

(19) (KR)
(12) (A)

(51) 。 Int. Cl. ⁷ G02F 1/1335	(11) (43)	10-2005-0000177 2005 01 03
(21)	10-2003-0040768	
(22)	2003 06 23	
(71)	.	20
(72)	3 2539-10	
	1 575	
(74)		
:		
(54)		

가 ; 가 ;
가 ;
5
1 IPS
2a 2f
3a 3c 1
4 1 , ,
5 IPS
6a 6c 5

7a 7f 5

<
>

1,101: 2,102:

4: 5,105:

6,166: 8,10:

16: 7,107:

13,113: 128:

130: 126:

127:

(Liquid Crystal Display; LCD)

(Active Matrix)

TN(Twisted Nematic)

PS(In plan Switch)

TN

가 가 .

IPS

1 IPS

1) $\begin{pmatrix} 1 \\ (5) \end{pmatrix}$, $\begin{pmatrix} (2), \\ (6), \end{pmatrix}$, $\begin{pmatrix} (7), \\ (13), \end{pmatrix}$, $\begin{pmatrix} (8) \\ (9) \end{pmatrix}$, $\begin{pmatrix} (10) \end{pmatrix}$.

(2) (5) TFT
(6)가

(2)

$$R, G, B \stackrel{(6)}{\rightarrow} R, G, B \stackrel{(2)}{\rightarrow} \cdot \stackrel{(2)}{\rightarrow} \cdot \stackrel{(6)}{\rightarrow} \cdot$$

(7) (1) .

(13) (1) (5) .

, TFT(17) () (5) (16) ,

(16) (129) (126) , (126)

() / (128,130) .

TFT(17) (9) (108) TFT(17) (9) (130)

) . (4) (9) .

(4) . (9)

/ (8,10)

.

2a 2f IPS .

(1) 1

2a (2)가 .

(2)가 (R)가 2b (R)가 2 (3R)가 .

(3R)가 (G)가 (1) 2c (G)가 3 (3G)가 .

(3G)가 (B)가 (1) 2d (B)가 4 (3B)가 .

, , (6)가 (1) (7)

2e

, 3a 가 , 3b 가

(Acrylic monomer) () .

, 1 가 .

[1]

	40~45%	40~45%	10~20%

, 가 3c

(7) .

(7) (1) 2f (13)가 .

, 가 (1) 가 (5)

(13) 가 (7) (13) 가 . (13)

(7) . (7) 가

(2) 가 , . ,

, (7) 가 (2) (1) 4

(13) 가 (7), (2) (1)

가 .

, (7), (2) (1) 가 가

.

,

.

가 , ; 가 ;

가 가 ;

40~45% , 40~45% 10~20% 가

.

.

가 .

가 ; 가 ;

가 ; 가

40~45% , 40~45% 10~20% 가

.

가 .

.

, 5 7 .

5 IPS .

5 (((

101)) 가 (102), (106), (107), (113), (

((, (105) , ,

() . ()가 ,

, (102) (105) TFT

(106)가 .

(102) (102) (102) . (106

)

(106) R,G,B (101) R, G, B (113) (101) (107) (105)

가 6a (Acrylic monomer) 가 , 6b
2 가

[2]

			가
	40~45%	40~45%	10~20%

가 (107) 6c
가 (107) (105) (113) 가 (101)
(101) (105) (113) 가 (113) (107)
(107) (102) (101)
(102) (101) (107) (113) (102)
7a 7f IPS
(101) 1 (102)가
7a (102)가 (R)가 2 (3R)가
(3R)가 (G)가 (101) (G)가 7c 3 (3G)가
(3G)가 (B)가 (1) 7d (B)가 4 (3B)가
(106)가 (101) 40~45% , 40~45% 1
0~20% 가 (107) 7e
(107) (101) 7f (113)가

