
 (212)
 , , , (212a, 212b, 212c) (V) , (V)
 V) , (212) .
 , (212)가 () (V) , (V)
 , (V)
 .
 5b , (212) (214) , 5c
 (212) (D2) (214)
 (216) , (212)

(216) (212) 가

(212) (212) (212) (V)
 5b 214 가 (212) (216)
 (D2) (5b 214)

(216) (212) (V) (V)
 (rubbing damage) (212) (216)가

5d (212) (216) (218) (220)

(218) ITO(indium tin oxide)

-- 3 --

6a, 6b 3 6a 6b 6
 a VII-VII 1

6a 1 (312) 1 2 (3) (T)가
 16) (312) (312) (316) (316) (P)
 (T) (312) (320) (316) (T)
 (312) (316) (VI)

1

6b 1 (310) (312) 1, 2 (310, 330)
 (P) (318) (316) (312)
 (318) (P) (320) (316)

(320) 1 (322)

가 2 (330) (320) (332a, 332b, 332c)
 (VI) 가 (332)

(VI) (320) (320) 가 (VIII)

334)가 (332) (VI) (332) (D3) 가 (336) 2 (338)
 (332) (334)

1, 2 (322, 338) (350)

가 2

1 가 .

, , , , , .

(57)

1. (overlay) 가 (Red), (Green), (Blue) (Color Filter) ; 가 ; ; .

2. 1 , (Cr) . 3. 가 , , ; ; , ; ; .

4. 3 , (wet etching) .

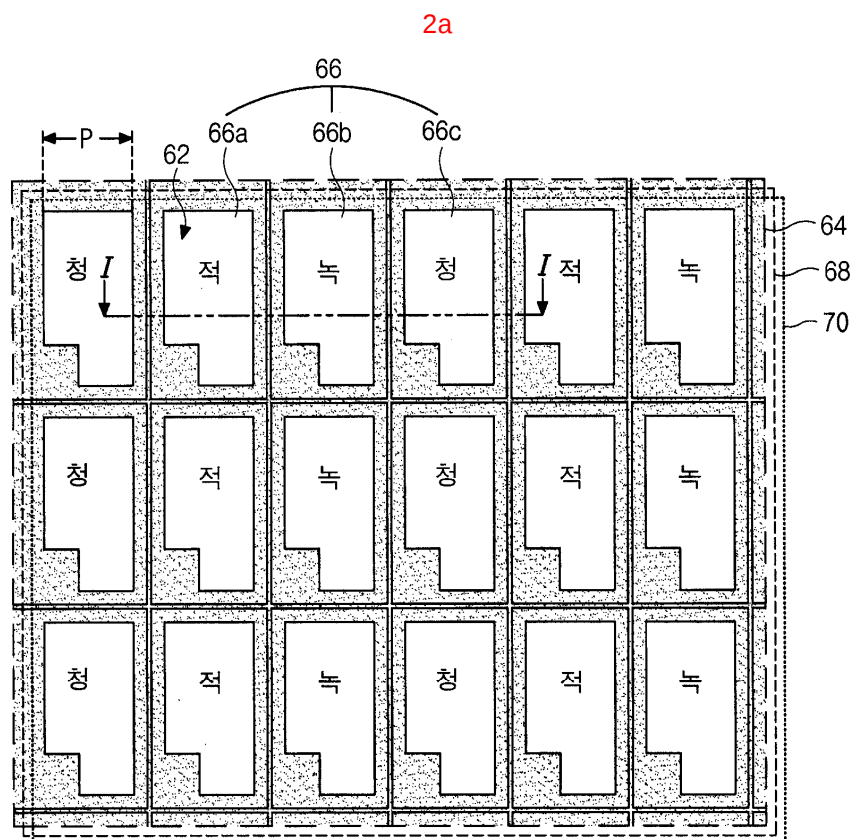
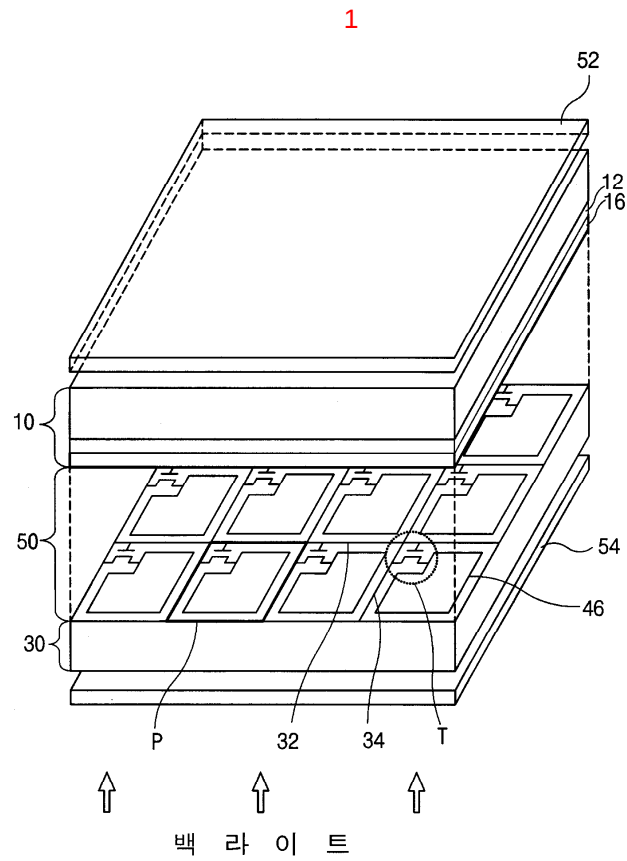
5. 3 , .

6.

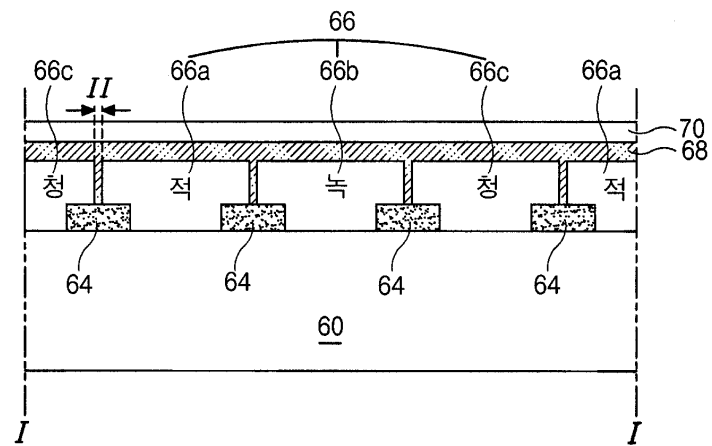
3 , (rubbing)

7.
3 ,
(photolithography)

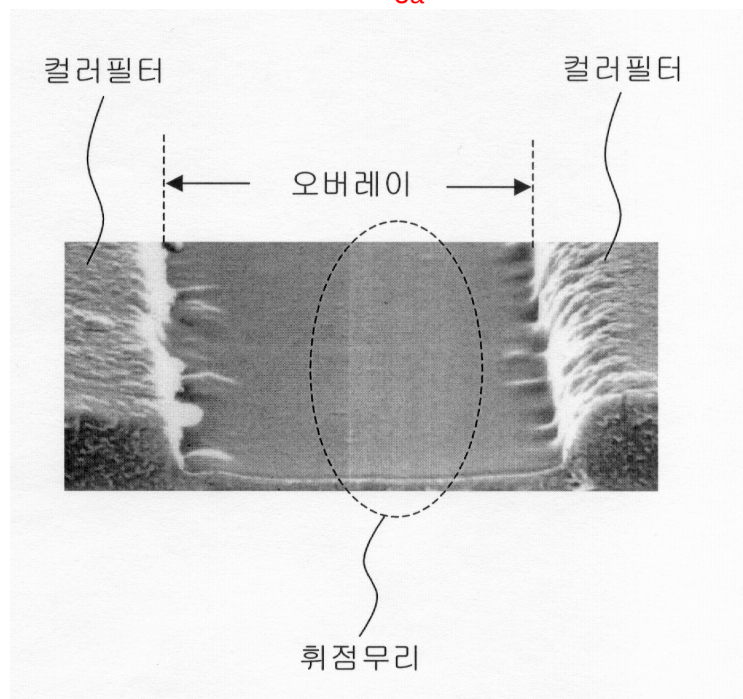
8.
1, 2 ;
1 ;
;
;
1 ;
2 , 가
, , ;
, 가 ;
;
2 ;
1, 2
.