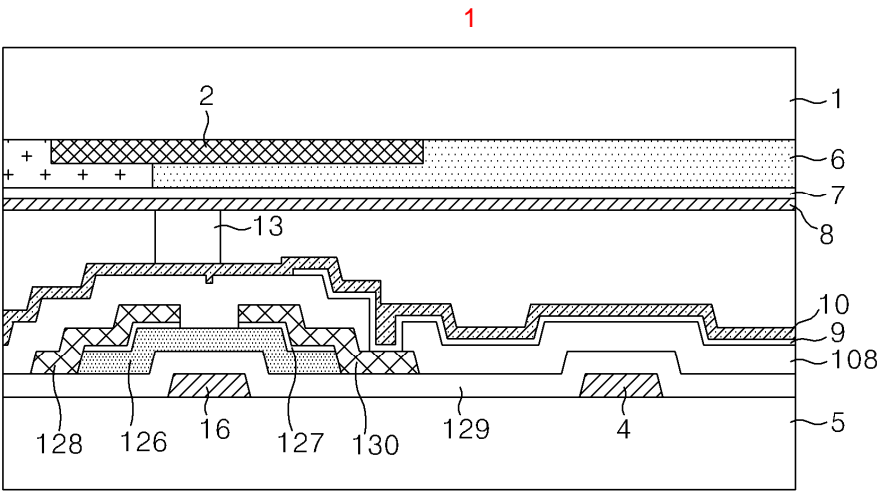
IPS(In plan Switch)
가 TN(Twisted Nematic) VA(Vertical Alignment)
가
가

- (57)
1. ;
가 ;
가 가
 2. 1 ,
40~45% , 40~45% 10~20% 가
 3. 1 ,
 4. 1 ,
가
 5. ;
가 ;
가 가
 6. 5 ,
40~45% , 40~45% 10~20% 가

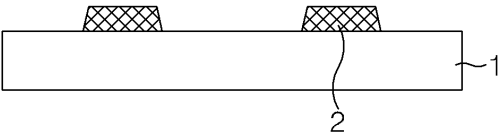
7.