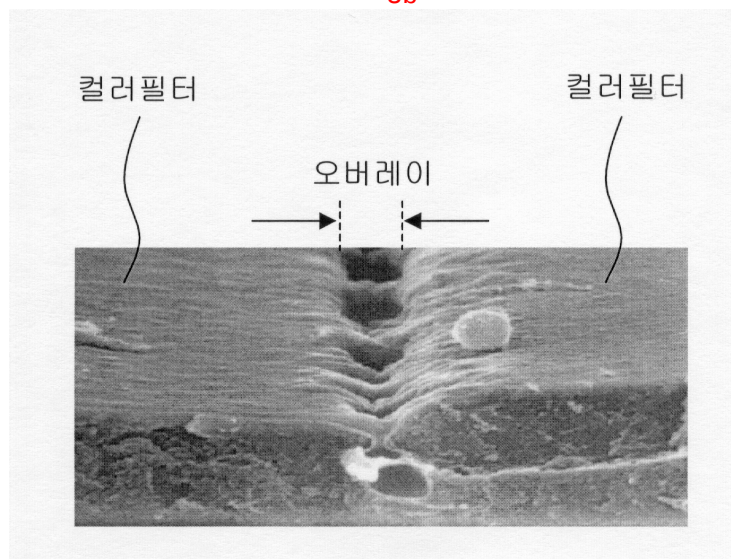
2b

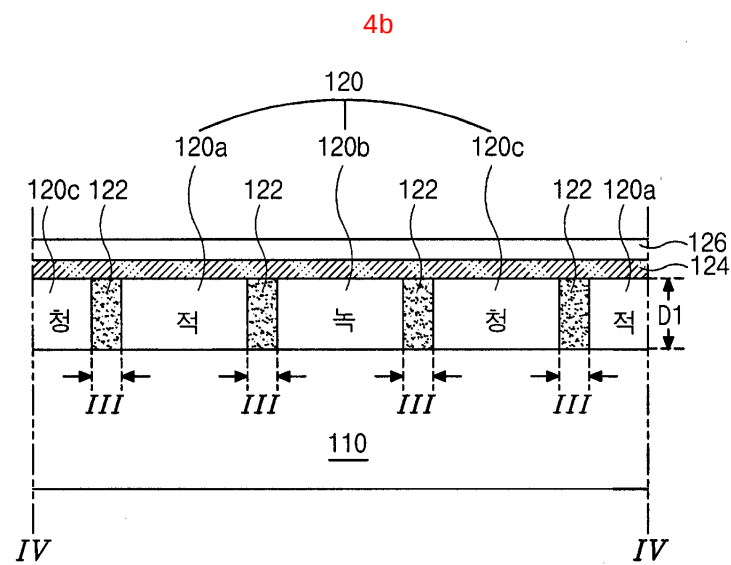
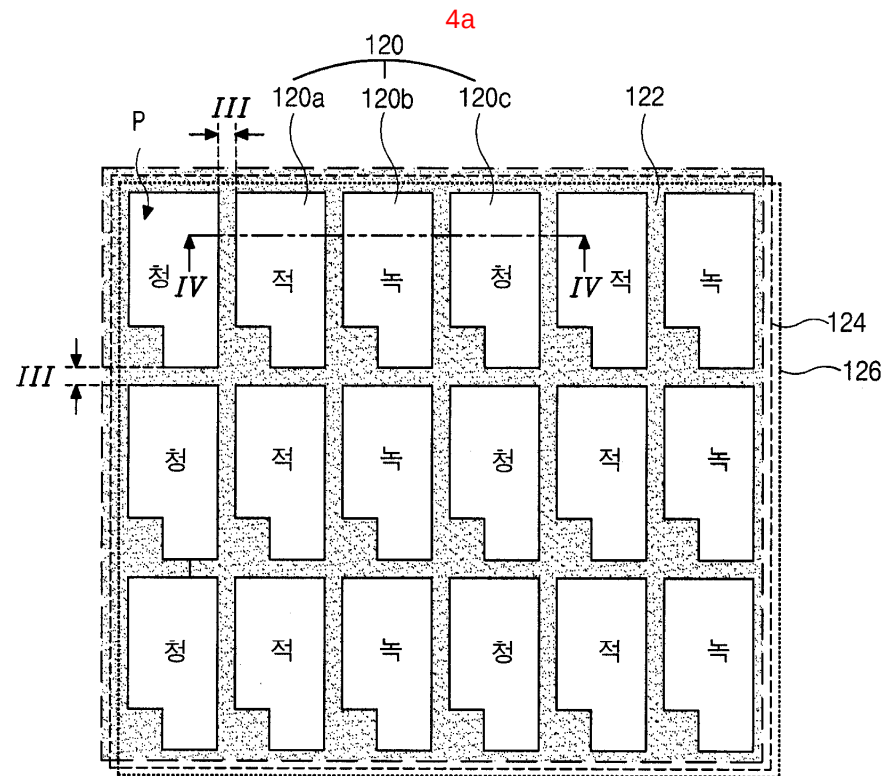


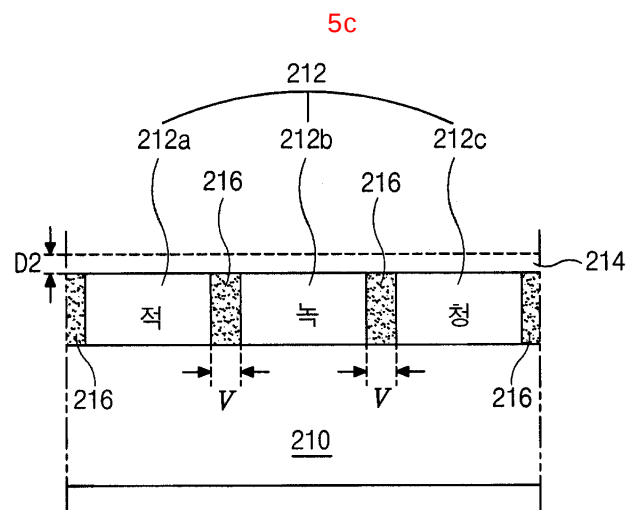
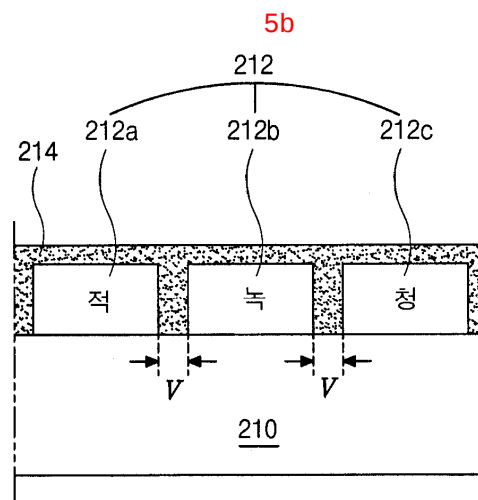
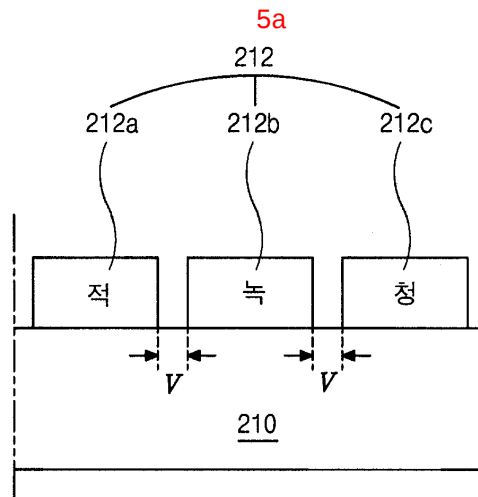
3a