5

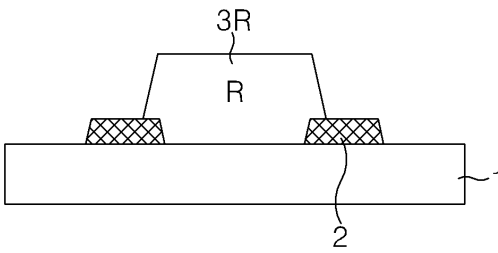
가



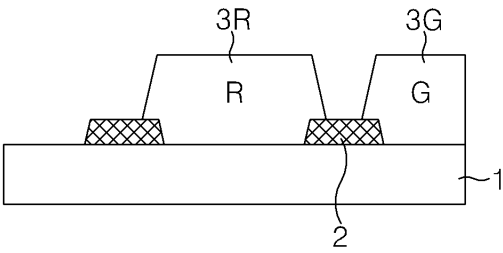
2a

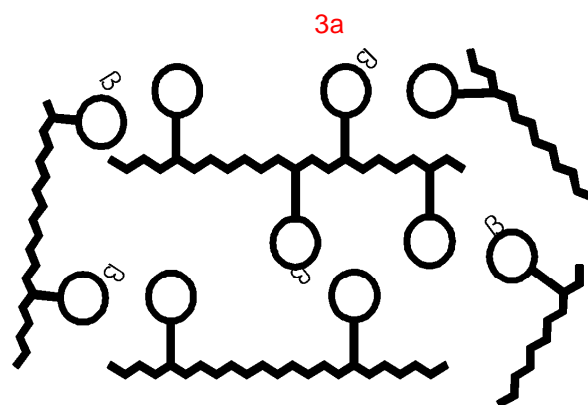
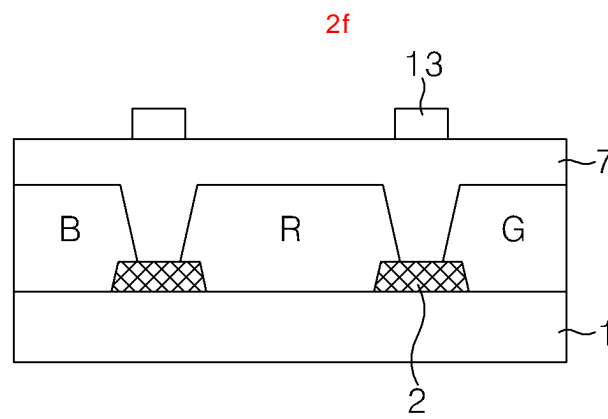
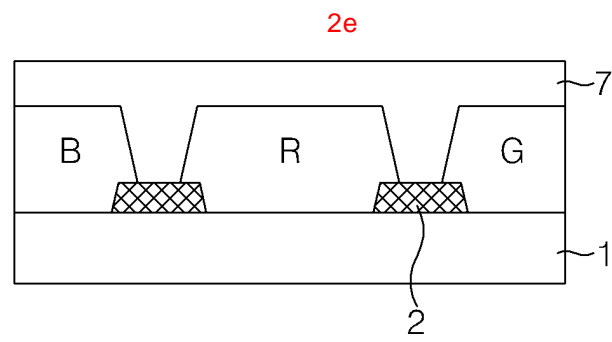
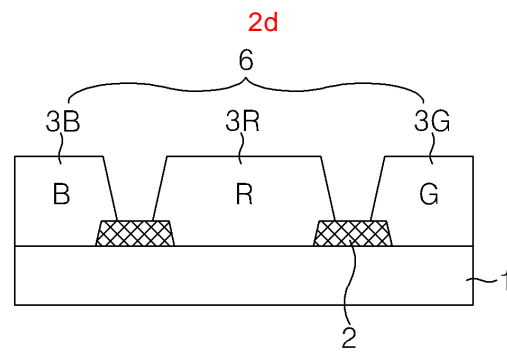