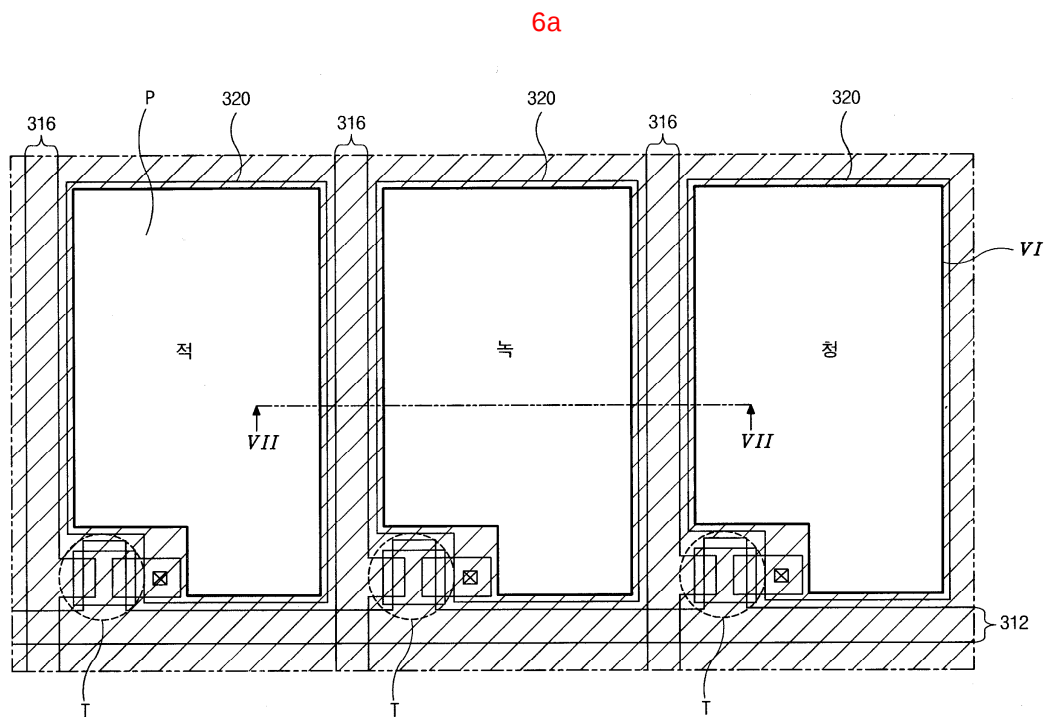
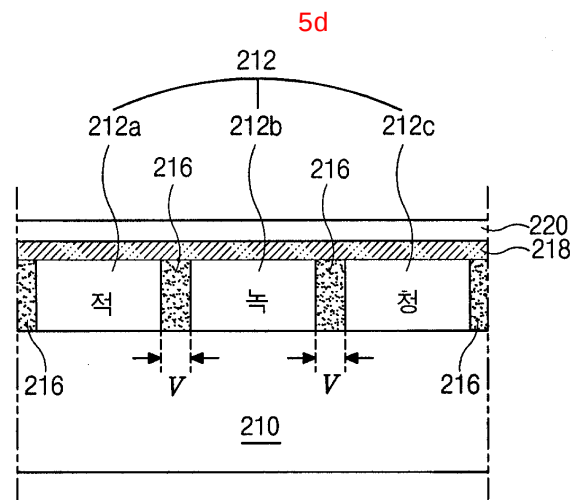