2b

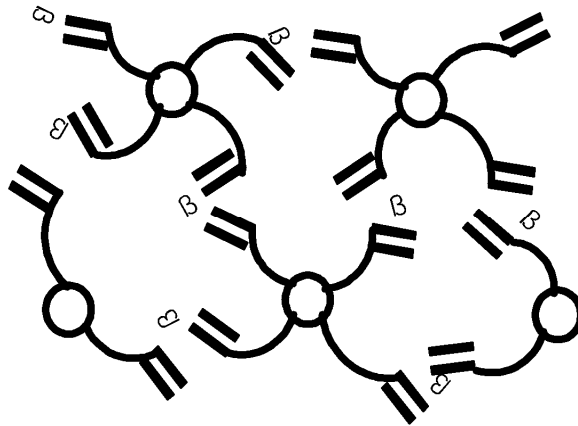


2c

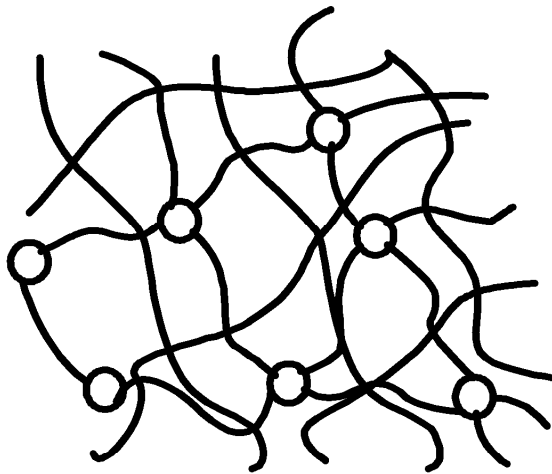




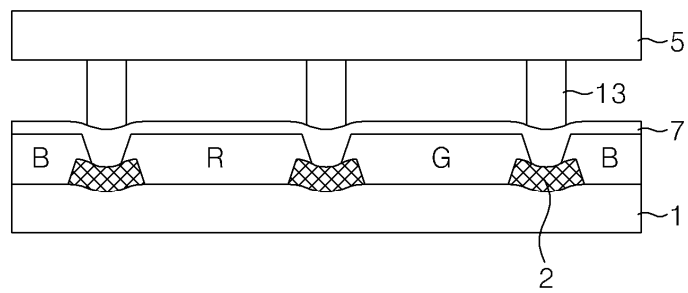
3b



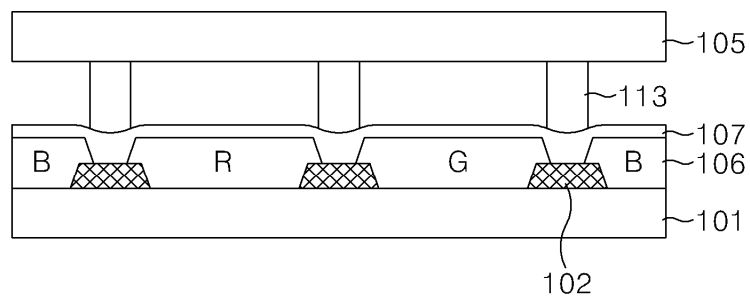
3c



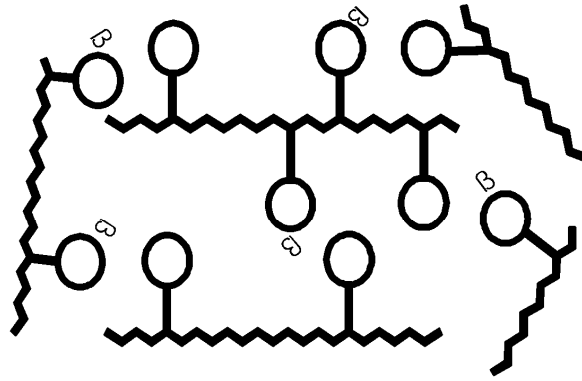
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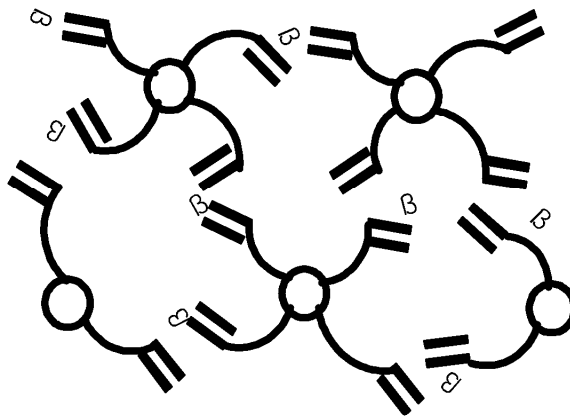
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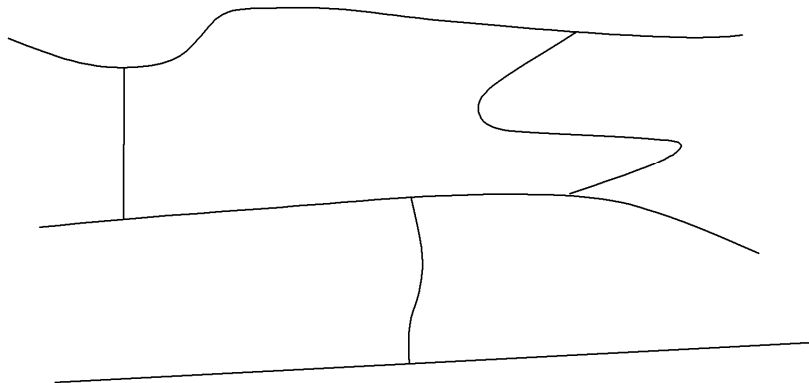
6a



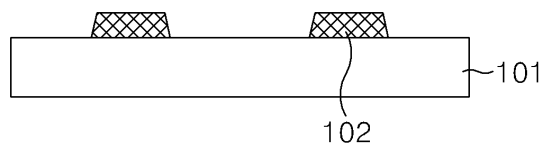
6b

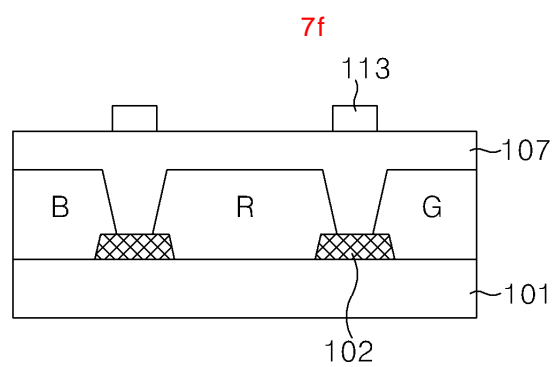
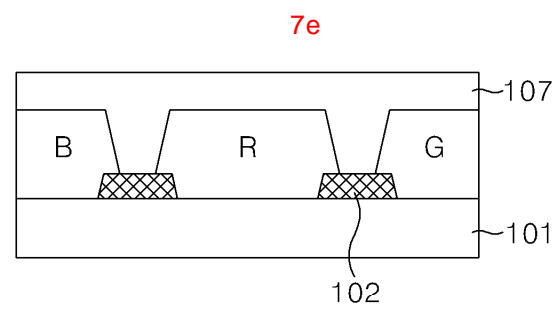
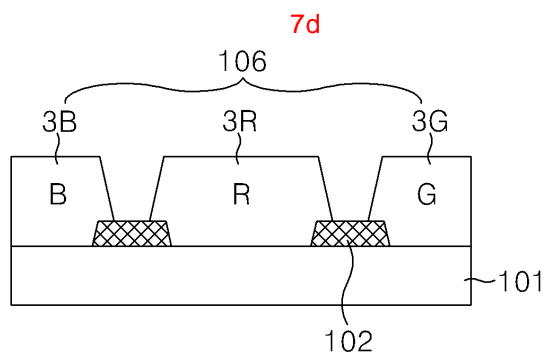
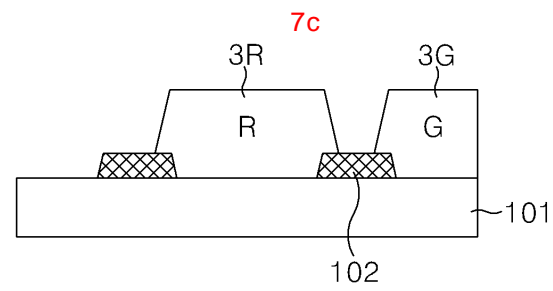
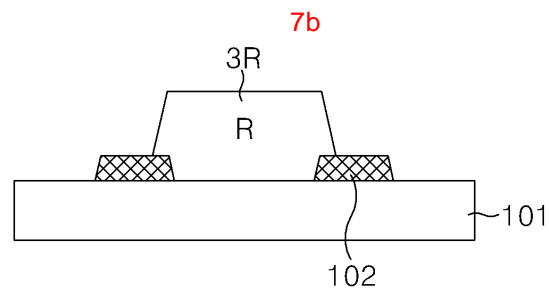


6c



7a





专利名称(译)	液晶显示面板及其制造方法		
公开(公告)号	KR1020050000177A	公开(公告)日	2005-01-03
申请号	KR1020030040768	申请日	2003-06-23
[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	SEOK DAEYOUNG 석대영 KIM JINHA 김진하		
发明人	석대영 김진하		
IPC分类号	G02F1/1335		
外部链接	Espacenet		

摘要(译)

液晶显示面板及其制造方法技术领域本发明涉及一种能够提高亮度的液晶显示面板及其制造方法。 本发明提供一种液晶显示器，包括：形成在基板上的黑矩阵;在基板上形成滤色器，在该基板上形成黑矩阵;并且平坦化层包括弹性树脂和交联剂，用于在其上形成有滤色器的基板上平坦化基板。 五