3b

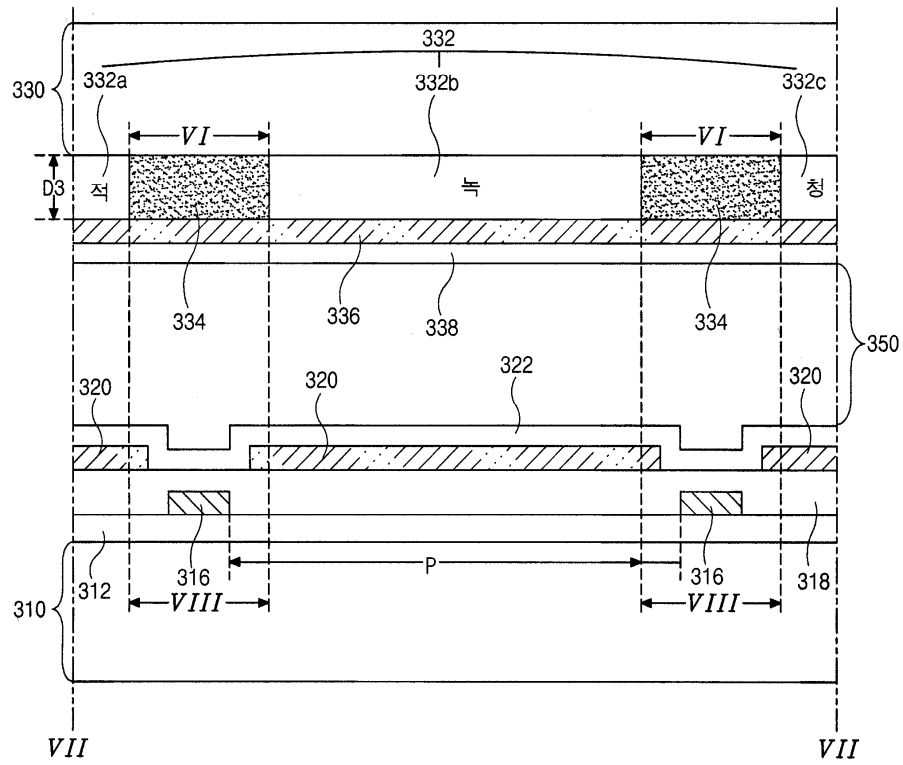








6b



专利名称(译)	用于液晶显示装置的滤色器基板及其制造方法		
公开(公告)号	KR1020040070918A	公开(公告)日	2004-08-11
申请号	KR1020030007153	申请日	2003-02-05
[标]申请(专利权)人(译)	乐金显示有限公司		
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		
[标]发明人	KANG CHANGMO		
发明人	KANG,CHANGMO		
IPC分类号	G02F1/13357		
代理人(译)	贞媛KI		
外部链接	Espacenet		

摘要(译)

它具有用于根据本发明的液晶显示装置的滤色器基板，并且在对准层的摩擦处理中可以有效地防止由阶梯式带轮产生的污染物质的产量，该覆盖区域的颜色根据其制造方法，使用滤光器作为黑色矩阵形成区域，因此可以有效地防止现有滤色器覆盖区域处的污染物捕获，并且滤色器和黑色矩阵形成相同的厚度值，因此下部可以增强取向层和透明电极的平面性。

